

IBM DB2 Universal Database



Message Reference

Version 6

GC09-2846-00

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Before using this information and the product it supports, be sure to read the general information under “Appendix D. Notices” on page 711.

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About This Book

The purpose of this book is to list the messages generated by the various components of DB2.

Who Should Use This Book

The *Message Reference* is designed to be used by anyone using DB2 and requiring more detailed information about generated messages.

How This Book Is Structured

This book lists the possible error messages generated by the various components of DB2.

Organization

The book is divided into the following sections:

- Chapter 1. Introduction to Messages, describes how to access and interpret error messages.
- Chapter 2. Capture and Apply (ASN) Messages, describes the messages generated by DB2 Replication.
- Chapter 3. CCA Messages, describes the messages generated by the DB2 Client Configuration Assistant.
- Chapter 4. CLI Messages, describes the messages generated by the DB2 Call Level Interface.
- Chapter 5. DBA Messages, describes the messages generated by the DB2 Control Center and the Database Administration Utility.
- Chapter 6. DBI Messages, describes the messages generated through the installation and configuration of DB2.
- Chapter 7. DB2 Messages, describes the messages generated by the command line processor.
- Chapter 8. SAT Messages, describes the messages generated by DB2 Satellite Edition.
- Chapter 9. SPM Messages, describes the messages generated by the DB2 Sync Point Manager (SPM).
- Chapter 10. SQJ Messages, describes the messages generated by DB2 Embedded SQL in Java (SQLJ).

- Chapter 11. SQL Messages, describes the messages (SQLCODES) generated by the database manager when a warning or error condition is detected.
- Chapter 12. SQLSTATE Messages, describes the meaning of each SQLSTATE value.
- Appendix A. Communications Errors, describes communications error codes associated with sqlcode -30081.
- Appendix B. SPM Protocol Violation Records, lists C language definitions of records that might be written to DB2's first failure service log by the SPM.

Conventions

The format for date and time, and the characters used as separators for date and time, are intended for a system configured to use the United States national language format. These might be different on your display, depending on the national language format used by your system.

Chapter 1. Introduction to Messages

It is assumed that you are familiar with the functions of the operating system where DB2 is installed. You can use the information contained in the following chapters to identify an error or problem and resolve the problem by using the appropriate recovery action. This information can also be used to understand where messages are generated and logged.

Information Available Online

The following DB2 messages are accessible from the operating system command line:

Prefix	Description

ASN	Messages generated by Replication
CCA	Messages generated by the Client Configuration Assistant
CLI	Messages generated by Call Level Interface
DBA	Messages generated by the Control Center and the Database Administration Utility
DBI	Messages generated by installation and configuration
DB2	Messages generated by the command line processor
SAT	Messages generated by DB2 Satellite Edition.
SPM	Messages generated by the Sync Point Manager
SQL	Messages generated by Embedded SQL in Java (SQLJ)
SQL	Messages generated by the database manager when a warning or error condition has been detected.

As well, the message text associated with SQLSTATE values is available online.

Message identifiers consist of a three-character message prefix (see above list), followed by a four- or five-digit message number. The single-digit letter at the end, which describes the severity of the error message, is optional.

To access help on these error messages, enter the following command at the operating system command prompt:

db2 ? XXXnnnnn

where XXX represents the message prefix
and where nnnnn represents the message number.

Note: The message identifier accepted as a parameter of the **db2** command is not case-sensitive, and the terminating letter is not required.

Therefore, the following commands will produce the same result:

- db2 ? SQL0000N
- db2 ? sql0000
- db2 ? SQL0000n

If the message text is too long for your screen, use the following command (on UNIX-based systems and others that support 'more'):

db2 ? XXXnnnnn | more

Help can also be invoked in the interactive input mode. To enter the interactive input mode, enter the following command at the operating system command prompt:

db2

Once in the interactive input mode, you can enter commands at the following command prompt:

db2 =>

To get DB2 message help in this mode, type the following command at the command prompt:

? XXXnnnnn

Note: If the message text exceeds the length of the screen, users with non-graphical workstations can pipe the output to the 'more' (on UNIX-based systems) program or redirect the output to a file, which you can then browse.

The message text associated with SQLSTATEs can be retrieved by issuing:

db2 ? nnnnn

or

db2 ? nn

where nnnnn is a five-digit SQLSTATE (alphanumeric) and nn is the two-digit SQLSTATE class code (first two digits of the SQLSTATE value).

Other DB2 Messages

Some DB2 components return messages that are not described in this manual, or online. Some of the message prefixes might include:

AUD Messages generated by the DB2 audit facility.

DIA Diagnostics messages generated by many DB2 components. These messages are written in the diagnostics log file db2diag.log, and are intended to provide additional information for users and DB2 service personnel when investigating errors.

GOV Messages generated by the DB2 governor utility.

In most cases, these messages provide sufficient information to determine the cause of the warning or error. For more information on the command or utility that generated the messages, please refer to the appropriate manual where the command or utility is documented.

Other Message Sources

When running other programs on your workstation, you might receive messages with prefixes other than those mentioned in this reference.

For information on these messages, see the publications that you received for that program product.

Chapter 2. Capture and Apply (ASN) Messages

The following is a list of messages issued by DB2 replication for the Capture and Apply programs. A brief explanation of the status is provided.

Unless otherwise stated, all error codes described here are internal error codes used by IBM Service and IBM development. Also, unless otherwise stated, error messages are issued with a return code of 8.

The replication messages have the following prefixes:

ASN0 The Capture program

ASN1 The Apply program

ASN2 The Capture program for AS/400

Capture program messages

ASN0000S An internal error occurred for message number "<number>". The error code is "<error_code>". The return code is "<return_code>".

Explanation: The message file for Capture was installed incorrectly.

User Response: Refer to the installation and configuration information in this book pertaining to your platform. Make sure the message file is installed in the correct directory. If it is, contact your IBM Service representative.

ASN0001E The Capture program encountered an SQL error.

Parameters:

- **Routine name** is "<name>"
- **SQL request** is "<request>"
- **table name** is "<table_name>"
- **SQLCODE** is "<sqlcode>"
- **SQLERRML** is "<sqlerrml>"
- **SQLERRMC** is "<sqlerrmc>"

Explanation: A nonzero SQLCODE was returned when the Capture program issued an EXEC SQL statement.

User Response: See the messages and codes publication of the DB2 database manager on your platform for information about SQL return codes that use SQLERRML and SQLERRMC as substitution fields. Contact your DBA for more information.

ASN0002E The Capture program could not connect to DB2.

Parameters:

- **Routine name** is "<routine>"
- **SQLCODE** is "<sqlcode>"

Explanation: An error occurred when the Capture program issued either

- a CONNECT function to DB2 for VSE & VM
- a CONNECT function to DB2 Call Attachment Facility (CAF)
- an implicit connect to DB2 for common services

User Response: See DB2 codes in the messages

and codes publication of the DB2 database manager on your platform for the appropriate reason code.

For DB2 for OS/390 errors, see the section in the administration guide that describes the Call Attachment Facility. Contact your DBA for questions and diagnosis.

If you are running Capture under DB2 UDB for UNIX or under DataJoiner for UNIX, ensure that the LIBPATH environment variable is set to the same environment in which the Capture program starts. See the *Replication Guide and Reference* for more information.

ASN0003E The Capture program could not open the plan.

Parameters:

- **Routine name** is “<routine>”
- **Return code** is “<return_code>”
- **Reason code** is “<reason_code>”
- **Subsystem** is “<subsystem>”
- **Plan name** is “<ASNLPLAN>”

Explanation: An error occurred when the Capture program tried to open the plan, ASNLPLAN.

User Response: See the DB2 Codes section in the messages and codes publication of the DB2 database manager on your platform to find the appropriate reason code. See the appropriate section in the administration guide publication of the DB2 database manager on your platform: “Call Attachment Facility”.

ASN0004E The Capture program could not start the trace.

Parameters:

- **Routine name** is “<routine>”
- **Return code** is “<return_code>”
- **Reason code** is “<reason_code>”

Explanation: An error occurred when the START TRACE DB2 command was issued, or when Capture program read the DB2 log.

User Response: See the DB2 Codes section of in

the messages and codes publication of the DB2 database manager on your platform to find the appropriate reason code. For more information, see either of the following sections in the administration guide publication of the DB2 database manager on your platform: “Call Attachment Facility” (CAF) for START TRACE DB2 errors, or the Instrumentation Facility Interface (IFI) for DB2 log read errors, or contact your DBA. If CAF or the IFI returned a message, it is also printed on the system display console.

ASN0005E The Capture program encountered an error while reading the DB2 log.

Parameters:

- **Routine name** is “<routine>”
- **LSN** is “<log_sequence_number>”
- **Return code** is “<return_code>”
- **Reason code** is “<reason_code>”

Explanation: An error occurred when the Capture program read the DB2 log. There might be an SQL error.

For Capture program for OS/390, a dump has been generated for this message. The output appears in the data set whose name is specified by the CEEDUMP DDNAME on your Capture program for OS/390 invocation JCL.

For DB2 DataPropagator, the “<return_code>” value is for the Asynchronous Read Log. For UNIX, the log file might not be in the path.

For Capture for VSE, the “<return code>” is for the VSE/VSAM GET macro.

For Capture for VM, the “<return code>” is for Diagnose X'A4'.

User Response: See the DB2 Codes section in the messages and codes publication of the DB2 database manager on your platform for the appropriate reason code.

For Capture program for OS/390, see the Instrumentation Facility Interface (IFI) section in the administration guide publication of the DB2 database manager on your platform or contact your DBA.

For Capture for VSE, see the "VSE/VSAM Return and Error Codes" manual for more information.

For VM/ESA, see the VM/ESA Programming Services for more information.

For the IBM DPROPR Capture of Universal Database, see the active and archived database logs section in the administration guide for common servers or contact your IBM Service Representative.

ASN0006E The Capture program encountered an unexpected log error of unknown log variation. The routine name is "<routine>".

Explanation: An unexpected log error not reported by either:

- the Instrumentation Facility Interface (IFI) for Capture program for OS/390, or
- the Asynchronous Read Log API for IBM DPROPR Capture of Universal Database

occurred while the Capture program was processing the DB2 log records. The Capture program could not determine the type of SQL update associated with the log record.

For Capture program for OS/390, a dump has been generated for this message. The output appears in the dataset whose name is specified by the CEEDUMP DDNAME on your Capture program for OS/390 invocation JCL.

User Response: Contact your IBM Service Representative.

ASN0007E The Capture program encountered an unexpected log error of unimplemented data type. The routine name is "<routine>".

Explanation: An unexpected log error not reported by either:

- the Instrumentation Facility Interface (IFI) for Capture program for OS/390, or
- the Asynchronous Read Log API for IBM DPROPR Capture of Universal Database

occurred while the Capture program was processing the DB2 log records. The Capture program could not determine the type of SQL update associated with the log record.

For Capture program for OS/390, a dump has been generated for this message. The output appears in the dataset whose name is specified by the CEEDUMP DDNAME on your Capture program for OS/390 invocation JCL.

User Response: Contact your IBM Service representative.

ASN0008I The Capture program was stopped.

Explanation: The IBM Replication administrator stopped the Capture program using one of the valid methods.

Explanation: This message is for your information only.

User Response: No action is required.

ASN0009E The table was created without the DATA CAPTURE CHANGES (DCC) attribute.

Parameters:

- **Routine name** is "<routine>"
- **Table name** is "<table_name>"

Explanation: The source table was defined without the DCC attribute and the Capture program tried to capture changes for the replication source.

User Response:

1. Stop the Capture program.
2. Delete the replication source.
3. Define the replication source again; if you do not have the "Data capture is full-refresh only" check box selected, the DB2 Control Center will alter the source table with the DCC attribute.
4. Start the Capture program.

ASN0010E The Capture program cannot obtain enough storage.**Parameters:**

- **Routine name** is “<routine>”
- **Storage required** is “<amount>”

Explanation: The Capture program cannot continue processing because not enough free storage is available.

User Response: For Capture program for OS/390, ensure that the REGION parameter has enough storage allocated to run your job. If necessary, contact your OS/390 system programmer to determine the method for requesting sufficient storage.

For Capture for VM, a request to obtain virtual storage could not be satisfied. You might need to increase the size of the virtual machine in which Capture program runs.

For Capture for VSE, all available GETVIS storage has been exhausted. You might need to restart the Capture program after allocating a larger partition.

whose name is specified by the CEEDUMP DDNAME on your Capture program for OS/390 invocation JCL.

User Response: For the DB2 compression dictionary error, to avoid an unwanted cold start of the Capture program, you must capture all log records for a compressed table before creating a new version of the compression dictionary. Use the KEEPDICTIONARY option to retain the current version of the compression dictionary during routine REORG processing.

When you want a new compression dictionary for the table, you must synchronize running the REORG utility with running your updated applications and the Capture program as follows:

1. Quiesce your updated applications.
2. Let the Capture program capture all logged updates for the compressed table.
3. Use the REORG utility on the compressed table, creating a new compression dictionary.
4. Release your updated applications.

For the IFCID 306 buffer error, ensure all DB2 maintenance is current.

ASN0011E The DB2 compression dictionary is not available or the IFCID 306 buffer is invalid.**Parameters:**

- **Routine code** is “<routine_code>”
- **Reason code** is “<reason_code>”

Explanation: In the case of DB2 compression dictionary is not available error, the Capture program attempted to read log records for an old compression dictionary. DB2 for OS/390 only retains one version of the compression dictionary in memory. DB2 can only decompress log records for a compressed table if the compression dictionary used to compress the log records is still the current compression dictionary.

In the case of the IFCID 306 buffer being invalid, the control information is missing from the buffer.

For both cases, a dump has been generated for this message. The output appears in the dataset

ASN0013E The Capture program required a column that was not defined in the change data (CD) table.**Parameters:**

- **Routine name** is “<routine>”
- **Table name** is “<table_name>”

Explanation: The user did not define an IBMSNAP required column in the change data table.

User Response: Ensure that the change data table definition is correct. Refer to the *Replication Guide and Reference* for more information.

ASN0014E **The processing of the Capture program has fallen below a minimum level. The log record lags current time by “<number>” seconds. The routine name is “<routine>”.**

Explanation: The Capture program terminated because a high DB2 transaction rate caused the Capture program to run slower than the defined minimum level.

User Response: Refer to the Capture and Apply chapter for your platform for more information on the lag limit. Perform a cold start.

ASN0015E **The Capture program encountered a storage allocation error.**

Parameters:

- **Routine name is “<routine>”**
- **Storage required is “<amount>”**

Explanation: A storage allocation error was detected; sufficient storage is not available. The Capture program might have been installed improperly.

For the Capture program on AIX, you might not have set the soft links for the component files to the shared directory.

User Response: Determine why memory could not be allocated by looking at the operating system and application task status. Contact your system programmer to determine the method of requesting the storage listed in the error message.

For Capture for AIX, determine whether you have set the soft links for the component files.

For Capture for VM, a request to obtain virtual storage could not be satisfied. You might need to increase the size of the virtual machine in which Capture program runs.

For Capture for VSE, all available GETVIS storage has been exhausted. You might need to restart the Capture program after allocating a larger partition.

ASN0016E **The Capture program could not begin capturing changes because there was no eligible replication source.**

Parameters:

- **Routine name is “<routine>”**
- **Table name is “<table_name>”**

Explanation: The replication source information in the register table has not been defined.

The Capture program started but could not find source tables that were:

- Enabled with the DATA CAPTURE CHANGES option of the CREATE or ALTER TABLE statement.
- Defined as replication sources with the “Data capture is full-refresh only” check box cleared on the Define as Source window.

User Response: Ensure that the register table is defined properly. For more information about the register table, see the *Replication Guide and Reference*. Verify that replication sources have been defined.

ASN0017E **The Capture program encountered a severe internal error and could not issue the correct error message. The routine name is “<routine>”; the return code is “<return_code>”; the error message number is “<error_message_num>”.**

Explanation: The Capture program could not retrieve the message from the Capture program messages file.

User Response: Edit the Capture program error message file. Locate the ASNnnnn error message number to determine which error message should have been issued. See the information about the error message in this listing to determine how to resolve the error.

ASN0018W The Capture program did not process updates made to the register table rows. The routine name is "<routine>"; the table name is "<table_name>".

Explanation: The user changed a replication source definition while the Capture program was running and then issued a REINIT command. The register table, which contains a row for each replication source, might not match the other replication source control tables.

User Response:

1. Stop Capture.
2. Delete the replication source.
3. Redefine the replication source.
4. Start Capture.

ASN0019E The Capture program libraries are not authorized for the Authorized Program Facility (APF).

Explanation: The Capture program cannot process the STOP, SUSPEND, RESUME, or REINIT commands because the STEPLIB libraries are not authorized for APF.

User Response: Authorize the Capture link library for APF.

ASN0020I Netview Generic Alerts Interface failure. The Netview return code is "<return_code>".

Explanation: The Network Major Vector Transport (NMVT) could not be sent to Netview by the program because the program interface failed. This is a secondary informational message.

User Response: See the Netview programming documentation for a description of the return code to determine the interface error. The Capture program alerts will not be received by the System Services Control Point (SSCP) until the error is corrected.

ASN0021I Netview Program to Program Interface unavailable. The Netview return code is "<return_code>".

Explanation: Netview is unavailable. This is a secondary informational message.

User Response: See the Netview programming documentation for a description of the return code to determine the Netview problem. For example, the subsystem might not have been started.

ASN0022E DB2 release "<release>" is not supported. The routine name is "<routine>".

Explanation: The Capture program does not support this release of DB2.

User Response: Run the Capture program with the appropriate release of DB2.

ASN0023I The Capture program successfully reinitialized the register table. The table name is "<table_name>"; the routine name is "<routine_name>".

Explanation: A REINIT command was issued and the updates were successfully made to the Capture program internal control information. This message is for your information only.

User Response: No action is required.

ASN0024I The Capture program did not need to reinitialize the register table. Table "<table_name>" did not change.

Explanation: The REINIT command was issued. No updates were made to the register table since initialization or the last REINIT. This message is for your information only.

User Response: No action is required.

ASN0025I The Capture program reinitialized the register table. Table “<table_name>” has <number> potentially bad row(s).

Explanation: This message accompanies ASN0018W. Reinitialization was performed as requested despite potential problems reported in ASN0018W.

User Response: See ASN0018W.

ASN0026W The Capture program could not allocate the trace buffer. The routine name is “<routine>”; the storage required is “<required_storage>”.

Explanation: A storage allocation error was detected; not enough storage is allocated for the trace buffer. The trace buffer is an information-only feature of the Capture program and the allocated storage is not required for the Capture program to run.

User Response: Contact your system programmer to determine the method of requesting the storage listed in the error message.

For Capture for VM, a request to obtain virtual storage could not be satisfied. You might need to increase the size of the virtual machine in which the Capture program runs.

For Capture for VSE, all available GETVIS storage has been exhausted. You might need to restart the Capture program after allocating a larger partition.

ASN0027W The Capture program is already active.

Explanation: You tried to start more than one the Capture program per DB2 subsystem or database.

For VSE/ESA, Capture for VSE generates a unique lock name for each database. This lock name is already in use, indicating that Capture for VSE is already active for the database.

For VM/ESA, Capture for VM has determined

that the resource ID used as a lock is already in use. The resource ID is specified on the ENQ_NAME parameter of the CAPTURE ASNPARMs file.

User Response: For DB2 for OS/390 subsystems, either run only one instance of the Capture program for all subsystems that are members of a data-sharing group, or run only one instance of the Capture program on any stand-alone system.

For other DB2 database platforms, run only one Capture program per database.

For Capture for VM, you can change the ENQ_NAME parameter in the CAPTURE ASNPARMs to ensure unique values for each Capture program if you want to run Capture for VM for more than one DB2 database on a system.

ASN0028I The Capture program is suspended by operator command.

Explanation: The IBM Replication administrator suspended the Capture program and has entered a wait state. This message is for your information only.

User Response: No action is required.

ASN0029I The Capture program is resumed by operator command.

Explanation: The IBM Replication administrator resumed the Capture program from a suspended state and the Capture program has continued running. This message is for your information only.

User Response: No action is required.

ASN0030I The Capture program command entered by the operator was unrecognized.

Explanation: The IBM Replication administrator entered a command not recognized by the Capture program. The only valid commands are:

- STOP (*Ctrl+C* for DB2 DataPropagator)
- SUSPEND

- RESUME
- REINIT
- PRUNE
- GETLSEQ

There are no parameters allowed for these commands.

User Response: Use only valid Capture program commands.

ASN0031E The Capture program tuning parameters table can have only one row. The routine name is "<routine>"; the table name is "<table_name>".

Explanation: The tuning parameters table was not defined correctly or has been updated with invalid rows.

User Response: Refer to the *Replication Guide and Reference* to determine the correct format of this table. Remove any invalid rows.

ASN0033E The Capture program could not reinitialize the register table. The table name is "<table_name>".

Explanation: The IBM Replication administrator tried to reinitialize the Capture program, but there was an error in the register table. A user might have tried to update a replication source while the Capture program was running or suspended, and the register table might not match the other control tables.

User Response: This is a secondary message. See any preceding messages for more information about the error. See the Capture and Apply section for your platform more information about reinitializing the Capture program and the *Replication Guide and Reference* for information about the register table.

ASN0034E An incorrect value was supplied for column "<column>" of the Capture program tuning parameters table. The routine name is "<routine>"; the table name is "<table_name>".

Explanation: The tuning parameters table does not have the correct values. Values might be out of range.

User Response: Refer to the Capture and Apply section for your platform for more information. Check the lag limit, retention period and commit frequency.

ASN0035W Some rows were found in the register table with an unsupported architectural level. The routine name is "<routine>"; the table name is "<table_name>".

Explanation: The register table version does not match the current version of the Capture program. The current version of the DB2 Control Center is not compatible with the version of the Capture program that you are running.

User Response: Refer to the *Replication Guide and Reference* to check the required value for the ARCH_LEVEL column in the register table. Verify that the value in the register table at the source server is correct. If not, use compatible versions of the Control Center and the Capture program.

ASN0036E DB2 was terminated abnormally. The routine name is "<routine>".

Explanation: DB2 was terminated while the Capture program was still active.

For OS/390, VSE/ESA or VM/ESA, DB2 was terminated while Capture program was active and the user did not specify the NOTERM invocation parameter.

User Response: Start DB2 and start the Capture program.

ASN0037W DB2 was terminated in QUIESCE mode. The routine name is “<routine>”.

Explanation: DB2 was terminated while the Capture program was still active.

User Response: Start DB2 and start the Capture program.

ASN0038E The disconnect to DB2 failed. The routine name is “<routine>”; the return code is “<return_code>”; the reason code is “<reason_code>”.

Explanation: DB2 was stopped in QUIESCE mode, but user wanted to leave the Capture program running. While terminating the connection to DB2, Capture program received an error returned code from the Call Attachment Facility (CAF).

User Response: Restart Capture program.

ASN0040E An error was returned from the FORK function of “<platform>”. The error is “<error_text>”.

Explanation: An AIX FORK function returned a negative value. “<Error_text>” describes the error.

User Response: See AIX Calls and Subroutines Reference for information about FORK functions, use the provided error text to determine the error, or contact your IBM Service Representative.

ASN0041E An error was returned while getting the instance name. The reason code is “<reason_code>”.

Explanation: The SQLEGENS API of DB2 Universal Database returned an error.

User Response: See the DB2 for common servers API Reference for information about the SQLEGENS API to determine the error or contact your IBM Service Representative.

ASN0042E An error was returned from the EXECLP function. The error is “<error_text>”.

Explanation: The AIX EXECLP function returned a negative value.
“<Error_text>” describes the error.

User Response: See the AIX Calls and Subroutines Reference for information about the EXECLP function or contact your IBM Service Representative.

ASN0043E A child process of ASNLMAIN died.

Explanation: The child process created by ASNLMAIN terminated. Possible causes include:

- A user stopped the child process.
- There is an AIX system problem.

User Response: Check the system processes for conflicts or contact your AIX system programmer.

ASN0044E The child process has not called the dummy process after an extended wait.

Explanation: The child process was unable to call the dummy routine ASNLPVRF. The installation softlinks might not have been set.

User Response: Verify whether the installation softlinks have been set, check the system for problems, or contact your IBM Service Representative.

ASN0045E An error was returned from the MSGRCV function. The error is “<error_text>”.

Explanation: The function MSGRCV returned an error. “<Error_text>” describes the error.

User Response: Use the provided error text to determine the error, or contact your IBM Service Representative.

ASN0046E An error was returned from the MSGGET function. The error is “<error_text>”.

Explanation: The function MSGGET returned an error. “<Error_text>” describes the error. This error occurs during message handling.

User Response: Use the provided error text to determine the error, or contact your IBM Service Representative.

ASN0047E An error was returned from the FTOK function of “<platform>”. The error is “<error_text>”.

Explanation: The AIX function FTOK returned an error. “<Error_text>” describes the error.

User Response: See AIX Calls and Subroutines Reference for information about the FTOK function, use the provided error text to determine the error, or contact your IBM Service Representative.

ASN0048E The Capture program could not open the log file. The error is “<error_text>”. The error code is “<error_code>”.

Explanation: The Capture program could not open the log file. Some possible reasons are:

- The Capture program log file was deleted.
- The user does not have the correct authorization for the Capture program directory.

User Response: Contact your system programmer to determine the error or contact your IBM Service Representative.

ASN0050E The Capture program encountered an error while writing to the error message file.

Explanation: An I/O error occurred while writing to the Capture program log file

User Response: Check the trace table for error messages.

ASN0053E An error was returned by the Asynchronous Read Log API (SQLURLOG).

Parameters:

Initial LSN is
“<log_sequence_number>”

FIRSTRead LSN is
“<first_read_LSN>”

lastRead LSN is
“<last_read_LSN>”

CurActive LSN is
“<currently_active_LSN>”

log Recswritten is
“<log_records_written>”

log Byteswritten is
“<log_bytes_written>”

Explanation: The Asynchronous Read Log API returned an SQLCODE in the SQL error message that preceded this message. The information in this message provides additional information about the SQL error.

User Response: See ASN0001E for information about SQLCODEs.

ASN0054E The Capture program did not recognize the invocation parameter.

Explanation: An invalid invocation parameter was entered with the ASNCCP command.

User Response: Enter a valid invocation parameter.

See the Capture and Apply section for your platform for information about valid parameters.

ASN0055E The Capture program encountered an SQLTYPE that is not supported in the origin table.

Parameters:

- **Routine Name is** “<routine>”
- **Column Number is** “<column_num>”

Explanation: The Capture program encountered an invalid SQL type. A table might have been defined as a replication source outside the DB2 Control Center and contains unsupported SQL types (for example, LONG VARGRAPHIC).

User Response: Delete the replication source and use the DB2 Control Center to define replication sources to ensure only valid types are defined. Or, when manually defining the replication source, ensure that the table has supported SQL types. See the messages and codes publication of the DB2 database manager on your platform to determine the invalid SQLTYPE.

ASN0056E ASN.IBMSNAP_UOW table does not exist.

Explanation: The unit-of-work (UOW) table might have been dropped, or the source server database might have been dropped.

User Response: Contact your IBM Service representative.

ASN0100I The Capture program initialization is successful.

Explanation: This message is for your information only.

User Response: No action is required.

ASN0101W The Capture program warm start failed because existing data is too old; a cold start will be attempted.

Explanation: The data in the change data tables is older than the value “<current_timestamp_lag_limit>”. A cold start will be performed.

User Response: See the *Replication Guide and Reference* for more information about warm and cold starts to determine why Capture program could not warm start.

ASN0102W The Capture program will switch to cold start because the warm start information is insufficient.

Explanation: A problem occurred during the retrieval of the warm start information. The warm start table data was invalid. A cold start will be performed.

For DB2 Universal Database, an Asynchronous Read Log API error occurred while reading the log during warm start. For OS/390, an Instrumentation Facility Information (IFI) error occurred while reading the log during warm start.

User Response: See the *Replication Guide and Reference* for more information about warm and cold starts to determine why Capture program could not warm start.

ASN0103I The Capture program started with: “<server_name>”.

Parameters:

- **SERVER_NAME** is “<server_name>”
- **ENQ_NAME** is “<enq_name>”
- **START_TYPE** is “<start_type>”
- **TERM_TYPE** is “<term_type>”
- **PRUNE_TYPE** is “<prune_type>”

Explanation: This is an informational message that displays the DB2 server name and the Capture program start up option.

For Capture for VSE and VM, the ENQ_NAME shows the name on which Capture program locks to make sure that there is only one Capture program running for any DB2 database. The lock name can be specified for VM/ESA by changing the ENQ_NAME parameter value in the CAPTURE ASNPARMs file.

User Response: No action is required.

ASN0104I **Change capture started for owner “<owner>”, the table name is “<copy_table>” at log sequence number (LSN) “<log_sequence_number>”.**

Explanation: The Capture program was started for the table owner and table name at the specified log sequence number (LSN). This message is issued for each origin table for which the Capture program captures changes. This message is for your information only.

User Response: No action is required.

ASN0105I **Data that has been copied was pruned from the change data table and the unit-of-work table.**

Explanation: This message is for your information only.

User Response: No action is required.

ASN0106I **The Capture program is waiting for DB2 to come up.**

Explanation: When the Capture program is initially brought up, if DB2 is not up at that time, the Capture program waits until DB2 is up. After DB2 is up, the Capture program makes the connection and begins to capture changes.

If the NOTERM option is specified in the Capture invocation parameters, and DB2 comes down smoothly, the Capture program waits for it to come back up.

User Response: No action is required.

ASN0110E **Capture for OS/390 Storage Dump. The Control Address is “<address>”.**

Explanation: This is an informational message printed at the top of storage dumps for severe errors. When a dump is generated for a message, the dump output appears in the dataset whose name is specified by the CEEDUMP DDNAME on your Capture for OS/390 invocation JCL.

User Response: No action is required.

ASN0115I **The warm start control information was not supplied. The routine name is “<routine>”; the table name is “<table_name>”.**

Explanation: The warm start table is missing or corrupted. This table provides a faster warm start. The Capture program will warm start.

User Response: No action is required.

ASN0116I **The Capture program did not reinitialize the tuning parameters table. The routine name is “<routine>”; the table name is “<table_name>”.**

Explanation: The REINIT command was issued, but tuning parameter information from the tuning parameters table was not available. The previous tuning parameter values were retained.

User Response: No action is required.

ASN0117W **Warm start control information was not saved. The routine name is “<routine>”; the table name is “<table_name>”.**

Explanation: An error occurred that prevented warm start information from being saved in the IBMSNAP_WARM_START table. Warm start can be attempted and can take longer because backup sources will be used.

User Response: No action is required.

ASN0121E **The Capture program warm start failed because existing data is too old. The Capture program will terminate.**

Explanation: The time of the warm start information exceeded LAG_LIMIT.

User Response: No response required; the Capture program will terminate because WARMNS was specified.

ASN0122E **An error occurred while reading the warm start information or DB2 log. The Capture program will terminate.**

Explanation: A problem occurred while retrieving the warm start information. The warm start table data was invalid or for OS/390, an Instrumentation Facility Interface (IFI) error occurred while reading the log during warm start.

User Response: No response required; the Capture program is terminating because WARMNS was specified.

ASN0123I **The highest log sequence number of a successfully captured log record is “<log_sequence_number>”.**

Explanation: The Capture program saved the highest log sequence number (LSN) in the warm start table. This is the point at which the Capture program finished successfully processing the log data.

User Response: No response required; this message accompanies termination.

ASN0124I **The prune command was accepted; the pruning action is queued.**

Explanation: The IBM Replication administrator entered the prune command and the Capture program has queued the request. The Capture program will prune the change data (CD) table and the unit-of-work (UOW) table.

User Response: No response required.

ASN0125I **The current log sequence number of successfully processed log records is “<log_sequence_number>”. The log timestamp is “<timestamp>”.**

Explanation: Capture program is processing the DB2 log at the log sequence number provided.

User Response: No action is required.

ASN0126E **The Capture program encountered a syntax error. The Capture program will terminate.**

Explanation: The Capture program encountered the wrong combination of invocation parameters.

User Response: Check the Capture and Apply section for your platform for more information about the START command syntax.

ASN0130I **The user requested that the Capture program start reading from the end of the DB2 log.**

Explanation: The user specified the WRMSKPM parameter when invoking the Capture program.

User Response: No action is required.

ASN0132I **The Capture program was invoked by asncopy with the mobile option.**

Explanation: This message is for your information only.

User Response: No action is required.

ASN0133I **The Capture program reached the end of the mobile transactions.**

Explanation: This message is for your information only.

User Response: No action is required.

ASN0134E **The Capture program could not obtain the start of log information when it was invoked by asncopy with the mobile option.**

Explanation: The Capture program was unable to locate the point in the log where it needed to start reading information.

User Response: Wait for subsequent messages which will provide more detailed information.

ASN0135E The trial period for the Capture program has expired

Explanation: The trial period for the DB2 DataPropagator product has ended. You can no longer use this product until you order and install the DataPropagator licensed feature of DB2 for OS/390.

User Response: Contact the person responsible for ordering the DB2 DataPropagator product.

ASN0136I The trial version of Capture will end in *nn* days.

Explanation: You are using the trial version of DB2 DataPropagator. After *nn* days have passed, you will no longer be able to use DB2 DataPropagator unless you install the DataPropagator licensed feature of DB2 for OS/390.

User Response: None; however you might want to contact the person responsible for ordering the DB2 DataPropagator product.

ASN0137E The product registration module has unexpected content.

Explanation: The content of the registration module (ASNLPR61) for the DB2 DataPropagator feature is not as expected for this version of the DB2 DataPropagator product. No further use of the product is possible until you provide the correct registration module.

User Response: Verify that the DB2 DataPropagator feature was installed without errors. If errors occurred, correct them and try again.

If the DB2 DataPropagator feature installed without error and you are correctly accessing the feature-registration module (ASNLPR61), contact IBM customer service for assistance.

ASN0138E The product trial module has unexpected content.

Explanation: The content of the DB2 DataPropagator trial module is not as expected for this version of the DB2 DataPropagator

product. No further use of the product is possible until you provide the correct trial module.

User Response: Verify that the DB2 DataPropagator feature was installed without errors. If errors occurred, correct them and try again.

If the DB2 DataPropagator feature installed without error and you are correctly accessing it, contact IBM customer service for assistance.

ASN0139E The Capture program could not open the trace file. The error is “<error_code>”.

Explanation: The user specified the TRCFILE option, but the Capture program could not open the trace file. Possible reasons are:

- The directory specified in the ASNPATH environment variable is incorrect.
- The user does not have the correct authorization for the directory.

User Response: Contact your system programmer or your IBM Service Representative.

ASN0200E An incorrect parameter “<parameter>” was passed to the Capture program.

Explanation: For VM/ESA, one of the following situations caused an error:

- An incorrect parameter was specified on the ASNCCP invocation command.
- The CAPTURE ASNPARMs file contained an invalid parameter.
- An invalid parameter was specified on the :RESID tag in the RESID NAMES file for the :DBNAME. For example, the RESID could be too long.

For VSE/ESA, an invalid parameter was specified on the ASNCCP invocation command.

User Response: Verify that the parameters supplied are valid. See the Capture and Apply section for your platform for more information about the ASNCCP command.

ASN0201E The Capture program encountered a “<platform>” error. The routine name is “<routine>”; the function name is “<function>”; the return code is “<return_code>”.

Explanation: On VM:

- For the LINK function, Capture program encountered an error while attempting to LINK the minidisks identified in the *database* SQLFDEF file.
database is the database identified with the SQLINIT or SQLGLOB commands, the default of SQLDBA.
- For the FSREAD, FSPOINT, or FSTATE function errors, the Capture program encountered an error while trying to read CAPTURE ASNPARMs or the *database* SQLFDEF file.
- For the XCIDRM function, Capture program was unable to obtain the resource ID it uses as a lock to ensure that only one Capture program is active for a DB2 database. The error may have occurred for the following reasons:
 - The virtual machine in which the application is running does not have authority to connect to *IDENT.
 - The virtual machine in which the application is running does not have the authority to declare the resource.

On VSE:

- For the GENCB, MODCB, OPEN, GET, CLOSE, or ENDREQ function errors, Capture program encountered an error while trying to set up or read the database log or directory.
- For the GETVIS, FREEVIS, or XPCC function errors, Capture program encountered an error while trying to perform one of these functions.

User Response: Correct the error as described in the platform documentation. On VM:

- For the LINK function, see VM/ESA CP Command and Utility Reference for more information about the return code.
- For the FSREAD, FSPOINT, or FSTATE function errors, see VM/ESA CMS Application Reference - Assembler.
- For the XCIDRM function, see VM/ESA CPI Communications User Guide for more information the return code.
- For other functions, refer to the platform product application development and command documentation.

On VSE:

- For the GENCB, MODCB, OPEN, GET, CLOSE, or ENDREQ function errors, see VSE/ESA Messages and Codes Reference, for more information about the IBM VSE/VSAM macros.
- For the GETVIS, FREEVIS, or XPCC function errors, see VSE/ESA Systems Macro Reference.

ASN0202E The USERID parameter was not specified.

Explanation: The USERID parameter is required in the PARM= field on the EXEC job control statement that is passed to the Capture program.

User Response: Add the USERID= parameter, specifying the user ID and password, in the PARM= field and resubmit the job.

ASN0203I Linking to “<diskname>” minidisk “<diskowner>” as “<vdev>”

Explanation: The Capture program is about to issue an internal CP link command to the specified database minidisk.

User Response: If prompted, enter the minidisk password.

Apply program messages

ASN1000S An internal error occurred for message number “<number>”. Its substitution fields are “<substitution_field_1>”, “<substitution_field_2>”, “<substitution_field_3>”, “<substitution_field_4>”, “<substitution_field_5>”, “<substitution_field_6>”, and “<substitution_field_7>”. The error code is “<error_code>”. The return code is “<return_code>”.

Explanation: The message file for Apply was installed incorrectly.

User Response: Refer to the installation and configuration information in this book pertaining to your platform. Make sure the message file is installed in the correct directory. If it is, contact your IBM Service representative.

ASN1001E The Apply program encountered an SQL error.

Parameters:

- **ERRCODE** is “<error_code>”
- **SQLSTATE** is “<sqlstate>”
- **SQLCODE** is “<sqlcode>”
- **SQLERRM** is “<sqlerrm>”
- **SQLERRP** is “<sqlerrp>”
- **server name** is “<server_name>”
- **table name** is “<table_name>”

Explanation: An error occurred during the execution of an SQL statement.

User Response: Refer to your database messages reference for SQL.

ASN1002E The “<table_name>” could not be locked. **ERRCODE** is “<error_code>”, **SQLSTATE** is “<sqlstate>”, **SQLCODE** is “<sqlcode>”, **SQLERRM** is “<sqlerrm>”, **SQLERRP** is “<sqlerrp>”, **server name** is “<server_name>”, **table name** is “<table_name>”

Explanation: The Apply program could not lock the table.

User Response: Refer to your database’s message reference.

ASN1003E The Apply program could not connect to the server “<server>”.

Parameters:

- **error code** is “<error_code>”
- **SQLSTATE** is “<sqlstate>”
- **SQLCODE** is “<sqlcode>”
- **SQLERRM** is “<sqlerrm>”
- **SQLERRP** is “<sqlerrp>”

Explanation: The Apply program attempted to connect to the database and received a failing return code because either the database was not up or too many users were accessing it.

User Response: If you are running Apply under DB2 UDB for UNIX or under DataJoiner for UNIX, ensure that the LIBPATH environment variable is set to the same environment in which the Apply program starts. See the *Replication Guide and Reference* for more information.

Refer to your database messages reference for SQL.

ASN1004I The trial version of Apply will end in *nn* days.

Explanation: You are using the trial version of DB2 DataPropagator. After *nn* days have passed, you will no longer be able to use DB2 DataPropagator unless you install the DataPropagator licensed feature of DB2 for OS/390.

User Response: None; however you might want to contact the person responsible for ordering the DB2 DataPropagator product.

ASN1005E The trial period for the Apply program has expired

Explanation: The trial period for the DB2 DataPropagator product has ended. You can no longer use this product until you order and install the DataPropagator licensed feature of DB2 for OS/390.

User Response: Contact the person responsible for ordering the DB2 DataPropagator product.

ASN1006E The product registration module has unexpected content.

Explanation: The content of the registration module (ASNAPR61) for the DB2 DataPropagator feature is not as expected for this version of the DB2 DataPropagator product. No further use of the product is possible until you provide the correct registration module.

User Response: Verify that the DB2 DataPropagator feature was installed without errors. If errors occurred, correct them and try again.

If the DB2 DataPropagator feature installed without error and you are correctly accessing the feature-registration module (ASNAPR61), contact IBM customer service for assistance.

ASN1007E The product trial module has unexpected content.

Explanation: The content of the DB2 DataPropagator trial module is not as expected for this version of the DB2 DataPropagator product. No further use of the product is possible until you provide the correct trial module.

User Response: Verify that the DB2 DataPropagator feature was installed without errors. If errors occurred, correct them and try again.

If the DB2 DataPropagator feature installed

without error and you are correctly accessing it, contact IBM customer service for assistance.

ASN1008E The subscription set with Apply qualifier "<qualifier>" and set name "<set_name>" is not defined correctly. ERRCODE is %3.

Explanation: The subscription set is not defined correctly.

User Response: Make sure that the WHOS_ON_FIRST column in ASN.IBMSNAP_SUBS_SET is specified correctly.

ASN1009E There is no subscription set defined for Apply qualifier "<qualifier>".

Explanation: There is no subscription set defined for Apply qualifier "<qualifier>".

User Response: Define at least one subscription set for Apply qualifier "<qualifier>".

ASN1010E The Apply program could not insert row "<row>" into the audit trail table due to the following error: "<error_code>".

Explanation: This is an SQL return code indicating that the audit trail table was not set up with the same structure as the table in the *Replication Guide and Reference*.

User Response: Refer to the *Replication Guide and Reference* and your database SQL manual.

ASN1011E The copy request has incompatible source and target attributes. The error code is "<error_code>".

Explanation: This is an SQL error code indicating that the attributes of the target table must be compatible with the attributes of the source table.

User Response: Refer to the BASE_STRUCTURE column in the register table for the compatibility of the source and target attributes.

ASN1012E **The source table structure is invalid. The error code is “<error_code>”.**

Explanation: This is an SQL return code indicating that the source table structure in the register table was not set up according to the SOURCE_STRUCTURE column in the register table.

User Response: Refer to the *Replication Guide and Reference*, the SOURCE_STRUCTURE column in the register table for valid source table structures.

ASN1013E **The target table structure is invalid. The error code is “<error_code>”.**

Explanation: The target table structure in the subscriptions target member table (ASN.IBMSNAP_SUBS_MEMBR) was not valid.

User Response: Refer to the *Replication Guide and Reference* for valid target table structures.

ASN1014E **The Apply program could not find a source for the copy request because it could not find the change data table. The error code is “<error_code>”.**

Explanation: The change data table was not defined in the register table because either the Apply program did not find the change data table name in the register table or the source table was not registered correctly.

User Response: Refer to the *Replication Guide and Reference* and verify that the change data table is correctly defined in the register table (ASN.IBMSNAP_REGISTER CD_OWNER, CD_TABLE).

ASN1015I **The Apply program is waiting for the Capture program at server “<server_name>” to advance the global SYNCHTIME. Verify that the Capture program is running.**

Explanation: This message is for your information only.

User Response: No action is required.

ASN1016I **Refresh copying has been disabled. The error code is “<error_code>”.**

Explanation: While attempting to perform a full refresh, the Apply program encountered a DISABLE_REFRESH column in the register table which was set on.

User Response: Either turn off the DISABLE_REFRESH column or bypass the Apply program and perform a manual refresh.

ASN1017E **Apply could not find any target column names. The error code is “<error_code>”.**

Explanation: Apply could not find any columns in the ASN.IBMSNAP_SUBS_COLS subscription columns table.

User Response: Refer to “Defining Replication Subscriptions” to redefine the replication subscription.

ASN1018I **The Apply program is processing subscription set “<set_name>” (“<whos_on_first>”). (“<set_number>” of “<total_sets>”).**

Explanation: This message is for your information only.

User Response: No action is required.

ASN1019E **The target table does not have any key columns. The error code is “<error_code>”.**

Explanation: The Apply program could not find key column names in one of the columns requiring a primary key.

User Response: Refer to “<Defining Replication Descriptions>” to redefine the replication description.

ASN1020S **The Apply program could not reserve a storage block. The error code is “<error_code>”.**

Explanation: The Apply program could not obtain the required (memory) storage.

User Response: Contact your IBM Service representative.

ASN1021S **The Apply program could not read the work file. The error code is “<error_code>”.**

Explanation: The Apply program could not read the work file due to a system error.

User Response: Determine if the problem is caused by lack of space and contact your system administrator to obtain what is needed.

ASN1022S **The Apply program could not write into the work file. The error code is “<error_code>”.**

Explanation: Either the user does not have the proper access authority for one or all of the files or not enough space is left after writing to the target file.

User Response: Determine whether the problem is caused by a lack of access authority or a lack of space and contact your system administrator to obtain what is needed.

ASN1023S **The Apply program could not open the work file. The error code is “<error_code>”.**

Explanation: The Apply program could not open the work file.

User Response: Contact your IBM Service representative.

ASN1024S **The Apply program could not close the work file. The error code is “<error_code>”.**

Explanation: The Apply program could not close the work file.

User Response: Contact your IBM Service representative.

ASN1025I **The Apply program completed processing for subscription set “<set_name>” (“<whos_on_first>”). The return code is “<return_code>”.**

Explanation: This message is for your information only.

User Response: No action is required.

ASN1026I **The Apply program encountered an error while trying to bind. SQLSTATE is “<sqlstate>”, SQLCODE is “<sqlcode>”.**

Explanation: An error occurred during the execution of bind.

User Response: Refer to your database’s message reference.

ASN1029E **The SQL statement could not execute. The error code is “<error_code>”.**

Explanation: The execution of the SQL statement specified by the user was not successful.

User Response: Refer to the SQLSTATE, SQLCODE, SQLERRO, and SQLERRM in the

apply trail table and your database SQL manual for detailed information.

ASN1030S The Apply program encountered an OS/2 error. The error code is “<error_code>”; the return code is “<return_code>”.

Explanation: The execution of an OS/2 API failed.

User Response: For more information on the return code, refer to the OS/2 WARP Control Program Programming Reference.

ASN1031E The SQL statement is empty. The error code is “<error_code>”.

Explanation: The SQL statement is an empty string.

User Response: Specify the SQL statement to be executed.

ASN1032S The Apply program log file could not be opened. The error code is “<error_code>”; the return code is “<return_code>”.

Explanation: The Apply program could not open the log file.

User Response: For more information on the return code, either refer to the OS/2 WARP Control Program Programming Reference or to the system library information for your particular platform.

ASN1033E The Apply program could not write to the Apply log file. The error code is “<error_code>”; the return code is “<return_code>”.

Explanation: The Apply program could not write to the log file.

User Response: For more information on the return code, either refer to the OS/2 WARP Control Program Programming Reference or to the system library information for your particular platform.

ASN1034E Stored procedures are not supported in DB2 for MVS/ESA V3. The error code is “<error_code>”.

Explanation: DB2, Version 3 does not support the stored procedure call.

User Response: Remove the stored procedure CALL statement from the statement table (ASN.IBMSNAP_SUBS_STMT).

ASN1035E The Apply program could not access the subscription columns table.

Parameters:

- error code is “<error_code>”
- SQLSTATE is “<sqlstate>”
- SQLCODE is “<sqlcode>”
- SQLERRM is “<sqlerrm>”
- SQLERRP is “<sqlerrp>”
- server name is “<server_name>”
- table name is “<table_name>”

Explanation: An error occurred during the execution of an SQL statement.

User Response: Refer to your database messages reference for SQL.

ASN1036E The column type “<col_type>” for expression “<expression>” is invalid. The error code is “<error_code>”.

Explanation: The value for the COL_TYPE column in the subscription columns table is invalid.

User Response: Change the value to A, B, C, F, or R.

ASN1037E The Apply program could not obtain the date and time. The error code is “<error_code>”; the return code is “<return_code>”.

Explanation: The OS/2 API DosGetDateTime failed.

User Response: For more information on the return code, refer to the OS/2 WARP Control Program Programming Reference.

ASN1038E **No column names or expressions were specified in the subscription columns table.**

Explanation: Column names or expressions for a copy statement must be specified.

User Response: Refer to the *Replication Guide and Reference* for more information about requirements for subscription definitions.

ASN1039S **The Apply program plan, “<plan_name>”, could not be opened.**

Parameters:

- **error code** is “<error_code>”
- **return code** is “<return_code>”
- **reason code** is “<reason_code>”

Explanation: The Apply program plan could not be opened.

User Response: Refer to the Apply for OS/390 Program Directory.

ASN1040S **The Apply program encountered an OS/390 error. The error code is “<error_code>”; the return code is “<return_code>”.**

Explanation: Execution of an OS/390 system operation failed.

User Response: Refer to your OS/390 system library information.

ASN1041I **The Apply program was started using subsystem name: “<subsystem>”.**

Explanation: This is not an error message, however, you should make sure that the displayed subsystem name is valid.

User Response: Verify that the subsystem name is valid.

ASN1042W **There are too many invocation parameters.**

Explanation: The number of parameters you specified when you invoked the Apply program exceeds the maximum allowed.

User Response: Refer to the Capture and Apply section for your platform for information on the appropriate number of invocation parameters.

ASN1043E **There is already one Apply instance running with this Apply program qualifier “<qualifier>”. The error code is “<error_code>”; the reason code is “<reason_code>”.**

Explanation: Verification attempt failed.

User Response: Make sure that only one instance of the Apply program is running under this user ID on this subsystem or database.

ASN1044I **The Apply program will become inactive for “<number>” minutes and “<number>” seconds.**

Explanation: This message is for your information only.

User Response: No action is required.

ASN1045I **The Apply program was started using database “<database>”.**

Explanation: This message is for your information only.

User Response: No action is required unless this is not the intended database.

ASN1046S **The Apply program libraries are not authorized for the Authorized Program Facility (APF).**

Explanation: The Apply program libraries must be APF authorized.

User Response: Authorize the Apply libraries.

ASN1048E The execution of a copy statement failed. See the Apply trail table for full details: “<text>”

Explanation: A copy statement could not execute. In the message, “<text>” identifies the “<copy_server>”, “<copy_owner, copy_table, stmt_number>”, and “<cntl_server>”.

User Response: Check the APPERRM fields in the audit trail table to determine why the copy statement failed.

ASN1049S The Apply program encountered a system error. The error code is “<error_code>”. The return code is “<return_code>”.

Explanation: Execution of a system operation failed.

User Response: Refer to the system library information for your particular platform.

ASN1050E The Apply program encountered an invalid operation while updating the target table. The error code is “<error_code>”. The invalid operation to be applied is “<operation>”.

Explanation: The operation field of a row fetched from the source table is not valid.

User Response: Contact your IBM Service Representative.

ASN1051E The Apply program detected a gap between the source “<source>” table and the target table. The error code is “<error_code>”.

Explanation: The Apply program has detected that the Capture program had lost change data before the Apply program could copy it. For example, the Capture program may have been cold started.

User Response: Check the control tables to determine why the gap is present. Take proper action to preserve data integrity before you reset

the control table information to execute the definition again.

ASN1052E The Apply program could not find the ASNLOAD program.

Explanation: The Apply program cannot find the ASNLOAD program in the current directory.

User Response: Make sure that ASNLOAD is in the directory from which you are invoking the Apply program.

ASN1053E The execution of the ASNLOAD program failed. The return code is “<return_code>”.

Explanation: The ASNLOAD program detected an error.

User Response: Refer to the messages files generated by the EXPORT and IMPORT utilities. Note that these files names are different for Apply for OS/2 and Apply for AIX.

ASN1054S The Apply program could not find the registration information for source owner “<src_ownr>”, source table “<src_tbl>”, and source view qualifier “<src_view_qual>”.

Explanation: The source table registration is incorrect or incomplete.

User Response: Drop the registration and redo it. Also make sure that the registration information is in both the register table and the pruning control table.

ASN1055S The Apply program could not find the prune control information for source owner “<src_ownr>”, source table “<src_tbl>”, source view qualifier “<src_view_qual>”, target owner “<tgt_ownr>”, and target table “<tgt_tbl>”.

Explanation: The source table registration is incorrect.

User Response: Drop the subscription and redo it.

ASN1056E **The Apply program could not connect to the server due to lack of user ID/password. The error code is “<error_code>”.**

Explanation: The Apply program could not find the password and user ID to connect to the server.

User Response: Make sure that the Apply program password exists. If you are using DB2 Universal Database Satellite Edition, make sure that the password and user ID are defined to the client systems.

ASN1057E **The Apply program could not read the password in the Apply password file. The error code is “<error_code>”.**

Explanation: The Apply program found no password.

User Response: If you want to use the AUTHENTICATION=SERVER scheme, you must provide a password as described in the Apply program section in the Capture and Apply chapter for your platform.

ASN1058E **The Apply program could not close the password file. The error code is “<error_code>”.**

Explanation: The Apply program could not close the password file.

User Response: Contact your IBM Service representative.

ASN1059E **The Apply program detected invalid syntax for line “<line>” in the password file. The error code is “<error_code>”.**

Explanation: The Apply program could not recognize a line in the password file.

User Response: Correct the syntax error in the password file. See the Apply program section in

the Capture and Apply chapter for your platform.

ASN1060E **The dynamic allocation for the temporary work file failed. The error code is “<error_code>”.**

Explanation: A system error was encountered during dynamic allocation.

User Response: Contact your IBM Service representative.

ASN1061E **An invalid keyword parameter was specified. The error code is “<error_code>”.**

Explanation: An invalid invocation parameter was specified and ignored by the Apply program.

User Response: Correct the invocation parameter. See the Apply program section in the Capture and Apply chapter for your platform.

ASN1063E **A subscription set cannot have more than 200 members. The error code is “<error_code>”.**

Explanation: The number of subscriptions has exceeded the maximum allowed number of 200.

User Response: Remove excess members from the subscription.

ASN1066S **An internal Apply program error occurred. The error code is “<error_code>”.**

Explanation: An internal Apply error occurred.

User Response: Contact your IBM Service representative.

ASN1067E **The Apply program has detected update conflicts and compensated rejected transactions. See the unit-of-work table for details. The error code is “<error_code>”.**

Explanation: More than one application updated the same row in a table from different

locations. Some transactions have been rejected and compensated.

User Response: See the ASN.IBMSNAP_UOW table for details.

ASN1068E The Apply program has deactivated the subscription due to a RI violation. The error code is “<error_code>”.

Explanation: A referential integrity violation was detected when copying data from the source table to a replica. The Apply program has terminated and the subscription has been deactivated.

User Response: Correct the referential integrity error and reactivate the subscription.

ASN1069E The Apply program has deactivated the subscription due to a RI violation. All the affected units-of-works have been marked in the unit-of-work table and compensated. The error code is “<error_code>”.

Explanation: A referential integrity violation was detected when replicating data from the replica to the user table. The Apply program has terminated and the subscription has been deactivated.

User Response: Correct the referential integrity error and reactivate the subscription.

ASN1070E The Apply program could not lock the target table.

Parameters:

- **ERRCODE** is “<error_code>”
- **SQLSTATE** is “<sqlstate>”
- **SQLCODE** is “<sqlcode>”
- **SQLERRM** is “<sqlerrm>”
- **SQLERRP** is “<sqlerrp>”
- **server name** is “<server_name>”
- **table name** is “<table_name>”

Explanation: The Apply program could not lock

the target tables before it was to check update conflicts.

User Response: Verify that all the target tables are available before rerunning Apply.

ASN1071E The Apply program has detected an error while reading the temporary work file. The error code is “<error_code>”.

Explanation: The Apply program has detected an error while reading the temporary work file.

User Response: Contact your IBM Service representative.

ASN1072E The Apply program could not find the ASNDONE program.

Explanation: The Apply program could not find the user exit program, ASNDONE.

User Response: Verify that the ASNDONE program is located in the correct directory.

ASN1073E The execution of the ASNDONE program failed. The return code is “<return_code>”.

Explanation: An error occurred while calling the user exit, ASNDONE.

User Response: Contact your IBM Service representative.

ASN1097I The Apply program stopped due to the above error.

Explanation: The error reported previously caused the Apply program to stop.

User Response: Fix the error reported before this message.

ASN1100I A user has stopped the Apply program.

Explanation: A user issued the STOP command to stop the Apply program.

User Response: No action is required.

ASN1109I **Not all of the Jet database changes are applied due to an RI violation.**

Explanation: There was at least one change in the row-replica target list table that violates the referential integrity (RI) of the source table.

User Response: Refer to the IBMSNAP_ERROR_INFO and IBMSNAP_ERROR_MESSAGE tables for more details.

ASN1110I **The Apply program created Jet database "<db_name>".**

Explanation: The target database <db_name> was created.

User Response: No action is required.

ASN1111I **The Apply program converted Jet Database "<db_name>" to a Design Master.**

Explanation: The database that you specified is now a Design Master from which all Microsoft Jet Replicas will be created.

User Response: No action is required.

ASN1115I **ODBC call was successful with sqlcode "<sqlcode>", sqlstate "<sqlstate>", and message "<message>".**

Explanation: The ODBC call was successful, but a message was issued. This message is for your information only.

User Response: No action is required.

ASN1116E **ODBC call failed. sqlcode "<sqlcode>", sqlstate "<sqlstate>", and message "<message>".**

Explanation: An error occurred during the execution of an ODBC operation against either the DB2 ODBC driver or the MS Jet ODBC driver.

User Response: Refer to the appropriate ODBC

reference for more information.

ASN1130E **Execution of DAO call failed. ERRCODE "<error_code>", DAO error number "<error_number>", and DAO error message "<error_message>".**

Explanation: An error occurred during a Microsoft Data Access Object (DAO) execution.

User Response: Refer to the Microsoft DAO reference for more information.

ASN1135E **File operation failed. File name is "<file_name>", error code is "<error_code>".**

Explanation: Open, close, read, or write operations failed.

User Response: Verify that the user has authority for the file operation. Also verify that there is enough space in the system.

ASN1200I **The asncopy program completed.**

Explanation: This message is for your information only.

User Response: No action is required.

ASN1201S **Place holder for generic message - internal error**

Explanation: The asncopy program encountered an SQL error.

Parameters:

- ERRCODE is "<error_code>"
- SQLSTATE is "<sqlstate>"
- SQLCODE is "<sqlcode>"
- SQLERRM is "<sqlerrm>"
- SQLERRP is "<sqlerrp>"
- server name is "<server_name>"
- table name is "<table_name>"

User Response: Refer to your database messages reference for SQL.

ASN1202E **The asncopy program encountered an SQL error. ERRCODE is “<error code>”, SQLSTATE is “<sqlstate>”, SQLCODE is “<sqlcode>”, SQLERRM is “<sqlerrm>”, SQLERRP is “<sqlerrp>”, table name is “<table name>”.**

Explanation: This message is for your information only.

User Response: No action is required.

ASN1203I **The asncopy program was stopped by the user.**

Explanation: This message is for your information only.

User Response: No action is required.

ASN1204E **The asncopy program encountered an incorrect keyword. The keyword is “<keyword>”.**

Explanation: A keyword was entered incorrectly.

User Response: Execute the command again, using the correct keyword.

ASN1205E **The asncopy program terminated due to a Capture program error.**

Explanation: An inconsistency in Capture program executions has caused the asncopy program to end.

User Response: Refer to the trace produced by the Capture program (ASN.IBMSNAP_TRACE) or the asncopy program error log to determine the cause of the error.

ASN1206E **The asncopy program terminated due to an Apply program error.**

Explanation: An inconsistency in Apply program executions has caused the asncopy program to end.

User Response: Refer to the apply trail table or

the asncopy program error log to determine the cause of the error.

ASN1207E **The subscription for “<subscription>” was not activated.**

Explanation: The selected subscription is inactive.

User Response: Either activate the subscription or select another one.

ASN1208E **The asncopy program could not find the subscription for set “<set>”.**

Explanation: The selected subscription does not exist.

User Response: Enter the correct subscription.

ASN1209E **The asncopy program could not find any eligible subscription.**

Explanation: Either no subscription name was specified or the names specified are invalid.

User Response: Check the subscription names and be sure to enter the correct ones.

ASN1210E **An Apply qualifier must be specified following the keyword -q.**

Explanation: You must specify an Apply qualifier following the keyword q.

User Response: Specify an Apply qualifier following the keyword q.

ASN1211E **Set names must be specified following the keyword “<keyword>”.**

Explanation: You must specify the set names following the keyword (O, U, D, or S).

User Response: Reinitiate the asncopy program, specifying the keyword and then the set names.

ASN1212E **A read-only set name “<set_name>” is found following the keyword “<keyword>”.**

Explanation: A read-only set name was specified following the keyword U or D.

User Response: Specify only replica for the keywords U and D.

ASN1214E **The set name “<set_name>” is specified more than once.**

Explanation: The same set name cannot be specified in more than one list.

User Response: Reinitiate the asncopy program, being sure to specify each set name only once among all lists.

ASN1221I **Set “<set_name>” has been successfully refreshed with “<number>”rows at “<time>”.**

Explanation: This message is for your information only.

User Response: No action is required.

ASN1222I **Set “<set_name>” has successfully inserted “<number>” rows, deleted “<number>” rows, updated “<number>” rows at “<time>”.**

Explanation: This message is for your information only.

User Response: No action is required.

ASN1223E **The Apply program could not copy for set “<set_name>”.**

Explanation: The Apply program encountered a problem while copying.

User Response: Refer to the apply trail table or the asncopy program error log to determine the cause of the error.

ASN1230S **The asncopy program encountered a system error. The error code is “<error_code>”and the return code is “<return_code>”.**

Explanation: The asncopy program encountered an error in the database.

User Response: Trace the error and call your IBM Service representative.

ASN1240E **A system error has been detected. The error code is “<error_code>”, return code is “<return_code>”.**

Explanation: The asncopy program encountered an error in the database.

User Response: Trace the error and call your IBM Service representative.

ASN1242E **A SQL error occurred. ERRCODE is “<error_code>”, SQLSTATE is “<sqlstate>”, SQLCODE is “<sqlcode>”, SQLERRM is “<sqlerrm>”, SQLERRP is “<sqlerrp>”, table name is “<table_name>”.**

Explanation: This message is for your information only.

User Response: No action is required.

ASN1243E **There is no eligible subscription in the ASN.IBMSNAP_SUBS_SET table.**

Explanation: Either a subscription has not been selected or the apply qualifier is invalid.

User Response: Verify the subscription names and apply qualifier.

ASN1244E **User has not selected any set.**

Explanation: A subscription set has not been selected from the ASNMobil dialog.

User Response: Select at least one set from ASNMobil dialog.

ASN1303E The ASNSAT program encountered an incorrect invocation keyword. The keyword is "<keyword>".

Explanation: An unknown keyword parameter was specified.

User Response: Specify the correct keyword parameter.

ASN1304E The ASNSAT program terminated due to a Capture error.

Explanation: The Capture program returned an error.

User Response: Determine the error from the Capture log file.

ASN1305E The ASNSAT program terminated due to an Apply error.

Explanation: The Apply program returned an error.

User Response: Determine the error from the Apply log file.

ASN1309E Cannot find default control database name from the directory.

Explanation: The user did not specify the control server name, and the Apply program could not find the default control server name from the directory.

User Response: Specify the control server name following the -n keyword.

ASN1310E The ASNSAT program encountered a system error while attempting to invoke the Capture program. Return code is "<return_code>".

Explanation: An operating system error occurred while calling asncpp.

User Response: Make sure that the Capture program is in the execution path.

ASN1311E The ASNSAT program encountered a system error while attempting to invoke the Apply program. Return code is "<return_code>".

Explanation: An operating system error occurred while calling asnapply.

User Response: Make sure that the Apply program is in the execution path.

ASN1312E The default target server, DB2DBDFT, is not set.

Explanation: The user did not specify the target server name, and the ASNSAT program could not determine the default database name from DB2DBDFT.

User Response: Specify the target server name following the -t keyword.

ASN1314E An SQL error occurred while ASNSAT was getting the default Apply qualifier. SQLSTATE is "<sqlstate>", SQLCODE is "<sqlcode>".

Explanation: The user did not specify the Apply qualifier. The ASNSAT program encountered an error while retrieving the USER special register.

User Response: Specify the Apply qualifier following the -q keyword.

ASN1315E Cannot connect to database server. SQLSTATE is "<sqlstate>", SQLCODE is "<sqlcode>".

Explanation: An error occurred while attempting to connect to the target database.

User Response: Refer to your database's message reference.

ASN1316E **ASNSAT encountered an error while trying to bind. The SQLSTATE is “<sqlstate>”, SQLCODE is “<sqlcode>”.**

Explanation: An error occurred while attempting to auto bind.

User Response: Make sure that the bind file exists in the sqllib\bnd directory.

ASN1317E **An SQL error occurred while ASNSAT was getting the CD_TABLE value from ASN.IBMSNAP_REGISTER table. SQLSTATE is “<sqlstate>”, SQLCODE is “<sqlcode>”.**

Explanation: An SQL error occurred while selecting from the register table.

Capture program for AS/400 messages

ASN200A **User table &1 registration not satisfied. The registration probably should be removed.**

Explanation: There are many reasons that data capturing for a replication source cannot continue. Depending on the severity, you can receive either an ASN2004 or an ASN200A message.

Because a journal job is usually responsible for capturing data from several replication sources, the journal job is not affected by these messages. These messages were generated due to a specific replication source. After sending the ASN2004 or ASN200A message, the Capture program continues processing other replication sources. The program ends only if the last remaining replication source it is processing results in an ASN2004 or ASN200A message.

User Response: Use the DSPMSGD command to determine the conditions that caused this message. For example:

DSPMSGD ASN200A QDPR/QDPRMSG

User Response: Refer to your database's message reference.

ASN1318E **An SQL error occurred while ASNSAT attempted to get the DB2 node type. SQLSTATE is “<sqlstate>”, SQLCODE is “<sqlcode>”.**

Explanation: An error occurred while retrieving the node type configuration parameter.

User Response: Refer to your database's message reference.

ASN2004 **User table &1 registration not satisfied.**

Explanation: see ASN200A

User Response: Check the job log of the job that sent the message. Correct the problem and try the request again.

ASN2017 **Starting point not found for journal &1 (C I G R).**

Explanation: One of the first tasks in the Capture control job is to establish the starting point with which to resume journal entry processing. The journal receiver containing entries corresponding to that starting point must be online. If that receiver is deleted prematurely, the control job sends message ASN2017 to ask you how you want to proceed.

Response **I** tells the control job to ignore the fact that a receiver is missing. Data capturing resumes using the current receiver chain. If you response **I**, you are responsible for the integrity of the replication.

Response **C** cancels the Capture control job.

Response **R** retries establishing the starting point.

User Response: In most cases, a response of **G** is appropriate. (Cold start all the replication sources using this journal.)

ASN2028 Internal error in Capture program.

Explanation: The Capture program detected an internal error and posted a reason code.

User Response: Record the reason code and contact your system administrator.

the cause of the problem. To aid in problem determination, use the DSPMSGD command to determine the conditions that caused this message to be displayed. For example:

DSPMSGD ASN2301 QDPR/QDPRMSG

Record the reason code and contact your system administrator.

ASN2039 Lag limit exceeded

Explanation: Exceeding the lag limit causes the Capture component to send an ASN2039 message to the job log and to the system operator message queue.

User Response: By gathering system performance data, you can better determine what action might be necessary. Some possible solutions are:

- To increase the lag limit.
- To prioritize (by using a lower numerical value) the Capture jobs to a level identical to or higher than that of the interactive jobs.
- To reschedule the workload to a time period when the demand on the system is less, or to move some of the workload to a different system.
- To add more resources to the system (a system upgrade).

ASN2201 Internal error in Capture program

Explanation: An error occurred in the Capture program.

User Response: Check the job log to determine the cause of the problem. Record the reason code and contact your system administrator.

ASN2301 Internal error in Capture program

Explanation: This message is sent by the journal job as an escape message before the journal job ends. A condition exists that makes it impossible to continue capturing data.

User Response: Check the job log to determine

Chapter 3. CCA Messages

This section contains the Client Configuration Assistant Interface (CCA) messages. The messages are listed in numeric sequence.

CCA2001W No files were found matching the file pattern specified.

Explanation: A request was made to read from files matching the specified file pattern. No files were found matching the pattern.

User Response: Correct the file pattern specified and retry the operation.

CCA2002W An error was encountered updating the TCP/IP services file.

Explanation: An attempt to add a service name and port number to the TCP/IP services file failed or Network Information Services is being used and only the local services file was updated. The port number was used to catalog the node instead of the service name.

User Response: If you wish to use the service name instead of the port number in the node directory entry, the node must be manually uncataloged and then recataloged using the service name. The services file must also be updated manually. If Network Information Services (NIS) is being used, the local services file may have been updated but the NIS server must be updated manually. In this case, the node was also cataloged using the port number.

CCA2003W The Discover request did not return data for one or more DB2 systems.

Explanation: The discover request did not return data for one or more of the requested DB2 systems. One of the following may have occurred:

- The Administration Server to which the discover request was sent has not been started.

- An error occurred attempting to perform the discover request.
- The DB2 system to which the discover request was sent is not configured for discovery.

User Response: Verify that the DB2 system to which the discover request was sent is enabled for discovery. If enabled for discovery, ensure that the Administration Server on the DB2 system is running.

CCA2004W The nname value specified is not unique.

Explanation: The nname value specified is already being used by another NetBIOS application on the network.

User Response: Select 'YES' to use the specified nname or 'NO' to cancel the request. If 'YES' is selected, any application using the existing nname will be affected.

CCA2005W The socket number specified is not unique.

Explanation: The socket number specified is being used by another DB2 instance on the workstation.

User Response: Select 'YES' to use the specified socket or 'NO' to cancel the request. If 'YES' is selected, any application using the existing socket number will be affected.

CCA2006W An entry already exists in the TCP/IP services file for the service name and port number specified.

Explanation: An entry already exists in the TCP/IP services file for the service name and

port number specified. Another application may be using the entry.

User Response: Select 'YES' to use the existing entry or 'NO' to cancel the request. If 'YES' is selected, any application using the existing entry will be affected.

CCA2007W The port number specified is being used with a different service name.

Explanation: The TCP/IP services file contains an entry that uses the port number specified but the associated service name does not match the service name specified.

User Response: Select 'YES' to use the specified service name and port number or 'NO' to cancel the request. If 'YES' is selected, a new entry will be added to the services file. Any applications using the entry with the existing port number may be affected.

CCA2008W The service name specified is being used with a different port number.

Explanation: The TCP/IP services file contains an entry that uses the service name specified but the associated port number does not match the port number specified.

User Response: Select 'YES' to use the specified service name and port number or 'NO' to cancel the request. If 'YES' is selected, the existing entry in the services file, using the service name, will be updated to use the port number specified. This may affect any applications using the existing entry.

CCA2009W The request was cancelled by the user.

Explanation: The request was cancelled by the user.

User Response: None.

CCA2010W An attempt to update the APPC stack failed.

Explanation: An attempt to add the Transaction Program name to the APPC stack failed.

User Response: The APPC stack must be manually updated. If the Transaction Program name is not added to the stack, remote connections to the server will not be possible.

CCA2011W An attempt to add the service name and port number to the TCP/IP services file failed.

Explanation: An attempt to add the service name and port number to the TCP/IP services file failed. The database manager configuration file has been updated with the service name specified.

User Response: The service name and port number must be manually added to the TCP/IP service file. If the entry is not added to the services file, remote connections to the server will not be possible.

CCA2012W The Discover request did not find any DB2 systems.

Explanation: A request to search the network for DB2 systems completed successfully but no DB2 systems were found. Following is a list of possible reasons why no DB2 systems were found:

- Search discovery was not enabled on any DB2 systems (that is, in the DBM configuration file of the administration server on the DB2 system, DISCOVER = SEARCH was not specified).
- The DB2 system was not set up with the appropriate discovery protocol for the client to find it (that is, DISCOVER_COMM on the administration server does not contain a protocol that matches one specified for DISCOVER_COMM on the client).
- The DB2 system is on the other side of a router or bridge, and the routers and bridges

on the network were configured such that the discovery packet was filtered out and not passed on.

User Response: Following is a list of possible actions to take in order for discovery to find DB2 systems:

- Set DISCOVER = SEARCH in the DBM configuration file of the administration server on all DB2 systems that you wish to be found.
- Set DISCOVER_COMM for the administration server to include the protocol that the client will use to issue a discover request (that is, set DISCOVER_COMM to include at least one of the protocols specified in DISCOVER_COMM on the client).
- Have the network administrator reconfigure the router or bridge to allow discovery packets (for the specified protocol) to be passed through.

CCA2013W Remote database cataloged using APPC but the stack was not configured.

Explanation: A request to catalog a database resulted in a node being cataloged that uses the APPC protocol. The node was cataloged using the symbolic destination name which was retrieved from the profile specified. The APPC stack was not configured because there was insufficient information in the profile to configure the stack or APPC was not detected on the DB2 system. It was not possible to use a different protocol because no other matching protocol was detected on the client.

User Response: If APPC is not installed on the client, uncatalog the database and recatalog the database manually using a protocol that is available on both the client and server. If APPC is installed, configure the stack if it has not already been configured.

CCA2014W The transaction program name specified is not unique or has already been configured.

Explanation: The transaction program name specified is already being used by another DB2

instance or a non DB2 application on this server.

User Response: Select 'YES' to use the specified transaction program name or 'NO' to cancel the request. If "YES" is selected, for all applications using the transaction program name concurrently, APPC will only be operational for the first one started. If any new APPC parameter values have been specified, the APPC stack will be updated with these values.

CCA2015W The service name and port number specified are being used in different entries in the services file.

Explanation: The TCP/IP services file contains entries that use the service name and port number specified but they are not being used in the same entry.

User Response: Select 'YES' to use the specified service name and port number or 'NO' to cancel the request. If 'YES' is selected, the existing entry in the services file, using the service name, will be updated to use the port number specified. This may affect any applications using the existing entries.

CCA3000C An internal error has occurred. Reason code "<reason code>".

Explanation: An unexpected internal error has occurred.

User Response: Turn trace on and retry the steps that caused the error. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:

- Problem description
- Message number
- Reason code
- Trace file

CCA3001N The specified service name and port number conflicts with existing values in the TCP/IP services file.

Explanation: The service name and port number entered by the user conflicts with existing values in the TCP/IP services file. The service name may already be used with a different port number, the port number may already be used with a different service name or both.

User Response: Specify a service name and port number that does not conflict with existing entries in the services file.

CCA3002N An I/O error occurred.

Explanation: An error was encountered attempting to open, read, change the file position or close a file.

User Response: If a file name was specified, verify that the file name is valid and that the user has permission to access the file. Also check for any disk and operating system errors.

CCA3003N The format of the file is not valid.

Explanation: An error was encountered reading from a file. The format of the file is not valid. Possible errors include:

- The file contains invalid data.
- The file does not contain expected data.
- The order of the data in the file is incorrect.

User Response: If a file name was specified, and the file has been modified by the user, regenerate the file and retry the operation. If the problem persists, and the file was not modified by the user, or the problem occurred during a Discover request, turn trace on and retry the steps that caused the error. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:

- Problem description
- Message number
- Trace file

- File which is causing the error if a file name was specified

CCA3004N An attempt to allocate memory failed.

Explanation: An error was detected attempting to allocate memory.

User Response: Terminate other applications running on the system that may be using large amounts of memory. If the problem persists, turn trace on and retry the operation. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:

- Problem description
- Message number
- Trace file

CCA3005N An error was encountered writing to a file.

Explanation: An error was detected while writing to a profile. The error could also be encountered when updating a host system password and errors are being recorded in the file db2pem.log.

User Response: Verify that the file system on which the file resides is not full and is not damaged. Also check for any operating system errors.

CCA3006N No matching communication protocol was detected.

Explanation: The database cannot be cataloged because none of the protocols available on the client match any of the protocols available at the server.

User Response: Ensure that the client and server has at least one matching communication protocol that can be detected on both the client and the server. If a matching protocol is installed on both the client and the server, the protocol could not be detected. In this case, catalog the database and node manually.

CCA3007N The database alias name specified is not valid.

Explanation: The length of the database alias specified is not a valid or the alias contains invalid characters.

User Response: Correct the alias name and resubmit the request.

CCA3009N The application requestor name specified is not valid.

Explanation: The length of the application requestor name specified is not valid or the name contains invalid characters.

User Response: Correct the application requestor and resubmit the request.

CCA3010N The length of the parameter value specified is not valid.

Explanation: The length of the parameter value specified for the application requestor is not valid.

User Response: Correct the parameter value and resubmit the request.

CCA3011N The target database name specified is not valid.

Explanation: The length of the target database name specified is not valid or the name contains invalid characters.

User Response: Correct the target database name and resubmit the request.

CCA3012N Add ODBC data source failed.

Explanation: A request to add an ODBC data source failed. The error could be caused by an out of memory error, a disk full condition or a disk failure.

User Response: Verify that the disk on which the ODBC.INI and DB2CLI.INI files reside is not full and that the disk is not damaged. In addition, if other applications are using large

amounts of memory, terminate the applications and retry the operation.

CCA3013N Remove ODBC data source failed.

Explanation: A request to remove an ODBC data source failed. The error could be caused by an out of memory condition or a disk failure.

User Response: If other applications are using large amounts of memory, terminate the applications and retry the operation. Also verify that the disk on which the ODBC.INI and DB2CLI.INI files reside is not damaged.

CCA3014N The bind request cannot be processed.

Explanation: The bind request cannot be processed because another bind operation is already in progress.

User Response: Complete or terminate the bind in progress and resubmit the bind request.

CCA3015N The adapter specified is not valid.

Explanation: The adapter specified was not detected on the DB2 system.

User Response: Specify an adapter that is available and resubmit the request.

CCA3016N The nname value specified is not unique.

Explanation: The nname value specified is already being used by another NetBIOS application on the network.

User Response: Specify a unique nname and retry the operation.

CCA3017N The path specified for the file is not valid.

Explanation: An attempt was made to open the specified file but the path specified is invalid or does not exist.

User Response: Ensure that the path specified is valid and the path for the file exists.

CCA3018N The user does not have sufficient authority to access the file.

Explanation: An attempt was made to access the requested file but the user does not have the required authority to access the file.

User Response: Ensure that the user has the required authority to access the file.

CCA3019N The file name specified is a directory.

Explanation: An attempt to access the file specified failed because the name specified is a directory and not a file.

User Response: Specify a valid file name and retry the operation.

CCA3020N An attempt to access the specified file failed because of a share violation.

Explanation: An attempt to access the file specified failed because of a share violation. Another process may have the file opened in exclusive mode.

User Response: The file is currently being accessed by another process in exclusive mode. Ensure that no other process is accessing the file and retry the operation or specify another file name.

CCA3021N An attempt to retrieve, add or remove variable "<variable name>" from the DB2 Profile Registry failed. Reason code "<reason code>".

Explanation: An attempt to retrieve, add or remove the indicated variable from the DB2 Profile Registry failed. The reason code indicates the cause of the problem. The possible reason codes are as follows:

- -3 Insufficient memory to process the request
- -4 Variable not found in the registry
- -7 DB2 Profile Registry is not found on this DB2 system

- -8 Profile not found for the given instance
- -9 Profile not found for the given node
- -10 UNIX registry file lock time-out

User Response: For reason code -3, terminate other applications using large amounts of memory and retry the operation. For reason code -4, ensure that the variable is set in the DB2 Profile Registry. For reason code -7, ensure that the DB2 Profile Registry has been created. For reason codes -8 and -9, ensure that the specified profile has been created. For reason code -10, ensure that the registry file is not locked by another process.

CCA3022C An attempt to retrieve the address of a function from library "<library name>" failed. Reason code "<reason code>".

Explanation: An attempt to retrieve the address of a function from the indicated library failed.

User Response: Verify that the correct version of the library is being used. If the incorrect version is being used, install the correct version. If the problem persists, turn trace on and retry the steps that caused the error. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:

- Problem description
- Message number
- Reason code
- Trace file

CCA3023C An attempt to load library "<library name>" failed. Reason code "<reason code>".

Explanation: An attempt to load the indicated library failed.

User Response: Verify that the path in which the library resides is included in the library path. Also ensure that there is enough memory available to load the library. If the problem persists, turn trace on and retry the steps that caused the error. If the problem reoccurs, save the trace information to a file and contact IBM

Support with the following information:

- Problem description
- Message number
- Reason code
- Trace file

CCA3024C An attempt to unload library "<library name>" failed. Reason code "<reason code>".

Explanation: An attempt to unload the indicated library failed.

User Response: Turn trace on and retry the steps that caused the internal error. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:

- Problem description
- Message number
- Reason code
- Trace file

CCA3025N One or more of the IPX/SPX parameters specified is not valid.

Explanation: One or more of the input parameters is not valid. Following is a list of possible errors:

- One or more of the fileserver, objectname and ipx_socket parameters is NULL.
- Only the fileserver parameter or objectname parameter is set to "*".
- The fileserver and/or objectname parameters are not set to "*" for Windows NT and Solaris.
- The objectname value specified is not unique.
- The ipx_socket value specified is not unique.
- The ipx_socket value specified is not in the valid range.
- The DB2 system failed to attach to the fileserver specified.

User Response: Verify the following:

- The fileserver, objectname and ipx_socket parameters are not NULL.

- If the value specified for fileserver is "*", the value for objectname must also be "*".
- On Windows NT and Solaris, both fileserver and objectname must be "*".
- The value specified for objectname, if not "*", is unique for all DB2 instances and IPX/SPX applications registered at the fileserver.
- The value specified for ipx_socket is unique across all DB2 instances on the DB2 system.
- The value specified for ipx_socket is within the valid range.
- The fileserver specified exists and that it is up and running.

Correct all errors and retry the operation.

CCA3026N No available NetBIOS adapters detected.

Explanation: A NetBIOS adapter was not detected on the DB2 system. The database cannot be cataloged.

User Response: Catalog the database and node manually if an adapter is available on the DB2 system.

CCA3027N The port number specified is out of range.

Explanation: The TCP/IP port number specified is out of range. The maximum value that can be specified for the port number is 65534.

User Response: Specify a port number that does not exceed the maximum value and retry the operation.

CCA3028N The DB2INSTANCE variable is not valid.

Explanation: The DB2INSTANCE environment variable is not set or is set to the Administration Server instance. The Client Configuration Assistant cannot run under the Administration Server Instance.

User Response: Set the DB2INSTANCE variable to an instance other than the Administration Server instance.

CCA3029N Updating of the ODBC data source settings failed.

Explanation: A request to update the settings of an ODBC data source failed. The error could be caused by an out of memory error, a disk full condition or a disk failure.

User Response: Verify that the disk on which the DB2CLI.INI file resides is not full and that the disk is not damaged. In addition, if other applications are using large amounts of memory, terminate the applications and retry the operation.

CCA3030N Values missing for configuring APPC.

Explanation: A request was made to catalog a database using APPC or to configure a server instance for APPC. The request could not be completed because one or more parameters were not specified.

User Response: Ensure that all required parameters have been specified and retry the operation.

CCA3031N The APPC stack has not been configured for the database selected.

Explanation: The database selected is using APPC for the database connection. However, the APPC stack has not been configured for the connection.

User Response: Configure the APPC stack for the database selected.

CCA5000N The user ID specified is not valid.

Explanation: The user ID specified does not exist.

User Response: Enter the correct user ID and resubmit the request.

CCA5001N The password specified is incorrect.

Explanation: The password specified for the user ID is incorrect.

User Response: Enter the correct password for the user ID and resubmit the request.

CCA5002N The password for the user ID has expired.

Explanation: The password for the user ID has expired and cannot be updated.

User Response: Contact your system administrator to have the password reset.

CCA5003N The new password specified is not valid.

Explanation: The new password specified is not valid.

User Response: Enter a valid password and resubmit the request.

CCA5004N An unexpected error occurred.

Explanation: An unexpected error occurred while attempting to update the password for the user ID specified. Additional information may have been written to the file db2pem.log in the instance directory.

User Response: Contact your system administrator for further assistance and provide the information from the file db2pem.log.

Chapter 4. CLI Messages

This section contains the Call Level Interface (CLI) messages. The messages are listed in numeric sequence.

CLI0001W Disconnect error.

Explanation: An error occurred during the disconnect. However, the disconnect succeeded.

User Response: Validate that the communication between the client and the server are still active.

CLI0002W Data truncated.

Explanation: An output buffer specified is not large enough to contain the data.

User Response: Increase the size of the output buffer.

CLI0003W Privilege not revoked.

Explanation: The statement was a REVOKE statement and the user did not have the specified privilege.

User Response: No action needed.

CLI0004W Invalid connection string attribute.

Explanation: An invalid or unsupported connection string attribute was specified in the connection string but the driver was able to connect to the data source anyway.

User Response: No action needed.

CLI0005W Option value changed.

Explanation: The driver did not support the specified option value and substituted a similar value.

User Response: No action needed.

CLI0006W SQLCancel treated like a close.

Explanation: The SQLCancel call was treated like a SQLFreeStmt call with the SQL_CLOSE option.

User Response: No action needed.

CLI0100E Wrong number of parameters.

Explanation: The number of parameters specified in SQLSetParam or SQLBindParameter was less than number of parameters in the SQL statement.

User Response: Respecify the SQL statement or provide more input parameters through SQLSetParam or SQLBindParameter.

CLI0101E The statement did not return a result set.

Explanation: The previous statement does not result in a result set.

User Response: Respecify the SQL statement.

CLI0102E Invalid conversion.

Explanation: The conversion between the application data type and SQL data type is not supported by the driver.

User Response: Respecify a data conversion which is supported by the driver.

CLI0103E Too many columns.

Explanation: The number of columns specified in SQLBindCol is greater than the number of columns in the current result set.

User Response: Respecify the SQL statement or

reset the bound column information in SQLBindCol.

CLI0104E Unable to connect to data source.

Explanation: The driver was unable to establish a connection with the data source.

User Response: Ensure the server is started and that the communications between the client and server are correct.

CLI0105E Connection in use.

Explanation: The specified connection handle is already being used and the connection is still opened.

User Response: Allocate a new connection using SQLAllocConnect and retry the connection or terminate the existing connection.

CLI0106E Connection is closed.

Explanation: The connection specified by the connection handle is no longer active.

User Response: Establish a new connection.

CLI0107E Connection failure during transaction.

Explanation: The connection failed during the execution of the function and it cannot be determined whether the COMMIT or ROLLBACK occurred before the failure.

User Response: Establish a new connection.

CLI0108E Communication link failure.

Explanation: The connection between the driver and the data source failed during execution of this function.

User Response: Establish a new connection.

CLI0109E String data right truncation.

Explanation: The data specified through SQLSetParam or SQLBindParameter is larger than the maximum size allowed for the

corresponding use of a parameter marker.

User Response: Respecify the parameter using SQLSetParam or SQLBindParameter.

CLI0110E Invalid output or indicator buffer specified.

Explanation: The returned data was NULL but the output or indicator buffer specified was a NULL buffer.

User Response: Respecify the output or indicator buffer supplying a non-NULL buffer and retry the operation.

CLI0111E Numeric value out of range.

Explanation: Returning the numeric data would have caused the whole part of the number to be truncated.

SQLPutData was called more than once for a parameter and the input data was not of type character or binary.

User Response: Respecify the output bindings either through SQLBindCol or SQLGetData to avoid creating a numeric data truncation.

Do not call SQLPutData for a parameter if the application data type specified for that parameter through SQLSetParam or SQLBindParameter is not SQL_C_CHAR or SQL_C_BINARY.

CLI0112E Error in assignment.

Explanation: The data sent for a parameter or column was incompatible with the data type of the associated table column.

User Response: Respecify the output binding through SQLBindCol or SQLGetData or the input binding through SQLSetParam or SQLBindParameter.

CLI0113E Invalid date format.

Explanation: The data sent for a date field was invalid.

User Response: Respecify the date data.

CLI0114E Datetime field overflow.

Explanation: The data sent for a date, time, or timestamp parameter, or column, was invalid.

User Response: Respecify the date, time, or timestamp data.

CLI0115E Invalid cursor state.

Explanation: The statement is not positioned on a row.

User Response: Position the statement on a row by calling SQLFetch or SQLExtendedFetch and retry the operation.

CLI0116E Invalid transaction state.

Explanation: There was a transaction in progress when SQLDisconnect was called.

User Response: Call SQLTransact before calling SQLDisconnect.

CLI0117E Invalid cursor name.

Explanation: An invalid or duplicate cursor name was specified in SQLSetCursorName.

User Response: Respecify a valid cursor name through SQLSetCursorName.

CLI0118E Invalid SQL syntax.

Explanation: An invalid or incorrect SQL statement was specified.

User Response: Respecify a valid SQL statement.

CLI0119E Unexpected system failure.

Explanation: An unexpected system failure occurred while processing the function.

User Response: Restart the application and try again.

CLI0120E Memory allocation failure.

Explanation: The driver was unable to allocate memory required to support execution or completion of the function.

User Response: Verify that your system has enough memory to complete the desired operation.

CLI0121E Invalid column number.

Explanation: The value specified in iCol is less than zero, greater than the number of columns in the result set, or greater than the maximum number of columns allowed in a result set.

User Response: Respecify a valid value for iCol.

CLI0122E Program type out of range.

Explanation: The value specified for fCType is not valid.

User Response: Respecify a valid value for fCType.

CLI0123E SQL data type out of range.

Explanation: The value specified for fSQLType is not valid.

User Response: Respecify a valid value for fSQLType.

CLI0124E Invalid argument value.

Explanation: The value specified for an argument was invalid. Possible reasons may be a null pointer, invalid length, invalid option, etc.

User Response: Re-examine the argument passed in to the function and determine which argument is invalid.

CLI0125E Function sequence error.

Explanation: This function was called in an invalid sequence.

User Response: Correct the sequence in your application and retry the operation.

CLI0126E Operation invalid at this time.

Explanation: The operation the system is trying to perform is invalid at this time.

User Response: Correct the sequence of operation and retry the operation.

CLI0127E Invalid transaction code.

Explanation: The transaction option specified in SQLTransact was not SQL_COMMIT or SQL_ROLLBACK.

User Response: Specify either SQL_COMMIT or SQL_ROLLBACK and retry the operation.

CLI0128E Unexpected memory handling error.

Explanation: Memory handling error.

User Response: An unexpected error occurred in the driver while handling some internal memory buffer. Restart your application.

CLI0129E No more handles.

Explanation: A call was made to SQLAllocEnv, SQLAllocConnect, or SQLAllocStmt but no more handles are available in the driver.

User Response: Call SQLFreeEnv, SQLFreeConnect, or SQLFreeStmt to free up some handles which are no longer being used in the application.

CLI0130E No cursor name available.

Explanation: There was no open cursor on the statement and no cursor had been set with SQLSetCursorName.

User Response: Specify a cursor name through SQLSetCursorName.

CLI0131E Invalid string or buffer length.

Explanation: The length of the buffer specified is invalid.

User Response: Specify a valid buffer length.

CLI0132E Descriptor type out of range.

Explanation: The description type specified is not valid.

User Response: Specify a valid descriptor type.

CLI0133E Option type out of range.

Explanation: The option type specified is not valid.

User Response: Specify a valid option type.

CLI0134E Invalid parameter number.

Explanation: The number specified for the parameter number is less than zero or greater than the maximum parameter supported by the data source.

User Response: Specify a valid parameter number.

CLI0135E Invalid scale value.

Explanation: The scale value specified is invalid.

User Response: Specify a valid scale value.

CLI0136E Function type out of range.

Explanation: The function type is invalid.

User Response: Specify a valid function type value.

CLI0137E Information type out of range.

Explanation: The information type is invalid.

User Response: Specify a valid information type value.

CLI0138E Column type out of range.

Explanation: The column type is invalid.

User Response: Specify a valid column type value.

CLI0139E Scope type out of range.

Explanation: The scope type is invalid.

User Response: Specify a valid scope type value.

CLI0140E Uniqueness option type out of range.

Explanation: The uniqueness option type is invalid.

User Response: Specify a valid uniqueness option type value.

CLI0141E Accuracy option type out of range.

Explanation: The accuracy option type is invalid.

User Response: Specify a valid accuracy option type value.

CLI0142E Direction option out of range.

Explanation: The direction option is invalid.

User Response: Specify a valid direction option value.

CLI0143E Invalid precision value.

Explanation: The precision value is invalid.

User Response: Specify a valid precision value.

CLI0144E Invalid parameter type.

Explanation: The parameter type is invalid.

User Response: Specify a valid parameter type value.

CLI0145E Fetch type out of range.

Explanation: The fetch type is invalid.

User Response: Specify a valid fetch type value.

CLI0146E Row value out of range.

Explanation: The row value is invalid.

User Response: Specify a valid row value.

CLI0147E Concurrency option out of range.

Explanation: The concurrency option is invalid.

User Response: Specify a valid concurrency option value.

CLI0148E Invalid cursor position.

Explanation: The cursor position is invalid.

User Response: Specify a valid cursor position value.

CLI0149E Invalid driver completion.

Explanation: The driver completion is invalid.

User Response: Specify a valid driver completion value.

CLI0150E Driver not capable.

Explanation: The operation is valid but not supported by either the driver or the data source.

User Response: Specify a valid operation.

CLI0151E No data pending.

Explanation: SQLParamData or SQLPutData was called but there is no data at execute pending on this statement.

User Response: Respecify the parameters through SQLSetParam or SQLBindParameter.

CLI0152E Not a string value.

Explanation: The function expected a string argument to be supplied.

User Response: Respecify the argument to the function.

CLI0153E Invalid file name length.

Explanation: The length specified for the file name is invalid.

User Response: Specify a valid file name length.

CLI0154E Invalid connection state.

Explanation: An attempt to change the connection type was made but the connection or another connection (in the case of Distributed Unit of Work) is already opened.

User Response: Do not attempt to change the connection type once the connection is opened.

CLI0155E File name length is too long.

Explanation: The length supplied for the file name is greater than supported.

User Response: Specify a valid file name length.

CLI0156E Error closing a file.

Explanation: An unexpected condition occurred while closing a file.

User Response: Retry the operation.

CLI0157E Error opening a file.

Explanation: An unexpected condition occurred while opening a file.

User Response: Retry the operation.

CLI0158E Error writing to a file.

Explanation: An unexpected condition occurred while writing to a file.

User Response: Retry the operation.

CLI0159E Error deleting a file.

Explanation: An unexpected condition occurred while deleting a file.

User Response: Retry the operation.

CLI0164E Nullable type out of range.

Explanation: An invalid nullable value was specified.

User Response: Respecify the nullable value.

CLI0165E Error in row.

Explanation: An error occurred while fetching one or more rows. (Function returns SQL_SUCCESS_WITH_INFO.)

User Response: Retry the operation.

CLI0166E PARMLIST syntax error.

Explanation: The PARMLIST value in the stored procedures catalog table contains a syntax error.

User Response: Respecify the row for this stored procedure.

CLI0167E Operation was cancelled.

Explanation: SQLCancel was called on the statement.

User Response: Resubmit the operation.

CLI0171E The database was unable to connect. Reason:

Explanation: The database connection failed. The 'Reason:' will explain why the database was unable to connect.

User Response: Fix the problem, and try the connect again.

CLI0172E The database was unable to connect. Would you like to continue with the configuration? Reason:

Explanation: The database connection failed. The 'Reason:' will explain why the database was unable to connect.

User Response: Fix the problem, and try the connect again or continue with the configuration.

CLI0175E No ODBC Driver Manager has been found. ODBCINST.INI file cannot be opened.

Explanation: Neither one of the Visigenic or the Intersolv ODBC Driver Managers have been installed. An ODBC Driver Manager must be present before the DB2 ODBC Driver can be registered into the associated ODBCINST.INI file.

User Response: Install an ODBC Driver Manager, and try running this command again.

CLI0176E Unable to write to the ODBCINST.INI file.

Explanation: An error has occurred while writing to an ODBCINST.INI file to be used with an ODBC Driver Manager. This may be due to invalid format of the original ODBCINST.INI file.

User Response: Rename the existing ODBCINST.INI file to something else and try running this command again. If this error persists, contact your technical support.

CLI0177E Cannot determine where the DB2 OS/2 Client is installed.

Explanation: An error has occurred while trying to locate where the DB2 OS/2 client is installed.

User Response: Check that the DB2 OS/2 Client has been correctly installed.

CLI0178I The DB2 ODBC Driver has been successfully registered.

Explanation: The DB2 ODBC Driver has been registered with the installed ODBC Driver Manager(s).

User Response: The user can now use the appropriate ODBC Administrator tool from the ODBC Driver Manager vendor to configure the ODBC data sources.

CLI0179E Unable to display dialog box.

Explanation: The DB2 ODBC Driver cannot open a dialog box with the window handle provided by the application.

User Response: The application must pass a valid window handle.

CLI0180E Invalid bookmark value.

Explanation: The argument fFetchOrientation was SQL_FETCH_BOOKMARK and the bookmark pointed to by the value SQL_ATTR_FETCH_BOOKMARK_PTR statement attribute was not valid.

User Response: Re-specify a valid bookmark value.

CLI0181E Invalid descriptor index.

Explanation: The value specified for the column number argument is invalid.

User Response: Re-specify a valid column number.

CLI0182W Fractional truncation.

Explanation: The data for one of the columns was truncated.

User Response: None needed.

CLI0183E Associated statement is not prepared.

Explanation: The descriptor handle was associated with an IRD, and the associated statement handle was not in a prepared state.

User Response: Prepare the statement associated with the descriptor.

CLI0184E Cannot modify an implementation row descriptor.

Explanation: The descriptor handle was associated with an IRD, and IRD record fields cannot be updated.

User Response: Specify a valid descriptor and field.

CLI0185E Invalid use of an automatically allocated descriptor handle.

Explanation: Only explicit descriptors allocated using the SQLAllocHandle function can be used in this manner.

User Response: Use an explicitly allocated descriptor.

CLI0186E Server declined cancel request.

Explanation: Communication errors caused the server to decline the cancel request.

User Response: None needed.

CLI0187E Non-character and non-binary data sent in pieces.

Explanation: SQLPutData was called more than once for a column that was not a character or binary column.

User Response: Only call SQLPutData once for non-character and non-binary data.

CLI0188E Attempt to concatenate a null value.

Explanation: A previous call to SQLPutData for this parameter specified an input buffer length of SQL_NULL_DATA

User Response: Call SQLPutData with a valid input buffer length or ensure SQLPutData is called the correct number of times.

CLI0189E Inconsistent descriptor information.

Explanation: The associated descriptor failed a consistency check.

User Response: Ensure that descriptor fields are valid, and all interdependent fields are set correctly.

CLI0190E Descriptor invalid on indirect reference.

Explanation: The descriptor handle was invalid, or the TYPE, OCTECT_LENGTH, DATA_PTR, INDICATOR_PTR, or OCTECT_LENGTH_PTR field of the ARD contained an invalid value.

User Response: Ensure the indirect descriptor handle is valid and that the deferred fields are set correctly.

CLI0191E Invalid attribute value.

Explanation: The value given was not correct for the specified attribute.

User Response: Use a correct value for the specified attribute.

CLI0600E Invalid connection handle or connection is closed.

Explanation: Connection had been closed prior to the operation.

User Response: Ensure connection close is not called prior to the operation.

CLI0601E Invalid statement handle or statement is closed.

Explanation: Statement had been closed prior to the operation.

User Response: Ensure statement close and statement connection close are not called prior to the operation.

CLI0602E Memory allocation error on server.

Explanation: Cannot allocate memory on server.

User Response: Ask your database administrator to check the DB2 JDBC log file for details. Rerun your program.

CLI0603E CallableStatement get* method was called without registerOutParameter.**

Explanation: Get*** method was called on a parameter that was not registered using registerOutParameter.

User Response: Add registerOutParameter call for the parameter.

CLI0604E CallableStatement get* method was called without calling execute.**

Explanation: The CallableStatement get*** method was called prior to calling CallableStatement execute.

User Response: Make sure that CallableStatement execute is called prior to any CallableStatement get*** method.

CLI0605E CallableStatement get* method did not match the type used in registerOutParameter.**

Explanation: The CallableStatement get*** method was not the one that corresponds to the type used in registerOutParameter for this parameter.

User Response: Change to the get*** method that matches to the type used in registerOutParameter for this parameter. (Refer to JDBC specification)

CLI0606E The returned value from a column is incompatible with the data type corresponding to the get* method.**

Explanation: The value in a CHAR/VARCHAR/LONGVARCHAR column is not a valid numeric value.

User Response: Use the appropriate get methods other than the ones that return numeric values.

CLI0607E Invalid datetime format.

Explanation: The value in CHAR/VARCHAR/LONGVARCHAR column is invalid date/time/ timestamp value.

User Response: Use appropriate get*** method other than getDate/getTime/ getTimestamp.

CLI0608E Invalid conversion.

Explanation: The get*** method is invalid on this column type.

User Response: Use the valid get*** method (see JDBC specification) to retrieve data from this column.

CLI0609E Numeric value out of range.

Explanation: The value of this column is too large/small for a short or int value, conversion will cause data loss.

User Response: Use the get method that can accommodate the value.

CLI0610E Invalid column number.

Explanation: The column number is less than 1 or greater than the total number of columns in the ResultSet.

User Response: Make sure the column number is no less than 1 and no greater than the total number of columns.

CLI0611E Invalid column name.

Explanation: The given column name cannot be found in the ResultSet.

User Response: Ensure the column name is correct.

CLI0612E Invalid parameter number.

Explanation: The given parameter number is less than 1 or greater than the total number of parameters.

User Response: Ensure the parameter number

is no less than 1 and no greater than the total number of parameters.

CLI0613E Program type out of range.

Explanation: The object given in the PreparedStatement/CallableStatement setObject is not a valid object type.

User Response: Make sure the object to be set is one of the object types allowed in setObject (see JDBC specification).

CLI0614E Error sending to the socket, server is not responding.

Explanation: Error happened while sending data to server, server may be down.

User Response: Ensure the server is up, and rerun your program.

CLI0615E Error receiving from socket, server is not responding.

Explanation: Error happened while receiving from server, server may be down.

User Response: Ensure JDBC server is up, and rerun your program.

CLI0616E Error opening socket.

Explanation: Cannot open the socket to server, server may be down.

User Response: Ensure JDBC server is up, and rerun your program.

CLI0617E Error closing socket.

Explanation: Cannot close the socket to server. Server may be down.

User Response: Ensure JDBC server is up, and rerun your program.

CLI0618E Userid and/or password invalid.

Explanation: The given userid/password is not valid.

User Response: Make sure the userid/password is correct, and rerun your program.

CLI0619E Invalid UTF8 data format.

Explanation: When getUnicodeStream is called on columns that are not DBCS columns, the decoding from UTF8 format is done, but the data cannot be decoded properly.

User Response: Use getString/getBytes/getAsciiStream/getBinaryStream instead.

CLI0620E IOException, error reading from input stream.

Explanation: Error happened when reading data to be put from input stream.

User Response: Make sure the file exists, and file length is correctly given.

CLI0621E Unsupported JDBC Server configuration.

Explanation: The target JDBC Server configuration is not supported. If you are running the Control Center, the target JDBC Server must be a standalone db2jd process (started via db2jstrt) and not a 2-tier native JDBC Server.

User Response: Reconfigure the JDBC Server using db2jstrt on the port targeted by the Control Center.

CLI0622E Error accessing JDBC administration service extensions.

Explanation: The Control Center depends upon administration support services that run with the JDBC server. The Control Center was not able to locate or access these administration services.

User Response: Ensure that the Control Center's administration services are installed with the JDBC server.

CLI0623E Code page conversion tables do not exist.

Explanation: Cannot find the codepage conversion tables.

User Response: Ensure the conversion tables (from the local codepage to Unicode and from Unicode to the local codepage) are installed.

CLI0624E Code page conversion tables are not loaded.

Explanation: Cannot load the codepage conversion tables.

User Response: Ensure your JDBC application has access to the code page tables and the tables are not corrupted.

CLI0625E You specified JDBC 1.22 behavior; cannot use JDBC 2.0 functions.

Explanation: The function you are trying to call is a new function defined in JDBC 2.0, but you specified you want JDBC 1.22 behavior.

User Response: Do not set the JDBCVERSION keyword to "122" if you want to use JDBC 2.0 functions. It should remain unset or be set to "200".

CLI0626E "<function-name>" is not supported in this version of DB2 JDBC 2.0 driver.

Explanation: This feature is not supported by this version of the DB2 UDB JDBC 2.0 driver.

User Response: Do not use this feature.

CLI0627E This result set is not scrollable.

Explanation: This result set is not scrollable.

User Response: Ensure you set the statement/result set attribute to SCROLLABLE.

CLI0628E No. "<parameter-number>" parameter marker in parameter set no. "<set-number>" was not set.

Explanation: Set*** has not been called for this input parameter.

User Response: Call the set*** method.

CLI0629E "<function-name>" is not supported for this column.

Explanation: This operation cannot be called for this column.

User Response: Change to other method.

CLI0630E Unknown result set type/concurrency "<number>".

Explanation: An invalid value for result set type or concurrency has been specified.

User Response: Change the value to the proper value given in the specification.

CLI0631E No random access for mixed char/clob column.

Explanation: Random access is not supported for this mixed char column.

User Response: Retrieve the data sequentially.

CLI0632E Invalid Fetch Size; must be between 0 and maxRows, inclusively.

Explanation: The fetch size specified must be greater than or equal to 0, and less than or equal to maxRows.

User Response: Modify the value.

CLI0633E Cannot call relative() when there is no current row.

Explanation: The relative method was called when the cursor is not at a valid row.

User Response: First move the cursor to a valid row (using absolute, next, etc), then call relative.

CLI0634E **Error allocating CLI environment handle.**

Explanation: SQLAllocEnv failed during initialization.

User Response: Ensure the DB2INSTANCE environment variable is set properly.

Chapter 5. DBA Messages

Each message has a message identifier that consists of a prefix (DBA) and the message number. Messages are listed in numeric sequence based upon the message number. These messages are generated by the Control Centre and the DBA Utility to alert you when a warning or error condition occurs.

DBA0000I The function completed successfully.

Explanation: This message is for your information only.

User Response: No action is required.

DBA0001E An internal error occurred when allocating memory.

Explanation: An internal error occurred when allocating memory. The application is terminated.

User Response: Try closing some applications to release memory. If the problem persists, contact IBM Service.

DBA0002E An internal error occurred. Unexpected input was received from the request.

Explanation: An unexpected input value was received from the request. The application is terminated.

User Response: Contact IBM Service.

DBA0003E An inconsistency in the table definition was detected when processing the alter request.

Explanation: When processing an alter table request, an inconsistency was detected between the last known table definition and the table definition fetched from the database. The table definition might have changed outside of the context of the administration tool. The table cannot be altered. The request is terminated.

User Response: Select the "Refresh" action on

the "Tables" pop-up menu to get an updated list of tables from the database. Try altering the table again.

DBA0004E An internal error occurred when validating a connection to a database.

Explanation: An invalid connection was detected. A problem can occur if the server is brought down, the currently held connections are no longer valid, and a new connection cannot be obtained. The request is terminated.

User Response: Ensure that the server is started. Select the "Connect" action in the pop-up menu of the database that you want to connect to. Try the action again.

If the action fails again, ensure that your network is operating for the target system and that the database is up and running on that system.

If the network is operational, a system internal error might have occurred. Contact IBM Service.

DBA0005E An internal error occurred when validating an attach to an instance.

Explanation: An invalid connection was detected. The database might have stopped or the connection might no longer exist. The request is terminated.

User Response: Ensure that the server is started. Select the "Connect" action in the pop-up menu of the database that you want to connect to. Try the action again.

If the action fails again, ensure that your network is operating for the target system and that the

database is up and running on that system.

If the network is operational, a system internal error might have occurred. Contact IBM Service.

DBA0006E **An internal error occurred when validating a handle for a persistent database connection or instance attach.**

Explanation: An invalid connection was detected. The database might have stopped or the connection might no longer exist. The request is terminated.

User Response: Ensure that the server is started. Select the "Connect" action in the pop-up menu of the database that you want to connect to. Try the action again.

If the action fails again, ensure your network is operating for the target system and that the database is up and running on that system.

If the network is operational, a system internal error might have occurred. Contact IBM Service.

DBA0007E **An internal error occurred when setting the context type for connections.**

Explanation: An error occurred when setting the context type for connections established by the application. The application is terminated.

User Response: Contact IBM Service.

DBA0008E **An internal error occurred. An unexpected list type was requested.**

Explanation: The type of object to be listed was not recognized as a valid type by the application. The application is terminated.

User Response: Contact IBM Service.

DBA0009E **An internal error occurred. An unexpected request type was received.**

Explanation: The type of request to be performed was not recognized as a valid type by

the application. The application is terminated.

User Response: Contact IBM Service.

DBA0010E **An internal error occurred. An unexpected object type was detected.**

Explanation: The type of object to be processed was not recognized as a valid type by the application. The application is terminated.

User Response: Contact IBM Service.

DBA0011E **There are too many open connections.**

Explanation: The maximum number of open database connections was reached. The request is terminated.

User Response: Either:

- Disconnect from other databases and connect to the database you want. Select the "Disconnect" action in the pop-up menu of the databases from which you want to disconnect. Select the "Connect" action in the pop-up menu of the database to which you want to connect.
- Update the configuration parameter to increase the number of connections allowed.

DBA0012E **Unable to allocate a connection handle.**

Explanation: An error occurred when attempting to allocate a connection handle. The application is terminated.

User Response: Contact IBM Service.

DBA0013W **The maximum number of objects that can be listed was reached.**

Explanation: The maximum number of objects that can be listed by the application was reached. The maximum number is 20,000.

User Response: None

DBA0014E **An internal error occurred. An unexpected drop type was requested.**

Explanation: The type of object to be dropped was not recognized as a valid type by the application. The application is terminated.

User Response: Contact IBM Service.

DBA0015E **An internal error occurred. A latch request failed.**

Explanation: A latch request failed. The application is terminated.

User Response: Contact IBM Service.

DBA0016E **An internal error occurred. An unlatch request failed.**

Explanation: An unlatch request failed. The application is terminated.

User Response: Contact IBM Service.

DBA0017E **No error information is available. See the administration tools log.**

Explanation: No error information can be displayed.

User Response: See the administration tools log for error information.

DBA0018E **The Administration Server is not started. Start the Administration Server and try the action again.**

Explanation: The Administration Server is not started.

User Response: Start the Administration Server using the DB2ADMIN START command on the target system and try the action again.

DBA0019E **The object “<object_name>” or a related object is in use. Try the action again at a later time.**

Explanation: The object on which the action was requested or a related object is already being

used in another action. Modifications to the object or a related object might be in progress.

The requested action cannot be performed at the same time as the current action.

Examples:

- If a table is being altered, a request to rename the same table will not be allowed until the interaction with the Alter window is complete. However, a request to sample the contents of that table is allowed.
- A request to drop an object (such as a table) will not be allowed if any other actions are pending on related objects (such as the database, views, or triggers).

The action is not performed.

User Response: Try the action again at a later time when the object is available.

DBA0020E **An error occurred opening the administration tools trace file.**

Explanation: An error occurred opening the administration tools trace file.

User Response: Contact IBM Service.

DBA0021E **An error occurred writing to the administration tools trace file.**

Explanation: An error occurred writing to the administration tools trace file.

User Response: Contact IBM Service.

DBA0022W **An error occurred closing the administration tools trace file.**

Explanation: An error occurred when attempting to close the administration tools trace file. Processing continues.

User Response: Ensure that the administration tools log file was specified correctly.

DBA0023W An error occurred opening the administration tools log file.

Explanation: An error occurred when attempting to open the administration tools log file. Processing continues.

User Response: Ensure that the administration tools log file was specified correctly.

DBA0024W An error occurred writing to the administration tools log file.

Explanation: An error occurred when attempting to write to the administration tools log file. Processing continues.

User Response: Ensure that the administration tools log file was specified correctly and can be written to.

DBA0025W An error occurred closing the administration tools log file.

Explanation: An error occurred when attempting to close the administration tools log file. Processing continues.

User Response: Ensure that the administration tools log file was specified correctly.

DBA0026E An internal administration tools error occurred.

Explanation: An unrecoverable error occurred.

User Response: Contact IBM Service.

DBA0027E An internal error occurred. Lock contention in the administration tools was detected.

Explanation: Lock contention in the administration tools was detected.

User Response: Contact IBM Service.

DBA0028I The current administration tools session will be terminated due to an unrecoverable error.

Explanation: A severe internal error occurred.

User Response: Contact IBM Service.

DBA0029 The application programming interface "<program>" did not complete successfully for object "<name>" with reason code "<name>". Try again or contact your local support.

Explanation: An application programming interface call did not complete.

User Response: Try the operation again or contact your system administrator.

DBA0030 An error occurred while attempting to connect to database "<name>".

Explanation: The requested operation could not complete because it requires a connection to database "<name>". The connection was not successful.

User Response: Make sure the database is accessible. Try explicitly connecting to the database using the connect action on the database pop-up menu. A common error on connection is an invalid userid and password. Make sure you have supplied the proper userid and password. Try the operation again or contact your system administrator.

DBA0031 An error occurred while attempting to attach to instance "<name>".

Explanation: The requested operation could not complete because it requires an attachment to the instance "<name>". The attachment was not successful.

User Response: Make sure the instance is accessible. Try explicitly connecting to the instance using the connect action on the instance pop-up menu. A common error on connection is

an invalid userid and password. Make sure you have supplied the proper userid and password. Try the operation again or contact your system administrator.

DBA0032 An error occurred while attempting to load DLL “<name>”.

Explanation: Either the dynamic link library “<name>” was not found or an error occurred while reading the file.

User Response: Verify that the DLL is installed and undamaged, and its location is part of the LIBPATH parameter in the CONFIG.SYS file.

DBA0033 “<name>” cannot be dropped because it is currently in use by the administration tools. Close some windows and retry the command.

Explanation: Either the object “<name>” you selected to drop, or an item that is owned by the object you selected to drop, is still being used by another administration tool. For example, you might have an ALTER table window open for a database that you are trying to drop. In this case, you cannot drop the database until you close its ALTER table window.

User Response: Close all the windows using the object you selected, or close all the windows using items owned by that object, and then retry the command.

DBA0034 “<name>” cannot be removed because it is currently in use by the administration tools. Close some windows and retry the command.

Explanation: Either the object “<name>” you selected to remove, or an item that is owned by the object you selected to remove, is still being used by another administration tool. For example, you might have an ALTER table window open for a database that you are trying to remove. In this case, you cannot remove the database until you close its ALTER table window.

User Response: Close all the windows using the object you selected, or close all the windows using items owned by that object, and then retry the command.

DBA0035 The “<operation>” operation cannot be performed because the object “<name>” you are issuing the operation against is not in the correct state for this operation. Close some windows and retry the command.

Explanation: This operation “<operation>” requires “<name>” to be in a “<name>” state.

User Response: Make sure all other pending operations on the selected object are complete, and then retry the command.

DBA0036 The database configuration was successfully updated. All applications must disconnect from database “<name>” before the changes take effect. If a backup has already been taken it is recommended to take another backup of the database in order to pick up the new configuration values.

Explanation: The database configuration was successfully updated, but the active database configuration cannot be changed until all applications are disconnected from the database. Once all applications are disconnected, the changes will come into effect with the first connection to the database.

User Response: Ensure that all applications are disconnected from the database, and then reconnect to the database.

DBA0037 The instance configuration was successfully updated. The instance “<name>” must be stopped before most changes take effect.

Explanation: The instance configuration was successfully updated.

Changes to the configuration parameter "dftdbpath" take effect immediately.

For the remaining configuration parameters, the changes do not take effect until all applications have disconnected from the database, and the instance is successfully stopped and started again.

User Response: To make all changes take effect, ensure that all applications have disconnected from the database, stop the instance, and then start it again.

You can stop the instance by selecting the stop action on the instance pop-up menu in the Control Center. You can then start the instance by selecting the start action on the instance pop-up menu in the Control Center.

DBA0039 There are currently database objects locked or database connections in use. Continue shutdown?

Explanation: The database objects in the Control Center are locked when actions, such as Alter Table, are taken against them. Other actions will maintain connections to the database that are required to complete the task.

User Response: If you choose to continue with the shutdown, then all locks and connections are forced and the tools will shut down. It can be dangerous to do so, however, because forcing some actions (like Restore Database) halfway through the task can leave the database in a corrupted state.

It is safest to first go back to the DB2 tools and make sure there are no database operations outstanding.

DBA0040 Shutting down will stop the Snapshot monitor. Continue shutdown?

Explanation: Snapshot monitoring has been started on one or more database objects and to continue the monitoring, you must have the DB2 tools running.

User Response: Choose to continue the

shutdown only if you no longer require the Snapshot monitor.

DBA0041 The requested operation could not be performed because the DB2 Administration Tools is an untrusted applet.

Explanation: Applets loaded over the network are usually considered to be untrusted. Different Web browsers and applet viewers may impose different restrictions on untrusted applets including most local system operations (For example, read files, write files, and print files).

User Response: Consult your system administrator and see if these restrictions can be relaxed or customized.

DBA0042 Do you want to clear the setting for the userid and password that was used to connect to this database.

Explanation: If you choose to clear this setting, you will prevent unauthorized access to this database from this workstation. However, you will be prompted to enter the correct userid and password the next time you connect to this database.

User Response: Click on Yes to clear the userid and password setting. Click on No to save the userid and password setting until you exit the Control Center.

DBA0100I Control Center is updating node directory information for instance - "<instance>". Incorrect information is being corrected. The current request cannot be performed.

Explanation: The Control Center detected that the nodetype changed at the instance and is recataloging the instance based on the new information. Depending on the nodetype value for the instance, actions from the Control Center may be different.

User Response: If available, try the request again.

DBA0101W Entries specified in the exception list will not be used. Do you want to continue?

Explanation: The Nodes Contain Exceptions check box is deselected, but exception containers are specified in the List Exception dialog.

User Response: Click on Yes to clear the exception containers list, or click on No or Cancel to reselect the Nodes Contain Exceptions check box.

DBA0102W Unable to detect nodetype for instance - "<instance>". Reason Code "<reason-code>".

Explanation: Nodetype is a database manager configuration parameter that identifies whether the instance is a single-partition or partitioned environment.

Discovery tries to resolve the nodetype value for you. This distinction between instances is required because actions in the Control Center can be different between single-partition and partitioned environments.

If the reason code is -1, discovery could not map the catalogued instance to a valid DB2 instance.

All other reason codes map to a valid SQL message. Check the help for the corresponding SQL message.

User Response: Discovery has the following requirements:

1. DB2 Administration Server must be set up and running at the remote instance you want to catalog or access.
2. Ensure the instance is listed in the registry. Issue db2set -l from the host you are cataloging.
3. The following global DB2 Registry values must be set:
 - DB2SYSTEM
 - DB2ADMINSERVER

4. The following instance DB2 Registry values must be set:

- DB2COMM

5. The following administration server configuration parameters must be set:

- DISCOVER = KNOWN and
DISCOVER_COMM = null

or

- DISCOVER = SEARCH and
DISCOVER_COMM = protocol (for example, TCPIP)

Verify the setting of these registry values by entering db2set -all.

DBA0103W Changes made to the configuration parameter values will not be used. Do you want to continue?

Explanation: Another database partition was selected, but the changes to the configuration parameters apply to the previously selected database partition.

User Response: Click on Yes to obtain the configuration parameter values for the next database partition and discard the changes that were specified for the previously selected database partition.

DBA0113E Exception containers are specified, but not all nodes in the nodegroup are included. No containers are specified for the following nodes: "node-list".

Explanation: The specified exception containers have no common container. Because no common container is specified, the exception container must be defined at every node in the nodegroup.

User Response: Click on OK to add containers to the specified nodes.

DBA0114W Control Centre detected incorrect node directory information for instance - "<instance>". Incorrect information is being corrected. Please exit and restart the Control Center. The current request cannot be performed.

Explanation: The Control Center detected that the nodetype changed at the instance.

User Response: Exit the Control Center and restart it.

DBA0115I Node directory information has been corrected for this instance. Instance "<instance>" should be refreshed.

Explanation: Because the cataloged information for the instance is updated, the displayed objects and actions may not be correct.

User Response: Select the "Refresh" action from the instance pop-up menu to update the Control Center, then try the request again.

DBA0116I The operation cannot be performed by the JDBC server at this time. Retry this operation later.

Explanation: The JDBC server is currently busy with an existing operation and cannot perform the user operation.

User Response: Wait until the JDBC server completes the existing operation and retry the operation.

DBA1005W This action will force both Local Databases and Gateway applications. Do you want to continue?

Explanation: You requested to force all applications on the instance.

User Response: Click Yes to process the request or No to cancel it.

DBA1006E An invalid plugin extension has been detected by the Control Center.

Explanation: The file "db2plug.zip" has been corrupted or not properly setup.

User Response: If the Control Center is running as an application, check to see if "db2plug.zip" is included in the "CLASSPATH" environment variable. If the Control Center is running as an applet, check to see if "db2plug.zip" is included in the "archive" tag of the db2cc.htm HTML file. If the problem persists, contact your DB2 system administrator.

DBA1100 Less than "<number>." MB of memory is dedicated to your server. No recommendation has been made. The current values on the Results Page match the suggested values.

Explanation: Because the amount of memory dedicated to the server is so small, the Performance Configuration SmartGuide cannot make a recommendation.

The suggested values in the "Results Page" are the same as the current values.

User Response: If you can dedicate more memory to the server, turn to the "Server Page", increase the amount of memory, and try again. Otherwise, click on Cancel to close the Performance Configuration SmartGuide.

DBA1102 An error occurred when the Performance Configuration SmartGuide tried to save the suggested values in a system file.

Explanation: Either the Performance Configuration SmartGuide could not create a CFG subdirectory under your instance directory or it could not save a system file containing recommendations into the CFG subdirectory of your instance directory.

User Response: Make sure the disk containing the instance directory is not full and you have

write access to this disk. Afterwards, click on Done to try again.

DBA1104 **The instance and database configuration parameters were successfully updated. The instance "<name>" must be stopped before most changes come into effect. You may want to rebind your packages after the new configuration parameters take effect so that the new values will be used during the bind.**

Explanation: The Performance Configuration SmartGuide has updated the database manager configuration parameters, database configuration parameters, and buffer pool sizes in the SYSBUFFERPOOLS catalog.

The changes will not take effect until the instance is stopped on the server.

Packages were bound with the old configuration parameters. They need to be rebound, after the new parameters take effect, to exploit these new parameters.

User Response: When you are ready to use the new configuration parameters, stop the instance, and then start the instance.

Rebind your packages if necessary.

DBA1107 **An error occurred when the Performance Configuration SmartGuide tried to get system information from your server.**

Explanation: An unexpected error occurred. The Performance Configuration SmartGuide cannot continue.

User Response: Contact your system administrator.

DBA1108 **The Performance Configuration SmartGuide was unable to increase the sizes of the buffer pools due to other memory requirements determined from your responses. The buffer pool sizes are left unchanged. The use of the suggested set of configuration values may cause paging on the server.**

Explanation: This is a warning that there may not be enough memory dedicated to your server to run the workload that you specified.

User Response: Review your selections on previous pages of the Performance Configuration SmartGuide to check that the workload description is appropriate or add more memory to your server.

DBA1109 **The transactions rate you entered is more than ten times the average number of connected applications. If you are using a transaction manager, ignore this message. If not, consider changing the rate.**

Explanation: The Performance Configuration SmartGuide verifies that the transactions rate is reasonable. The transaction rate may be too high if you are not using a transaction manager.

User Response: If you are using a transaction manager, ignore this message. Otherwise, use a lower number of transactions per minute, or increase the average number of connected applications.

DBA1110 **The system database directory has no entries.**

Explanation: There are currently no entries found in this database directory.

User Response: No action is required.

DBA1111 The database alias “<name>” already exists for another database.

Explanation: You requested that a backup be recovered into a new database, but the database name you specified is already used as an alias for an existing database.

When a database is created, the database is cataloged in the system database directory using the database name as the alias, and this alias must be unique.

User Response: Specify a database name that is not being used as an alias, or request that the backup be recovered into the existing database.

DBA1112 The database alias “<name>” was not found in the system database directory.

Explanation: You requested that a backup be recovered into an existing database, but a database no longer exists with this alias.

User Response: Select an existing database, or request that the backup be recovered into a new database.

DBA1113 Restart failed because indoubt transactions exist against the database and the connection to the database was dropped.

Explanation: The restart operation encountered indoubt transactions. This left the database in an inconsistent state. The DBA Utility dropped the connection to the database.

User Response: Resolve the indoubt transactions. If they are not resolved, applications must restart the database whenever it is required.

If you are in an XA/DTP environment, and the transaction manager that was using the database is available, instruct it to resolve the indoubt transactions.

Otherwise, use the Command Line Processor to manually complete each indoubt transaction.

DBA1114 Database “<name>” is now in backup pending state.

Explanation: This state will prevent the database from being updated. The database must be backed up before any updates can happen.

User Response: Back up the database.

DBA1115 Enter a value for “<name>”.

Explanation: A value is required.

User Response: Provide the value and retry the request.

DBA1116 The value for “<parameter>” must be between “<minimum>” and “<maximum>”.

Explanation: The value must be within the specified range.

User Response: Enter a value in the specified range and retry the request.

DBA1117 The value for “<name>” is not valid.

Explanation: The value entered is not valid.

User Response: Correct the value and retry the request.

DBA1118 The value for “<name>” must not exceed “<maximum>”.

Explanation: The value entered is not valid.

User Response: Correct the value and retry the request.

DBA1119 The value for “<name>” must not be smaller than “<minimum>”.

Explanation: The value entered is not valid.

User Response: Correct the value and retry the request.

DBA1121 **A job was created for the request “<description>” on system “<system>”. Its job number is “<number>”. To view the status and output of the job, use the Jobs page on the Journal.**

Explanation: The job was successfully started.

User Response: To view the status and output of the job, use the Jobs page on the Journal.

DBA1122 **The job has completed for the request “<description>” on system “<system>”. For the status and output of the job, view job “<number>” in the Jobs page on the Journal.**

Explanation: The job has completed.

User Response: To view the status and output of the job, use the Jobs page on the Journal.

DBA1123 **The job “<description>” has been canceled.**

Explanation: The job was canceled in response to a user request.

User Response: No action is required.

DBA1126 **The database has no table spaces.**

Explanation: The database has no table spaces.

User Response: No action is required.

DBA1127 **The table space has no containers.**

Explanation: The table space has no containers.

User Response: No action is required.

DBA1128 **No containers have been specified. Select “Add” in order to create containers.**

Explanation: The current list does not contain any new containers.

User Response: Select “Add” and fill in the

necessary fields to add a container to the list.

DBA1129 **Enter a value for “<name>”.**

Explanation: The operation you requested can be performed only if you enter a value for “<name>”.

User Response: Enter a value, and then click on OK.

DBA1130 **The value for “<name>” must not exceed “<maximum>” characters.**

Explanation: You entered a value that exceeded the maximum number of characters.

User Response: Enter a valid value, and then click on OK.

DBA1131 **“<device>” is not a valid tape device.**

Explanation: The operating system did not accept the specified tape device. Local tape devices are of the form “\\.\TAPEn”, where n represents the drive number (0 is the first).

User Response: Enter a valid name for the tape device, and then click on OK.

DBA1132 **Tape device “<device>” does not support a tape mark blocksize of “<blocksize>”.**

Explanation: The Control center uses a tape mark blocksize that is not supported by the specified tape device.

User Response: Use the Command Line Processor to submit the request. Specify a supported blocksize in the DB2 INITIALIZE TAPE command.

DBA1133 **An error occurred operating tape device “<device>”.**

Explanation: An unexpected error occurred while operating the specified tape device.

User Response: Resubmit the request. If the

problem persists, contact your system administrator.

DBA1134 **A job was created for the request “<description>”. However, no job-related entries can be created in the Journal because the database administrative server (DAS) instance could not be accessed.**

Explanation: The job started successfully, but the status and output of the job will not be logged in the Journal. This can happen if the DAS instance is not started.

User Response: To have the status and output of the job logged in the Journal, start the DAS instance first before starting a backup operation.

DBA1135 **The job has completed for the request “<description>”.**

Explanation: The job has completed.

User Response: No action is required.

DBA1136 **A backup at the table space level cannot be performed because the database “<db>” is not enabled for forward recovery.**

Explanation: You can only back up a database at the table space level if you have first enabled that database for forward recovery.

User Response: To enable the database for forward recovery, set the database configuration parameters LOGRETAIN or USEREXIT to ON, disconnect all existing applications from the database, and perform an offline backup of the database.

DBA1137 **The value for “<name>” must not be smaller than “<minimum>” “<units>”.**

Explanation: The value entered is smaller than the minimum “<minimum>” “<units>”.

User Response: Enter a valid value and retry the request.

DBA1138 **The value for “<name>” must not exceed “<maximum>” “<units>”.**

Explanation: The value entered exceeded the maximum of “<maximum>” of “<units>”.

User Response: Enter a valid value and retry the request.

DBA1139 **You must allocate at least “<pages>” for the system catalog.**

Explanation: There cannot be more than “<pages>” in each table space container. Each page of data requires 4 KB. So 1 MB of storage is equal to 256 of these 4 KB pages.

User Response: Enter a valid value and retry the request.

DBA1140 **You cannot allocate more than “<pages>” pages in a single container. There cannot be more than “<pages>” in a table space.**

Explanation: Each page of data requires 4 KB. So 1 MB of storage is equal to 256 of these 4 KB pages.

User Response: Enter a valid value and retry the request.

DBA1141 **You must allocate a least “<pages>” pages in each container.**

Explanation: The minimum number of pages in a table space container is related to the extent size of the table space. It is 5 times the extent size plus one page. So for a table space with an extent size of 32 pages (the default value), the minimum size of a single container is 161 pages.

User Response: Enter a valid value and retry the request.

DBA1142 **The LOGARCHIVE database configuration parameter is currently set to ON for database “<name>”. As soon as all applications have disconnected from the database, the database will be in backup pending state. This state prevents the database from being updated. The database must be backed up before any additional updates can occur.**

Explanation: Before the database manager can start logging each transaction in your database, it must have a full offline database backup to use as a starting point.

User Response: Make a full offline database backup as soon as possible. If this is not possible, set the LOGARCHIVE parameter to OFF.

DBA1143 **You cannot perform an offline backup right now because at least one application is still connected to the database. You can either try again later, or disconnect all applications connected to the database immediately by selecting force from the instance object’s pop-up menu.**

Explanation: An offline backup cannot be performed until all applications connected to the selected database have stopped. You can either wait for the applications to disconnect themselves, or you can force the connected applications right now.

User Response: Either try the action later, or, to force all applications connected to the selected database immediately, select “Force” from the instance object’s pop-up menu.

DBA1144 **The container you specified already exists on system you are working with.**

Explanation: Each table space container must be unique.

User Response: Specify a file name or directory

that does not currently exists on the system.

DBA1145 **You have specified a container more than once.**

Explanation: Each table space container must be unique.

User Response: Specify a file name or directory that is not currently in your list of new containers.

DBA1146 **You have specified the same container in both the user and temporary table spaces.**

Explanation: Each table space container must be unique.

User Response: Change the file name or directory of the container in either the user or temporary tablespace.

DBA1147 **You have specified the same container in both the catalog and temporary table spaces.**

Explanation: Each table space container must be unique.

User Response: Change the file name or directory of the container in either the catalog or temporary tablespace.

DBA1148 **You have specified the same container in both the user and catalog table spaces.**

Explanation: Each table space container must be unique.

User Response: Change the file name or directory of the container in either the user or catalog tablespace.

DBA1149 **There is not enough free space for the containers you specified.**

Explanation: When a DMS container is created it consumes the full amount of space you allocated to it.

User Response: Change the location of the container to an area that has more storage, or increase the available storage in the current location of the container.

DBA1150E A column with the same name already exists.

Explanation: The column was not added because a column with the same name is already specified or exists in the table being created or altered.

User Response: Specify a different column name.

DBA1151E The column participates in a primary key or foreign key.

Explanation: The column was not removed because it participates in a primary key or foreign key.

User Response: Ensure that the specified column is the correct column to remove. To remove the specified column in a table, modify the primary key or foreign key definitions so that the specified column is no longer referenced.

DBA1152E A constraint with the same name already exists.

Explanation: The constraint was not added because a constraint with the same name is already specified or exists in the table being created or altered.

User Response: Specify a different constraint name.

DBA1153E The object is already in the list.

Explanation: The specified object already exists in the list. The action is not performed.

User Response: Specify another object or close the window.

DBA1154E The specified system, instance, and database do not identify a recognized database.

Explanation: The system, instance, and database specifications do not identify a database that is known to the application. The action is not performed.

User Response: Either ensure that the system, instance, and database names are correct; or add the system, instance, and database that you want to access to the application.

DBA1155E The object "<object_name>" no longer exists in the database. The request cannot be performed.

Explanation: The specified object no longer exists in the database and cannot be operated on. The request is terminated.

User Response: Select the "Refresh" action in the pop-up menu of the object folder to get an updated list of objects.

DBA1156W The request completed with warnings. See the administration tools log for details.

Explanation: The requested action completed, but one or more warning messages were issued.

User Response: See the administration tools log for more information.

DBA1157I No authorities or privileges were granted or revoked on "<object_name>" for "<user_name>". See the administration log for details.

Explanation: The requested action completed. No action was taken against the authorities or privileges on the specified object for the specified user or group.

User Response: None

DBA1158I Number of records read during the load = "<count>". Number of records skipped before the load begins = "<count>". Number of rows loaded into the target table = "<count>". Number of records that could not be loaded = "<count>". Number of duplicate rows deleted = "<count>". Number of records loaded successfully and committed to the database = "<count>".

Explanation: The action completed with the specified results.

User Response: None

DBA1159I Export completed.
 "<item_description>" = "<count>"

Explanation: The export action completed successfully with the specified results.

User Response: None

DBA1160I Import completed. Number of records read during the import = "<count>". Number of records skipped before the import begins = "<count>". Number of rows imported into the target table = "<count>". Number of records that could not be imported = "<count>". Number of duplicate rows deleted = "<count>". Number of records imported successfully and committed to the database = "<count>".

Explanation: The import action completed successfully with the specified results.

User Response: None

DBA1161I "<item_description>" = "<count>"

Explanation: The import or export completed with the specified results.

User Response: None

DBA1162I Load completed. Number of records read during the load = "<count>". Number of records skipped before the load begins = "<count>". Number of rows loaded into the target table = "<count>". Number of records that could not be loaded = "<count>". Number of duplicate rows deleted = "<count>". Number of records loaded successfully and committed to the database = "<count>".

Explanation: The load action completed successfully with the specified results.

User Response: None

DBA1163E The table was not copied. See the administration tools log for details.

Explanation: One or more warnings or errors occurred when copying the table. The table was not copied.

User Response: See the administration tools log for more information.

DBA1164E The specified target table already exists. The source table was not copied.

Explanation: The copy table action failed because the target table exists.

User Response: Either specify a new target table or delete the existing target table and try the action again.

DBA1165E No privileges were granted or revoked for "<user_name>". See the administration tools log for details.

Explanation: Privileges were not granted or revoked for the specified user or group.

User Response: See the administration tools log for more information.

DBA1166E The identifier “<identifier_name>” contains unbalanced quotes. Correct the identifier and try the action again.

Explanation: The specified identifier contains unbalanced single or double quotes. The naming rules require balanced quotes. The action is not performed.

User Response: Correct the identifier and try the action again.

DBA1167E The identifier “<identifier_name>” contains embedded blanks. Correct the identifier and try the action again.

Explanation: The specified identifier contains blank characters, which violates the naming rules for ordinary identifiers. The action is not performed.

User Response: Remove the blanks or delimit the identifier with double quotes and try the action again.

DBA1168E The first character in the identifier “<identifier_name>” is invalid. Correct the identifier and try the action again.

Explanation: The first character of the specified identifier is invalid. It must follow the naming rules for ordinary identifiers. The action is not performed.

User Response: Replace the first character with a valid one or delimit the identifier with double quotes then try the action again.

DBA1169 The command script that can update the instance and database configuration parameters was created successfully. Use the Script Center to run or schedule the script.

Explanation: A new script was saved successfully in the Script Center. You may open

the Script Center to view, run or schedule the new command script.

After the script is run, the changes will not take effect until the instance is stopped on the server.

Packages were bound with the old configuration parameters. They need to be rebound, after the new parameters take effect, to exploit these new parameters.

User Response: To view, run or schedule the newly saved script, open the Script Center by selecting the Script Center icon from the icon bar.

After you have run the script and when you are ready to use the new configuration parameters, stop the instance, and then start the instance.

Rebind your packages if necessary.

DBA1350I The Index SmartGuide was not able to recommend any indexes. Set a longer time limit on the Calculate page and try calculating recommended indexes again.

Explanation: The Index SmartGuide was not able to recommend any indexes because the maximum search time was too short.

User Response:

1. On the Calculate page in the Index SmartGuide, set a longer time limit or no limit at all.
2. Try running the Index SmartGuide again.

DBA1351I The Index SmartGuide was not able to recommend any indexes. Set a larger size limit on the Limits page and try calculating recommended indexes again.

Explanation: The Index SmartGuide was not able to recommend any indexes because the maximum logical size of all indexes was too small.

User Response:

1. On the Limits page in the Index SmartGuide, set a larger maximum logical size or no maximum at all.

2. Try running the Index SmartGuide again.

DBA1352I **The Index SmartGuide was not able to recommend any indexes that will improve the performance of your workload.**

DBA1353W **You specified only one SQL statement in your workload. Your database might have additional activity. Do not drop any indexes unless you are sure they are not needed for other reasons.**

Explanation: Since you only specified one SQL statement in your workload, it is unlikely that it represents all of the activity against your database.

The Drop page of the Index SmartGuide lists all existing indexes that were not recommended for this one SQL statement.

User Response: Do not drop any indexes unless you are sure they are not needed for other reasons.

DBA1500 **The local system object is not allowed to be removed.**

Explanation: The local system object appears in the tree if this is a server installation, and does not appear if this is a client installation. You have no direct control over the removal of this object because it has special properties that are required by the server installation type.

User Response: No action is required.

DBA1501 **The local system object is not allowed to be changed.**

Explanation: The local system object appears in the tree if this is a server installation, and does not appear if this is a client installation. You have no direct control over the changing of this object because it has special properties that are required by the server installation type.

User Response: No action is required.

DBA1502 **The unknown system object is not allowed to be removed.**

Explanation: The unknown system object appears in the tree only if orphaned instances that are not recognized as belonging to any existing system are found. You have no direct control over the removal of this object because it is shown automatically only when needed.

User Response: No action is required. However, if you want to remove the need to show this object in the tree, then do the following steps:

- Expand the unknown system object to show all orphaned instances.
- If necessary, add new system objects to the control center to contain the orphaned instances.
- If necessary, use the change action to alter the system name on any remaining orphaned instances.
- If the unknown instance object also appears, then you also have orphaned databases that are not recognized as belonging to any existing instance. Remove the need to show these objects by doing steps similar to these, adding instances or altering databases until no orphans are left to be shown.

DBA1503 **The unknown system object is not allowed to be changed.**

Explanation: The unknown system object appears in the tree only if orphaned instances that are not recognized as belonging to any existing system are found. You have no direct control over the changing of this object because it is shown automatically only when needed and has only special properties that cannot be changed.

User Response: No action is required.

DBA1510 **Specify a system name.**

Explanation: You must specify a system name before you can add this new system object.

User Response: Specify a system name in the

appropriate entry field, and then try the action again.

DBA1511 The specified system name is already in use.

Explanation: You specified a system name that matches the name used for another system object in the tree. System names must be unique within the control center, and are case-sensitive. You cannot use the names 'Local' or 'Unknown' because these are system names reserved for use by the local and unknown system objects. To avoid confusion, you should also try not to use the names of existing instances or databases as system names, although the tool does not prevent you from doing this.

User Response: Specify a unique system name, and then try the action again.

DBA1520 The operating system type for this system object has been detected to be "<newos>", but the local information shows it to be "<oldos>". Do you want to update the local information now to reflect the correct operating system type?

Explanation: When you add a new system object, you specify an operating system type, which is stored locally for that remote system. Later, when actual connections are made to the remote system, the true operating system type is reported back. It is possible for the original operating system type information to have been set incorrectly so that it does not match the true settings on the remote system. In this case, it is best to update the local information to match what settings truly exist on the remote system.

User Response: Select Yes to update the local information now, or select No to leave the local information as it is.

DBA1521 The server version type for this system object has been detected to be "<newtyp>", but the local information shows it to be "<oldtyp>". Do you want to update the local information now to reflect the correct server version type?

Explanation: When you add a new system object, the server version type is automatically set to be either DB2 V5 or DRDA, depending on the operating system type you choose. Later, when actual connections are made to the remote system, the true server version type, which may be a previous release such as DB2 V2, is reported back. In this case, it is best to update the local information to match what settings truly exist on the remote system.

User Response: Select Yes to update the local information now, or select No to leave the local information as it is.

DBA1522 The operating system type and server version type for this system object have been detected to be "<newos>" and "<newtyp>" respectively, but the local information shows these to be "<oldos>" and "<oldtyp>" respectively. Do you want to update the local information now to reflect the correct settings for these values?

Explanation: When you add a new system object, you specify an operating system type, which is stored locally for that remote system. Also, the server version type is automatically set to be either DB2 V5 or DRDA, depending on the operating system type you choose. Later, when actual connections are made to the remote system, the true operating system type and server version type are reported back. The original settings for this information may have been incorrect so that they do not match the true settings on the remote system. In this case, it is best to update the local information to match what settings truly exist on the remote system.

User Response: Select Yes to update the local information now, or select No to leave the local information as it is.

DBA1533E Unable to export the server profile.

Explanation: The target file system might not have enough disk space to complete the export operation.

User Response: Free some disk space on the target file system and retry the operation. If the problem persists, contact your DB2 system administrator.

DBA1540 The active local instance object is not allowed to be removed.

Explanation: The active local instance object appears in the tree always as the first instance under the local system object. This is a special instance object used to represent the current DB2INSTANCE environment variable setting. You have no direct control over the removal of this object because it has special properties that are required by the local system.

User Response: No action is required.

DBA1541 The active local instance object is not allowed to be changed.

Explanation: The active local instance object appears in the tree always as the first instance under the local system object. This is a special instance object used to represent the current DB2INSTANCE environment variable setting. You have no direct control over the changing of this object because it has special properties that are required by the local system.

User Response: No action is required.

DBA1550 Specify an instance name.

Explanation: You must specify an instance name before you can add this new instance object.

User Response: Specify an instance name in the

appropriate entry field, and then try the action again.

DBA1551 The specified instance name is already in use.

Explanation: You specified an instance name that either matches the name used for another instance object in the tree, or is being used by a system object in the tree. Instance names must be unique within the control center, and are always capitalized. System objects also use an automatically generated instance name to store their own protocol information, with the instance name usually being a short form of the chosen system name. You cannot use the name 'LOCAL' or the current DB2INSTANCE environment variable setting for the instance name.

User Response: Specify a different instance name, and then try the action again.

DBA1552 Specify a remote instance.

Explanation: You must specify a remote instance before you can add this new instance object.

User Response: Specify a remote instance in the appropriate entry field, and then try the action again.

DBA1560 Specify a destination name.

Explanation: You must specify a destination name for the selected protocol before you can correctly add this new object.

User Response: Specify a destination name in the appropriate entry field, and then try the action again.

DBA1561 Specify a file server.

Explanation: You must specify a file server for the selected protocol before you can correctly add this new object.

User Response: Specify a file server in the appropriate entry field, and then try the action again.

DBA1562 Specify a workstation name.

Explanation: You must specify a workstation name for the selected protocol before you can correctly add this new object.

User Response: Specify a workstation name in the appropriate entry field, and then try the action again.

DBA1563 Specify a host name.

Explanation: You must specify a host name for the selected protocol before you can correctly add this new object.

User Response: Specify a host name in the appropriate entry field, and then try the action again.

DBA1564 Specify a service name.

Explanation: You must specify a service name for the selected protocol before you can correctly add this new object.

User Response: Specify a service name in the appropriate entry field, and then try the action again.

DBA1565 Specify a computer name.

Explanation: You must specify a computer name for the selected protocol before you can correctly add this new object.

User Response: Specify a computer name in the appropriate entry field, and then try the action again.

DBA1566 Specify an instance name.

Explanation: You must specify an instance name for the selected protocol before you can correctly add this new object.

User Response: Specify an instance name in the appropriate entry field, and then try the action again.

DBA1567 This action or function is not available for this instance type or the associated system.

Explanation: The selected action, or associated function, is currently not supported for the type of instance against which the action or function was initiated. Some instance types, for example Satellite Edition, necessarily do not support full functionality.

User Response: Please refer to the documentation describing available function for this instance type.

DBA1568W Database connection was established but did not establish a syncpoint two-phase connection.

Explanation: An attempt was made to connect to a database using syncpoint two-phase connection type. A connection was established but failed to make a syncpoint two-phase connection. Multisite updates involving this database connection will not be successful.

User Response: Check that the multisite update scenario has been configured properly for your environment, ensuring that the coordinating instance is restarted after configuration is complete. If DB2's Syncpoint Manager is being used, check in the db2diag.log to see if it was started successfully.

DBA1580 New database objects are not allowed to be added to the unknown instance.

Explanation: The unknown instance object appears in the tree only if orphaned databases that are not recognized as belonging to any existing instance are found. The tool tries to prevent you from creating new orphans whenever possible, so you are not allowed to add new ones to the unknown instance.

User Response: No action is required.

DBA1581 Specify a database name.

Explanation: You must specify a database name before you can add this new database object.

User Response: Specify a database name in the appropriate entry field, and then try the action again.

DBA1582 Specify an alias.

Explanation: You must specify an alias before you can add this new database object.

User Response: Specify an alias in the appropriate entry field, and then try the action again.

DBA1583 The specified alias is already in use.

Explanation: You specified an alias that matches the alias used for another database object in the tree. Database aliases must be unique within the control center, and are always capitalized.

User Response: Specify a unique alias, and then try the action again.

DBA1590 The "<dbase>" database was created using an earlier version of DB2 than DB2 V5. Only limited function will be allowed for this database until it is migrated.

Explanation: All databases that are found under DB2 V5 type system objects are first assumed to be DB2 V5 databases. This database has now been detected to actually be a back-level database that has not yet been migrated to the DB2 V5 level. You can still access this database, but only limited function is available for back-level databases until you actually migrate them.

User Response: No action is required.

DBA2000E You have not specified a job description.

Explanation: A description for the job is required information.

User Response: Enter a job description in the entry field, and then click on OK.

DBA2001E You have not specified the number of hours for your selection.

Explanation: The number of hours for your selection is required information.

User Response: Enter a number in the hours entry field.

DBA2002E You must select at least 1 day of the week for your selection.

Explanation: To schedule a recurring job, you must specify at least one day of the week for the job.

User Response: Select at least one day of the week when scheduling a recurring job.

DBA2003E You specified a date that is not valid.

Explanation: The date you specified is not valid. Perhaps the date you have specified is in the past.

User Response: Enter a valid date.

DBA2004E You specified a date or time or combination of date and time that is not valid.

Explanation: The next execution date and time cannot be calculated, so no jobs can be scheduled. One possible error is when the time specified for a job to be run once is in the past. Remember that the date and time combination must be valid on the managed host where the schedule job is to be run.

User Response: Enter a valid date and time combination.

DBA2005E You have not specified a script name.

Explanation: A name for the script is required information.

User Response: Enter a name for the script file, and then click on OK.

DBA2006E You have not specified a comment.

Explanation: You indicated that you want to record a comment when the job is completed, but the comment entry field is empty.

User Response: Enter a comment, or clear the 'Record a comment' check box.

DBA2007E You specified a script name that is not valid.

Explanation: The command script is saved as a file in the file system. The script path is at most 255 bytes long. The file name part of the script name can be at most 8 bytes long. If an extension is specified, it cannot be longer than 3 bytes. The script name must not contain any blanks. For example, valid script names can be:
j:\script\new.cmd c:\data\test\crtddb.bat

User Response: Enter a valid script name, and then click on OK.

DBA2008I Job "<job id>" was created successfully.

Explanation: A new job was scheduled successfully. You may turn to the journal job summary to view the newly created job.

User Response: To view the newly created job, turn to the journal job summary by selecting the Journal icon from the icon bar.

DBA2009E A system error occurred. A Scheduler InfoBase call was unsuccessful. RC = "<return code>". Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2010E The Scheduler service is not up and running. Restart the Admin. Server, and then retry the command.

Explanation: To perform any action involving the Job Scheduler or the Script Center, the Scheduler service must be up and running.

User Response: Restart the Admin. Server, and then retry the command.

DBA2011E A system error occurred. Scheduling type (DBA or PGM) is not valid. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2012E A system error occurred. OS error was detected. RC = "<return code>". Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2013E The job id key was not found. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2014E **A system error occurred. Unable to change the status of the job. Restart the Admin. Server, and then retry the command.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2015E **A system error occurred. Memory allocation was unsuccessful in client. Restart the Admin. Server, and then retry the command.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2016E **A system error occurred. Scan handle is not valid. Restart the Admin. Server, and then retry the command.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2017I **Are you sure you want to remove the selected jobs?**

Explanation: You specified to remove the selected jobs. You have the chance now to double-check the jobs that you selected to remove, and either to continue or to cancel the request.

User Response: Select YES to remove the selected jobs. Select NO to cancel the remove request.

DBA2018I **Are you sure you want to remove the selected saved scripts?**

Explanation: You specified to remove the selected scripts that are currently saved. You have the chance now to double-check the scripts

that you selected to remove, and either to continue or to cancel the request.

User Response: Select YES to remove the selected scripts. Select NO to cancel the remove request.

DBA2019E **You have not specified the number of days for your selection.**

Explanation: The number of days for your selection is required information.

User Response: Enter a number in the days entry field.

DBA2020E **A system error occurred. Unable to determine script type. Command script was not executed.**

Explanation:

User Response:

DBA2021I **Are you sure you want to discard your changes?**

Explanation: You specified to have your changes not saved in the Script Center. You have the chance now either to continue discarding your changes, or to cancel the request and resume editing.

User Response: Select YES to discard the changes. Select NO to resume editing the command script.

DBA2022I **Command script "<script id>" was created successfully.**

Explanation: A new script was saved successfully in the Script Center. You may turn to the Script Center to view the new command script.

User Response: To view the newly saved script, turn to the Script Center by selecting the Script Center icon from the icon bar.

DBA2023E Instance "<instance name>" does not exist. Command script was not executed.

Explanation: The instance name associated with the script file does not exist.

User Response: You may select "Edit" from the Script Center to update the instance name to an existing instance.

DBA2024E Command script "<script id>" does not exist.

Explanation: The scheduled job cannot be executed because the script file associated with the job does not exist.

User Response:

DBA2025E A system error occurred. This problem may also be related to memory allocation on the client. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2026I Are you sure you want to remove the selected job?

Explanation: You specified to remove the selected job. You have the chance now to double-check the job that you selected to remove, and either to continue or to cancel the request.

User Response: Select YES to remove the selected job. Select NO to cancel the remove request.

DBA2027I Are you sure you want to remove the selected saved script?

Explanation: You specified to remove the selected script that is currently saved. You have the chance now to double-check the script that you selected to remove, and either to continue or to cancel the request.

User Response: Select YES to remove the selected script. Select NO to cancel the remove request.

DBA2028E You have not specified the number of weeks for your selection.

Explanation: The number of weeks for your selection is required information.

User Response: Enter a number in the weeks entry field.

DBA2029E A system error occurred. Scheduler key was not found. Restart the Admin. Server, and then retry the command.

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2030E You did not specify a system name. Select one from the list.

Explanation: The system name is required information to process the action.

User Response: Select a system name from the drop-down list.

DBA2031I Job "<job id>" was rescheduled successfully.

Explanation: A job that you requested to be rescheduled was rescheduled successfully.

User Response:

DBA2032E You have not specified a script name.

Explanation: A name for the script is required information.

User Response: Enter the script name in the entry field, and then click on OK.

DBA2033E **You have not entered the command script.**

Explanation: The command script is empty.

User Response: Enter the command script content, and then click on OK.

DBA2034I **Command script "<script id>" was updated successfully.**

Explanation:

User Response:

DBA2035E **A system error occurred. Unable to retrieve the command script "<script id>". Restart the Admin. Server, and then retry the command.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2036E **A system error occurred. Unable to create the command script. Restart the Admin. Server, and then retry the command.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2037E **A system error occurred. Unable to replace the command script "<script id>". Restart the Admin. Server, and then retry the command.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2038E **A system error occurred. Unable to copy the command script "<script id>". Restart the Admin. Server, and then retry the command.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2039E **You have not specified the number of months for your selection.**

Explanation: The number of months for your selection is required information.

User Response: Enter a number in the months entry field.

DBA2040E **You must select at least 1 day of the month for your selection.**

Explanation: To schedule a recurring job, you must specify at least one date per month for the job.

User Response: Select at least one date per month when scheduling a recurring job.

DBA2041E **A system error occurred. Unable to remove the command script "<script id>". Restart the Admin. Server, and then retry the command.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2042E **A system error occurred. Unable to run the command script “<script id>”. Restart the Admin. Server, and then retry the command.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2043I **Job “<job id>” was created successfully for running command script “<script id>”.**

Explanation:

User Response:

DBA2044E **You have not specified a script description.**

Explanation: A description for the script file is required information.

User Response: Enter a description for the script file, and then click on OK.

DBA2045E **Command script associated with job “<job id>” is system-generated. Content cannot be shown.**

Explanation: The script associated with a backup or reorganize table action is not in readable format.

User Response: Select a different command script (file?) to view the content of.

DBA2046E **Command script “<script id>” is system-generated. Content cannot be edited.**

Explanation: The script associated with a backup or reorganize table action is not in readable format.

User Response: Select a different command script file to edit.

DBA2047E **A system error occurred. The script type is unknown. Restart the Admin. Server, and then retry the command.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2048E **The file name you specified already exists. Specify a different script file name.**

Explanation: The name of each script file must be unique. You specified a file name that already exists.

User Response: Specify an unique script file name.

DBA2049E **A system error occurred. File access was denied.**

Explanation: The application was unable to access the file in the file system.

User Response: Retry the command. If the problem persists, contact your system administrator.

DBA2050E **A system error occurred. The disk is full.**

Explanation: There is no more room on the disk. Processing cannot continue.

User Response: Delete unwanted files from the file system. If the problem persists, contact your system administrator.

DBA2051E **A system error occurred. A hard disk error occurred.**

Explanation: An internal error relating to the hard disk occurred. The application was unable to access a file.

User Response: Retry the command. If the problem persists, contact your system administrator.

DBA2052E **Unable to execute the job due to logon failure. Userid = “<user id>”.**

Explanation: The password was invalid for the given userid or the userid is invalid.

User Response: Enter a valid userid and password when prompted.

DBA2053E **A system error occurred. Unable to remove job history entry.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2054E **A system error occurred. Unable to run job “<job id>”.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2055E **Command script “<script id>” has been removed from the Script Center.**

Explanation:

User Response:

DBA2056I **Command script “<script id>” was not changed.**

Explanation:

User Response:

DBA2057E **A system error has occurred. The path was not valid.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2058E **A line in the file is greater than “<number>” bytes.**

Explanation: The maximum number of bytes in a line is exceeded.

User Response: Rewrite the long line into separate lines without exceeding the limit.

DBA2059E **A system error occurred. There was a sharing violation.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2060E **A system error occurred. Unable to copy script “<script id>”.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2061I **Script “<script name>” was created successfully.**

Explanation: A new script file with the name “<script name>” was created successfully.

User Response: To view the newly created script, turn to the Script Center by selecting the Script Center icon from the icon bar.

DBA2062E **A system error occurred. Unable to create a new script. Restart the Admin. Server, and then retry the command.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2063E **A system error occurred. Unable to retrieve the results of job “<job id>”. Restart the Admin. Server, and then retry the command.**

Explanation: An internal error occurred.

User Response: Restart the Admin. Server, and then retry the command. If the problem persists, contact your system administrator.

DBA2064E **A Script Center record already exists for this script file name. Specify a different script file name.**

Explanation: The name of each script file must be unique within the Script Center. You specified a file name that already exists.

User Response: Specify an unique script file name.

DBA2065E **A system error occurred. The script file does not exist in the file system.**

Explanation: The script file was not found in the file system. The file may have been erased.

User Response: Remove the script entry and recreate it.

DBA2066E **The db2job executable is not in the expected directory. Unable to run the script.**

Explanation: db2job executable should be copied to sqllib bin as part of the installation.

User Response: Contact your system administrator.

DBA2067I **The REORG TABLE command completed successfully.**

Explanation:

User Response:

DBA2068E **You have not entered the instance name.**

Explanation: The name of the instance is required information.

User Response: Enter the instance name in the entry field, and then click on OK.

DBA2069W **The maximum number of “<number>” jobs has been created. Please remove obsolete jobs.**

Explanation:

User Response: Remove jobs that are no longer needed before creating another new job.

DBA2070W **The maximum number of “<number>” scripts has been created. Please remove obsolete scripts.**

Explanation:

User Response: Remove scripts that are no longer needed before creating another new script.

DBA2071W **The maximum number of “<number>” bytes has been reached. Data shown is truncated. The complete file “<file name>” can be found at the server.**

Explanation: The editor cannot handle a file as large as the current one. Data shown had to be truncated.

User Response: The entire file can be viewed at the server in the indicated location.

DBA2072E **The script associated with job “<job id>” has been removed from the Script Center.**

Explanation: The script file does not exist anymore.

User Response:

DBA2073E **You have not specified a userid and password.**

Explanation: A userid and password for running the job are required.

User Response: Enter a valid userid and password for running the job, and then click on OK.

DBA2074E **A system error has occurred. The working directory path was not valid.**

Explanation: The specified working directory does not exist so it cannot be used to run the script.

User Response: Use the Browse... button to select a valid working directory path.

DBA2075I **Job “<job id>” has been submitted. Use the Jobs page on the Journal to view the results.**

Explanation:

User Response:

DBA2076E **The job terminated abnormally.**

Explanation:

User Response:

DBA2077E **File name “<file name>” already exists in the file system.**

Explanation: File name must be unique.

User Response: Specify another file name.

DBA2078E **An unexpected error occurred. There is no job output.**

Explanation: There is no job output from running the job.

User Response: A possible error could be an invalid file extension is used on the operating system. Recreate the script with a valid extension.

DBA2151E **The script cannot be scheduled because it was not saved.**

Explanation: The script cannot be scheduled because you canceled the save action and therefore, the script was not saved in the Script Center.

User Response: Save the script and then try scheduling again.

DBA2152I **The script has to be saved to the Script Center before it can be scheduled.**

Explanation: Only scripts that are saved in the Script Center can be scheduled and run.

User Response: Select OK to save the script to the Script Center, or Cancel if you do not want to schedule the script.

DBA2153I **File “<file name>” was opened successfully.**

Explanation:

User Response:

DBA2154I **Script “<script name>” was opened successfully.**

Explanation:

User Response:

DBA2155I **Do you want to overwrite file “<file name>”?**

Explanation: The file “<file name>” currently exists in the file system and the save operation will overwrite its contents.

User Response: Select OK if you want to overwrite the contents of the file, or Cancel if you do not want to alter its contents.

DBA2156I **Do you want to overwrite script “<script name>”?**

Explanation: The script “<script name>” currently exists in the Script Center and the save

operation will overwrite its contents.

User Response: Select OK if you want to overwrite the contents of the script, or Cancel if you do not want to alter its contents.

DBA2157I File "<file name>" was updated successfully.

Explanation:

User Response:

DBA2158I File "<file name>" was created successfully.

Explanation: A new file with the name "<file name>" was created successfully in the file system.

User Response:

DBA2171I Do you want to discard all your changes to the script, and exit from the Command Center?

Explanation: You specified to exit from the Command Center, but the changes to the current script have not yet been saved. Your changes will be lost unless you cancel your exit request.

User Response: Select Yes to discard your changes and exit from the Command Center, or select No to cancel the exit request.

DBA2172I Do you want to discard your changes to the current script, and create a new script?

User Response: Select Yes to discard your changes and to create a new script, or select No to cancel the request.

DBA2173I The Command Center is still processing a command. Try again later.

Explanation: You tried to run a script or issue a set of commands, but the Command Center cannot process your command until it has finished processing the current one.

User Response: Please wait a few moments and try the command again. To stop the current command, click on the turning gears icon on the tool bar or select "Terminate" from the Results menu on the Results page.

DBA2174E The file "<file name>" specified on the command line could not be opened. Make sure that the file exists and that you have read access to the file, and then try again.

Explanation: You specified the name of a file containing a script that you want to import, but the Command Center could not access that file.

User Response: Make sure that you have entered the file name correctly on the command line, that the file exists, and that your user ID has read access to that file.

DBA2175E There is not enough memory to create the Command Center window. The application cannot continue.

Explanation: The system encountered a memory allocation problem when trying to create the Command Center window.

User Response: Make sure there is enough memory on your system to run the Command Center, and then try again.

DBA2176E The system environment did not initialize. The application cannot continue. Restart the database manager and try again, or contact your local support personnel.

Explanation: The command processor environment did not initialize properly.

User Response: Make sure you have enough disk space and then try again.

DBA2177E **The system could not create an access plan because a problem relating to Visual Explain has occurred.**

Explanation: Command Center has encountered a problem when trying to create an access plan.

User Response: Please refer to the help from the previous messages.

DBA2178E **You need a database connection in order to create an access plan. Use the "Connect" statement to connect to a database, and then try the command again.**

User Response: Establish a database connection first using the "Connect" statement, and then create an access plan for that database. To see a list of available databases, issue the command "list database directory".

DBA2179E **An access plan cannot be created because the statement you used is not in the correct format or is not a query.**

Explanation: The statement you used to try to create an access plan is either not in the correct format for a query or is not a query.

User Response: Check your statement for errors in query format, make necessary changes, and retry the statement. Refer to Visual Explain documentation for guidance on forming valid queries.

DBA2180I **The program name "db2" before the statement will be ignored because it is not required.**

Explanation: You don't need to type "db2" before a statement in the Command Center. It is only required at the operating system command prompt.

User Response: No action is required.

DBA2181I **The Command Center is not available at this time. Retry this operation later.**

Explanation: The JDBC server does not support multiple WEBCC Command Center sessions. The JDBC server is already busy with an existing Command Center session.

User Response: Wait until the current Command Center session is finished and retry the operation.

DBA2182N **A script name following the pattern "<script_name_pattern>" cannot be saved because the Script Center already contains too many scripts with names that follow the same pattern. Remove old scripts that follow this pattern from the Script Center then invoke the "<tool_name>" again.**

Explanation: There are too many automatically generated scripts with names like "<script_name_pattern>".

User Response: In the Script Center, remove at least one script with a name like "<script_name_pattern>", then invoke the "<tool_name>" again.

DBA3007 **Are you sure you want to delete the explained statement?**

Explanation: You are about to delete the explained statement. This will delete the rows in the explain tables.

User Response: Ensure that you want to delete the explained statement.

DBA3008 **Are you sure you want to delete the explained statements?**

Explanation: You are about to delete the explained statements. This will delete the rows in the explain tables.

User Response: Ensure that you want to delete the explained statements.

DBA3009 **A system error occurred. The Visual Explain tool could not continue processing.**

Explanation: An unexpected error occurred causing the operation to stop.

User Response: Possible solutions include:

- Verify that your system has sufficient memory.
- Where appropriate, stop other programs using the system.

If the problem persists, contact your system administrator.

DBA3010 **The explain snapshot has been deleted. Your request cannot be completed.**

Explanation: The explain snapshot that is requested has been deleted from the explain tables.

User Response: Regenerate the snapshot.

DBA3011 **This explain snapshot was created using a different version of the database manager from the Visual Explain Tool. Your request cannot be completed.**

Explanation: The explain snapshot was created using a newer version or an older version of the database manager from the Visual Explain Tool. The access plan graph cannot be constructed by the Tool.

User Response: Use the same version of the database manager as the Visual Explain Tool to graph the explain snapshot.

DBA3012 **String not found.**

Explanation: The search string is not found in the text being displayed.

User Response: None.

DBA3013 **Text is missing. You must specify the text string to be found.**

Explanation: You did not specify a search string.

User Response: Specify a search string.

DBA3014 **No selection is made in the list. You must select at least one entry in the list.**

Explanation: You did not make a selection in the list.

User Response: Select at least one entry in the list.

DBA3015 **There are no referenced columns associated with this access plan.**

Explanation: There were no columns referenced in the query for the referenced table.

User Response: None.

DBA3016 **There are no page fetch pairs statistics associated with this index.**

Explanation: There are no page fetch pairs statistics stored in the catalog table for this index. Refer to the System Catalog Statistics section in the *Administration Guide* for more details.

User Response: None.

DBA3017 **There are no referenced functions associated with this access plan.**

Explanation: This access plan did not require the use of any functions.

User Response: None.

DBA3018 **There are no column distribution statistics associated with this column.**

Explanation: There are no column distribution statistics stored in the catalog table for this column. Refer to the System Catalog Statistics

section in the *Administration Guide* for more details.

User Response: None.

DBA3019 **There are no indexes associated with this table.**

Explanation: There were no indexes defined on the referenced table at the time of explain and there are no indexes currently defined in the table.

User Response: None.

DBA3020 **An error occurred while a COMMIT against the database was being attempted and no SQLCODE can be returned.**

Explanation: An unexpected error occurred.

User Response: Contact your system administrator.

DBA3021 **An error occurred while a ROLLBACK against the database was being attempted and no SQLCODE can be returned.**

Explanation: An unexpected error occurred.

User Response: Contact your system administrator.

DBA3022 **The Get Database Manager Configuration api passed back a non-zero return code.**

Explanation: An unexpected error occurred causing the operation to stop.

User Response: Contact your system administrator.

DBA3023 **The Get Database Configuration api passed back a non-zero return code.**

Explanation: An unexpected error occurred causing the operation to stop.

User Response: Contact your system administrator.

DBA3024 **An error occurred while saving to the file "<file>".**

Explanation: Possible problems include:

- The file cannot be opened for write.
- The file name does not conform to the file system convention.

User Response: Possible solutions include:

- Change the file attribute to read write.
- Specify the correct file name.

DBA3025 **An error occurred while retrieving from the file "<file>".**

Explanation: Possible problems include:

- The file is not readable.
- The file does not exist.

User Response: Specify the correct file name.

DBA3026 **No printers are installed.**

Explanation: There are no printers installed on your machine.

User Response: Install a printer on your machine.

DBA3033 **There are no referenced table spaces associated with this access plan.**

Explanation: This access plan did not reference any database objects contained in a table space.

User Response: None.

DBA3034 **The snapshot was created using code page "<codepage>" but is not converted to the code page of the window running the Visual Explain Tool.**

Explanation: The snapshot of the access plan graph displayed was created on a code page different from the code page of the window

running the Visual Explain Tool. Code page conversion is not successful because the snapshot is too large. The access plan graph is displayed without code page conversion. You may not be able to display the current statistics when you open the statistics windows.

User Response: Change the code page of the window running the Visual Explain Tool to the same one used to create the snapshot and display the access plan graph again.

DBA3035 The snapshot was created using code page "<codepage>" but is not converted to the code page of the window running the Visual Explain Tool. The value of the database manager configuration parameter UDF_MEM_SZ is too small.

Explanation: The snapshot of the access plan graph displayed was created on a code page different from the code page of the window running the Visual Explain Tool. Code page conversion is not successful because the user defined function used to convert between the code pages do not have enough memory to run. The access plan graph is displayed without code page conversion. You may not be able to display the current statistics when you open the statistics windows.

User Response: Possible solutions include:

- Change the database manager configuration parameter UDF_MEM_SZ of your server to 512 and display the access plan graph again. Note that the configuration parameter may not take effect until the next time you do a **db2start** on your server.
- Change the code page of the window running the Visual Explain Tool to the same one used to create the snapshot and display the access plan graph again.

DBA3036 Explain tables have been created to process your dynamic explain request.

Explanation: One or more explain tables have been created under the current user ID. These tables will be used to store the information needed by your dynamic explain request.

User Response: None.

DBA3037 The explain snapshot has been corrupted. Your request cannot be completed.

Explanation: The explain snapshot that is requested has been corrupted in the explain tables.

User Response: Regenerate the snapshot.

DBA3038 There are no referenced buffer pools associated with this access plan.

Explanation: This access plan did not reference any database objects contained in a buffer pool.

User Response: None.

DBA3039 Explain tables cannot be found.

Explanation: Explain tables do not exist.

User Response: Create explain tables using one of the following methods:

- Use the sample command file that is provided in the EXPLAIN.DDL file. This file is located in the sqllib\misc directory. To run the command file, go to this directory and issue the **db2 -tf EXPLAIN.DDL** command.
- From the Control Center or from the Explained Statements History window, select **Explain SQL** from the menu selections. Use the Explain SQL Statement window to dynamically explain an SQL statement and automatically create the explain tables.

DBA3040 **The command is specified incorrectly.**

Explanation: The command has invalid syntax.

User Response: Issue the command with the -h option to see the correct syntax.

DBA3041 **The name of the database must be between 1 and “<maximum>” characters long.**

Explanation: The specified database name is either empty or too long.

User Response: Reissue the command with a valid database name.

DBA3042 **The explainable statement text must be between 1 and “<maximum>” characters long.**

Explanation: The specified explainable statement text is either empty or too long.

User Response: Reissue the command with valid explainable statement text.

DBA3043 **The query tag cannot have more than “<maximum>” characters.**

Explanation: The specified query tag is too long.

User Response: Reissue the command with a valid query tag.

DBA3044 **The user ID cannot have more than “<maximum>” characters.**

Explanation: The specified userid is too long.

User Response: Reissue the command with a valid userid.

DBA3045 **The valid range for query number is from 0 to “<maximum>”.**

Explanation: The specified query number is either too small or too large.

User Response: Reissue the command with a valid query number.

DBA3046 **The valid values for optimization class are 0, 1, 2, 3, 5, 7 and 9.**

Explanation: The specified optimization class is not one of the valid values.

User Response: Reissue the command with a valid optimization class.

DBA3047 **The database “<name>” cannot be found.**

Explanation: The database name specified in the command does not exist in the system database directory.

User Response: Reissue the command with an existing database name or catalog the database in the system database directory.

DBA3048 **db2vexp explains a dynamic SQL statement to produce an access plan graph. The syntax is:**

**db2vexp -db <database name>
-sql <explainable statement text>
[-queryno <query number>]
[-querytag <query tag>]
[-opt <optimization class>]
[-user <user ID>]
[-password <password>]
[-withsnapshot]**

Use -h option to get help information.

Explanation: This is the syntax of the db2vexp command.

User Response: None.

DBA3059 **There is no details information associated with the selected operator “<operator>”.**

Explanation: The details information of the selected operator is not available for the current release of the DB2 Administration Tools.

User Response: None.

DBA3060 **There is no help information associated with the selected operator "<operator>".**

Explanation: The help information of the selected operator is not available for the current release of the DB2 Administration Tools.

User Response: None.

DBA4000 **Are you sure you want to stop monitoring?**

Explanation: You have requested to stop monitoring all database objects that are currently monitored and to exit the Performance Monitor.

User Response: Click "Yes" to process the request or "No" to cancel it.

DBA4001 **There is no monitor summary for your selection.**

Explanation: You requested to show monitor activity on a level of object in which nothing is being monitored. There is no summary activity to be shown.

User Response: Retry the action when a monitor is started on a object that corresponds to the level you have selected.

DBA4002 **Are you sure you want to stop monitoring "<name>"?**

Explanation: You have requested to stop monitoring an object that is currently being monitored.

User Response: Click "Yes" to process the request or "No" to cancel it.

DBA4003 **Only the default level is changed for IBM supplied monitors.**

Explanation: For an IBM-supplied monitor, the only attribute that you can change is the level for which this monitor is designated as the default.

User Response:

DBA4004 **Multiple selection is only allowed for the Remove action.**

Explanation: You selected more than one monitor from the list of monitors. The only action you can perform on multiple objects is Remove.

User Response: Deselect all monitors except one from the list and retry the action.

DBA4005 **Are you sure you want to remove the selected monitors?**

Explanation: You requested to remove the selected monitors from the list.

User Response: Click "Yes" to process the request or "No" to cancel it.

DBA4006 **Are you sure you want to reset the counters?**

Explanation: You requested to reset the database counters.

User Response: Click "Yes" to process the request or "No" to cancel it.

DBA4007 **Are you sure you want to stop monitoring all objects in this level?**

Explanation: You have requested to stop monitoring all objects in this level that are currently being monitored.

User Response: Click "Yes" to process the request or "No" to cancel it.

DBA4008 **Are you sure you want to stop monitoring all partitions in this object?**

Explanation: You have requested to stop monitoring all partitions in this object that are currently being monitored.

User Response: Click "Yes" to process the request or "No" to cancel it.

DBA4009 The IBM supplied monitors are being created.

Explanation: The IBM supplied monitors are being created. This may take a while.

User Response:

DBA4010 The Performance Monitor encountered a problem and cannot continue. Retry the action. If the problem persists, take a trace at the client and the server, and contact support personnel.

Explanation: Unexpected error has occurred.

User Response: Take a trace at the client and the server and contact support.

DBA4011 The program "<name>" is not a valid name. The program cannot be run. Check the name and retry the action.

Explanation: You have specified an invalid program name.

User Response: Specify a valid program name and retry the action.

DBA4012 The program "<name>" cannot be run. The currently executing thread is not allowed to execute the specified program.

Explanation: A security exception is thrown when executing the program specified. Run command works in application mode only.

User Response: Retry the action when you run Control Center as an application.

DBA4013 Database manager node "<name>" is down.

Explanation: From the Tools settings, node status page, you have selected to be informed about database manager node status when it is down.

User Response: Restart the database manager

node to continue processing.

DBA4014 The state of database manager node "<name>" is unknown.

Explanation: From the Tools settings, node status page, you have selected to be informed about database manager node status when the state is unknown.

User Response:

DBA4015 "<name>" contains invalid input. Please re-enter the entry.

Explanation: Your entry contains invalid character.

User Response: Retry your action with new entry.

DBA4016 New monitor cannot be created. The maximum number of monitors is "<number>".

Explanation: The create or save as or copy request fails. The maximum number of monitors has been reached.

User Response: Remove unused monitors and retry your action.

DBA4017 The monitoring connection cannot be established. The maximum number of monitoring connections is "<number>".

Explanation: The maximum number of monitoring connections has been reached.

User Response: Retry your action later or stop any running monitoring session on your machine.

DBA4018 Your entry in "<name>" is too long. The maximum number of characters is "<number>". Your entry is truncated.

Explanation: Your entry has exceeded the limit.

User Response:

DBA4019 **Your entry in “<name>” is too long. The maximum number of characters is “<number>”. Retry your action with valid input.**

Explanation: Your entry has exceeded the limit.

User Response: Retry the action with valid input.

DBA4020 **You made changes to the performance monitor “<name>”. Do you want to save your changes?**

Explanation: You made one or more changes to the performance monitor that are not yet saved, and you requested to exit from the Show Monitor window or set the running monitor a different monitor. Your changes will be lost unless you click Yes.

User Response: Click “Yes” to process the request or “No” to cancel it.

DBA4021 **You made changes to the performance variable settings for “<name>”. Do you want to apply your changes to the next snapshot?**

Explanation: You made one or more changes to the performance variable settings that are not yet saved, and you selected a different performance variable to work with. Your changes will be lost unless you click Yes.

User Response: Click “Yes” to apply the changes to the next snapshot of “No” cancel it.

DBA4023 **You entered a combination of alarm and warning threshold values that is not valid for performance variable “<name>”. Change one or more threshold values and try again.**

Explanation: The upper alarm threshold value must be greater than the upper warning threshold value and so on; that is, upper alarm threshold value > upper warning threshold value

> lower warning threshold value > lower alarm threshold value. The threshold value is a float no longer than 9 digits.

User Response: Verify the threshold values and try the operation again.

DBA4024 **The Summary page cannot show more than “<number>” columns. Turn to the Details page to see all the performance variables.**

Explanation: The Summary page currently displays as many columns as it can accommodate, but some performance variables are not shown.

User Response: Turn to the Details page to see all the performance variables.

DBA4025 **The “<type>” view cannot show more than “<number>” performance variables.**

Explanation: The maximum number of performance variables are shown.

User Response: Remove one or more performance variables from the “<type>” view before adding more.

DBA4060 **The Performance Monitor is currently active with another monitor for this instance.**

Explanation: Only one monitor can be active at a time per instance. For example, if your default monitor for databases is different from your default monitor for connections, you will not be able to monitor databases and monitor (or list) connections at the same time.

User Response: In the List Monitors window, you can:

1. Find out which monitor is running and stop it so you can specify a different one.
2. Find out which monitor is running and specify it for your next monitoring action.
3. Create a monitor that contains performance variables for all levels, and then select it as your default monitor for each level.

DBA4065 **The threshold value cannot be blank or contain more than 9 characters. Enter a valid threshold value.**

Explanation: You entered a threshold value which is not valid.

User Response: Re-enter the threshold value and retry your action.

DBA4070 **The JDBC server encountered a problem. The list of performance monitors could not be processed.**

Explanation: An unexpected problem is encountered.

User Response: Verify that the JDBC server is up and running. If it is, take a trace at the JDBC server and then contact support personnel.

DBA4071 **Some monitors are currently in use locally. The refreshed list shows local monitors only.**

Explanation: The list of monitors is refreshed with local monitors only.

User Response: To show the complete list, stop the active monitors and retry the operation.

DBA4072 **This monitor name already exists. Specify a unique name.**

Explanation: Performance monitor names in a JDBC server must be unique regardless of the monitor's creator.

User Response: Specify a unique monitor name.

DBA4074 **The JDBC server encountered a problem. The operation could not be performed.**

Explanation: An unexpected problem is encountered.

User Response: Verify that the JDBC server is up and running. If it is, take a trace at the JDBC server and then contact support personnel.

DBA4075 **This performance monitor is empty so it cannot be saved. Add at least one performance variable to the monitor and retry the operation.**

Explanation: Monitors need to contain at least one performance variable in order to be valid.

User Response: Add at least one Performance Variable to the monitor and retry the operation.

DBA4076 **The action cannot be performed because you are not the creator of the monitor.**

Explanation: You must own the monitor to be able to change, rename or remove it.

User Response: If you were trying to change a monitor, copy it under a different name and then change it.

DBA4079 **This monitor is currently in use locally. Stop the monitor, and then remove or rename it.**

Explanation: You cannot remove or rename an active monitor.

User Response: Stop the monitor before removing or renaming it.

DBA4080 **This monitor is currently in use remotely. Wait till the monitor is stopped, and then remove or rename it.**

Explanation: You cannot remove or rename an active monitor.

User Response: Wait till the monitor is stopped before removing or renaming it.

DBA4083 **This monitor could not be found. Another user might have removed it. Stop all monitoring and then refresh your list of monitors.**

Explanation: Another user might have removed the monitor that you are using.

User Response: Stop all monitoring and refresh your list of monitors.

DBA4090 **Connection to the JDBC server has ended abnormally. Close the Control Center and retry the operation. If the problem persists, take a trace at the JDBC server and contact support personnel.**

Explanation: An unexpected error has occurred.

User Response: Close the Control Center and retry the operation. If the problem persists, take a trace at the JDBC server and contact support personnel.

DBA4095 **This function has not been implemented on this object.**

Explanation: This function has been planned for a future release but is not currently implemented on this object.

User Response: None.

DBA4220 **Full database restore cannot be done from a table space backup image.**

Explanation: Full database restore cannot be done from a table space backup image.

User Response: None.

DBA4221 **Table space selection is not allowed for the media type.**

Explanation: Table space selection is not allowed for the media type.

User Response: None.

DBA4222 **Table space selection is not allowed since the database is in backup pending state.**

Explanation: Table space selection is not allowed since the database is in backup pending state.

User Response: None.

DBA4223 **Full database required when backup image information is entered manually.**

Explanation: Full database required when backup image information is entered manually.

User Response: None.

DBA4730 **Performance monitoring encountered a problem while accessing the monitor server. Monitoring cannot continue. smcode: "<Error code>"**

Explanation: See the Administration Server error logs for more information.

User Response: Contact your technical service representative with the smcode.

DBA4731 **A resource problem occurred on the Monitor Server. Monitoring history data will be lost. smcode: "<Error code>"**

Explanation: See the Administration Server error logs for more information.

User Response: Free up some server resource and retry the operation. If the problem persists, contact your technical service representative with the smcode.

DBA4732 **A problem occurred when trying to attach to the database instance. Monitoring history data will be lost. smcode: "<Error code>"**

Explanation: See the Administration Server error logs for more information.

User Response: Retry the operation. If the problem persists, contact your technical service representative with the smcode.

DBA4733 **The monitored database instance is stopped. Restart the instance. smcode: "<Error code>"**

Explanation: See the Administration Server error logs for more information.

User Response: Restart the instance. If the problem persists, contact your technical service representative with the smcode.

DBA4734 **Performance monitoring encountered a problem while accessing the monitor server. Monitoring history will be lost. smcode: “<Error code>”**

Explanation: See the Administration Server error logs for more information.

User Response: Retry the operation. If the problem persists, contact your technical service representative with the smcode.

DBA4735 **A problem occurred when trying to attach to the database instance. Monitoring history data will be lost. smcode: “<Error code>”**

Explanation: See the Administration Server error logs for more information.

User Response: Contact your technical service representative with the smcode.

DBA4736 **Unable to determine the current country code or current code page in use on the client. smcode: “<Error code>”**

Explanation: The client’s country code and code page must be sent to the server so that the data is returned in the correct code page. The Monitor Server was unable to determine the active country code or code page.

User Response: Refer to your operating system documentation to determine how to set the country code and active code page for your system. Retry the operation after setting the country code and code page.

DBA4737 **Unable to set the current client country code or current code page on the server. smcode: “<Error code>”**

Explanation: The client’s country code and code page must be sent to the server so that the data is returned in the correct code page. The Monitor Server was unable to set the client’s active country code or code page on the server.

User Response: Refer to your operating system documentation to determine how to activate the client’s country code and active code page on your server’s system. Retry the operation after activating the country code and code page.

DBA4738 **The Administration Server on system “<name>” is not started. smcode: “<Error code>”**

Explanation: The listed Administration Server on system “<name>” is not started.

User Response: Start the Administration Server and retry the operation.

DBA4739 **The client system’s code page could not be determined. The client system might not be set up correctly. smcode: “<Error code>”**

Explanation: This is a client system setup problem.

User Response: Contact IBM Service.

DBA4740 **The client code page “<name>” is not available on instance “<name>”. smcode: “<Error code>”**

Explanation: The listed code page has not been installed on instance “<name>”.

User Response: Contact your system administrator. Your administrator should install codepage “<name>” on instance “<name>”.

DBA4741 **The client codepage “<name>” is not available on instance “<name>”, at node “<name>”. smcode: “<Error code>”**

Explanation: The listed codepage has not been installed on instance “<name>”, at node “<name>”.

User Response: Contact your system administrator. Your administrator should install codepage “<name>” on instance “<name>” at node “<name>”.

DBA4742 **The Administration Server “<name>” cannot be found. smcode: “<Error code>”**

Explanation: Possible reasons for this problem include: 1) Remote instance name is not valid. 2) Hostname is not valid.

User Response: Contact your system administrator.

DBA4743 **The Administration Server “<name>” detected a problem. sqlcode: “<Error code>”. smcode: “<Error code>”**

Explanation: The Administration Server “<name>” had an internal error.

User Response: Contact your system administrator.

DBA4744 **The Control Center could not communicate with the parallel tools on instance “<name>” at node “<name>”. Try starting communications. smcode: “<Error code>”**

Explanation: Communications may not have been started.

User Response: Contact your system administrator.

DBA4745 **The TCP/IP port configuration between the Control Center and the parallel tools on instance “<name>” at node “<name>” is not correct. smcode: “<Error code>”**

Explanation: The /etc/services file at node “<name>” might contain incorrect information.

User Response: Contact your system administrator. Your administrator should check that the port name of db2ccmsrv is entered correctly in the /etc/services file on node “<name>”.

DBA4746 **Instance node host name “<name>” is not valid on instance “<name>”. smcode: “<Error code>”**

Explanation: The db2nodes.cfg file for instance “<name>” might contain incorrect information.

User Response: Contact your system administrator. Your administrator should validate the host name found in the db2nodes.cfg file for instance “<name>”.

DBA4747 **The Performance Monitor did not receive a response from node “<name>” within the snapshot capture interval. smcode: “<Error code>”**

Explanation: A performance or communications problem on the listed node is preventing a response from being sent, or the snapshot capture interval is not long enough to allow each node time to respond to the request.

User Response: Contact your system administrator. Your administrator can 1) Validate the performance on the listed node. 2) Increase the snapshot capture interval to allow more time for the node to respond to the snapshot request.

DBA4748 **Logical node “<name>” on instance “<name>” is not valid. smcode: “<Error code>”**

Explanation: The db2nodes.cfg file for instance “<name>” might contain incorrect information.

User Response: Contact your system administrator.

DBA4749 **The Monitor Server on instance “<name>” is unable to establish communications with node “<name>”. smcode: “<Error code>”**

Explanation: The communications subsystem may not have been started.

User Response: Contact your system administrator.

DBA5006E **PIPE Event Monitors are not supported.**

Explanation: The Event Analyzer only handles traces produced by FILE Event Monitors.

User Response: Use a FILE Event Monitor.

DBA5007E **The specified Event Monitor does not exist.**

Explanation: The Event Monitor names specified with the -evm option could not be found in the catalogs for the database specified with the -db option. The Event Monitor may have been dropped or you may be trying to connect to the wrong database.

User Response: Make sure that the Database alias specified with the -db is properly cataloged and that the Event Monitor has not been dropped. If the latter is the case, re-create the event monitor.

DBA5250I **The number of objects retrieved exceeds the limit of what can fit in the window. A partial list is displayed.**

Explanation: The window height required to display the retrieved objects exceeds a system limit.

User Response: You can reduce the number of objects displayed in the window by doing the following:

- If the “Include” choice is available on the “View” menu, you can specify a subset of the objects to display in the window. When you select “Include”, a window appears and prompts you for subsetting criteria.

DBA5300E **Event Analyzer invocation error. Usage:**

```
db2eva -path evmon-target
        [-conn [
        -db database-alias]] |
        -evm evmon-name
        -db database-alias [-conn]
```

Explanation: The command parameters for the db2eva command are:

-path evmon-target

specifies the directory containing the Event Monitor trace files.

-db database-alias

specifies the database for which the Event Monitor is defined, as cataloged on the machine where the trace is analyzed. database-alias overrides the database name specified in the trace.

-evm evmon-name

the Event Monitor producing the trace files to analyze. If specified, db2eva locates the trace files for the user by reading the Event Monitor target from the database system catalog.

-conn

requests db2eva to maintain a connection to the database specified by the -db option, or if -db is not supplied, to the database specified in the trace file

header. Keeping a connection allows the Event Analyzer to obtain information that is not contained in the trace files, such as the text for static SQL statements. (The Statement Text Events for static SQL only contain package creator, package number, and section number. When the -conn option is specified, db2eva connects to the database and retrieves the text from the Database system catalog, 'sysibm.sysstmt'.) The default is not to keep a connection.

Window Manager Options can be intermixed with the db2eva arguments.

Two modes of operation are provided for reading Event Monitor trace files:

1. User specifies the directory where the trace files reside (using -path)
This mode allow users to move trace files from a server and analyze them locally, even if the Event Monitor has been dropped.
2. User specifies the database and event monitor names; db2eva automatically locates the trace files.

When this mode is used, db2eva connects to the database, and issues a 'select target from sysibm.syseventmonitors' to locate the directory where the Event Monitor writes its trace files. The connection is then released, unless -conn is specified. The Event Monitor must not have been dropped when using this mode.

NOTE: Both the -conn and -db options require that the database with which the trace was recorded still exists, and that the user has sufficient access privileges to connect and select from the system catalogs.

User Response: Re-issue the command with valid arguments.

DBA5311E Event Monitor invocation error. Usage:

db2emcrt database-alias

Explanation: The command parameter for the db2emcrt command is:

database-alias

specifies the database for which the event monitors are to be created or analyzed, as cataloged on the machine the db2emcrt command is invoked. database-alias overrides the database name specified in the trace.

User Response: Re-issue the command with valid arguments.

DBA5350E The specified file cannot be opened.

Explanation: The specified file could not be opened in read-only mode for an unknown cause.

User Response: Check the spelling of the directory specified by the -path option, its access authority, and that it contains a non-empty, readable trace file called 00000000.evt.

NOTE: The first trace file for an Event Monitor is always named 00000000.evt and cannot be renamed.

DBA5351E The specified file cannot be found.

Explanation: There is no 00000000.evt file in the directory specified by -path.

User Response: Check the spelling of the directory specified by the -path option, its access authority, and that it contains the trace file 00000000.evt.

NOTE: The first trace file for an Event Monitor is always named 00000000.evt and cannot be renamed.

DBA5352E The path specified was not found.

Explanation: The -path option specifies a directory that does not exist.

User Response: Check the spelling of the directory specified by the -path option, its access authority, and that it contains the trace file 00000000.evt.

NOTE: The first trace file for an Event Monitor is always named 00000000.evt and cannot be renamed.

DBA5353E Access to the specified file was denied.

Explanation: The specified file could not be opened in read-only mode. The -path option may be specifying a directory to which you do not have sufficient access authority.

User Response:

- Check the access authority to the directory specified by the -path option.
- Verify that no one has locked the specified file in exclusive mode.

DBA5354E The data cannot be read from the specified file.

Explanation: The Event Monitor trace file contains unexpected data, or cannot be accessed.

The trace file was likely corrupted during transmission or has been removed.

User Response: Transmit your trace files from your server again. When transmitting trace files from a remote server, ensure that the transmission is done in binary mode.

DBA5355E An Event Monitor log header could not be found in the specified file.

Explanation: The first file written to by an Event Monitor is named 00000000.evt and contains a data structure that identifies the trace characteristics. This data structure could not be read. Possible causes:

- The trace file was corrupted.
- The trace file is empty. This can happen if the Event Monitor is active but, has not flushed its buffers yet.

User Response:

- If the trace was transmitted from a remote server, retransmit, ensuring that the transmission is done in binary mode.
- If the trace file is empty, turn off the Event Monitor to force it to flush its buffer.

DBA5356E The byte order is not valid in the specified file.

Explanation: The Event Monitor log header (the first record written to a new trace) specifies whether the trace contains little-endian (e.g., OS/2) or big-endian (e.g., AIX) data. The value found in the trace file specified neither of these two supported types of data.

The trace file was likely corrupted during transmission.

User Response: Transmit your trace files from your server again. When transmitting trace files from a remote server, ensure that the transmission is done in binary mode.

DBA5357E Unexpected data was found at the specified offset in the specified file.

Explanation: The Event Monitor trace file contains unexpected data.

The trace file was likely corrupted during transmission.

User Response: Retransmit your trace files from the server, ensuring that the transmission is done in binary mode.

DBA5500E A system error has occurred. The Event Analyzer tool could not continue processing.

Explanation: For an unknown reason a system error has occurred when trying to initialize the application environment.

User Response: Re-issue the command.

DBA5501W **Do you want to delete the event files associated with the event monitor “<evname>” that you are removing?**

Explanation:

User Response: To delete the event files for the selected event monitor, click on OK. If you do not want to delete the event files, but still want the event monitor removed, click on NO. If you do not want to remove the event monitor, or delete the event files click on CANCEL.

DBA5502E **No selection was made from the list of Event types. You must select one or more types from the list.**

Explanation: When creating an event monitor, at least one Event type must be selected.

User Response: Select one or more of the Event type check boxes from the Create Event Monitor window.

DBA5503I **An event monitor “<evname>” has been successfully created.**

Explanation: The event monitor has been successfully created and has been added to the database list of event monitors.

User Response: Click on OK to remove the message.

DBA5504W **Some event monitors were not removed because their event files could not be deleted. See the messages page from the journal notebook for the list of event monitors not removed.**

Explanation: Some of the selected event monitors may have been successfully removed, but others were not, because their associated event trace files could not be deleted.

This occurs when either event files are read-only, or they are being used by another active process.

User Response: See the message page of the journal notebook for the list of event monitors that were not removed. To delete the files, end the process using them and check the access authority for the files. Then select the event monitor from the list of event monitors and choose remove from the menu.

DBA5505E **Maximum file size was not specified.**

Explanation: If maximum file size in 4K pages is selected on the create event monitor Options window, then the maximum size of the event files must be specified.

User Response: Enter a maximum file size of between 1 and 2,147,483,647 4K pages, or you can select the No Maximum option. If the No Maximum option is selected, the maximum number of event files is 1.

DBA5506E **Maximum number of files was not specified.**

Explanation: If Maximum number of files is selected on the create event monitor Options window, then the maximum number of event files must be specified.

User Response: Enter a maximum number of event files of between 1 and 2,147,483,647, or you can select No Maximum option.

DBA5507E **Buffer size was not specified.**

Explanation: An event monitor Buffer size in 4K pages must be specified.

User Response: You must enter an event monitor buffer size of between 1 and 2,147,483,647 4K pages.

DBA5508W **Do you want to delete the event files associated with the event monitors that you are removing?**

User Response: To delete the event files for the selected event monitors, click on OK. If you do not want to delete the event files, but still want the event monitors removed, click on NO. If you

do not want to remove the selected event monitors, or delete the event files click on CANCEL.

DBA5509E The name entered for the event monitor is not valid.

Explanation: The name entered in the event monitor Name field contains one or more characters that are not allowed. An event monitor can contain alphanumeric and must begin with a letter.

User Response: Remove from the name any characters that are not alphanumeric and make sure the name begins with a letter.

DBA5510E When trying to activate the monitor, the directory for its data files was not found.

Explanation: When activating an event monitor, the directory that was specified when the event monitor was created must exist. In order to flush its buffers, an event monitor needs an existing file and path.

User Response: Create the directory that was specified when creating the event monitor. Try to activate the event monitor again.

DBA5511E Entry "<name>" is not valid because the value is out of the acceptable range.

Explanation: The values for an event monitor's Maximum file size, Maximum number of files, and Buffer size must be between 1 and 2,147,483,647.

User Response: Enter a value in the entry fields that is within the given range.

DBA5512E The character "<character>" entered for the event monitor name is not allowed.

Explanation: A character entered in the event monitor name entry field is not a valid character for an event monitor name.

User Response: Remove from the event monitor

name any characters that are not alphanumeric and make sure the name begins with a letter.

DBA5513W The dynamic link library "<dllname>" could not be loaded successfully.

Explanation: During the initialization of the event analyzer the dll could not be loaded because the dll has been deleted or removed.

User Response: Reinstall the event analyzer by selecting the performance monitor during the installation process.

DBA5514I The event files for event monitor "<evname>" could not be deleted.

Explanation: The event files for the event monitor could not be deleted because the files are being used by an active process or are read-only.

User Response: To delete the files, end the process that is using them and check the access authority for the files. Select the event monitor again and choose remove from the menu.

DBA5515W The database alias name or database name "<dbname>" could not be found.

Explanation: The alias name that was entered on the command line has not been cataloged on this machine.

User Response: Either catalog the alias on this machine and reenter the command or re-issue the command with a valid alias name.

DBA5516W Viewing the trace for this event monitor may take some time. Do you wish to continue processing?

Explanation: The user has requested to view a large trace for an event monitor. Reading the files could take some time to complete.

User Response: If you want to continue processing the trace click on OK. If you do not wish to continue processing the trace file then click on NO.

DBA5517E The event monitor could not be started due to a reason code of “<reason-code>”.

Explanation: The event monitor could not be started for the reason specified by “<reason-code>”:

1. The event monitor path is invalid.
2. The device, where the event monitor is to be started, is not ready.
3. Attachment to the admin server failed.

User Response: To start the event monitor, make sure that the event monitor path is valid, the admin server started, and the proper authorities exist on the device. Click on OK.

If the problem persists, manually create the event monitor directory on the device and click on OK.

To create the event monitor without starting it, deselect the Start now check box and click on OK.

DBA5518E The event monitor could not be started because its output directory could not be created.

Explanation: The directory could not be created for one of the following reasons.

1. Proper authorities do not exist for creating directories on the requested file system.
2. Create event monitor does not support directory creation on non-Intel platforms.
3. Cannot create a directory of greater than 8 characters on a FAT file system.

User Response: Make sure the proper authorities exist for directory creation.

On non-Intel platforms create the event monitor output directory manually.

DBA6001I The replication subscription set, “<subscription_set>”, is in use. Please try again later.

Explanation: The Apply program is currently processing the replication subscription and this action cannot be deactivated. Wait until the

Apply program has completed its processing and retry your command.

User Response: No action is required.

DBA6002I The replication source, “<source_name>”, was defined successfully. To begin capturing changes to the replication source, start the Capture program from the command line.

Explanation: The Capture program requires a defined replication source in order to run.

User Response: Make sure the Capture program is running.

DBA6003I The replication subscription was defined successfully. To begin replicating the subscription set, ensure that the Apply program has been started from the command line.

Explanation: The Apply program requires a defined replication source in order to run.

User Response: Make sure the Apply program is running.

DBA6004I The replication subscription was successfully changed.

Explanation: This is for your information only.

User Response: No action is required.

DBA6005I The replication sources were successfully removed.

Explanation: This is for your information only.

User Response: No action is required.

DBA6006I The replication source, “<source_name>”, could not be removed.

Explanation: This is for your information only.

User Response: No action is required.

DBA6007I **The replication subscription, “<subscription_name>”, could not be removed.**

Explanation: This is for your information only.

User Response: No action is required.

DBA6008I **The replication subscriptions were successfully removed.**

Explanation: This is for your information only.

User Response: No action is required.

DBA6009E **“<file_name>” is locked by another action.**

Explanation: The file is currently being used by another action.

User Response: Wait until the action is completed and retry your command.

DBA6010I **The join was successfully defined.**

Explanation: This message is for your information only.

User Response: No action is required.

DBA6012I **The replication source was defined successfully. To begin capturing changes to the replication source, ensure that the Capture program has been started from the command line.**

Explanation: The Capture program requires a defined replication source in order to run.

User Response: Make sure the Capture program is running.

DBA6013I **The replication subscription was successfully updated.**

Explanation: This message is for your information only.

User Response: No action is required.

DBA6014I **The replication subscription was successfully cloned.**

Explanation: This message is for your information only.

User Response: No action is required.

DBA6015I **The SQL statements for this action have been saved in a file for future editing and execution.**

Explanation: This message is for your information only.

User Response: No action is required.

DBA6016I **The SQL script file has been run successfully.**

Explanation: This message is for your information only.

User Response: No action is required.

DBA6100I **The Apply program will only perform full refresh copies to this set.**

Explanation: This message is for your information only.

User Response: No action is required.

DBA6101E **The table, “<table_name>”, cannot be found.**

Explanation: The control table specified could not be located in the database or was accidentally dropped.

User Response: Create the control table. See the Tables Chapter for more details.

DBA6102I **This action may take some time to complete. Please wait...**

Explanation: This message is for your information only.

User Response: No action is required.

DBA6103E The SQL file, "<file_name>", cannot be run.

Explanation: The user may have edited the SQL statement file for a replication action, such as defining a replication source, and there is an error in the SQL statement file.

User Response: Correct the error in the SQL statement file and run the file again.

DBA6104W No unique prefix character was found. The prefix character will be set to NULL.

Explanation: A prefix character is an alphabetical or numerical character used to distinguish before-image columns in the source table. If a prefix character cannot be assigned because all possible prefix characters are already in use, you will receive this warning. The change data table cannot be created.

User Response: Uncheck the before-image columns and rerun the action.

DBA6105E The field, "<field_name>", requires your input.

Explanation: The user has not filled in a required field.

User Response: Specify a parameter and select OK.

DBA6106E The replication action does not currently support this database system.

Explanation: The replication action must support your database system in order to run.

User Response: Contact your IBM Service representative.

DBA6107E Please enter a different value for the field, "<field_name>".

Explanation: When cloning a replication subscription, the **target server** and **Apply qualifier** fields must be different from the original **target server** and **Apply qualifier** fields.

User Response: Enter a different target server name or Apply qualifier and select OK.

DBA6108E The action cannot be completed due to a syntax error.

Explanation: The SQL statement contains a syntax error.

User Response: Check the SQL reference for the proper syntax. For subscription actions, check the where clause, the rows page, or the CREATE column. For define-join actions, check the CREATE VIEW statement.

DBA6109E SHOW COLUMNS action cannot be completed.

Explanation: The SHOW COLUMNS action requires that a table be selected.

User Response: Select a table from the Selected Table list box and then press the SHOW COLUMNS key.

DBA6110E The SQL file, "<file_name>", cannot be opened.

Explanation: The SQL file either does not exist, is in the wrong subdirectory, or is engaged in another process.

User Response: Make sure you enter the correct file name and that the file is in the correct subdirectory. If the file is engaged in another process, terminate the process and reenter the file name.

DBA6111E The file, "<file_name>", cannot be opened.

Explanation: The file either does not exist or is in the wrong subdirectory.

User Response: Make sure you enter the correct file name on the Replication page of the Tool Settings notebook.

DBA6112I **You have chosen to substitute user-defined values to define replication objects in the Tool Settings notebook. Please supply these values in the file "<file_name>".**

Explanation: This message is for your information only.

User Response: No action is required if you have already supplied user-defined values in the file.

DBA6113E **"<keyword>" is an invalid keyword in file "<file_name>".**

Explanation: The specified keyword is invalid and may be a typographical error.

User Response: Use the keywords as given in the default file "DPREPL.DFT".

DBA6114E **The value for keyword "<keyword>" cannot be found in file "<file_name>".**

Explanation: The value of this keyword is required for this action to complete.

User Response: Specify a value for this keyword in the file.

DBA6115E **None of the items in the column list were selected. This action cannot be completed.**

Explanation: At least one item in the column list must be selected for this action to complete.

User Response: Select one or more items from the column list and press **OK**.

DBA6116E **The value for keyword "<keyword>" is invalid in file "<file_name>".**

Explanation: The value of this keyword is either too long, an incorrect data type, or in an incorrect format.

User Response: Correct the value and invoke the action again.

DBA6117W **The before-image column "<column_list>" was truncated to "<number>" bytes because the length of the original column was at the database limit before being appended to the before-image prefix "<before_image_prefix>".**

Explanation: The length of the column from the original source table was at the database limit. When appended to the before-image prefix, some characters at the end of the column name were truncated to fit the database limit. This new before-image column name may no longer be unique because the truncated characters may be needed to guarantee a unique name.

User Response: Uncheck the before-image column when the truncated name is not unique and rerun the action.

DBA6118W **Datatypes "<datatype_list>" are not supported on the database "<database>". The datatypes will be converted to "<datatype_list>" in the SQL script.**

Explanation: Some datatypes from the source are not supported on the named database. However, equivalent datatypes could be found on the named database. The generated SQL statements will use the converted datatypes in place of the unsupported datatypes.

User Response: No action is necessary if the converted datatypes are acceptable. If they are not acceptable, uncheck the target columns and rerun the action.

DBA6119W **Datatypes "<datatype_list>" are not supported on the database "<database>". The columns containing these datatypes will be excluded from the SQL script.**

Explanation: Some datatypes from the source are not supported on the named database. No equivalent datatypes could be found on the

named database. The generated SQL statements will exclude any columns containing the unsupported datatypes.

User Response: Contact IBM service if you would like to recommend a specific datatype be supported on the named database in the future.

DBA6120W **The source table “<table_name>” was not defined with a primary key. Specify a primary key for the target table in the Target Columns page.**

Explanation: The define subscription action could not find a qualifying primary key for the source table, therefore the define subscription could not determine an appropriate primary key for the target table.

User Response: Specify a primary key for the target table in the Target Columns page of the Advanced notebook.

DBA6121W **An incompatible Java Runtime Environment has been detected. Please verify that the required level of the Java Runtime Environment has been installed.**

Explanation: The installed Java runtime is not supported by the DB2 Java application.

User Response: Refer to the Control Center readme.htm for information on prerequisite Java Runtime Environment levels.

Chapter 6. DBI Messages

This chapter contains the error messages which may be generated during installation and configuration of DB2 products.

DBI1001I Usage:

**db2icrt [-a AuthType]
[-p PortName]
[-s InstType]
-u FencedID InstName**

Explanation: An invalid argument was entered for the db2icrt command. Valid arguments for this command are:

-h|-? display the usage information.

-d turn debug mode on.

-a AuthType

is the authentication type (SERVER, CLIENT, DCS, DCE, SERVER_ENCRYPT, DCS_ENCRYPT, or DCE_SERVER_ENCRYPT) for the instance.

-p PortName

is the port name or port number to be used by this instance.

-s InstType

is the type of instance to be created (eee, ee, or client).

-u FencedID

is the name of the user under which fenced UDFs and fenced stored procedures will be run. This flag is not required if only DB2 CAE product is installed.

InstName

is the name of the instance.

User Response: For more information about this command, please refer to the “Quick Beginnings” manual for your platform. Enter the command again as follows:

db2icrt [-a AuthType]
-u FencedID InstName

DBI1003I Usage:

**dlfmcrct [-p PortName]
DLFMAAdmin**

Explanation: An invalid argument was entered for the dlfmcrct command. Valid arguments for this command are:

-h|-? display the usage information.

-p PortName is the port name or port number to be used by this instance.

DLFMAAdmin

is the name of the DB2 Data Links Manager Administrator.

User Response: Enter the command again as follows:

dlfmcrct DLFMAAdmin

DBI1005I Usage:

db2idrop InstName

Explanation: An incorrect argument was entered for the db2idrop command. Valid arguments for this command are:

-h|-? display the usage information

-d turn debug mode on.

InstName

is the name of the instance

User Response: Enter the command again as follows:

db2idrop InstName

DBI1006I Usage:**db2idrop [-f] InstName**

Explanation: An incorrect argument was entered for the db2idrop command. Valid arguments for this command are:

-h|-? display the usage information.

-d turn debug mode on.

-f is the force applications flag. If this flag is specified then all applications using the instance will be forced to terminate.

InstName

is the name of the instance.

User Response: Enter the command again as follows:

db2idrop [-f] InstName

DBI1007I Usage:**dlfmdrop DLFMAdmin**

Explanation: An invalid argument was entered for the dlfmdrop command. Valid arguments for this command are:

-h|-? display the usage information.

DLFMAdmin

is the name of the DB2 data Links Manager Administrator.

User Response: Enter the command again as follows:

dlfmdrop DLFMAdmin

DBI1011I Usage:**db2iupdt [-h|-?] [-d] [-k] [-s]
[-a AuthType]
[-u FencedID] InstName**

Explanation: An incorrect argument was entered for the db2iupdt command. Valid arguments for this command are:

-h|-? display the usage information

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-d turn debug mode on.

-k keep the current instance type during the update.

-s ignore existing SPM log directory

-a AuthType

is the authentication type (SERVER, CLIENT, DCS, DCE, SERVER_ENCRYPT, DCS_ENCRYPT, or DCE_SERVER_ENCRYPT) for the instance. The default is SERVER.

-u FencedID

is the name of the user under which fenced UDFs and fenced Stored Procedures will be run. This flag is not required if only DB2 CAE product is installed.

InstName

is the name of the instance.

User Response: Enter the command again with the proper options and arguments.

DBI1012I Usage:**db2iupdt [-f] -
u FencedID InstName**

Explanation: An incorrect argument was entered for the db2iupdt command. Valid arguments for this command are:

-h|-? display the usage information

-d turn debug mode on.

-f is the force applications flag. If this flag is specified then all applications using the instance will be forced to terminate.

-u FencedID

is the name of the user under which fenced UDFs and fenced Stored Procedures will be run. This flag is not required if only DB2 CAE product is installed.

InstName

is the name of the instance.

User Response: Enter the command again as follows:

```
db2iupdt [-f] -u FencedID InstName
```

DBI1013I Usage:

dlfmupdt [-h|-?] DLFMAdmin

Explanation: An invalid argument was entered for the dlfmupdt command. Valid arguments for this command are:

-h|-? display the usage information.

DLFMAdmin

is the name of the DB2 Data Links Manager Administrator.

User Response: Enter the command again as follows:

```
dlfmupdt [-h|-?] DLFMAdmin
```

DBI1015I Usage:

db2imigr [-a AuthType] -u FencedID InstName

Explanation: An incorrect argument was entered. Valid arguments for this command are:

-h|-? display the usage information

-d turn debug mode on.

-a AuthType

is the authentication type (SERVER, CLIENT, DCS, DCE, SERVER_ENCRYPT, DCS_ENCRYPT, or DCE_SERVER_ENCRYPT) for the instance.

-u FencedID

is the name of the user under which fenced UDFs and fenced Stored Procedures will be run. This flag is not required if only DB2 CAE product is installed.

InstName

is the name of the instance.

User Response: For more information about

this command, please refer to the “Quick Beginnings” manual for your platform. Enter the command again as follows:

```
db2imigr [-a AuthType]
-u FencedID InstName
```

DBI1016I Usage:

db2imigr [-f] [-a AuthType] -u FencedID InstName

Explanation: An incorrect argument was entered. Valid arguments for this command are:

-h|-? display the usage information

-d turn debug mode on.

-f is the force applications flag. If this flag is specified then all applications using the instance will be forced to terminate.

-a AuthType

is the authentication type (SERVER, CLIENT, DCS, DCE, SERVER_ENCRYPT, DCS_ENCRYPT, or DCE_SERVER_ENCRYPT) for the instance.

-u FencedID

is the name of the user under which fenced UDFs and fenced Stored Procedures will be run. This flag is not required if only DB2 CAE product is installed.

InstName

is the name of the instance.

User Response: For more information about this command, please refer to the “Quick Beginnings” manual for your platform. Enter the command again as follows:

```
db2imigr [-f] [-a AuthType]
-u FencedID InstName
```

DBI1018I Usage:

db2istop [-h|-?] [-d] [-f] InstName

Explanation: An incorrect argument was entered. Valid arguments for this command are:

- h|-?** display the usage information
- d** turn debug mode on.
- f** is the force applications flag. If this flag is specified then all applications using the instance will be forced to terminate.

InstName
is the name of the instance.

User Response: Enter the command again as follows:

```
db2istop [-h|-?] [-d] [-f] InstName
```

DBI1020I Usage:

db2setup [-h|-?] [-d] [-r RespFile]

Explanation: An incorrect argument was entered. Valid arguments for this command are:

- h|-?** display the usage information.
- d** turn debug mode on.
- r RespFile**
is the name of the response file which will be used to install DB2.

User Response: Enter the command again as follows:

```
db2setup [-h|-?] [-d] [-r RespFile]
```

DBI1021I Usage:

db2imigrev [-h|-?] [-m Version] InstName

Explanation: An incorrect argument was entered. Valid arguments for this command are:

- h|-?** display the usage information.
- d** turn debug mode on.
- m** specify DB2 version.

Version
is the version the instance will be migrated backward to.

InstName
is the name of the instance which will be migrated backward from version 6 to the previous version of DB2.

User Response: Enter the command again as follows:

```
db2imigrev [-h|-?] InstName
```

DBI1022I Usage:

db2imigrev [-h|-?] [-f] InstName

Explanation: An incorrect argument was entered. Valid arguments for this command are:

- h|-?** display the usage information
- d** turn debug mode on.
- f** is the force applications flag. If this flag is specified then all applications using the instance will be forced to terminate.

InstName
is the name of the instance which will be migrated backward from version 6 to a previous version of DB2.

User Response: Enter the command again as follows:

```
db2imigrev [-h|-?] [-f] InstName
```

DBI1023I Usage:

db2ginfo [-h|-?] [-y] [-c InstName] [-a AuthType] [-u FencedID]] OutputDir

Explanation: An invalid argument was entered for the db2ginfo command. Valid arguments for this command are:

- h|-?** display usage information.

-y executes script (only shows warning otherwise).

-c InstName
specify instance to test.

-a AuthType
specify authentication type (SERVER, CLIENT, DCS, DCE, SERVER_ENCRYPT, DCS_ENCRYPT, DCE_SERVER_ENCRYPT).

-u FencedID
specify fenced user ID.

OutputDir
is the directory where the output file, dbginfo.txt, will go.

User Response: Enter the command again as follows:

```
db2ginfo [-h|-?] [-y]
          [-c InstName [-a AuthType]
          [-u FencedID]] OutputDir
```

DBI1024I Usage:

db2iauto [-h|-?] -on|-off InstName

Explanation: An incorrect argument was entered. Valid arguments for this command are:

-h|-? display the usage information

-on|-off
enables or disables autostarting of an instance.

InstName
is the name of the instance.

User Response: Enter the command again as follows:

```
db2iauto [-h|-?] -on|-off InstName
```

DBI1025I Usage:

dasicrt DASName

Explanation: An invalid argument was entered

for the dasicrt command. Valid arguments for this command are:

-h|-? display the usage information.

DASName
is the name of the DB2 Administration Server.

User Response: Enter the command again as follows:

```
dasicrt DASName
```

DBI1026I Usage:

dlfmfsmd [-h|-?] [-j] dlfsMntPt

Explanation: An invalid argument was entered for the dlfmfsmd command. Valid arguments for this command are:

-h|-? display the usage information.

-j
modify the named filesystem from dlfs to jfs

dlfsMntPt
Mount Point for Data Links Manager
Filter file system (including the slash: /).

User Response: Enter the command again as follows:

```
dlfmfsmd dlfsMntPt
```

DBI1027I Usage:

dasidrop DASName

Explanation: An invalid argument was entered for the dasidrop command. Valid arguments for this command are:

-h|-? display the usage information.

DASName
is the name of the DB2 Administration Server.

User Response: Enter the command again as follows:

```
dasidrop DASName
```

DBI1028I Usage:

dasiupdt [-h|-?] DASName

Explanation: An invalid argument was entered for the dasiupdt command. Valid arguments for this command are:

-h|-? display the usage information.

DASName

is the name of the DB2 Administration Server.

User Response: Enter the command again as follows:

dasiupdt [-h|-?] DASName

DBI1029I Usage:

db2nqadm [start|stop]

Explanation: An invalid argument was entered for the db2nqadm command. Valid arguments for this command are:

start start all NetQ services and daemon
stop stop all NetQ services and daemon

You must specify one of the arguments.

User Response: Enter the command again with the proper argument.

DBI1030E Kernel parameter "<name>" must be set to "<value>".

Explanation: DB2 requires certain kernel parameters to be updated.

User Response:

- Update all necessary kernel parameters as documented in the "Quick Beginnings" manual for your platform.
 - Reboot the system
 - Try this command again
-

DBI1035E Failed to mount file system "<File-System>".

Explanation: An attempt to mount the specified file system has failed.

User Response: Verify that the file system is defined. Correct any errors from the mount command and try again.

DBI1036E Failed to unmount file system "<File-System>".

Explanation: An attempt to unmount the specified file system has failed.

User Response: Correct any errors from the umount command and try again.

DBI1037E File system "<File-System>" does not exist.

Explanation: The file system specified is not defined on this workstation.

User Response: Define the file system on the workstation and try again.

DBI1038E File system "<File-System>" cannot be modified.

User Response: Ensure that you have write permission to the system file that contains file system definition, and try again.

DBI1040I The translated version of following message is not available on this system.

User Response: The translated version of following message is not available on this system. Please refer to the "Installation.Notes" file in the PRODDIR/Readme/LOCALE directory, where PRODDIR is the product directory and LOCALE is the locale name. For example, the product directory is:

/usr/lpp/db2_06_01 on AIX
/opt/IBMDB2/V6.1 on Solaris, HP-UX
SCO UnixWare, SGI
/usr/IBMDB2/V6.1 on Linux

DBI1050E Unsupported operating system - “<OS-name>”, version “<OS-ver>”.

Explanation: Your current operating system is not supported or this version of the operating system is not supported. Refer to the “Quick Beginnings” manual for your platform.

DBI1051E You cannot execute this program as root.

Explanation: This program can only be run under a non-root user ID.

User Response: Login as an user ID other than root, and issue the command again.

DBI1052E You must be root to execute this program.

Explanation: This program can only be run under the root user ID. Special privileges are required to execute this program.

User Response: Login as root and issue the command again.

DBI1053E File system of type “<fsys-type>” is not supported.

Explanation: Creating the instance’s home directory on this type of file system is not supported. Instance’s home directory must exist either on a local file system or on a NFS mounted filesystem.

User Response: Change the home directory to a supported file system and recreate the instance.

DBI1055E The message file “<file-name>” cannot be found.

Explanation: The message file required by the instance commands is missing from the system; it may have been deleted or the database products may not be installed properly.

User Response: Verify that the product option containing the message file is installed correctly. If there are verification errors, reinstall the product option.

DBI1057E Required locale “<locale>” is not available.

Explanation: The required locale directory, /usr/lib/locale/LANG/LC_MESSAGES, does not exist, where LANG is the name of your current locale.

User Response: Verify that the specified locale has been installed correctly. Also check for the read and execute permissions are set correctly on that directory.

DBI1060E Invalid package name “<pkg-name>”.

Explanation: An incorrect name has been entered. The package either does not exist or the name has been entered incorrectly.

User Response: Check to see if the name of the given package exists on the distribution media. If so, examine the name to see if it has been misspelled. All package names should be in lower case.

DBI1061E A fileset or package name “<pkg-name>” is missing.

Explanation: An error occurred when verifying software pre-requisites. The above fileset or package must be installed before using this command.

User Response: Check to see if the name of the given package has been installed on your system.

DBI1062E A fileset or package name “<pkg-name>” is missing.

Explanation: The above fileset or package must be installed before using this command.

User Response: Install the fileset or package and then reissue this command.

DBI1063E PTF or patch “<patch-name>” is missing.

Explanation: The above PTF or patch must be installed before using this command. This PTF or

patch is required to complete this command successfully.

User Response: Install the required PTF or patch and enter this command again.

DBI1065E **Program “<program-name>” terminated prematurely.**

Explanation: An error has occurred during the execution and that has caused this program to terminate prematurely.

User Response: Correct the problem and try the command again.

DBI1066E **Program “<program-name>” terminated by request.**

Explanation: This program has been terminated by the user.

User Response: Issue the same command to restart the program.

DBI1067E **DB2 Product Library for locale “<locale-name>” is not installed.**

Explanation: No compressed-tar HTML files can be found in the DB2DIR/doc/“<locale-name>”/html directory, where

DB2DIR =
/usr/lpp/db2_06_01 on AIX
/opt/IBMDB2/V6.1 on HP-UX,
 Solaris,
 SCO UnixWare
/usr/IBMDB2/V6.1 on Linux

User Response: Install the DB2 Product Library for the required locale and issue this command again.

DBI1068E **There is not enough space to uncompress and un-tar all the HTML file in the directory “<dir-name>”.**

Explanation: After uncompress and un-tar, all the HTML files cannot be saved in the above directory because the filesystem is full.

User Response: Increase the size of the filesystem or free up sufficient disk space in the filesystem. Issue the command again.

DBI1069E **Unexpected error. Function = “<fname>”, Return code = “<return-code>”.**

Explanation: An unexpected error occurred during the execution of this program.

User Response: If the problem persists, contact IBM Support with the following information:

- Message number
- Function name
- Return code
- Problem description

DBI1070I **Program “<program-name>” completed successfully.**

DBI1072I **db2licm failed to update the nodelock file. Refer to the log file “<log-name>” for more information.**

Explanation: db2licm failed to add the license to the nodelock file, so DB2 will run with a Try-and-Buy license until a product license is installed.

User Response: Try the command again and if it continues to fail, manually add the license key to the nodelock file. Refer to the Quick Beginnings guide for more information on licensing.

DBI1079I **Output is saved in the log file “<log-name>”.**

Explanation: All processed and failed operations have been saved into this log file.

User Response: Do not modify this file in any way. This file is for IBM Technical Support reference.

DBI1080E **Disk full. Minimum space required in “<dir-name>” is “<KB>” KB, whereas only “<KB>” KB space is available.**

Explanation: There is not enough free space available in the file system or directory.

User Response: Free more disk space and retry the command.

DBI1081E **The file or directory “<file-name>” is missing.**

Explanation: A file or directory that is required to process this command is missing.

User Response: If the file belongs to one of the database products then verify that the product is installed correctly and reinstall the product if necessary. If the file belongs to an instance then the instance may have already been removed or it may be corrupted.

Check to see if the name of the given directory exists on your file system. If so, examine the name to see if it has been misspelled. Note that all file and directory names are case-sensitive on Unix.

DBI1082E **The file or directory “<file-name>” already exists.**

Explanation: A file or directory that the command needs to create already exists.

User Response: Examine the specified file or directory. If the file or directory exists as a result of a previous successful completion of the command then no action is required. Otherwise, you will need to either rename or remove the specified file or directory before trying the command again.

DBI1083E **An attempt to remove “<file-name>” failed.**

Explanation: An error occurred when removing the given file or directory. This may be due to an inappropriate ownership on this given file or directory.

User Response: Adjust the file permissions or ownership of the specified file or directory and then issue the command again.

DBI1084E **An attempt to create “<file-name>” failed.**

Explanation: An error occurred when creating the given file or directory.

User Response: Check that there is enough space in the file system and that you have write permission for the required directory. Suggested directory permissions are u=rwx,go=rx.

DBI1085E **An attempt to move the file or directory “<file-name>” to “<file-name>” failed.**

Explanation: An error occurred when attempting to relocate the given file or directory. The command could not be processed successfully.

User Response: Determine why the specified file or directory could not be moved and then try the command again.

DBI1086E **An attempt to copy the file or directory “<file-name>” to “<file-name>” failed.**

Explanation: An error occurred when attempting to duplicate the given file or directory. The command could not be processed successfully.

User Response: Determine why the specified file or directory could not be copied and then try the command again.

DBI1087E **An attempt to create the link “<filename>” failed.**

Explanation: The given link cannot be created. It could be that the write permission on its parent directory has been turned off, or that a file or directory with the same name already exists.

User Response: Check permissions for the parent directory and restart the install process.

Suggested directory permissions are
u=rwx,go=rx.

DBI1088E Invalid access permission detected for directory “<directory>”.

Explanation: There may be several reasons for this error. It is likely that one of the following situations has occurred:

- Either the given name is not a directory, or it does not have read and execute permission.
- The given directory can be created but cannot be accessed. It could be that the permissions on any of its parent directories in its path have been set incorrectly.

User Response: Check permissions for the given directory and restart the install process. Suggested directory permissions are u=rwx,go=rx.

DBI1089E Error in saving current instance related information in the “<backup-dir>” directory.

Explanation: There may be several reasons for this error. It is likely that one of the following situations has occurred:

- The given directory does not have sufficient permissions or does not have the write permission.
- There is no space left on the filesystem.

User Response: Take an appropriate corrective action and issue the command again.

DBI1090E An attempt to update “<parameter>” in “<file-name>” failed.

Explanation: An error occurred while updating the given file.

User Response: Verify that all occurrences of “<parameter>” are set to “<value>” in “<file-name>”.

DBI1091E An attempt to change permissions for “<directory>” failed.

Explanation: An error occurred when changing permissions on the given file or directory. This may be due to an inappropriate ownership on this file or directory.

User Response: Check permissions and ownership for the given directory and restart the install process. Suggested directory permissions are u=rwx,go=rx.

DBI1092E An attempt to change ownership for “<directory>” failed.

Explanation: An error occurred when changing ownership on the given file or directory. This may be due to an inappropriate ownership on this given file or directory.

User Response: Check ownership for the given directory and restart the install process.

DBI1093E An attempt to change group ownership for “<directory>” failed.

Explanation: An error occurred when changing group ownership on the given file or directory. This may be due to an inappropriate ownership on this file or directory.

User Response: Check ownership for the given directory and restart the install process.

DBI1094E Directory access error.

Explanation: The tool encountered an access error during an I/O operation with the directory server.

User Response: Ensure the directory server is on-line and accessible over the LAN.

DBI1095W The file or directory “<name>” cannot be found.

User Response: Verify that the fileset/package providing the file/directory has been installed.

DBI1096E The file or directory "<file-name>" already exists.

Explanation: A file or directory that the command needs to create already exists.

User Response: Examine the specified file or directory. If you no longer need this file or directory, remove it and then run the command again. Otherwise, you will need to either rename or remove the specified file or directory before trying the command again.

DBI1097E The file or directory "<file-name>" does not exist.

Explanation: A file or directory that the command requires does not exist.

User Response: If the file or directory does not exist, you may have to install the software that provides the file/directory. If the file or directory does exist, check to see that the PATH variable has been set properly. Once the file or directory is there in your PATH, try the command again.

**DBI1100E An instance lock is found.
Another instance management
command is running.**

Explanation: The command failed because another instance management command (eg. db2icrt, db2idrop, db2iupdt, or db2imigr) is running. The instance management commands acquire an exclusive lock to avoid conflicting simultaneous commands against the same instance.

User Response: Wait for all other occurrences of the instance commands to finish executing before trying the command again. If no other instance commands are running then delete the file "instance.lock" in one of the following directories:

 /var/db2/v61
or /var/opt/db2/v61

DBI1101E The instance name is invalid.

Explanation: Instance name must be the login name of an existing user and cannot:

1. be more than 8 characters long.
2. start with "sql", "ibm" or "sys".
3. start with a numeral or contain characters other than a-z, \$, #, @, _ or 0-9.

User Response: Try the command again with a valid instance name.

DBI1103E The Administration Server already exists.

Explanation: The system detects that the Administration Server has already been created on your system. You can only create one Administration Server on each system.

User Response: If you want to re-create the Administration Server, you have to drop the Administration Server first before re-creating it.

DBI1104E The Administration Server cannot be dropped.

Explanation: An attempt to drop the Administration Server failed. The system detects that the Administration Server does not exist or has been created under a different user ID.

User Response: Verify that the name of the Administration Server as reported by the "dasilist" command is correct and try again.

DBI1105E The DB2 Data Links Manager Administrator already exists.

Explanation: The system detects that the DB2 Data Links Manager Administrator has already been created on your system. You can only create one DB2 Data Links Manager Administrator on each system.

User Response: If you want to re-create the DB2 Data Links Manager Administrator, you have to drop the DB2 Data Links Manager Administrator first before re-creating it.

DBI1106E The DB2 Data Links Manager Administrator cannot be dropped.

Explanation: An attempt to drop the DB2 Data Links Manager Administrator failed. The system detects that the DB2 Data Links Manager Administrator does not exist or has been created under a different user ID.

User Response: Verify that the name of the DB2 Data Links Manager Administrator as reported by the “dlfmlist” command is correct and try again.

DBI1109E The kernel parameters must be updated before using this command.

Explanation: Some of the kernel parameters are not configured properly.

User Response:

- Update all necessary kernel parameters as documented in the “Quick Beginnings” manual for your platform.
- Reboot the system
- Try this command again

DBI1111E The FencedID parameter must be specified using -u flag with this command.

Explanation: The FencedID parameter must be specified with this command. The FencedID parameter is set to the name of the user under which fenced User Defined Functions (UDFs) and fenced Stored Procedures will be run.

User Response: Enter the command again adding the arguments “-u FencedID” where FencedID is the name of the user that you want your fenced UDFs or fenced Stored Procedures to run under.

For security reasons it is recommended that you do not use the instance name as the FencedID. However, if you are not planning to use fenced User Defined Functions (UDFs) or fenced Stored Procedures then setting the FencedID to the instance name may save you the step of having to create another user for the FencedID.

DBI1112E The FencedID parameter “<fenced-id>” is not valid.

Explanation: The FencedID parameter which specifies the user name under which fenced User Defined Functions and fenced Stored Procedures will be run:

- Must be the login name of an existing user.
- Cannot be set to the root or the bin user.

User Response: Try the command again with a valid FencedID parameter.

DBI1113W Previous value of FencedID parameter “<old-value>” is different. New value “<new-value>” is ignored.

Explanation: The FencedID parameter entered on the command line is different from the one used before for this userid. New value for this parameter is ignored.

DBI1115E Invalid AuthType parameter “<auth-type>” specified with -a flag.

Explanation: The AuthType parameter which specifies the authentication type used for the instance is not valid. Valid authentication types are:

- SERVER
- CLIENT
- DCS
- DCE
- SERVER_ENCRYPT
- DCS_ENCRYPT
- DCE_SERVER_ENCRYPT

User Response: Try the command again with a valid AuthType parameter.

DBI1120E Instance “<inst-name>” cannot be dropped.

Explanation: An attempt was made to drop an instance which may still be active.

DBI1121E Cannot drop the Administration Server using “db2idrop”.

Explanation: An attempt was made to drop the Administration Server using “db2idrop”. This operation is not allowed since it will cause the registry to be in an inconsistent state.

User Response: Use the “dasidrop” command to remove the Administration Server.

DBI1122E Instance “<inst-name>” cannot be updated.

Explanation: An attempt was made to update an instance. This instance cannot be updated because:

- This “db2iupdt” command cannot be used to update this instance.
- The instance is still active.

User Response: Ensure that you are using the correct version of the “db2iupdt” command. Also ensure that there are no db2 processes running at the instance. Retry the command.

DBI1123E Cannot update the Administration Server using “db2iupdt”.

Explanation: An attempt was made to update the Administration Server using “db2iupdt”. This operation is not allowed since it will cause the registry to be in an inconsistent state.

User Response: Use the “dasiupdt” command to update the Administration Server.

DBI1124E Instance “<inst-name>” cannot be migrated.

Explanation: An attempt was made to migrate an instance. This instance cannot be migrated because:

- The instance is still active.
- Migration of this instance is not supported
- This version of the “db2imigr” command cannot be used to migrate this instance.

User Response: Ensure that instance is ready for migration and you are using the correct

version of the “db2imigr” command. For more information on instance migration, please refer to the “Quick Beginnings” manual for your platform.

DBI1125E Cannot drop the DB2 Data Links Manager Administrator using “db2idrop”.

Explanation: An attempt was made to drop the DB2 Data Links Manager Administrator using “db2idrop”. This operation is not allowed since it will cause the registry to be in an inconsistent state.

User Response: Use the “dlfmdrop” command to remove the DB2 Data Links Manager Administrator.

DBI1126W One or more views may affect database migration.

Explanation: DB2 has detected some views that are dependent on database entity that has changed. This may cause database migration to fail. Please consult the Release.Notes for user response.

DBI1128E Cannot drop the Administration Server using “dlfmdrop”.

Explanation: An attempt was made to drop the Administration Server using “dlfmdrop”. This operation is not allowed since it will cause the registry to be in an inconsistent state.

User Response: Use the “dasidrop” command to remove the Administration Server.

DBI1129E Cannot update the Administration Server using “dlfmupdt”.

Explanation: An attempt was made to update the Administration Server using “dlfmupdt”. This operation is not allowed since it will cause the registry to be in an inconsistent state.

User Response: Use the “dasiupdt” command to update the Administration Server.

DBI1131E The user ID “<user-id>” is invalid.

Explanation: An attempt to access the given user ID failed. One of the following situations has occurred:

- This user ID does not exist on the system.
- The home directory of this user is not set up properly.
- One of the user attributes needed by DB2 is unset.

User Response: Make sure a valid user ID with valid home directory, shell, primary group and secondary group has been used. Create a new user if necessary.

DBI1135E The primary group “<group-name>” of user ID “<user-id>” is invalid.

Explanation: The primary group name of the instance user ID cannot:

1. be one of “guests”, “admins”, “users” or “local”.
2. start with “sql” or “ibm”.
3. start with a numeral or contain characters other than a-z, \$, #, @, or 0-9.

User Response: Change the primary group of the instance user ID to a group with a valid name and then try the command again.

DBI1145W An existing Sync Point Manager (SPM) log directory was found.

Explanation: An existing Sync Point Manager (SPM) log directory was found. This new version of the SPM cannot process the old version of the log. You must verify that there are no indoubt transactions prior to using this new version of the SPM.

User Response:

- If you are not concerned with indoubt transactions, you may continue with instance update by re-issuing the db2iupdt command

with the -s flag. This will create a copy of the sqllib/spmlog directory under sqllib/spmlog50.

- If you are concerned about the existence of indoubt transactions, you need to bring the DB2 product back to the previous version, and then follow the instructions in the product readme regarding indoubt transactions.
-

DBI1200E The directory “<directory-name>” is not a version “<version-number>” instance.

Explanation: The command cannot proceed because the specified directory does not point to the required version of the database products.

User Response: The command cannot be run with the specified instance.

DBI1202E Migration of instance “<inst-name>” is not supported.

Explanation: The instance cannot be migrated because:

1. Migration from this version of the instance is not supported.
2. The instance is already using the current version of the product and no migration is required.

User Response: Make sure that the instance is valid for migration and then try the command again with a valid instance name.

DBI1205E One or more local databases have been detected that cannot be migrated to the newest version. Check the logfile “<logfile-name>” for the list of errors.

Explanation: Possible errors on the database are:

- Backup pending
- Roll-forward pending
- Database inconsistent
- One or more tablespace is not in normal state

- Database contains database objects that have a schema name of SYSCAT, SYSSTAT or SYSFUN
- Database contains database objects that have a dependency on the SYSFUN.DIFFERENCES function. Possible violated objects are:
 - constraint
 - function
 - trigger
 - view

User Response: Take the following corrective action for each database from the file “<logfile-name>” :

- Backup pending - Perform backup of the database.
- Roll-forward pending - Perform a roll-forward database to end of logs and stop.
- database inconsistent - Restart database to return it to a consistent state.
- Tablespace not in normal state - Perform a roll-forward database.
- Invalid schema - Drop the object and re-create the object with a correct schema name (qualifier). If the object is a table you should first export its data, drop the table, re-create the table with a correct schema name, and then import or load the data to the new table.
- Object having SYSFUN.DIFFERENCES dependency -
 - Constraint - alter table to drop the constraint
 - Function - drop the function
 - Trigger - drop the trigger
 - View - drop the view

DBI1211E Migration of the “<directory-name>” failed.

Explanation: A system error such as running out of disk space or memory has been encountered during the migration of the directory. Instance migration failed.

User Response: Make sure there is sufficient disk space and memory before trying the command again.

DBI1212W Migration of the local database directory on “<path>” failed.

Explanation: The process of migrating local database directory is not complete because of an unexpected error occurred.

User Response: An error file “db2mgdbd.err” and a local database directory backup “sqlbdir/sqlddir.bak” are created in the directory path mentioned above.

Keep these two files and contact IBM service for instruction of possible ways to repair your directory. Without the local database directory, databases that are catalogued in the local database directory will no longer be accessible.

DBI1220W Migration of the node directory on “<path>” failed.

Explanation: The process of migrating node directory is not complete because of an unexpected error occurred.

User Response: Two options to recover:

1. Remove node directry and re-catalog node entry.
2. An error file “db2mgndd.err” and a node directory backup “sqlnodir/sqlnddir.bak” are created in the directory path mentioned above.

Keep these two files and contact IBM service for instruction of possible ways to repair your directory. Contact IBM services to recover your node directory.

DBI1221W The node directory is corrupted and cannot be migrated.

Explanation: Either the node directory files are not the same or the node directory file is corrupted.

User Response: Remove node directry and re-catalog node entry.

DBI1222W The system database directory is corrupted and cannot be migrated.

Explanation: Either the primary and backup system database directory files are not the same or system database directory is corrupted.

User Response: Remove system database directory and re-catalog all database entry.

DBI1223W The local database directory is corrupted and cannot be migrated.

Explanation: Either the primary and backup database directory files are not the same or the local database directory file is corrupted.

User Response: An error file “db2mgdbd.err” and a local database directory backup “sqlbdir/sqlddir.bak” are created in the directory path mentioned above.

Keep these two files and contact IBM service for instruction of possible ways to repair your directory. Without the local database directory, databases that are catalogued in the local database directory will no longer be accessible.

DBI1225W The authentication type of a catalogued local database has been changed.

Explanation: One or more catalogued database entries were detected that have an authentication type that is different from the authentication type that was specified for the instance. If no action is taken then all catalogued local database entries will assume the authentication type of the instance they belong to.

User Response: Check the file migration.log in the home directory of the instance for a list of the catalogued local database entries that are not the same as the authentication specified for the instance. If you want the database to maintain it's previous authentication type then you can either change the authentication type of the instance or you can move the database to another instance that has the desired authentication type. Before changing the authentication type of the instance, however, you should make sure that you want all the

catalogued local database entries to have the new authentication type.

DBI1240E The database manager could not be started.

Explanation: The database manager could not be started when attempting to check if catalogued local databases can be migrated.

User Response: Resolve why the database manager could not be started and then try the command again.

DBI1250E Applications are still using instance “<instance-name>”.

Explanation: There are applications that are still running that are using the specified instance. All applications using this instance must be terminated before the command can be completed successfully. You can get a list of the applications that are currently using the instance by issuing the command:

db2 list applications

User Response: You can either wait for the applications to end by themselves, or you can explicitly force the applications to end. You can logon as the instance owner and run the command

db2 force application all

Note that some applications may have unexpected behaviour when terminated using the above command. After all the applications have stopped, stop the database manager using “db2istop” command.

DBI1260E Cannot read from response file.

Explanation: An attempt was made to read from the given response file failed. Ensure that the response file has read access permission and the given path to the response file is correct.

User Response: Correct the access permission and the location of the response file and try again.

DBI1261E The value is not valid for the keyword.

Explanation: The value specified in the response file is not valid for its corresponding keyword. Refer to the sample response file for a list of valid entries.

User Response: Correct the problem in the following line of the response file and try again.

DBI1262E Unknown keyword detected in the response file.

Explanation: The given keyword in the response file is not valid. Refer to the sample response file for a list of valid keywords.

User Response: Correct the problem in the following line of the response file and try again.

DBI1264E Errors were encountered in running "<program-name>". Please refer to the installation log file "<log-name>" for more information.

Explanation: All processed and failed operations have been saved into this log file.

User Response: Do not modify this file in any way. This file is for IBM Technical Support reference.

DBI1266I Refer to the log file "<log-name>" for more information.

Explanation: All processed and failed operations have been saved into this log file.

User Response: Do not modify this file in any way. This file is for IBM Technical Support reference.

DBI1268E The fileset "<fileset>" is not available on the installation media.

Explanation: One of the filesets to be installed is not found on the installation media. If the fileset is not located on the installation media then it cannot be installed.

User Response: Ensure that the fileset is located on the installation media. If the fileset is not located on the installation media de-select it and try again.

DBI1270E Error detected in the response file.

Explanation: An error has been detected when processing the response file. Install cannot be continued unless the problem has been corrected.

User Response: Correct the problem in the following line of the response file and try again.

DBI1278W Warning issued from the response file.

Explanation: A warning has been raised when processing the response file. DB2 Installer will carry on without stopping.

User Response: If required, correct the problem in the following line of the response file and try again.

DBI1279I Notice issued from the response file.

Explanation: A notice has been issued when processing the response file. DB2 Installer will carry on without stopping.

User Response: This is for your information only. No action is required.

DBI1281E The database manager configuration file could not be initialized.

Explanation: An error occurred when attempting to initialize the database manager configuration file. A DB2 Version 6 instance could not be created or migrated.

User Response: Refer to the log file for problem determination. Resolve the problem and try the command again. If the problem persists, please contact IBM Support.

DBI1282E The database manager configuration files could not be merged.

Explanation: An error was detected when attempting to merge two database manager configuration files. The previous database manager configuration file could not be merged with the new database manager configuration file.

User Response: Check the values in the new database manager configuration file and update the parameters as required.

DBI1283E Unable to update the communication information for “<instance>”.

Explanation: The SVCENAME parameter and/or the DB2COMM registry values could not be updated during instance creation.

User Response: Make sure that the SVCENAME parameter is set to “<profile-name>” in the database manager configuration file and update using

```
db2 update dbm cfg using
    SVCENAME “<profile-name>”
```

Also update the DB2COMM variable to tcpip by running

```
db2set DB2COMM=tcpip
```

DBI1290E An attempt to create the profile registry “<profile-name>” failed.

Explanation: An error occurred when creating the profile registry. One of the following situations occurred:

- Incorrect access permission on the file containing the profile registry.
- Profile registry is not set up properly.
- There is not enough space on your file system.

User Response: Check the file permissions on the instance list profile in one of the following directories:

```
    /var/db2/v61
or   /var/opt/db2/v61
```

DBI1291E The instance “<instance-name>” was not found in the instance list.

Explanation: The specified instance was not found in the instance list.

User Response: Verify that the list of instances as reported by the “db2ilist” command is correct. Retry the command with a valid instance name.

DBI1292E The instance “<instance-name>” is already in the instance list.

Explanation: The instance that is being created or migrated is already in the instance list.

User Response: Use a different instance name that is not part of the instance list as reported by the “db2iset -l” command.

DBI1293E There is no DB2 Query Patroller Server set up on this system.

User Response: If DB2 Query Patroller was not installed via the DB2 Installer, please use the Installer to properly set up an instance for use with the DB2 Query Patroller Server. If one has been set up, then verify that it is recorded in the default.env file, and that the file is world readable. default.env can be found in

```
    /var/db2/v61
or   /var/opt/db2/v61
```

DBI1295E The instance list could not be updated.

Explanation: The instance could not be added to or removed from the instance list. An error has occurred when adding or removing the instance from the instance list. One of the following situations occurred:

- Incorrect access permission on the registry profile.
- Profile registry is not set up properly.
- There is not enough space on your file system.

User Response: Check the file permissions on the instance list profile in one of the following directories:

```

/var/db2/v61
or /var/opt/db2/v61

```

DBI1297E **The instance profile “<profile-name>” could not be updated.**

Explanation: An error occurred when updating the instance profile registry. One of the following situations occurred:

- Incorrect access permissions on the instance profile registry.
- Profile registry is not set up properly.
- There is not enough space on your file system.

User Response: Check the file permissions on the instance list profile in one of the following directories:

```

/var/db2/v61
or /var/opt/db2/v61

```

DBI1300N **db2set displays, sets, or removes DB2 profile variables.**

```

db2set [[[variable={value}]
        [-g|-i instance[
        node-number]]]
        [-all] [-null]
        [-r instance[node-number]]
        [-n DAS node[
        -u user[-p password]]]
        [-l|-lr] [-v] [-ul|-ur]
        [-?|-h]

```

Explanation: The command options are:

- g** Access the global profile variables.
- i** Specifies the instance profile to use instead of the current or default.
- n** Specifies the remote DB2 Administration Server node name.
- u** Specifies the user ID to use for the Administration Server attachment.

- ul** Access the user profile variables
- ur** Refreshes user profile variables
- p** Specifies the password to use for the admin server attachment.
- r** Resets the profile registry for the given instance
- l** Lists all instance profiles.
- lr** Lists all supported registry variables.
- v** Verbose mode.
- ?** Displays the command help message.
- h** Same as -? option.
- all** Displays all occurrences of the local environment variables as defined in:
 - The environment, denoted by [e]
 - The user level registry, denoted by [u]
 - The node level registry, denoted by [n]
 - The instance level registry, denoted by [i] and
 - The global level registry, denoted by [g]
- null** Sets the variables value to null at the specified registry level to prevent looking up the value in the next registry level as defined in the variable value search order.

Notes:

- db2set with no variable name displays all defined variables.
- db2set <variable> displays <variable>’s value.
- db2set <variable>= (nothing) deletes the <variable>.
- db2set <variable>=<value> modifies the <variable>’s value.
- db2set <variable> -null sets <variable>’s value to NULL.
- db2set <variable> -all displays all defined <variable>’s values.
- db2set -ur refreshes the current user profile.

- db2set <variable> -ul displays defined <variables> at the user level.
- db2set -all displays all defined variables in all registry levels.

DBI1302E Invalid parameter detected.

Explanation: An invalid parameter was used.

User Response: Use the -? option for the usage help message.

DBI1303W Variable not set.

Explanation: The variable was not set in the profile registry.

User Response: No further action is required.

DBI1304E Unexpected error.

Explanation: The tool encountered an unexpected system error.

User Response: Contact your DB2 service representative.

DBI1305E The profile registry was not found.

Explanation: The target machine does not have a profile registry setup.

User Response: Create the registry on the target machine by installing DB2.

DBI1306N The instance profile is not defined.

Explanation: The instance is not defined in the target machine registry.

User Response: Specify an existing instance name or create the required instance.

DBI1307N The instance node profile is not defined.

Explanation: The instance node is not defined in the target machine registry.

User Response: Create the registry by installing

the required DB2 product parts.

DBI1308E Out of memory condition encountered.

Explanation: The tool encountered an “out of memory resource” error.

User Response: System is low on memory resources. Terminate non-essential applications or try again later.

DBI1309E System error.

Explanation: The tool encountered an operating system error.

User Response: A system error was encountered during registry access. Ensure that there is enough space on the file system where the registry is located, and that there is a valid LAN connection if the registry is remote.

DBI1310E Remote registry access is not supported.

Explanation: The tool does not support the remote registry option.

User Response: Consult the Command Reference on how to access the registry remotely.

DBI1311I Listing registry instance profiles...

DBI1312I Listing defined global variables...

DBI1313I Listing defined instance variables...

DBI1314I Listing all supported registry variables...

DBI1315W Unknown message!

DBI1316E Instance is not MPP.

Explanation: The target instance is not a DB2 MPP instance.

User Response: Choose an MPP instance.

DBI1317E Instance node already exists.

Explanation: A duplicate instance node already exists.

User Response: Choose a different instance node.

DBI1320W WARNING:

Explanation: This script is used to gather information useful to IBM Support to debug the problems you may be experiencing. This information may be of a sensitive nature. You may wish to edit the output file, db2ginfo.txt, before sending it to IBM Support.

User Response: To signal your awareness and acceptance of the above warning, run this script with the -y flag specified.

DBI1350I Usage:

```
dqpsetup -D DbName
          -g NodeGroup
          -n NodeNum
          -t TblSpcName
          -r RsltTblSpcName
          -l TblSpcPath
          [-s SizeDMS]
          [-o]
          [-h|-?] InstName
```

Explanation: An incorrect argument was entered. Valid arguments for this command are:

DbName

name of the database to be used with the DB2 Query Patroller server

NodeGroup

name of the nodegroup that contains the TableSpace for the DB2 Query Patroller server

NodeNum

Node number of a single node where the nodegroup is defined on

TblSpcName

name of the DB2 Query Patroller table space. The default type is a SMS table space.

RsltTblSpcName

name of the Result Table Space to be used

TblSpcPath

full pathname of the tablespace

-s SizeDMS

size of the DMS tablespace. Use the -s flag to specify the size for the DMS tablespace

-o

overwrites any existing IWM schema objects

InstName

Name of the Query Patroller Server instance

-h|-? display the usage information

User Response: Re-enter the command with the proper syntax.

DBI1351E You must be the instance owner to run this command.

Explanation: To run this command, you must be the DB2 Query Patroller Server instance owner.

User Response: Verify that the DB2 Query Patroller Server instance is correctly recorded in the file default.env. Log in as the DB2 Query Patroller Server instance owner and issue the command again. default.env can be found in

```
          /var/db2/v61
or         /var/opt/db2/v61
```

DBI1352E The instance "<instance-name>" is not an EEE instance.

Explanation: DB2 Query Patroller Server/Agent must be created on an EEE instance.

User Response: Run this command again using a valid EEE instance name, or you may create and set up a new EEE instance first before

running this command again.

DBI1353E DB2 Query Patroller Server has been set up on an instance already.

Explanation: DB2 Query Patroller Server can be set up on one DB2 UDB EEE instance only.

User Response: Run the command dqplist to find out the named of the EEE instance being used as the DB2 Query Patroller Server. If the instance name is correct then there is no need to run dqpcrt to set up a server. For setting up an agent you need to use the correct instance name. If this instance is no longer being used for that purpose, run the command

dqpdrop inst_name

to remove it. Then re-run the dqpcrt command again.

DBI1354E The instance "<instance-name>" is not an DB2 Query Patroller Server instance.

User Response: Use dqplist to find out the proper server instance name and re-run the command again.

DBI1355I Usage:

**dqpcrt [-h|-?] <-s|-a>
-p PortName InstName**

Explanation: An incorrect argument was entered. Valid arguments for this command are:

PortName

Port name to be used with the DB2 Query Patroller Server / Agent

InstaName

name of an EEE instance that is to be designated as an DB2 Query Patroller Server instance

-s Creating a DB2 Query Patroller Server on the named instance

-a Creating a DB2 Query Patroller Agent on the named instance

-h|-? display the usage information

You must specify either -s or -a, but you cannot specify both.

User Response: Re-enter the command with the proper syntax.

DBI1356I Usage:

dqplist [-h|-?]

Explanation: An incorrect argument was entered. Valid arguments for this command are:

-h|-? display the usage information

User Response: Re-enter the command with the proper syntax.

DBI1357I Usage:

dqpdrop [-h|-?] InstName

Explanation: An incorrect argument was entered. Valid arguments for this command are:

InstaName

name of the EEE instance that you wish to remove the DB2 Query Patroller Server from

-h|-? display the usage information

This command can only be issued on the node where the DB2 Query Patroller Server was created.

User Response: Re-enter the command with the proper syntax.

DBI1358W Failed to modify the DB2 Query Patroller profile files.

Explanation: An attempt to update the dqpprofile and/or dqpcshrc files have failed. Possible causes can be

- These files do not exist in the sqllib directory under the instance home directory.

- There is no write permission on these files.
- Failure to create a temporary file in /tmp directory.

User Response: Check the existence and permission on these files. Verify that you can write to /tmp. Issue the command again.

DBI1359E Unable to remove the DB2 Query Patroller Server from instance “<instance-name>”.

Explanation: An attempt to remove the DB2 Query Patroller Server from the named instance has failed.

User Response: Manually remove the file sqllib/cfg/dqplevel from the instance owner’s home directory. Also edit the file default.env and remove the DQPSEVER line from this file. default.env can be found in

```

/var/db2/v61
or /var/opt/db2/v61

```

DBI1360E Unable to complete DB2 Query Patroller set up.

Explanation: An attempt to set up the DB2 Query Patroller Server has failed. Possible cause include:

- Failed to create a database for the DB2 Query Patroller Server
- Failed to create a nodegroup on the specified node
- Failed to create a tablespace in the nodegroup

User Response: If the database or the nodegroup creation failed, try to create them manually and re-run the command.

If it failed at creating the table space, check to see that you have write permission to the path you have designated. Try to create the tablespace manually.

DBI1361E DB2 Query Patroller Server code has not been installed.

Explanation: The DB2 Query Patroller Server code has not been installed, and is required for

the current operation to complete.

User Response: Install the DB2 Query Patroller Server code, and try the command again.

DBI1362W IWM schema objects have been detected.

Explanation: DB2 has detected IWM schema objects, possibly from a previous install of IWM.

User Response: If you wish to keep the existing IWM schema objects, there is nothing to do. If you wish to remove them and re-create new ones, re-issue the dqsetup command with the -o flag.

DBI1363E Failed to create IWM schema objects.

Explanation: An attempt to create the IWM schema objects has failed.

User Response: Verify that the files db2_qp_schema and iwm_schema.sql are both in the directory /usr/lpp/db2_06_01/bin.

If both files exist, then the output of the IWM schema creation procedure can be found in /tmp/iwmschr.log. Correct any error and re-run the dqsetup command again.

DBI1365E Node number is not defined.

Explanation: The node number is not defined in the db2nodes.cfg.

User Response: Examine the db2nodes.cfg file and make sure the entry you want is there. Enter the command again using the correct node number exactly as recorded in the db2nodes.cfg file.

DBI1366E The container “<sms_path>” is already in use.

Explanation: The directory named as a container for the tablespace already exists.

User Response: Run the command again using a different path for the container for the tablespace.

DBI1367E Failed to bind the files listed in “<bind_list>”.

Explanation: There was a problem binding the bind files listed in named file(s).

User Response: Perform the binding manually.

DBI1370W Unable to modify the .profile or the .login file of user “<inst-name>”.

Explanation: DB2 has failed to modify the .profile file or the .login file of this user. These files may not exist, or you may not have write permission to them. Without the modification you need to set your environment manually each time when you log in as this user to use DB2 Query Patroller.

User Response: See the Quick Beginning Guide for more details on how to set the DB2 environment automatically.

DBI1400N The syntax of the db2licm command is incorrect.

Explanation: The db2licm tool performs basic license functions in the absence of the Control Center. It Adds, removes, lists, and modifies licenses installed on the local system:

```
db2licm [/a:filename]
        [/e:HARD | SOFT]
        [/p:prod-password,
        REGISTER | CONCURRENT]
        [/r:prod-password]
        [/u:prod-password, num-users]
        [/l]
        [/v]
        [/?]
```

The command options are:

- /a** Adds a license for a product. Specify a file name containing valid license information.
- /e** Updates the enforcement policy on the system. Valid values are: HARD and SOFT. HARD specifies that unlicensed requests will not be allowed. SOFT

specifies that unlicensed requests will be logged but not restricted.

- /l** Lists all the products with available license information.
- /p** Updates the license policy type to use on the system. The keywords CONCURRENT, REGISTERED, or both can be specified
- /r** Removes the license for a product. After the license is removed, the product functions in “Try & Buy” mode. To get the password for a specific product, invoke the command with the -l option.
- /u** Updates the number of user entitlements that the customer has purchased. Specify the number of users, and the password of the product for which the licenses were purchased.
- /v** Displays version information.
- /?** Displays help information. When this option is specified, all other options are ignored, and only the help information is displayed.

User Response: Enter the command again using the valid parameters.

DBI1401I Comand line License Manager.

Explanation: The db2licm tool performs basic license functions in the absence of the Control Center. It Adds, removes, lists, and modifies licenses installed on the local system:

```
db2licm [/a:filename]
        [/e:HARD | SOFT]
        [/p:prod-password,
        REGISTER | CONCURRENT]
        [/r:prod-password]
        [/u:prod-password, num-users]
        [/l]
        [/v]
        [/?]
```

The command options are:

/a	Adds a license for a product. Specify a file name containing valid license information.
/e	Updates the enforcement policy on the system. Valid values are: HARD and SOFT. HARD specifies that unlicensed requests will not be allowed. SOFT specifies that unlicensed requests will be logged but not restricted.
/l	Lists all the products with available license information.
/p	Updates the license policy type to use on the system. The keywords CONCURRENT, REGISTERED, or both can be specified.
/r	Removes the license for a product. After the license is removed, the product functions in "Try & Buy" mode. To get the password for a specific product, invoke the command with the -l option.
/u	Updates the number of user entitlements that the customer has purchased. Specify the number of users, and the password of the product for which the licenses were purchased.
/v	Displays version information.
/?	Displays help information. When this option is specified, all other options are ignored, and only the help information is displayed.

DBI1402I License added successfully.

DBI1403I License removed successfully.

DBI1404N Product password not found.

Explanation: A license for this product was not found in the nodelock file.

User Response: Issue this command with the -l option to check that the product password that was entered is the correct product password for the product you want to perform this action on.

DBI1405I License policy type updated successfully.

DBI1406N Invalid license policy type.

Explanation: The license policy type that was entered was not valid for the product specified.

User Response: Please enter a valid license policy. Options are:

- CONCURRENT
- REGISTERED

DBI1407N Invalid license certificate file.

Explanation: License certificate file is not in the correct format.

User Response: Enter the name of a file with the correct license certificate format.

DBI1408N The file "<file-name>" could not be opened.

Explanation: The file is not found or access to the file is denied.

User Response: Enter the name of a file that exists and can be opened and try the command again.

DBI1409N Invalid enforcement policy type.

Explanation: The enforcement policy type specified is not valid for this product.

User Response: Please enter a valid enforcement policy type that is supported by the specified product.

DBI1410I Concurrent users updated successfully.

DBI1411I Enforcement policy type updated successfully.

DBI1412W **A hard stop enforcement policy stops the use of the product by unlicensed users when licensing infractions have been exceeded.**

DBI1413W **A soft stop enforcement policy logs license infractions, but allows unlicensed users to still use the product.**

DBI1414N **The syntax of the db2licm command is incorrect.**

Explanation: The db2licm tool performs basic license functions in the absence of the Control Center. It Adds, removes, lists, and modifies licenses installed on the local system:

```
db2licm [-a:filename]
        [-e:HARD | SOFT]
        [-p:prod-password,
        REGISTER | CONCURRENT]
        [-r:prod-password]
        [-u:prod-password, num-users]
        [-l]
        [-v]
        [-?]
```

The command options are:

- a** Adds a license for a product. Specify a file name containing valid license information.
- e** Updates the enforcement policy on the system. Valid values are: HARD and SOFT. HARD specifies that unlicensed requests will not be allowed. SOFT specifies that unlicensed requests will be logged but not restricted.
- l** Lists all the products with available license information.
- p** Updates the license policy type to use on the system. The keywords CONCURRENT, REGISTERED, or both can be specified
- r** Removes the license for a product. After the license is removed, the product

functions in "Try & Buy" mode. To get the password for a specific product, invoke the command with the -l option.

- u** Updates the number of user entitlements that the customer has purchased. Specify the number of users, and the password of the product for which the licenses were purchased.
- v** Displays version information.
- ?** Displays help information. When this option is specified, all other options are ignored, and only the help information is displayed.

User Response: Enter the command again using the valid parameters.

DBI1415I Command line License Manager

Explanation: The db2licm tool performs basic license functions in the absence of the Control Center. It Adds, removes, lists, and modifies licenses installed on the local system:

```
db2licm [-a:filename]
        [-e:HARD | SOFT]
        [-p:prod-password,
        REGISTER | CONCURRENT]
        [-r:prod-password]
        [-u:prod-password, num-users]
        [-l]
        [-v]
        [-?]
```

The command options are:

- a** Adds a license for a product. Specify a file name containing valid license information.
- e** Updates the enforcement policy on the system. Valid values are: HARD and SOFT. HARD specifies that unlicensed requests will not be allowed. SOFT specifies that unlicensed requests will be logged but not restricted.
- l** Lists all the products with available license information.
- p** Updates the license policy type to use

on the system. The keywords CONCURRENT, REGISTERED, or both can be specified

- r** Removes the license for a product. After the license is removed, the product functions in "Try & Buy" mode. To get the password for a specific product, invoke the command with the **-l** option.
- u** Updates the number of user entitlements that the customer has purchased. Specify the number of users, and the password of the product for which the licenses were purchased.
- v** Displays version information.
- ?** Displays help information. When this option is specified, all other options are ignored, and only the help information is displayed.

DBI1500I Usage:

db2inst [-f <response-file>]

Explanation: An incorrect argument was entered. The command accepts an optional flag **-f** which is followed by the path of the "DB2 Installer" response file.

User Response: Re-enter the command with a valid argument.

DBI1501E An internal error was encountered.

Explanation: An error was detected while performing an internal operation.

User Response: Verify that the file system on which the file resides is not damaged. If the problem persists, contact IBM Support with the following information:

1. Message number
2. Internal error message description
3. Problem description

DBI1502E An error was encountered when opening or reading from file, "<file-name>".

Explanation: An error was encountered when opening or reading from a file. One of the following errors occurred:

- An I/O error occurred opening or reading from the file.
- An expected value was not found in the file.
- The order of the data in the file is incorrect.

User Response: If the file was modified by the user, verify that the data in the file is valid. If the file was not modified by the user, contact IBM Support with the following information:

1. Message number
2. Message description
3. Problem description

DBI1503E An error was encountered when opening or writing to file, "<file-name>".

Explanation: An error was encountered when writing data to a file. One of the following errors occurred:

- Incorrect access permissions on a given directory.
- There is not enough space on your file system.

User Response: Check to see if the permissions on the file's parent directory have been set correctly. If the problem persists, contact IBM Support with the following information:

1. Message number
2. Message description
3. Problem description

DBI1504E An error occurred opening message files.

Explanation: An attempt to open and read from "DB2 Installer" message catalog files failed. Before DB2 Installer starts up, it looks for two resource files -- db2inst.rcx and db2inst.cat in the following locations:

- DB2 product directory, or

- on the distribution media, or
- environment variables DB2IRCX and DB2ICAT.

User Response: Set the environment variables DB2IRCX and DB2ICAT to the absolute location of db2inst.rcx and db2inst.cat respectively.

DBI1505E An attempt to allocate memory failed.

Explanation: An error was detected when attempting to allocate memory.

User Response: Terminate other applications running on the system that may be using large amounts of memory. If the problem persists, contact IBM Support with the following information:

1. Message number
2. Message description
3. Problem description

DBI1507E An instance of the DB2 Installer is already started.

Explanation: An error was detected when attempting to start up the DB2 Installer. Another instance of the DB2 Installer is still running.

User Response: Terminate all instances of the DB2 Installer and restart the install process. If the problem persists, remove the lock file /tmp/.db2inst.lck and restart the DB2 Installer.

DBI1515E An attempt to allocate resource for a subprocess failed.

Explanation: An error was detected when attempting to startup a subprocess.

User Response: Terminate other applications running on the system that may be using large amounts of resources. If the problem persists, contact IBM Support with the following information:

1. Message number
2. Problem description

DBI1516E An attempt to terminate a subprocess failed.

Explanation: An error was detected when attempting to terminate a subprocess.

User Response: Terminate other applications running on the system that may be using large amounts of resources. If the problem persists, contact IBM Support with the following information:

1. Message number
2. Problem description

DBI1517E An attempt to execute a command in a subprocess failed.

Explanation: An error was detected when attempting to execute a command in a subprocess. One of the following problems occurred:

- The command does not exist.
- Incomplete command search path.
- Incorrect access permissions on the command.
- System resource problem.

User Response: Correct the problem and try again. If the problem persists, contact IBM Support with the following information:

1. Message number
2. Problem description

DBI1520E Minimum terminal display size is 24 x 80.

Explanation: Your current terminal or window size is not large enough. This program requires a minimum terminal display size of 24 lines by 80 columns.

User Response: Check your terminal or window size and try again.

DBI1521E An attempt to read in the terminal capability information failed.

Explanation: An error was detected when attempting to initialize your terminal display.

There are two conditions where this type of error would occur:

- The function cannot find the environment variable TERM or it is unable to find the correct terminfo database entry for the terminal.
- There is not enough memory space available when initializing your terminal display.

User Response: Set your environment variable TERM to a correct terminal type. If the problem persists, try to terminate other applications running on the system that may be using large amounts of memory. If the problem still occurs, contact IBM Support with the following information:

1. Message number
2. Problem description

DBI1522E An attempt to restore the terminal capability information failed.

Explanation: An error was detected when attempting to restore your terminal display to the original state.

User Response: Set your environment variable TERM to a correct terminal type. If the problem persists, try to terminate other applications running on the system that may be using large amounts of memory. If the problem still occurs, contact IBM Support with the following information:

1. Message number
2. Problem description

DBI1530E Cannot unpack image file.

Explanation: An error has occurred while unpacking the tar image from the distribution media. One of the following situations has occurred:

- The given path name is a non-existing directory.
- The file system does not have enough space.
- The access permission on the given path is incorrect.

- The tar command was not found in your current search path.

User Response: Restart the install process and retry with a correct path name.

DBI1540E An invalid distribution media path is specified.

Explanation: An error was detected when attempting to locate the installable images on the distribution media. One of the following errors occurred:

- The file system associated with the given path is not properly mounted.
- An incorrect access permission has been assigned to the given path.

User Response: Check the path and try the command again. Note that all file and directory names in Unix are case sensitive.

DBI1541E An attempt to open or read from the given status file failed.

Explanation: An error was detected when attempting to open or read from the status file. If the status file has not been modified manually, then one of the following errors occurred:

- An incorrect file path has been specified.
- An incorrect access permission has been assigned to the status file.
- The file system associated with the given path is not properly mounted.

User Response: Check the path and try the command again. Note that all file and directory names in Unix are case sensitive. If the problem persists, contact IBM Support with the following information:

1. Message number
2. Problem description
3. Status file

DBI1550E There is not enough disk space on the file system.

Explanation: An error was encountered when trying to allocate more disk space on the file system.

User Response: Retry the command after enough space has been freed up for the specified operation.

DBI1631E An error was encountered while creating a sample database.

Explanation: One of the following situations has occurred:

- There is not enough disk space on the file system.
- The DB2 product has not been installed properly, or some of the component files are missing.

User Response: If this is not a disk space problem, try to re-install the product. If the problem persists, turn trace on and retry the steps to create a database through the CLP. Then, save the trace information to a file and contact IBM Support with the following information:

- Message number
- Problem description
- Trace file

DBI1632E An error was encountered while configuring to “auto-start” instance.

Explanation: One of the following situations has occurred:

- The feature to “auto-start” the instance is already enabled.
- An error was encountered while adding an entry to “/etc/inittab” file. This could be a file permission problem.
- There is not enough room on the /etc filesystem to accommodate a new resource file rc.db2.

User Response: If any of the above three situations apply, then correct the problem and

retry the command. If the problem persists, contact IBM Support with the following information:

- Message number
- Problem description

DBI1633E An error was encountered while removing the configuration to “auto-start” instance.

Explanation: One of the following situations has occurred:

- The feature to “auto-start” the instance is not enabled.
- An error was encountered while removing an entry to “/etc/inittab” file. This could be a file permission problem.
- The file “/etc/rc.db2” is missing.

User Response: If any of the above three situations apply, then correct the problem and retry the command. If the problem persists, contact IBM Support with the following information:

- Message number
- Problem description

DBI1634W Unable to update /etc/rc.db2 to auto-mount dlfs file system.

Explanation: An attempt to update /etc/rc.db2 to enable the auto-mounting of the dlfs file system on system reboot has failed.

User Response: Manually edit the file /etc/rc.db2, and add the following lines to it:

```
if [ -x /etc/rc.dlfs ]; then
    /etc/rc.dlfs
fi
```

DBI1635E An error was encountered while adding to the Administration Server group list.

Explanation: An error was detected when attempting to add a DB2 instance to the Administration Server group list.

User Response: If you are running this command on an NIS client, try to append the group name of the DB2 instance to the secondary group of the Administration Server on your NIS server.

DBI1651E The specified UID is invalid.

Explanation: An invalid UID has been entered. One of the following situations has occurred:

- The given UID is already assigned to an existing user on the system.
- The given UID either is too long or consists of invalid characters.
- The given UID less than or equal to 100.

User Response: Retry with a different user ID.

DBI1652E The specified user name is invalid.

Explanation: An invalid user name has been entered. One of the following situations has occurred:

- The given user name already exists on the system.
- The given user name already exists on the system but under a different group name.
- The given user name either is too long or consists of invalid characters.

User Response: Retry with a different user name.

DBI1653E The specified group is invalid.

Explanation: An invalid group ID or group name has been entered. One of the following situations has occurred:

- The given group ID already exists but under a different group name on the system, or the given group name already exists but under a different group ID.
- The given group ID or group name either is too long or consists of invalid characters.
- The given group ID is less than or equal to 100.

User Response: Retry with a different group ID or group name.

DBI1654E The specified directory is invalid.

Explanation: An invalid directory has been entered. One of the following situations has occurred:

- The given user already exists but has a different home directory specified on the system.
- The given directory is either too long or consists of invalid characters.

User Response: Retry with the user's home directory specified on the system or a different directory.

DBI1655E The specified password is invalid.

Explanation: An invalid password has been entered. One of the following situations has occurred:

- The given password has a length of zero.
- The given password does not match with the verify password.
- The given password contains invalid characters.

User Response: Retry with a different password.

DBI1657E Instance name already in use.

Explanation: An instance with the same name already exists on your system.

User Response: Verify with the list of instances as reported by the “db2ilist” command. Retry with a different user name.

DBI1701E One or more of the TCP/IP parameters specified is invalid.

Explanation: One of the following situations has occurred:

- The length of service name exceeds 14 characters.

- The port number specified is out of range.
This number must be between 1024 and 65535.

User Response: Correct the problem and try again.

DBI1702E The specified service name or port number conflicts with existing values in the TCP/IP services file.

Explanation: The service name or port number entered by the user conflicts with existing values in the TCP/IP services file. The service name may already be used with a different port number, or the port number may already be used with a different service name.

User Response: Specify a service name and port number that does not conflict with existing entries in the services file.

DBI1703E No valid service name or port number found.

Explanation: No valid service name or port number for this instance can be found in the TCP/IP services file. This information is either missing or is invalid.

If you installed “DB2 Extended Enterprise Edition” product, a service name must be specified for the instance before using this command.

User Response: For more information, refer to the “DB2 Enterprise - Extended Edition for UNIX Quick Beginnings”. Specify valid service name and port number for this instance and enter this command again.

DBI1709E An error was encountered when updating the TCP/IP services file.

Explanation: An attempt to add a service name and port number to the TCP/IP services file failed.

User Response: If the user wishes to use the service name instead of the port number in the node directory entry, the node must be manually uncatalogued and then recatalogued using the service name. The services file must also be

updated manually. If Network Information Services (NIS) is being used, the local services file may have been updated but the NIS server must be updated manually. In this case, the node was also catalogued using the port number.

DBI1711E One or more of the IPX/SPX parameters specified is invalid.

Explanation: One of the following situations has occurred:

- the fileserver, objectname, or ipx_socket parameter is null.
- the fileserver parameter is set to * but objectname is not *.
- the objectname or ipx_socket value specified is not unique.
- the ipx_socket value specified is not in the valid range.

User Response: Correct the problem and try again.

DBI1715E NetWare User ID or NetWare Password is invalid.

Explanation: The NetWare User ID and NetWare Password that you specify must already exist and is used to register the DB2 Object Name at a NetWare file server and must have supervisory or equivalent authority.

User Response: Correct the problem and try again.

DBI1720E The specified User ID or Group ID cannot be added since NIS is running.

Explanation: NIS is running on your system. A new User ID or Group ID cannot be created while you have NIS running on your system.

User Response: Use a previously created User ID or Group ID and try again.

DBI1722E The specified service cannot be added to the /etc/services file because NIS is running.

Explanation: NIS is running on your system. A new service cannot be added to the /etc/services file while you have NIS running on your system.

User Response: Use a previously created service name and port number from the /etc/services file and try again.

DBI1740W Security Risk.

Explanation: Using the default instance user ID here allows this instance to have full access permission to other instances on your system. It is highly recommended to use a different user ID for security reasons.

User Response: To avoid the possibility of a security risk, use a different user ID.

DBI1741W Protocol not detected.

Explanation: You have selected a protocol that is not detected. DB2 Installer cannot update all of the protocol's required settings. However, you can provide values for this protocol's settings.

User Response: No actions required.

DBI1744W The DB2 Data Links Manager Administrator is not created.

Explanation: You have not created the DB2 Data Links Manager Administrator. Without the DB2 Data Links Manager Administrator, you cannot administer the DB2 Data Links Manager.

User Response: No actions required.

DBI1745W The Administration Server is not created.

Explanation: You have not created a Administration Server. Without the Administration Server, you cannot provide services to support client tools that automate the configuration of connections to DB2 databases, and cannot administer DB2 from your server

system or a remote client using the Control Center.

User Response: No actions required.

DBI1746W DB2 Instance is not created.

Explanation: You have not created a DB2 Instance. A DB2 Instance is an environment where you store data and run applications.

User Response: No actions required.

DBI1747W The specified directory already exists.

Explanation: The directory specified in the Home Directory field already exists. If you choose to use this directory you may run into permission problems.

User Response: Choose a different directory if this may be a problem.

DBI1750W Security Risk.

Explanation: Using the default instance user ID here allows this instance to have full access permission to other instances on your system. It is highly recommended to use a different user ID for security reasons.

User Response:

- Press OK to continue, or
- Press Cancel to enter a different user ID.

DBI1751W Protocol not detected.

Explanation: You have selected a protocol that is not detected. DB2 Installer cannot update all of the protocol's required settings. However, you can provide values for this protocol's settings.

User Response:

- Press OK to provide protocol settings, or
- Press Cancel to ignore.

DBI1754W The DB2 Data Links Manager Administrator is not created.

Explanation: You have not created the DB2 Data Links Manager Administrator. Without the DB2 Data Links Manager Administrator, you cannot administer the DB2 Data Links Manager.

User Response:

- Press OK to continue, or
- Press Cancel to go back.

DBI1755W The Administration Server is not created.

Explanation: You have not created a Administration Server. Without the Administration Server, you cannot provide services to support client tools that automate the configuration of connections to DB2 databases, and cannot administer DB2 from your server system or a remote client using the Control Center.

User Response:

- Press OK to continue, or
- Press Cancel to go back.

DBI1756W DB2 Instance is not created.

Explanation: You have not created a DB2 Instance. A DB2 Instance is an environment where you store data and run applications.

User Response:

- Press OK to continue, or
- Press Cancel to go back.

DBI1757W The specified directory already exists.

Explanation: The directory specified in the Home Directory field already exists. If you choose to use this directory you may run into permission problems.

User Response:

- Press OK to use this directory, or
- Press Cancel to go back.

DBI1758W DB2 Instance or Administration Server detected.

Explanation: You have selected to removed the entire DB2 product. However, a DB2 Instance or Administration Server has been detected on your system. If you remove the DB2 product without dropping these instances first, your DB2 Instances may not be able to function properly later on.

User Response:

- Press OK to continue, or
- Press Cancel to go back.

DBI1759W DB2 Instance or Administration Server configurations detected.

Explanation: You do not have the Administration Server selected. This will cause all of your Administration Server and DB2 Instance configurations to be discarded.

User Response:

- Press OK to continue, or
- Press Cancel to go back.

DBI1761W Software pre-requisites violated on fileset or package “<pkg-name>”.

Explanation: An error occurred when verifying software pre-requisites on the above fileset or package. Continuing may result in the product not functioning properly. Do you want to continue without installing its pre-requisites?

User Response:

- Press OK to continue without installing its pre-requisites, or
- Press Cancel to abort installation.

DBI1762W Software dependencies violated on fileset or package “<pkg-name>”.

Explanation: An error occurred when verifying software dependencies on the above fileset or package. Continuing may result in removing all of its software dependencies. Do you want to

remove its software dependencies?

User Response:

- Press OK to continue, or
- Press Cancel to go back.

DBI1763I English HTML documentation files will also be installed.

Explanation: The English HTML documentation files are required when you select any non-English HTML documentation files for installation. This is to ensure that users will be able to search the entire DB2 documentation library.

DBI1765W A non-existing user ID, "<InstName>", has been detected from the registry.

Explanation: The registry is containing a non-existing user ID. This can be caused by just removing the instance user ID without first dropping the instance. This will not affect the normal operation of DB2, but it is recommended to remove this obsolete user ID from the instance list in the registry.

User Response: To remove this user ID from the registry with the command: `db2iset -d "<InstName>"`

DBI1766W Cannot change the secondary group list of "<userId>".

Explanation: A code, "<code>", is returned when attempting to change the secondary group list of the given user ID. One of the following situations has occurred:

- NIS is running.
- One or more processes are currently being executed under the given user ID.

User Response: You must add the group ID, "<groupId>", to the secondary group list of the user ID, "<userId>", so that the Administration Server can function properly.

- If there happens to be any process run under the given user ID, terminate all of these

processes and follow the instructions above to setup the secondary group list of this user ID.

- If you are running this command on an NIS client, try the above instructions to setup the secondary group list of this user ID on your NIS server.

DBI1767W DB2 registry may contain corrupted information.

Explanation: The registry may contain invalid instance information. This is probably due to the fact that an instance or the Administration Server is not deleted properly before removing the DB2 product. If you are re-installing the product and want to keep the existing instance information in the registry, press Cancel. Otherwise, press OK to re-create the registry. Do you want to re-create the registry?

User Response:

- Press OK to re-create the registry, or
- Press Cancel to keep the current registry information.

DBI1768W Unable to modify the .profile or the .login file of user "<inst-name>".

Explanation: DB2 has failed to modify the .profile file or the .login file of this user. These files may not exist, or you may not have write permission to them. Without the modification you need to set your environment manually each time when you log in as this user to use DB2.

User Response: Add the following line to the .profile file or the .login file:

`. sqllib/db2profile` to the .profile file, or
`source sqllib/db2cshrc` to the .login file

See the Quick Beginning Guide for more details on how to set the DB2 environment automatically.

DBI1769W Unable to remove DB2 profile entry from the .profile or the .login file of “<inst-name>”.

Explanation: DB2 has failed to comment out the DB2 environment setting line in the .profile file or the .login file of this user. The next time you log in as this user, you may get a message saying that the file db2profile (or db2cshrc) cannot be found. There can be different reasons:

- The two files (.profile and .login) may not exist.
- You may not have write permission on these files.

User Response: If you receive a message concerning missing db2profile or db2cshrc, locate your .profile or .login file and comment out the following:

```
. sqllib/db2profile     from your .profile file  
source sqllib/db2cshrc from your .login file
```

DBI1770E Unable to update the file /etc/vfs.

Explanation: The following DB2 Data Links Manager specific entry is required in the /etc/vfs file:

```
dlfs dlfs_num /sbin/helpers/dlfs_mnthelp none
```

where dlfs_num is to be set to 12, or some number between 8 and 15 if 12 is already assigned to another fs. The installation process has failed to insert this line into the /etc/vfs file. There may be different reasons:

- You do not have write permission to this file.
- The range 8-15 is all taken up, no number can be assigned to dlfs.

User Response: Manually edit the /etc/vfs file, and add the entry for dlfs into this file.

DBI1771I File /etc/vfs has been copied to /tmp/.db2.etcvfs.backup.

Explanation: For DB2 Data Links Manager to work, the following line has to be inserted into the /etc/vfs file:

```
dlfs dlfs_num /sbin/helpers/dlfs_mnthelp none
```

A backup copy of the original /etc/vfs file has been placed in /tmp/.db2.etcvfs.backup.

DBI1775W Modified an existing /etc/rc.dlfs file.

Explanation: DB2 has modified an existing /etc/rc.dlfs file with the new dlfs file system mount entry.

User Response: Examine the file /etc/rc.dlfs to ensure that all entries are correct.

DBI1780W DB2 Data Links Manager is not supported on the version of your current operating system.

Explanation: The version of your current operating system is not supported to run DB2 Data Links Manager. However, you can still install and configure the product at your own risk. The following is a list of supported operating systems for DB2 Data Links Manager:

- “<OSlist>”

DBI1790E ODSSI utilities have not been installed, unable to create DB2 search index.

Explanation: ODSSI utilities have not been installed. These utilities (config_search, config_view and config_help) are required to create the search index for the DB2 online documentation.

User Response: Install the ODSSI utilities, then run the following commands:

```
/opt/IBMdb2/V6.1/doc/db2insthtml lang_locale
```

to create the search index for DB2 documentation in the language locale lang_locale. Note that whenever you install documentation in any language, English documentation is installed as well. So you should also run the following command to index the English files:

```
/opt/IBMdb2/V6.1/doc/db2insthtml en_US
```

DBI1791W Possible error in creating/removing DB2 search index for html file.

Explanation: DB2 runs the system utilities config_view and config_help to create or remove DB2 search index to be used with SCOHELP. However, error messages may be returned if there exists other non-DB2 indexes on the system that have not been created/removed properly.

User Response:

- If you were creating the DB2 index, you can start up SCOHELP and check to see if the DB2 entry has been added to the topics panel. Test searching for a string like "TCP/IP" and see if you get any results. If you are able to do the search, DB2 search index has been created successfully.
- If you were removing the DB2 index, you can start up SCOHELP and verify that the DB2 entry has been removed from the topics panel. If the entry is gone, then the DB2 index has been successfully removed.
- If you cannot verify that the DB2 index has been successfully created or removed, contact IBM support.

DBI1792I Creating search index for DB2 documentation files, please wait ...

Explanation: Search index for DB2 documentation files are being created. Depending on the language(s) you have selected, this may take some time.

DBI1900N The Windows NT Cluster support is not accessible.

Explanation: DB2 is unable to access the Windows NT Cluster.

User Response: Ensure the Windows NT Cluster support has been correctly installed and the Cluster Service has been started.

DBI1901N An error occurred when attempting to update the user rights for the DB2/NT cluster service.

Explanation: DB2 encountered an error when attempting to grant the necessary user rights to the account specified for use with the DB2 service.

User Response: Ensure a valid account has been specified and that you have the necessary privilege to grant user rights.

DBI1902N An error occurred when attempting to update the DB2/NT cluster service configuration.

Explanation: DB2 encountered an error when attempting to update the DB2/NT cluster service configuration.

User Response: Ensure the Service Database has not been locked and is accessible. Also ensure the DB2/NT Cluster Service has been created.

DBI1903N An error occurred when accessing the Cluster registry.

Explanation: DB2 encountered an error when attempting to read or update the Windows NT Cluster registry.

User Response: Ensure the Windows NT Cluster support has been correctly installed and the Cluster Service has been started. Ensure that the current logon user account has sufficient authority to access the Cluster registry.

DBI1904N The DB2 instance is not Clustered.

Explanation: DB2 attempted to access an instance to perform cluster operations but the instance was not identified as a DB2 Cluster instance.

User Response: Verify the instance was created with the Cluster options. The instance may be dropped and re-created using the Cluster option but the Node directory, Database Directory, and Database Manager Configuration file will be lost.

DBI1905N A System Error occurred during a DB2 Cluster operation.

Explanation: A system error was detected while DB2 was performing a Cluster operation.

User Response: Check to make sure the Windows NT operating system is at the correct level for Cluster Support.

Also ensure the Windows NT Cluster support has been correctly installed and the Cluster Service has been started.

DBI1906N A error occurred while attempting to add a node to a DB2 Cluster instance.

Explanation: An error was encountered while attempting to update a node to support a DB2 Cluster instance.

User Response: Ensure the remote system is on-line and accessible over the LAN. Also ensure you have the necessary privilege to update the Registry on the remote system.

DBI1907N A error occurred while attempting to delete a node from a DB2 Cluster instance.

Explanation: An error was encountered while attempting to delete a node from a DB2 Cluster instance.

User Response: Ensure the remote system is on-line and accessible over the LAN. Also ensure you have the necessary privilege to update the Registry on the remote system.

A workstation cannot drop cluster support from itself. The instance must be dropped to perform this task.

DBI1908N A error occurred while attempting create the instance profile on a remote system.

Explanation: A error was detected while attempting to create the instance profile on a remote system to enable Cluster Support.

User Response: Ensure the remote system is

on-line and accessible over the LAN. Also ensure you have the necessary privilege to update the Registry on the remote system.

DBI1909N A error occurred while attempting delete the instance profile on a remote system.

Explanation: A error was detected while attempting to delete the instance profile on a remote system to disable Cluster Support.

User Response: Ensure the remote system is on-line and accessible over the LAN. Also ensure you have the necessary privilege to update the Registry on the remote system.

**DBI1910N Usage : DB2NCRT
 -I:<Instance-Name>
 -C:<cluster-node>**

Explanation: The user specified incorrect arguments to the DB2NCRT command.

User Response: Re-issue the command specifying a clustered instance and a valid workstation name for the cluster node.

**DBI1911N Usage : DB2NLIST
 -I:<Instance-Name>**

Explanation: The user specified incorrect arguments to the DB2NLIST command.

User Response: Re-issue the command specifying a clustered instance.

DBI1912I The DB2 Cluster command was successful.

Explanation: The user request was successfully processed.

User Response: No action required.

DBI1913N Unable to connect to the remote machine registry.

Explanation: DB2 encountered an error when attempting to connect to the Windows NT registry on a remote machine.

User Response: Ensure that the target machine is running and that the computer name specified is correct. Also ensure that the current logon user account has sufficient authority to connect to the remote machine registry.

DBI1914N Unable to connect to the Cluster registry.

Explanation: DB2 encountered an error when attempting to connect to the Windows NT Cluster registry.

User Response: Ensure that the Windows NT Cluster support has been correctly installed and the Cluster Service has been started.

DBI1915N The target machine does not belong to the Windows NT Cluster.

Explanation: The command failed for one of the following reasons:

- (1) The db2iclus utility attempted to remove a machine from a DB2 MSCS instance but the target machine had not been added to the DB2 MSCS instance, or
- (2) The db2iclus utility attempted to add a machine to a DB2 MSCS instance but the target machine does not have the required Windows NT Cluster support software installed.

User Response: Follow the action corresponding to the cause of the problem:

- (1) Ensure that the machine is part of the DB2 MSCS instance by running the "db2iclus list" command, or
- (2) Install the Windows NT Cluster software on the target machine and issue the command again.

DBI1916N The instance name specified is not valid.

Explanation: The instance specified by the instance name parameter does not exist for the local machine.

User Response: To find a list of valid instances, run the db2ilist command. Issue the command again using a valid instance name.

DBI1917N The DB2 Profile Variable "%1" is not set at the target machine.

Explanation: The required DB2 Profile Variable is not set at the target machine. The command can not continue.

User Response: Contact your IBM service representative for assistance.

DBI1918N An error occurred when accessing the Windows NT registry.

Explanation: DB2 encountered an error when attempting to read or update the Windows NT registry of the target machine.

User Response: Ensure that the current logon user account has sufficient authority to access the Windows NT registry of the target machine. If the problem persists, contact your IBM service representative for assistance.

DBI1919N An error occurred when accessing the TCP/IP services file.

Explanation: DB2 encountered an error when reading or updating the TCP/IP services file.

User Response: Ensure that the services file exists in the system and that the file can be accessed for read and write authority. Also, ensure that the contents of the file are valid and no duplicate of entries exist in the services file.

DBI1920N The DB2 instance profile path parameter is not valid.

Explanation: DB2 is unable to access the DB2 instance profile path specified because the path does not exist or write access has not been given to the current logon user account.

User Response: Ensure that the path name for the DB2 instance profile points to a valid directory and that the current logon user account has write access to the directory.

DBI1921N The user account or password is not valid.

Explanation: The user account or the password is not valid.

User Response: Issue the command again with the correct account.

DBI1922N The host name is not valid.

Explanation: The TCP/IP host name parameter is not valid or does not exist.

User Response: Ensure that TCP/IP is operational on the system. If a domain name server is used, ensure that the domain name server machine is active. Issue the command again using the correct TCP/IP host name.

DBI1923N The TCP/IP port range parameter is not specified.

Explanation: The db2icrt utility requires the TCP/IP port range to be specified when creating a partitioned database instance if the entries for TCP/IP port range for the instance have not been added to the services file.

User Response: Choose a range of TCP/IP ports that are available for the system and issue the db2icrt command again with the -r option.

DBI1924N The computer name is not valid.

Explanation: The computer name parameter is not valid

User Response: Ensure that the target machine is running and that the computer name specified is correct. Also ensure that the current logon user account has sufficient authority to connect to the target machine registry.

DBI1925N Unable to query the status of the DB2 service.

Explanation: DB2 is unable to query the service status for the DB2 service.

User Response: Ensure that the DB2 service exists on the target machine. Ensure that the

current logon user account has sufficient authority to query the service status on the target machine.

DBI1926N The password is expired.

Explanation: The account password has expired.

User Response: Change your password, then retry the request using the new password.

DBI1927N Usage:

```
db2iclus {add | drop | list |  
         migrate }  
         [/c:Cluster name]  
         [/p:instance profile path]  
         [/u:username,password]  
         [/i:instance name]
```

Explanation: Valid arguments for this command are:

add to add an MSCS node to a DB2 MSCS instance

drop to remove an MSCS node from a DB2 MSCS instance

list to list all MSCS nodes that are part of the DB2 MSCS instance

migrate to migrate a non-MSCS instance into an MSCS instance

Valid options for this command are:

/c to specify the MSCS cluster name if different from the default/current cluster

/p to specify the instance profile path. This option is required when migrating a non MSCS instance into an MSCS instance

/u to specify the account name and password for the DB2 service. This option is required when adding another MSCS node to the DB2 MSCS partitioned database instance

/i to specify the instance name if different
 from the default/current instance

User Response: Enter the command again using
valid parameters

DBI1928N The user account is not specified.

Explanation: When creating a partitioned
database instance or adding a node to a
partitioned database instance, you must specify
the user account parameter. Under the Windows
NT environment, each database manager
partition (or MPP node) is required to run under
a valid Windows NT account to access the
network share which contains the instance
directory.

User Response: Issue the command again with
the -u option to specify the user account name
and password.

**DBI1929N The instance is already configured
 for MSCS support.**

Explanation: An attempt to migrate an instance
into an MSCS instance failed because the the
instance is already configured for MSCS support.

User Response: No action required.

**DBI1930N The target machine is already part
 of the DB2 MSCS instance.**

Explanation: An attempt to add an MSCS node
to the DB2 MSCS instance failed because The
target machine is already part of the DB2 MSCS
instance.

User Response: No action is necessary.

**DBI1931N The database partition server
 (node) is active.**

Explanation: The database partition server can
not be dropped or modified because it is active.

User Response: Ensure that the database
partition server is stopped before attempting to
drop or change it. To stop a database partition
server, use the db2stop command as follow:

db2stop nodenum <node-number>

**DBI1932N Can not add the database
 partition server on a remote
 machine because the same
 instance on that machine already
 exists.**

Explanation: The db2ncrt command failed to
add a new database partition server on a remote
machine because there is an existing instance on
the remote machine.

User Response: If the instance on the remote
machine is no longer used, remove the instance
by running the db2idrop command on the
remote machine.

**DBI1933N The database partition server can
 not be moved to a new machine
 because there is existing
 database(s) in the system.**

Explanation: When the db2nchg command is
issued with the /m:machine option, the
command will move the database partition
server to a new machine. The db2nchg will fail if
there is existing database(s) in the system.

User Response: To move the database partition
server to a new machine when there is
database(s), use the db2start restart command.
For more information on the db2start command,
refer to the DB2 Command Reference.

DBI1934N Usage:

db2iupdt InstName
/u:username,password
[p:instance profile path]
[r:baseport,endport]
[h:hostname]

Explanation: An invalid argument was entered
for the db2iupdt command. Valid arguments for
this command are:

InstName

the name of the instance

/u to specify the account name and
password for the DB2 service. This

option is required when creating a partitioned database instance.

/p to specify the new instance profile path for the updated instance.

/r to specify a range of TCP/IP port to be used by the partitioned database instance when running in MPP mode. The services file of the local machine will be updated with the following entries if this option is specified:

```
DB2_InstName      baseport/tcp
DB2_InstName_END  endport/tcp
```

/h to override the default TCP/IP hostname if there are more than one TCP/IP hostname for the current machine.

User Response: Enter the command again using valid arguments.

DBI1935N The db2iupdt command failed to update the instance directory.

Explanation: The db2iupdt command failed to update the instance directory because of one of the following reasons:

- (1) the db2audit.cfg file is missing from the \SQLLIB\CFG directory.
- (2) the db2iupdt command does not have the required authority to create files or sub-directories within the instance directory.

User Response: Ensure that the db2audit.cfg file exists in the \SQLLIB\CFG directory and that the current logon account has sufficient authority to create files and directories in the instance directory. The instance directory is located in \SQLLIB\InstName (where InstName is the name of the instance).

DBI1936N The db2iupdt command failed to update the database manager configuration file.

Explanation: The db2iupdt command failed to update the database manager configuration file

because the previous database manager configuration file is corrupted or missing. The current instance is in inconsistent state and can not be used.

User Response: Copy the default database manager configuration file to the instance directory then re-submit the command. The instance directory is located in \SQLLIB\InstName. The default database manager configuration file is named db2system and can be found in the \sqllib\cfg directory.

DBI1937W The db2ncrt command successfully added the node. The node is not active until all nodes are stopped and started again.

Explanation: The db2nodes.cfg file is not updated to include the new node until all nodes are simultaneously stopped by the STOP DATABASE MANAGER (db2stop) command. Until the file is updated, the existing nodes cannot communicate with the new node.

User Response: Issue db2stop to stop all the nodes. When all nodes are successfully stopped, issue db2start to start all the nodes, including the new node.

DBI1950W The instance "<instance-name>" is already in the instance list.

Explanation: The instance that is being created or migrated is already in the instance list.

User Response: Verify that the list of instances as reported by the db2ilist command is correct.

DBI1951W The instance "<instance-name>" was not found in the instance list.

Explanation: The specified instance was not found in the instance list.

User Response: Verify that the list of instances as reported by the db2ilist command is correct.

DBI1952E The instance name “<instance-name>” is invalid.

Explanation: The instance name is invalid. It cannot:

1. be more than 8 characters long.
2. start with “sql”, “ibm” or “sys”.
3. start with a numeral or contain characters other than a-z, \$, #, @, _ or 0-9.

User Response: Try the command again with a valid instance name.

DBI1953E The instance is active.

Explanation: An attempt was made to drop an instance which is active.

User Response: Make sure all applications that are using the instance have finished executing before stopping the instance by issuing a db2stop (from that instance’s user ID.)

DBI1954E The instance name is currently used by the DB2 Admin Server.

Explanation: The instance cannot be created because it is currently used by the DB2 Admin Server.

User Response: Try the command again with a different instance name.

DBI1955E Usage: db2idrop [-h] [-f] InstName

Explanation: An incorrect argument was entered for the db2idrop command. Valid arguments for this command are:

- h** display the usage information
- f** is the force applications flag. If this flag is specified then all applications using the instance will be forced to terminate.

InstName
is the name of the instance

User Response: Enter the command again as follows:

db2idrop [-h] [-f] InstName

DBI1956E Usage: db2ilist

Explanation: An incorrect argument was entered for the db2ilist command. The db2ilist command does not require any arguments.

User Response: Enter the command again as follows:

db2ilist

DBI1957E The syntax of the db2icrt command is incorrect.

Explanation: The db2icrt utility creates a database instance:

```
db2icrt InstName [/mpp]
                  [/p:instance profile path]
                  [/u:username,password]
                  [/h:hostname]
                  [/c:Cluster name]
                  [/r:baseport,endport]
                  [/?]
```

The command options are:

- /mpp** to create a partitioned database instance. When creating a partitioned database instance, the default node (node 0) is also created.
- /p** to specify the instance profile path. This option is required when creating a partitioned database instance.
- /u** to specify the account name and password for the DB2 service. This option is required when creating a partitioned database instance.
- /h** to override the default TCP/IP hostname if there are more than one TCP/IP hostname for the current machine. The TCP/IP hostname is used when creating the default node (node 0).
- /c** to specify the MSCS cluster name. This option is specified to create a DB2 instance that supports MSCS.
- /r** to specify a range of TCP/IP port to be used by the partitioned database

instance when running in MPP mode.
The services file of the local machine
will be updated with the following
entries if this option is specified:

```
DB2_InstName      baseport/tcp
DB2_InstName_END  endport/tcp
```

/? to display help

User Response: Enter the command again using
the valid parameters.

**DBI1958N The instance profile cannot be
added to the registry.**

Explanation: An error occurred when adding
the instance profile to the registry. The instance
was not created.

User Response: Contact your IBM service
representative.

**DBI1959N The instance directory cannot be
created.**

Explanation: An error occurred when creating
the required files or directories for the new
instance. The instance was not created.

User Response: Ensure that you have write
access to the location where the instance
directory is created. The instance directory is
created under the path where the product is
installed. You may use the DB2INSTPROF Profile
Variable to specify a different location for the
instance directory.

**DBI1960N The DB2 service cannot be
created.**

Explanation: An error occurred when
registering a DB2 service.

User Response: Ensure you have sufficient
authority to create an NT service and the Service
Database is not locked, then retry the operation.

**DBI1961N The node key for the new
instance cannot be added to the
registry.**

Explanation: An error occurred when adding a
node key for the new instance in the instance
profile registry.

User Response: Contact your IBM service
representative.

**DBI1962N The new node can not be added
to the registry.**

Explanation: An error occurred when adding
the new node to the instance profile registry.

User Response: Contact your IBM service
representative.

**DBI1963N An error occurred when granting
the user rights to the account for
the instance.**

Explanation: When configuring the account for
the DB2 Service, the account must be granted the
user rights :

1. Act as part of the operating system
2. Create a token object
3. Increase quota
4. Logon as a service
5. Replace a process level token

An error occurred when granting the user rights
to the account for the instance.

User Response: If the machine belongs to an
NT domain, ensure that the primary domain
controller is active and accessible over the
network. Otherwise, contact your IBM service
representative.

**DBI1964N The logon account cannot be
assigned to the DB2 service.**

Explanation: An error occurred when assigning
a logon account to the DB2 service.

User Response: Ensure user that the user name
and the password for the logon account is valid.

DBI1965N **The node "<node-number>" was not found in the node list.**

Explanation: The specified node was not found in the node list.

User Response: Verify that the node exists by displaying the list of nodes using the DB2NLIST command.

DBI1966N **The node cannot be deleted from the registry.**

Explanation: An error occurred when removing the specified node from the instance profile registry.

User Response: Contact your IBM service representative.

DBI1967N **The DB2 service cannot be de-registered.**

Explanation: An error occurred when de-registering a DB2 service.

User Response: Ensure that you have sufficient authority to delete an NT service.

DBI1968N **An error occurred when changing the node configuration in the profile registry.**

Explanation: An error occurred when changing the node configuration in the profile registry.

User Response: Contact your IBM service representative.

DBI1969N **An error occurred when creating a new file in the instance directory.**

Explanation: An internal error occurred when creating a new file in the instance directory.

User Response: Ensure that you have write access to the instance directory.

DBI1970N **An error occurred when reading from or writing to a file in the instance directory.**

Explanation: An internal error occurred when reading from or writing to a file in the instance directory.

User Response: Contact your IBM service representative.

DBI1971N **The instance profile cannot be removed from the registry.**

Explanation: An error occurred when removing the instance profile from the registry.

User Response: Contact your IBM service representative.

DBI1972N **The instance directory cannot be removed.**

Explanation: An error occurred when removing the required files or directories belonging to the specified instance.

User Response: Ensure that you have write access to the location where the instance directory is located.

DBI1973N **An attempt to configure the DB2 service to start automatically failed.**

Explanation: An error occurred when setting the DB2 service to start automatically.

User Response: Reboot the machine and try the command again. If the problem persists, contact your IBM service representative.

DBI1974N **The profile variable DB2ADMINSERVER cannot be set in the profile registry.**

Explanation: An error occurred when setting the profile variable DB2ADMINSERVER in the profile registry.

User Response: Contact your IBM service representative.

**DBI1975N The environment variable
DB2ADMINSERVER cannot be
removed from the profile registry.**

Explanation: An error occurred when removing the environment variable DB2ADMINSERVER in the profile registry.

User Response: Contact your IBM service representative.

**DBI1980W Unable to create user ID
“<userID>” in UPM.**

Explanation: The user ID that you provided during product installation could not be created in User Profile Management (UPM). This user ID is required to start the DB2 Administration Server.

User Response: Manually create a user ID and password using UPM and then manually start the DB2 Administration Server. You may need to set the DB2 Administration Server to use this user ID and password combination using the “db2admin” command.

Chapter 7. DB2 Messages

Each message has a message identifier that consists of a prefix (DB2) and a message number. Messages are listed in numeric sequence based on the message number. These messages are generated by the command line processor to alert you when a warning or error condition occurs. Messages are displayed directly on the screen interface. The command line processor returns DB2 and SQL messages.

For more information about SQL messages, see Chapter 11. SQL Messages in this guide.

DB2000I The “<command>” command completed successfully.

Explanation: No errors were encountered during the execution of this command.

User Response: No action required.

DB21001E The option “<option-letter>” specified after the 'db2' command or in the DB2OPTIONS variable is incorrect.

Explanation: The option specified is not supported. The supported options are:

Option Description

-----	-----
-a	Display SQLCA
-c	Auto-commit
-e	Display SQLCODE/SQLSTATE
-f	Read from input file
-l	Log commands in history file
-o	Display output
-p	Display interactive prompt
-r	Save output report to file
-s	Stop execution on cmd error
-t	Set stmt termination character
-v	Echo current command
-w	Display FETCH/SELECT warnings
-z	Save all output to file

The command cannot be processed.

User Response: Resubmit the command with a valid option.

DB21002E The parameter for option “<option-letter>” specified after the 'db2' command or in the DB2OPTIONS variable is missing or incorrect.

Explanation: The following lists the options with parameters:

Option	Description
-----	-----
-ec	Display SQLCODE
-es	Display SQLSTATE
-f<filename>	Read from input file <filename>
-l<filename>	Log commands in history file <filename>
-r<filename>	Save output report to file <filename>
-td<x>	Set termination char. to 'x'
-z<filename>	Save all output to file <filename>

User Response: Resubmit the command with the valid option and parameter.

DB21003E The value “<value>” in “<environment-variable>” is not valid.

Explanation: The value for DB2BQTRY must be between 0 and 4294967295. The value for DB2BQTIME, DB2RQTIME or DB2IQTIME must be between 1 and 4294967295.

User Response: Set the environment variable

with the correct value and resubmit the command.

DB21004E **You cannot specify both an input file and a command when invoking the command line processor.**

Explanation: You cannot specify both the -f option and a command line command when invoking the command line processor.

User Response: Correct the error and issue the command again.

DB21005E **An error occurred while accessing the file "<filename>".**

Explanation: The following could have caused the error:

- file permissions do not allow file access
- the file does not exist

User Response: Correct the error and try again.

DB21006E **The input command is too long. The maximum length is "<length>".**

Explanation: The input command cannot exceed the length specified.

User Response: Correct the error and resubmit the command.

DB21007E **End of file reached while reading the command.**

Explanation: The last command was not executed because end of file was reached. Terminate the last command with a ';' (or your defined termination character) if the -t option was used. Remove the '\ ' from the last line in the command if the +t option was used.

User Response: Correct the error and resubmit the command.

DB21008E **Commands can only be entered from the command line processor interactive mode or file input mode.**

Explanation: The user attempted to enter a command line processor command from the DOS prompt.

User Response: Use command line processor interactive mode or file input mode.

DB21010I **Help given for "<help-command-phrase>".**

Explanation: This message only appears in the history file specified with the -l option.

User Response: No action required.

DB21011I **In a partitioned database server environment, only the table spaces on the current node are listed.**

Explanation: Only the table spaces on the current node are visible to the LIST TABLESPACES command.

User Response: To list the table spaces on another node, you must issue the LIST TABLESPACES command on that node.

DB21015E **The command line processor back-end process request queue or input queue was not created within the timeout period.**

Explanation: Either the values for the DB2BQTRY and DB2BQTIME environment variables need to be increased or the command line processor back-end program "db2bp" cannot be started. The "db2bp" program must reside in the correct database manager install path and users must have execute permission on the file.

User Response: Correct the error and resubmit the command.

DB21016E The command line processor encountered a system error while sending the command to the back-end process.

Explanation: One of the following could have happened:

- The backend process was abnormally terminated.
- A system error occurred when reading from or writing to the back-end process queues.
- A system error occurred when reading from the front-end process output queue.

User Response: Resubmit the command. If the error occurs again, get help from your system administrator.

DB21017E The command line processor encountered a system error with the front-end process output queue. Reason code = <reason code>.

Explanation: A system error occurred while creating or reading from the front-end process output queue.

If the reason code is -2499, the command line processor output queue conflicts with an existing queue.

User Response: Resubmit the command. If the error occurs again, record the message number and reason code, and get help from your system administrator.

DB21018E A system error occurred. The command line processor could not continue processing.

Explanation: One of the following caused the system error:

- Command line processor did not successfully install its interrupt signal handler.
- Command line processor did not successfully open the back-end process queues.
- Command line processor did not successfully start up the back-end process.

- The back-end process was abnormally terminated.
- The front-end process did not successfully allocate or free memory.
- Command line processor received one of the following program termination signals:
 - SIGILL
 - SIGTRAP
 - SIGEMT
 - SIGBUS
 - SIGSEGV
 - SIGSYS

User Response: Retry the command. If the problem persists, record the DB2 message number. If the trace was active, save the trace information and contact your technical support with the following information:

- Problem description
- DB2 message number
- SQLCA if possible
- Trace file if possible

DB21019E An error occurred while accessing the directory "<directory>".

Explanation: The following could have caused the error:

- directory permissions do not allow access
- the directory does not exist

User Response: Correct the error and resubmit the command.

DB21020E Unable to create the default message file "<file>".

Explanation: To properly process this command, CLP needs a file where the messages issued during processing are saved before they are displayed on the console. It attempted to create such a file in a directory normally used for that purpose (such as /tmp on UNIX platforms or ...\\TMP on OS/2), but the attempt failed because the directory does not exist.

User Response: Correct the error and resubmit the command.

DB21021E No Administration Server instance is defined. The command failed.

Explanation: You issued a command that needs to use an Administration Server instance, but no such instance is defined.

User Response: Define an Administration Server instance and resubmit the command.

DB21022E Unable to switch to Administration Server instance "<instance-name>".

Explanation: You issued a command that needs to use an Administration Server instance. Command line processor tried to switch to Administration Server instance "<instance-name>" but failed. The possible reasons may be:

- The Administration Server instance is not set correctly.
- Command line processor was already attached to a DB2 instance.
- Command line processor was connected to a database.

User Response: Check that a valid Administration Server instance is set up before using this command. Also, you may need to issue the DETACH, or CONNECT RESET, or TERMINATE command before trying your request again.

DB21023E The command is not valid when executed from Administration Server.

Explanation: You issued one of the following commands: GET DBM CONFIGURATION, RESET DBM CONFIGURATION, or UPDATE DBM CONFIGURATION, but these commands cannot be executed from Administration Server.

User Response: Issue one of the following commands that are valid on Administration Server: GET ADMIN CONFIGURATION, RESET ADMIN CONFIGURATION, or UPDATE ADMIN CONFIGURATION.

DB21024I This command is asynchronous and may not be effective immediately.

Explanation: This message is displayed after a FORCE command with the ASYNC clause.

User Response: No action required.

DB21025I Client changes will not be effective until the next time the application is started or the TERMINATE command has been issued. Server changes will not be effective until the next DB2START command.

Explanation: Changes to the database manager configuration parameters become effective only after they are loaded into memory. This typically occurs after a **DB2START** on a server and after the application restarts on a client.

User Response: For the new database manager configuration parameters to become effective, do one or more of the following:

- for user applications: stop and start the application
- for CLP: TERMINATE and reconnect
- for a server: issue DB2STOP and DB2START

DB21026I For most configuration parameters, all applications must disconnect from this database before the changes become effective.

Explanation: The database configuration command has been successfully processed. However, except for some configuration parameters such as MINCOMMIT, the active database configuration cannot be changed until all applications have disconnected from the database. After the applications disconnect from the database, the first connection to the database will cause the changes to become effective.

User Response: Ensure that all applications disconnect from the database and issue a db2 connect to command. Also, you may want to rebind your packages after the new configuration

parameters take effect so that the new values will be used during the bind.

DB21027E **Isolation level may not be changed while connected to a database.**

Explanation: The user attempted to change the isolation level while connected to a database. The command is ignored.

User Response: If a change in isolation level is necessary, disconnect from the current database, then set the isolation level and re-connect to the database.

DB21028E **The cursor "<cursor-name>" has not been declared.**

Explanation: The specified cursor needs to be declared before issuing an OPEN, FETCH, or CLOSE SQL statement.

User Response: Declare the cursor and resubmit the command.

DB21029E **The cursor "<cursor-name>" has already been declared and opened.**

Explanation: The user attempted to declare a cursor that is open.

User Response: Close the cursor and resubmit the open command.

DB21030E **The cursor "<cursor-name>" has not been opened.**

Explanation: The specified cursor needs to be opened.

User Response: Open the cursor and resubmit the command.

DB21031E **The SQL statement using the cursor "<cursor-name>" ("**<internal-cursor>**") returned:**

Explanation: This message shows the internal cursor name for the user defined cursor. Some SQL error messages may show the internal

cursor name. This message is displayed before the SQL message.

User Response: Correct the SQL error and resubmit the command.

DB21032E **You have already declared the maximum number of cursors.**

Explanation: Command line processor supports 100 cursors declared with the WITH HOLD attribute and 100 cursors declared without the WITH HOLD attribute.

User Response: Re-declare one of the existing cursors and resubmit the command.

DB21033E **The command is not valid for databases that reside on DRDA hosts.**

Explanation: The following commands are not supported for databases that reside on DRDA host servers:

- LIST TABLES
- LIST PACKAGES
- REORGCHK

User Response: Do not issue the command for this database.

DB21034E **The command was processed as an SQL statement because it was not a valid Command Line Processor command. During SQL processing it returned:**

Explanation: This message is displayed before the SQL error message. The error may be caused by a syntax error in a non-SQL command.

User Response: Correct the error and resubmit the command.

DB21035E **The maximum number of items in the "<list-name>" list has been exceeded. The maximum number is "<number>".**

Explanation: The number of items in the list cannot exceed the maximum specified. This error

may be caused by an invalid range specification.

User Response: Correct the error and resubmit the command.

DB21036E The “<command>” command failed.

User Response: Retry the command with the trace active. If the problem persists, save the trace information and contact your technical support with the following information:

- Problem description
- DB2 message number
- Trace file

DB21037W No data sources found.

User Response: There were no ODBC data sources found of the type (USER or SYSTEM) that you specified. Retry the command by specifying the other type (SYSTEM or USER).

DB21040E “<number>” is not a valid in-doubt transaction number.

Explanation: “<number>” is not one of the listed in-doubt transaction numbers.

User Response: Select one of the listed transaction numbers and resubmit the command.

DB21041W <number> indoubt transaction(s) not shown.

Explanation: Command line processor could not display all the in-doubt transactions. The number of transactions not displayed is “<number>”.

User Response: Finish processing the current list of indoubt transactions in order to reduce the total number of indoubt transactions in the system. Next, reissue the list indoubt transactions command.

DB21042E You must specify a transaction number.

Explanation: A transaction number must be specified with the commit (c), rollback (r), or forget (f) in-doubt transaction subcommands.

User Response: Reissue the command with the appropriate transaction number.

DB21043E “<subcommand>” is not a valid request.

Explanation: The in-doubt transaction subcommand specified is not valid. Valid subcommands are:

Subcommand	Description
c <number>	Heuristically commit the in-doubt transaction <number>.
r <number>	Heuristically rollback the in-doubt transaction <number>.
f <number>	Heuristically forget the in-doubt transaction <number>.
l <number>	List all in-doubt transactions or the in-doubt transaction <number>.
q	Exit LIST INDOUBT TRANSACTION prompting.

NOTE: The “f <number>” command is not available in DB2 Extended Enterprise Edition.

User Response: Correct the error and resubmit the command.

DB21044E Cannot COMMIT transaction number “<number>”.

Explanation: The transaction must be in a prepared state (i) when you issue the commit (c) subcommand.

User Response: Issue another command.

DB21045E Cannot ROLLBACK transaction number “<number>”.

Explanation: The transaction must be in a prepared (i) or idle (e) state. when you issue the rollback (r) subcommand.

User Response: Issue another command.

DB21046E Cannot FORGET transaction number "<number>".

Explanation: The transaction must be in a heuristically committed (c) or heuristically rolled-back (r) state when you issue the forget (f) command.

User Response: Issue another command.

DB21050E "<state>" is not a valid SQLSTATE.

Explanation: The sqlstate specified is not valid or could not be found. Valid states are numerical and two or five digits in length.

User Response: Resubmit the command using a different state.

DB21051E The command is not supported for this environment.

Explanation: The command requested is currently not supported by the command line processor in the environment being used.

User Response: Resubmit the command on a different platform or within a different environment.

DB21052I "<command>" has been submitted for execution.

Explanation: The command line processor is attempting to execute the indicated command. It will be unable to determine whether the command has completed successfully.

User Response: If the command appears unsuccessful, submit it from outside the command line processor.

DB21053W Automatic escalation will occur when you connect to a database that does not support <isolation-level>.

Explanation: Isolation levels are database dependent. Some, like NC, are only supported by specific databases. If you select an isolation level that is not supported by the database you are

connecting to, it will automatically escalate to a supported level.

User Response: Connect to a database that supports the isolation level you have selected, or select a different isolation level.

**DB21054E The command line processor encountered a system error with the <command> command.
Reason code = <reason code>.**

Explanation: The command line processor was unable to get enough memory to process your command. A system error occurred while processing it.

Reason

code	Description	Syntax
1	Data file	LOAD FROM file/pipe/dev...
2	Lob data	LOBS FROM lob-path...
3	Directory	USING directory...
4	Source	FROM dir/dev...
5	Target	TO dir/dev...
6	Tablespace	TABLESPACE tblspace-name...
7	Tblspace-def	MANAGED BY...
8	Container data	USING (PATH..., PATH...) or USING ({FILE DEVICE}..., {FILE DEVICE}...)
9	Log path	log-directory ..., log-directory ...
10	Node list	node-number ..., node-number ...

User Response: Correct the error and resubmit the command.

DB21055W Command not valid for type 2 connections.

Explanation: The information returned by the GET CONNECTION STATE command does not apply to type 2 connections.

User Response: Issue QUERY CLIENT to verify CONNECT = 1.

DB21056W Directory changes may not be effective until the directory cache is refreshed.

Explanation: If directory caching (DBM CFG dir_cache) is enabled, database, node, and DCS directory files are cached in memory. Directory changes may not become effective until the directory cache is refreshed. Refer to the dir_cache configuration parameter in the ADMIN guide for a description on directory caching.

User Response: To refresh CLP's directory cache, issue a db2 TERMINATE. To refresh the directory information for another application, stop and restart that application. To refresh the directory information for the database, stop (db2stop) and restart (db2start) the database.

DB21057E Invalid tape device specified.

Explanation: The tape device passed to the operating system was not accepted. On Windows NT it must be of the form "\\.\TAPEx" where x represents the drive number (0 is the first).

User Response: Reissue the command specifying a valid tape device.

DB21058E Invalid tape position specified.

Explanation: The tape mark position specified is not valid. On Windows NT the first tape position to which a backup is record is 1. Subsequent backup images begin at tape mark 2 and so on.

User Response: Reissue the command specifying a valid tape position.

DB21059E Invalid tape blocksize specified.

Explanation: The tape mark blocksize specified is not in the range supported by the tape device. In addition, for backup/restore to work it must also be a factor of or multiple of 4096.

User Response: Reissue the command specifying a valid tape size.

DB21060E General tape failure.

Explanation: An unexpected return code was returned from the tape operation.

User Response: Resubmit the command. If the error occurs again, get help from your system administrator.

DB21061E Command line environment not initialized.

Explanation: You have tried to invoke the command line processor from a command window that was not started by db2cmd.exe.

User Response: Issue DB2CMD to start a command window that has the command line processor environment initialized.

DB21080E No previous RESTORE DATABASE command with REDIRECT option was issued for this database alias, or the information about that command is lost.

Explanation: You have tried to run the RESTORE DATABASE command with the CONTINUE or ABORT option. However, either you didn't previously issue a RESTORE DATABASE command with the REDIRECT option, or you did issue such a command but for a different database alias than the one specified on the failing command. Another possible cause for this message could be that the information about a correctly issued previous RESTORE DATABASE ... REDIRECT command was lost. This can happen if the CLP back-end process terminates abnormally, or if you issue the TERMINATE command.

User Response: Restart the whole redirected restore process by issuing the RESTORE DATABASE ... REDIRECT command and SET TABLESPACE CONTAINERS commands again. Then issue the RESTORE DATABASE ... CONTINUE command.

DB21081E **No sections were found in the db2cli.ini file.**

Explanation: You have tried to list CLI parameters in the db2cli.ini file by using the GET CLI CONFIGURATION command, but the file is empty. There are no sections in that file.

User Response: To update the db2cli.ini file, use the UPDATE CLI CONFIGURATION command.

DB21082E **You don't have enough authority to run the UPDATE CLI CONFIGURATION command.**

Explanation: You need to have SYSADM authority to run this command.

User Response: Obtain the necessary authority from your database administrator, then issue the command again.

DB21083E **Section <section> not found.**

Explanation: Section <section> was not found in the db2cli.ini file.

User Response: Specify an existing section and issue the command again.

DB21084E **NEW and CONFIRM passwords not the same.**

Explanation: You were using the ATTACH or CONNECT command and specified that you wanted to change your password. The new password needs to be specified twice, by using the NEW and CONFIRM clauses, or by responding to the prompts. The two passwords you specified as your new password were different.

User Response: Specify the same password twice.

DB21085I **Instance "<instance_name>" uses DB2 code release "<rel_ver_mod>" with level identifier "<level_id>" and informational tokens "<build_id1>", "<build_id2>" and "<build_id3>".**

Explanation: This message is the output of the db2level command and provides detailed information about the code level of a given DB2 instance. The information may be request by DB2 service personnel to aid in resolving problems.

User Response: Record all displayed information to provide to DB2 service personnel.

The db2level executable should not be copied from one machine to another. Only DB2 installation and service maintenance programs should manipulate this file.

The db2level executable will not display information about private test fixes that the customer has received from DB2 service personnel and installed on top of an officially supported service level.

DB21600N **The "<command>" command did not complete successfully.**

Explanation: Errors were encountered during the execution of this command.

User Response: Contact your technical service representative. Information in the db2diag.log file will enable your service representative to determine the cause of the failure.

DB29320W **Output has been truncated.**

Explanation: The full query result cannot be fetched as supplied. Command line processor output can be a maximum of MAX_STATEMENT_SIZE characters. However the output of any particular column cannot exceed MAX_COLUMN_SIZE characters in length.

User Response: The CLP query can be rewritten to fetch a shorter string. Use of another interface to DB2 can also help in overcoming the CLP's limitation.

DB29501E **DB2 has detected an inconsistent environment. Please investigate the following : "<error>"**

Explanation: An error in the operating environment has been detected.

User Response: This error may arise due to an inconsistent DB2 or operating system environment. Attempt to correct the problem identified in the error message and re-issue the command.

DB29502E **An incompatible Java Runtime Environment has been detected. Please verify that the required level of the Java Runtime Environment has been installed. The Java application may be launched using the Java runtime installed with DB2.**

Explanation: The installed Java runtime is not supported by the DB2 Java application.

User Response: The installed DB2 Java runtime will be used to launch the DB2 Java application. Other Java applications using the installed Java runtime should be terminated prior to executing the DB2 Java application to ensure correct behaviour.

DB29503E **Connections to multiple databases is not supported.**

Explanation: You cannot connect to more than one database.

User Response: Connect to only one database.

DB29504E **Connections to multiple users is not supported.**

Explanation: You cannot connect to more than one user.

User Response: Connect to only one user.

DB29526E **You cannot drop this table; it does not exist. Please select a job that has results, and try again, or select a recurring job that is scheduled and try again.**

Explanation: A request was made to drop a result table for a job which did not have an associated result table.

User Response: Select a job that has a results or select a recurring job that is scheduled and try again.

DB29543E **Resource DLL rqsres.dll not found.**

Explanation: Resource DLL rqsres.dll could not be loaded successfully.

User Response: During initialization of DB2 Query Patroller Recurring Query Scheduler the resource DLL rqsres.dll could not be loaded as it was either damaged or deleted. Please reinstall DB2 Query Patroller QueryEnabler.

DB29544E **Resource DLL qeres.dll not found.**

Explanation: Resource DLL qeres.dll could not be loaded successfully.

User Response: During initialization of DB2 Query Patroller QueryEnabler the resource DLL qeres.dll could not be loaded as it was either damaged or deleted. Please reinstall DB2 Query Patroller QueryEnabler.

DB29545E **Name invalid: Query Name can only be 20 characters or less in length. Please change the name accordingly and retry.**

Explanation: A name for a query was specified which was longer than 20 characters.

User Response: Specify a query name that has at most 20 characters.

DB29546E **Name invalid: Query Name can only contain alphanumeric characters and spaces...(“a..z”, “A..Z”, “0..9”). Please change the name accordingly and retry.**

Explanation: A name for a query was specified which contained non-alphanumeric characters.

User Response: Specify a query name composed of only alphanumeric characters.

DB29608E **Script Load Failed.**

Explanation: Script files required by DB2 Query Patroller Tracker could not be found.

User Response: Please reinstall DB2 Query Patroller Tracker.

DB29610E **Could not load the ODBC Driver Manager.**

Explanation: The ODBC driver dll ODBC32.DLL could not be loaded.

User Response: The ODBC driver dll ODBC32.DLL could not be loaded as it was damaged or destroyed. Please reinstall ODBC.

DB29611E **Three login attempts failed! Exiting Tracker!**

Explanation: DB2 Query Patroller Tracker requires to connect to the ODBC Data Source specified on the login dialog. The userid, password combination specified on the login dialog was not authorized to connect to the specified database.

User Response: Please relaunch DB2 Query Patroller Tracker and provide a valid userid password combination for the ODBC Data source specified on the login dialog.

DB29613E **Resource DLL tkres.dll not found.**

Explanation: DB2 Query Patroller Tracker requires the resource dll tkres.dll for successful operation. The dll could not be loaded.

User Response: During initialization of DB2

Query Patroller Tracker the resource DLL tkres.dll could not be loaded as it was either damaged or deleted. Please reinstall DB2 Query Patroller Tracker.

DB29700E **The application programming interface “<program>” did not complete successfully for object “<name>” with reason code “<name>”. Try again or contact your local support.**

Explanation: An application programming interface call did not complete.

User Response: Try the operation again or contact your system administrator.

DB29701E **Class “<class name>” not found. Please check you classpath.**

Explanation: The “<class_name>” cannot be located in the specified classpath.

User Response: Verify the classpath is correct. If you are using QueryAdmin.bat or QueryMonitor.bat please check the classpath setting in the batch file.

DB29702E **User “<user_id>” does not have administrative authority to use QueryAdministrator.**

Explanation: User “<user_id>” does not have Administrative authority defined in the **DB2 Query Patroller** User Profile table.

User Response: Have a **DB2 Query Patroller** ensure that “<user_id>” has the authorization necessary to perform the operation.

DB29703E **User “<user_id>” is not defined in User Profile.**

Explanation: User “<user_id>” is not defined in the **DB2 Query Patroller** user profile table.

User Response: Have a **DB2 Query Patroller** ensure that “<user_id>” is defined in the User Profile table.

DB29704E User iwm cannot be removed.

Explanation: User iwm is the mandatory userid needed for **DB2 Query Patroller** so it cannot be removed.

User Response:

DB29705W Invalid value entered for “<column_name>”. Valid ranges are from “<minimum_value>” to “<maximum_value>”.

Explanation: The value entered for “<column_name>” is invalid.

User Response: Reenter a value that is specified with the range.

DB29706E Job Queue “<queue_id>” cannot be removed. There are one or more incomplete jobs in this queue.

Explanation: This job queue “<queue_id>” cannot be removed since there are still jobs running on the queue.

User Response: Wait until all jobs that are on the queue are completed before deleting it.

DB29707E Result Destination “<destination_name>” is already defined.

Explanation: The “<destination_name>” specified is already defined.
“<destination_name>” must be unique.

User Response: Specify a unique “<destination_name>”.

DB29708E User “<user_id>” is already defined.

Explanation: The “<user_id>” specified is already defined. “<user_id>” must be unique.

User Response: Specify a unique “<user_id>”.

DB29709E Group “<group_id>” is already defined.

Explanation: The “<group_id>” specified is already defined. “<group_id>” must be unique.

User Response: Specify a unique “<group_id>”.

DB29710E Job queue “<queue_id>” is already defined.

Explanation: The “<queue_id>” specified is already defined. “<queue_id>” must be unique.

User Response: Specify a unique “<queue_id>”.

DB29720E User “<user_id>” does not have the necessary authority to use QueryMonitor.

Explanation: User “<user_id>” is defined in the **DB2 Query Patroller** User Profile table but has no authority.

User Response: Have a **DB2 Query Patroller** ensure that “<user_id>” has the authorization necessary to perform the operation.

DB29721E Error encountered when submitting a new job. Reason code : “<reason_code>”.

Explanation: An error was encountered when submitting a new query. Check the reason code returned.

Reason codes map to a valid SQL message. Check the help for the corresponding SQL message.

User Response: Correct the problem and retry this operation.

DB29722E **Error encountered during job sequence number generation.**
Reason code : “<reason_code>”.
Job will not be submitted.

Explanation: An error was encountered during job sequence number generation. Check the reason code returned.

Reason codes map to a valid SQL message. Check the help for the corresponding SQL message.

User Response: Correct the problem and retry this operation.

DB29723E **Error encountered during purging of a result set for job “<job_id>”.**
Reason code : “<reason_code>”.

Explanation: An error was encountered when purging the specified result set. Check the reason code returned.

Reason codes map to a valid SQL message. Check the help for the corresponding SQL message.

User Response: Correct the problem and retry this operation. The table may have been dropped manually outside of the system environment.

DB29724E **Error encountered when attempting to change status for job “<job_id>”. Reason code : “<reason_code>”.**

Explanation: An error was encountered when changing the status for the specified job. Check the reason code returned.

Reason codes map to a valid SQL message. Check the help for the corresponding SQL message.

User Response: Correct the problem and retry this operation.

DB29725E **Error encountered during resubmit of job “<job_id>” with SQL statement “<SQL_stmt>”.**
Reason code : “<reason_code>”.

Explanation: An error was encountered when resubmitting the specified job. Check the reason code returned.

Reason codes map to a valid SQL message. Check the help for the corresponding SQL message.

User Response: Correct the problem and retry this operation.

DB29726E **Request completed successfully.**

Explanation: The request was successful.

User Response:

DB29801E **Invalid command line parameters.**

Explanation: The parameter for command line specified is missing or incorrect.

User Response: Correct the problem and retry this operation.

DB29802E **Completed with Error.**

Explanation: The program terminated due to an error. Please see the associated error messages for the reason.

User Response: Correct the problem and retry this operation.

DB29803E **Environment variable “<environment_variable>” is not set.**

Explanation: The required “<environment_variable>” is not set.

User Response: Set the “<environment_variable>” and retry the operation.

DB29804E **A memory allocation error has occurred.**

Explanation: During processing, there was not enough memory to continue processing.

User Response: Ensure that your system has sufficient real and virtual memory.

DB29805E **User “<user_id>” is undefined.**

Explanation: “<user_id>” is not defined on the operating system.

User Response: Create an operating system user account or use a correct user id.

DB29806E **Cannot change to effective user id to “<user_id>”. Error : “<os_error>”.**

Explanation:

User Response:

DB29807E **An I/O error (reason = “<code>”) occurred while reading the file “<file>”.**

Explanation: The read operation against “<file>” failed.

User Response: Determine if the I/O error can be corrected and resubmit the command.

DB29808E **An I/O error (reason = “<code>”) occurred while writing the file “<file>”.**

Explanation: The write operation against “<file>” failed.

User Response: Determine if the I/O error can be corrected and resubmit the command.

DB29809E **An I/O error (reason = “<code>”) occurred during a read operation.**

Explanation: Incomplete data was read during an I/O operation.

User Response: Determine if the I/O error can

be corrected and resubmit the command.

DB29810E **An I/O error (reason = “<code>”) occurred during a write operation.**

Explanation: An I/O error occurred during a write operation. The data may be incomplete.

User Response: Determine if the I/O error can be corrected and resubmit the command.

DB29811E **File “<file_name>” could not be opened (reason = “<code>”).**

Explanation: Error encountered while trying to open file “<file_name>”.

User Response: Ensure that the “<file_name>” is correct and exists in the file system, and that the file permissions are correct.

DB29812E **Error occurred while terminating process “<process_id>”.**

Explanation: Error encountered while trying to kill process “<process_id>”.

User Response: Ensure the terminating process has sufficient authority and the process exists.

DB29813E **There is not enough memory available to process the command.**

Explanation: Not enough random access memory (RAM) is available to process the command.

User Response: Check if the system has sufficient paging space. Free up some memory by stopping unused applications.

DB29814E **The request failed because an operating system process, thread, or swap space limit was reached.**

Explanation: An operating system process, thread, or swap space limit was reached.

User Response: Increase the limit which was reached (or have your system administrator increase it).

DB29815E Execution of “<program_name>” failed (reason = “<reason_code>”).

Explanation: Error encountered while executing “<program_name>”.

User Response: Determine if the problem can be fixed and retry the operation.

DB29816I Completed successfully.

Explanation: The request was successful.

User Response: No action necessary.

DB29820E Unknown job type “<type>” for job “<job_id>”.

Explanation: The **iwm_nodemgr** process encountered a job with an unrecognized type.

User Response: Resubmit the query. If problem persists contact an IBM Service representative.

DB29821E Another node manager is running.

Explanation: Only one **iwm_nodemgr** process can run on each node.

User Response:

DB29822E Node manager could not recover jobs.

Explanation: The **iwm_nodemgr** failed to recover jobs that were running when it last failed.

User Response:

DB29823W sysinfo statistics are not being collected.

Explanation: CPU utilization cannot be collected for this node because **sysinfo** facility is disabled.

User Response:

DB29824E Job “<job_id>” not found.

Explanation: The job “<job_id>” was not found in the job table.

User Response:

DB29825I Completion message for job “<job_id>” saved to file “<file_name>”.

Explanation: The agent process has lost contact with the Server component, and was unable to notify it of job completion. When the Node Manager process successfully restarts on this node, the Server component receives notification of the job’s completion.

User Response:

DB29826N Error encountered when executing “<SQL_statement>”. Error : “<sqlcode>”.

Explanation: The “<SQL_statement>” failed.

User Response: Correct the “<SQL_statement>” and resubmit the job.

DB29827I Too many columns selected.

Explanation: The job’s SQL statement selected too many columns.

User Response: Correct the SQL statement and resubmit the job.

DB29828E Cannot create result table “<result_table>”.

Explanation: The “<result_table>” could not be created.

User Response: Make sure system has sufficient free disk space and the table does not already exist.

DB29829E **SQLDA type “<type>” is not supported for column “<column_name>”.**

Explanation: DB2 Query Patroller does not recognize the database column type.

User Response:

DB29830E **Job “<job_id>” cannot be updated.**

Explanation: The request to update this job cannot be performed because the request change is not valid for the current state of the job.

User Response:

DB29831W **Job “<job_id>” (process id “<process_id>”) is no longer running.**

Explanation: The job terminated without notifying the Server component.

User Response:

DB29832E **Node “<node_name>” not found.**

Explanation: The RequestHandler Node Manager process is not active on the requested node.

User Response:

DB29835W **Node “<node_name>” has not responded for 5 minutes, attempting recovery.**

Explanation: The **iwm_nodemgr** process has not updated the node information for five minutes. The **iwm_sched** process assumes that the node has crashed and will recover jobs scheduled for the node.

User Response:

DB29836E **Scheduler could not recover jobs for node “<node_name>”.**

Explanation: An error occurred during node recovery.

User Response:

DB29837W **No active nodes available to assign jobs.**

Explanation: There are no nodes with an active node manager process.

User Response:

DB29838I **“<number>” result tables over “<number>” days old have been purged.**

Explanation: Purging of result tables has been activated through the **DB2 Query Patroller** system parameters. This message indicates how many result tables have been purged.

User Response: No action necessary.

DB29839I **“<number>” jobs over “<number>” days old have been purged.**

Explanation: Purging of **DB2 Query Patroller** jobs has been activated through the **DB2 Query Patroller** system parameters. This message indicates how many jobs have been purged.

User Response:

DB29840I **PREPARE SQL statement “<SQL_statement>” failed for user “<user_id>” with SQLCODE “<sqlcode>”**

Explanation: The SQL statement could not be PREPARED.

User Response:

DB29841E **“<SQL_statement>” failed. Exit code “<code>”.**

Explanation:

User Response:

DB29842E Error “<sqlcode>” encountered during execution of the following SQL statement:
 “<SQL_statement>”.

Explanation: The SQL statement failed.

User Response: Correct the SQL statement and resubmit request.

DB29843E Failed to connect to database “<database_alias>” with userid “<user_id>”. Error code: “<sqlcode>”.

Explanation: The SQL CONNECT failed.

User Response:

DB29844E User “<user_id>” is not defined in the User Profile table.

Explanation: There is no row in the User Profile table for the user.

User Response: Correct the userid or have an Administrator add a user to the User Profile table.

DB29845E Error opening socket. Error : “<error_code>”.

Explanation: The socket specified cannot be open.

User Response: Determine if the problem can be corrected by examining the “<error_code>”.

DB29846E Error closing socket. Error : “<error_code>”.

Explanation: The socket specified cannot be closed.

User Response: Determine if the problem can be corrected by examining the “<error_code>”.

DB29847E Error occurred while sending or receiving data. Error : “<error_code>”.

Explanation: Error happened while sending / receiving data.

User Response: Determine if the problem can be corrected by examining the “<error_code>”.

DB29848E Error encountered on TCP/IP protocol support. TCP/IP function “<function>”. Socket was “<socket>”. Error : “<error_code>”.

Explanation: The TCP/IP function failed.

User Response: Determine if the problem can be corrected by examining the “<error_code>”.

DB29849E The specified listener port “<listener_port>” is not valid.

Explanation: The specified listener port is not valid.

User Response: Verify the **DB2 Query Patroller** configuration parameters are correctly set.

DB29850E The specified connect port “<connector_port>” is not valid.

Explanation: The specified connect port is not valid.

User Response: Verify the **DB2 Query Patroller** configuration parameters are correctly set.

DB29851E Invalid internet address “<internet_addr>”.

Explanation: The specified internet address is not valid.

User Response: Verify the **DB2 Query Patroller** configuration parameters are correctly set.

DB29852E **TCP/IP could not find host name “<host_name>” in the local Hosts file.**

Explanation: The “<host_name>” specified cannot not be resolved.

User Response: Verify the **DB2 Query Patroller** configuration parameters are correctly set.

DB29853E **Service “<service_name>” is not defined in the TCP/IP services file.**

Explanation: The “<service_name>” specified cannot not be resolved in the TCP/IP service file.

User Response: Verify the **DB2 Query Patroller** configuration parameters are correctly set.

DB29854E **Invalid network identifier “<network_string>”.**

Explanation: The network identifier must be in the form **host-id:port-id** where **host-id** represents either a resolvable host name or the dotted internet address and **port-id** represents either a resolvable service name or a port number.

User Response: Verify the **DB2 Query Patroller** configuration parameters are correctly set.

DB29855E **DB2 Query Patroller server is not available.**

Explanation: The Server component cannot be contacted.

User Response: Verify the **DB2 Query Patroller** configuration parameters are correctly set.

DB29856E **A severe internal processing error has occurred. Error “<error_code>”.**

Explanation: An internal **DB2 Query Patroller** failure occurred.

User Response: Please contact an IBM Service representative.

DB29857E **“<name>” value is missing.**

Explanation: An internal **DB2 Query Patroller** failure occurred.

User Response: Please contact an IBM Service representative.

DB29858E **“<name>” value is invalid.**

Explanation: An internal **DB2 Query Patroller** failure occurred.

User Response: Please contact an IBM Service representative.

DB29859E **Destination “<name>” is no longer valid.**

Explanation: A destination name is no longer active.

User Response:

DB29860E **Expected response message not received.**

Explanation: An internal **DB2 Query Patroller** failure occurred.

User Response: Please contact an IBM Service representative.

DB29861E **Connection to iwm_net lost.**

Explanation: The **iwm_net** program is no longer active.

User Response: Restart the Server component or agent on this node.

DB29862E **Not connected.**

Explanation: An internal **DB2 Query Patroller** failure occurred.

User Response: Please contact an IBM Service representative.

DB29863E Message not understood.

Explanation: An internal **DB2 Query Patroller** failure occurred.

User Response: Please contact an IBM Service representative.

DB29864E iwm_local database access is not available.

Explanation: The **iwm_local** program failed or was not started successfully.

User Response: Restart the DB2 Query Patroller and all agents.

DB29865E iwm_remote database access is not available.

Explanation: The **iwm_remote** program failed or was not started successfully.

User Response: Restart the Server component.

DB29866E iwm_local database access failed.

Explanation: The **iwm_local** program failed or was not started successfully.

User Response: Please contact an IBM Service representative.

DB29867E iwm_remote database access failed.

Explanation: The **iwm_remote** program failed or was not started successfully.

User Response: Please contact an IBM Service representative.

DB29868E Invalid ticket.

Explanation: An internal **DB2 Query Patroller** failure occurred.

User Response: Please contact an IBM Service representative.

DB29869E Logon has expired.

Explanation: Your logon to **DB2 Query Patroller** has expired.

User Response: Log on again.

DB29870E Not authorized.

Explanation: You are not authorized to perform the requested function.

User Response: Contact your System Administrator to obtain the necessary authorization.

DB29871N Mail for job "<job_id>" "<job_status>" could not be sent to "<email_address>". Reason : "<reason_code>".

Explanation: Error encountered during sending of user notification for job "<job_id>".

User Response:

DB29988E The IWM_SERVER environment variable is not set!

Explanation: Environment variable IWM_SERVER was not set.

User Response: Set the environment variable IWM_SERVER to [host]:[port] where [host] refers to IP address of the machine where DB2 Query Patroller Server is installed and [port] refers to the TCP port that the DB2 Query Patroller Server can use for communication.

DB29990E The IWM_RUNTIME environment variable is not set!

Explanation: Environment variable IWM_RUNTIME was not set.

User Response: Set the environment variable IWM_RUNTIME to the fully qualified path where DB2 Query Patroller is installed.

DB29991E **DB2 Query Patroller Server does not seem to be installed correctly!**

Explanation: DB2 Query Patroller Server was not installed correctly!

User Response: Please reinstall DB2 Query Patroller Server.

Chapter 8. SAT Messages

This section contains the Satellite (SAT) messages. The messages are listed in numeric sequence.

SAT1000I **The first application version for this group has been defaulted to match the value used for the Typical satellite install.**

Explanation: If you install a satellite using the Typical method, the satellite's application version will be set to a predefined value. This predefined application version is the same as the default value for the first application version that is created for a group.

User Response: If you did not install the satellites of this group using the Typical method, or you changed the application version for one or more satellites after installation, ensure that the identifier you supply to create a new application version is consistent with the satellite's application version.

SAT1001I **Mandatory information is missing from one of the notebook pages. The notebook will return to the page that is missing information.**

Explanation: All mandatory fields must be filled in for the action to complete.

User Response: Fill in the required information and try the action again.

SAT1002I **A test connection or attachment to the selected target was successful using the specified authentication credentials.**

Explanation: An attempt was made to connect to a target. The connection or attachment was established successfully using the specified authentication credentials.

User Response: No action is required.

SAT2000W **Changes have not been saved. Save now?**

Explanation: You are exiting from a window or notebook without saving your changes.

User Response: To save your changes, click Yes. Otherwise, click No.

SAT2001W **An ATTACH or CONNECT statement was found in the script.**

Explanation: The script contents appear to contain either a CONNECT or an ATTACH statement. On a satellite, the required instance-level attach or database-level connect is automatically established before a DB2 instance or DB2 database script is executed. Consequently, it is not necessary to include ATTACH or CONNECT statements in DB2 instance or database scripts, unless the script specifies more than one execution target.

User Response: If the script does not specify more than one target, remove the CONNECT or ATTACH statement from the script.

SAT2002W **Script contents may not be consistent with the script type.**

Explanation: Either the script contents have been modified in a way that causes an inconsistency with the script type, or the script type has been modified in a way that causes an inconsistency with the script contents.

User Response: Ensure that the script type and the script contents are compatible.

SAT2003W **Implicit table space was created.**

Explanation: Promotion created at least one implicit table space.

User Response: Change the table spaces in the script if the implicit table spaces that are created are not suitable for your business requirements.

SAT2014W **Are you sure that you want to promote satellite “<satellite>” ?**

Explanation: Promoting a satellite causes the satellite to start executing the group’s batches. Only promote a satellite when it has successfully executed the fix batch and is ready to execute group batches.

User Response: Click Yes to promote the satellite back to executing group batches. Otherwise, click No.

SAT2015W **Are you sure that you want to fix the satellite “<satellite>” ?**

Explanation: Setting a satellite to fix mode will prevent the satellite from executing its group batches. The satellite will only be able to execute a fix batch until it is promoted back to executing the group batches. Only set a satellite to fix mode when the satellite requires servicing.

User Response: Click Yes to set the satellite to fix mode so it can execute a fix batch. Otherwise, click No.

SAT2016W **An object with name “<object>” already exists in the database “<database>”. Are you sure you want to overwrite it ?**

Explanation: Overwriting an object will cause all other objects that reference the object to be affected.

User Response: Click Yes to overwrite the object. Otherwise, click No.

SAT2017W **An object with name “<object>” already exists in the database “<database>” and is being used by another object. Are you sure that you want to change the definition of the object ?**

Explanation: Changing the definition of an object will cause all other objects that reference that object to be affected.

User Response: Click Yes to change the definition of the object. Otherwise, click No.

SAT2018W **Are you sure that you want to change the definition of the object “<object>” ?**

Explanation: Changing the definition of an object will cause all other objects that reference that object to be affected.

User Response: Click Yes to change the definition of the object. Otherwise, click No.

SAT2019W **An object with the name “<object>” already exists in the database “<database>”. Would you like to rename “<object>” before it is created in “<database>”?**

Explanation: While creating “<object>” in “<database>”, another object with the same name was found to already exist. Objects must have a unique name.

User Response: Click Yes to save the object under a different name. Otherwise, click No. The object will not be created.

SAT2020W **At least one of the specified satellites is currently online. No action is taken on satellites that are online.**

Explanation: When a satellite is online and synchronizing, it cannot be altered.

User Response: Determine which satellites are currently online. Wait until these satellites are offline, and try the request again.

SAT2021W **A test connection or attachment to the selected target was not successful using the specified authentication credentials.**

Explanation: An attempt was made to connect or attach to a target. The connection could not be established because of an authentication error.

User Response: Verify that the authentication credentials are correct for the target, and try the request again.

SAT2022W **You will be able to make modifications to this satellite when it is a test satellite. Care should be taken to ensure the satellite's state remains consistent.**

Explanation: Setting a satellite as a test satellite means that it will execute test batches. A test batch may contain batch steps that produce uncertain outcomes, and may put the satellite into an inconsistent state. A satellite should only be set as a test satellite when it is acceptable to subject it to these risks.

User Response: Click OK to set the satellite as a test satellite. Otherwise, click Cancel.

SAT2023W **Are you sure you want to change this test satellite to a production satellite? The administrative function available for this satellite will be severely restricted.**

Explanation: A test satellite is used to try out configuration changes before these changes are made available to the production satellites. Consequently, a test satellite may become inconsistent when configuration changes do not succeed. To repair the test satellite, return it to a consistent state so that the configuration changes can be iteratively tested. More administrative actions can be performed against a test satellite. If the satellite is changed to a production satellite, it can no longer be used for test purposes. The administrative function available for this satellite will necessarily be severely restricted.”;

User Response: Click OK to set the satellite as a production satellite. Otherwise, click Cancel.

SAT2024W **Synchronization session is in progress. Are you sure that you want to terminate it?**

Explanation: A synchronization session was in progress when the terminate action was issued.

User Response: If you continue with the termination, the synchronization session will be stopped before it completes. You should cancel the termination, and allow the synchronization session to complete.

SAT3000N **The name “<name>” already exists.**

Explanation: The name of the object you are attempting to create, “<name>”, already exists.

User Response: Specify a unique name.

SAT3001N **The target name of a copy, “<targetname>”, already exists in the database “<cdb>”.**

Explanation: The name provided for the copy, “<targetname>”, is not unique in the target satellite control database “<cdb>”.

User Response: Specify a unique name.

SAT3002N **Application version “<application version name>” already exists for the group “<group name>”.**

Explanation: The name supplied for this application version is already being used for this group.

User Response: Specify a name for the application version that is not already in use by the group “<group name>”.

SAT3003N **No application versions exist for this group.**

Explanation: The requested action against the group requires at least one application version.

User Response: Create an application version for the group.

SAT3004N The object “<name>” does not exist.

Explanation: The specified object, “<name>”, does not exist. It may have been removed after the view containing the object was filled.

User Response: Refresh the view in which the object appears.

SAT3005N The object “<name>” cannot be deleted because it is currently referred to by another object.

Explanation: The object “<name>” cannot be deleted because another object references it. Consistency cannot be maintained if “<name>” is deleted.

User Response: Delete all objects that are dependent on the object before deleting this object.

SAT3006N Group “<group name>” cannot be deleted because it has at least one enabled satellite.

Explanation: Before a group can be deleted, all of its satellites be disabled so that they can be deleted along with the group. At least one satellite in the group was found to be enabled.

User Response: Disable all the satellites in this group.

SAT3007N Group “<group name>” cannot be deleted because it has at least one application version that has either a test-level or a production-level batch.

Explanation: Production-level and test-level batches are considered to be active levels that are used by satellites. Consequently, they cannot be deleted. Therefore, the application version, and hence the group, to which they belong cannot be deleted.

User Response: Obsolete all the

production-level batches and remove all the test-level batches for this group. Then try the request again.

SAT3008N Application version “<application version name>” cannot be deleted because it has either a test-level or a production-level batch.

Explanation: Production-level and test-level batches are considered to be active levels that are used by satellites. Consequently, they cannot be deleted. Therefore, the application version to which they belong cannot be deleted.

User Response: Obsolete the production-level batches and remove the test-level batches for this application version. Then try the request again.

SAT3009N No generalized replication subscription sets exist for the group “<group name>”.

Explanation: No generalized replication subscription sets exist for the group “<group name>”. The specified action requires at least one generalized replication subscription to exist.

User Response: Define one or more generalized replication subscription sets for this group.

SAT3010N No application versions exist for the group “<group name>”.

Explanation: No application versions exist for the group “<group name>”. The specified action requires at least one application version to exist.

User Response: Define an application version for this group.

SAT3011N No default replication subscription sets exist for the application version “<application version name>” in group “<group name>”.

Explanation: Default replication subscription sets for application version “<application version name>”, in group “<group name>”, are generated by the generalize action. Such

subscription sets are necessary before it is possible to customize the generalized replication subscription.

User Response: Ensure the generalized action completed successfully, and try the request again.

SAT3012N **A default replication control server for application version “<application version name>”, in group “<group name>”, is generated by the generalize replication subscription action. Such a control server is necessary before the generalized replication subscription can be customized.**

Explanation: A default replication control server for application version “<application version name>” in group “<group name>” does not exist.

User Response: Ensure that the generalizing of the replication subscription completed successfully. Then try the request again.

SAT3013N **The confirmation password does not match the specified password.**

Explanation: The confirmation password must exactly match the specified password. Passwords are case sensitive.

User Response: Type the confirmation password again. Ensure that all characters typed are in the same case as the original password.

SAT3014N **At least one of the specified batch steps does not have a target alias, a success code set, or both.**

Explanation: When a script is imported or added as a new batch step, a target alias and a success code set must be added for the new batch step if not provided.

User Response: Identify which batch steps are missing a target alias or a success code set, and add the missing information.

SAT3015N **A target alias has not been selected. You must select a target alias before you can specify the authentication credentials.**

Explanation: A target alias must be specified before an authentication can be associated with it.

User Response: Specify a target alias. Then try the request again.

SAT3016N **An application version has not been set for this satellite. This page will be disabled until the satellite reports its application version.**

Explanation: A satellite executes the batches of an application version. This satellite has not yet reported its application version. Therefore, batch steps cannot be specified for it.

User Response: Assign the satellite an application version on the satellite itself. You cannot perform this action from the Satellite Administration Center.

SAT3017N **The action cannot be performed. An application version has not been set.**

Explanation: A satellite executes the batches of an application version. This satellite has not yet reported its application version. Therefore, the specified action cannot be performed.

User Response: Assign the satellite an application version on the satellite itself. You cannot perform this action from the Satellite Administration Center.

SAT3018N **The type of the execution target specified is not correct for the type of the script.**

Explanation: A target alias has been selected that is not correct. The script is designed to execute against a different type of target.

User Response: Choose a target alias that is of

the same type as the selected script. Then try the request again.

SAT3019N The specified success code ranges are in conflict.

Explanation: A success code set cannot contain a greater than (>) relation that specifies a range of numbers that overlap the range of numbers that is specified by a less than (<) relation. For example, the following two relations are not allowed in the same success code set: > 10, < 11.

User Response: Either remove or correct those success relations from the success code set that cause the overlap in ranges. To specify a finite range of numbers between two numbers, a and b, an equals (=) relation must be specified for each number in the range. For example, to specify a finite range of numbers between 5 and 10 as success codes, the following equals relations are required: =5,=6,=7,=8, =9 and =10.

**SAT3022N Promotion failed with the following error:
SQLCODE="<sqlcode>",
SQLSTATE="<sqlstate>", tokens:
"<token1>", "<token2>",
"<token3>". The error was
detected at location "<location>".**

Explanation: Promotion failed in an unexpected way.

User Response: Contact the help desk or your system administrator.

SAT3023N A system or internal error occurred.

Explanation: The possible errors include a system error returned by the operating system, insufficient resources, or an incorrect configuration.

User Response: Verify your replication configuration, or contact your system administrator or IBM Service.

SAT3024N A replication server is at a level that is not supported.

Explanation: The product level of a replication server is not supported.

User Response: Upgrade to a supported level.

SAT3025N An authentication failure occurred when connecting to a replication server.

Explanation: This action requires authentication with the replication servers. Authentication with one of the servers failed.

User Response: Ensure that you supplied the correct user ID and password. Either try the request again, or contact your system administrator.

SAT3026N The size of a generated script exceeds the available storage.

Explanation: This action generates scripts. At least one of the generated scripts is larger than the maximum available storage.

User Response: Contact your system administrator or IBM Service.

SAT3027N The database directory entry for a replication source server, control server, or target server does not exist at instance "<instance name>".

Explanation: This action requires the existence of a database directory entry for the replication source servers, control server, and target server at the instance "<instance name>". At least one of the directory entries could not be found.

User Response: Catalog the replication source servers, control server, and target server at "<instance name>". Or contact your system administrator or IBM Service.

SAT3028N **The fix batch “<batch>” cannot be deleted because it is being used by at least one satellite.**

Explanation: A batch cannot be deleted if it is currently being used.

User Response: Wait until the batch is no longer used by any satellite. Then try the request again.

SAT3029N **The script “<script>” cannot be changed because it is being used by at least one production or obsolete batch step.**

Explanation: A script can only be modified if it is not being used by a production or obsolete batch step.

User Response: Ensure that the script is not currently being used by a production or obsolete batch step. Then try the request again.

SAT3030N **The specified obsolete batch step cannot be deleted because it is being used by a batch that is not obsolete.**

Explanation: An obsolete batch step can only be deleted if it is not being used by any batch that is not obsolete.

User Response: If the batch that uses this batch step is no longer in use by any satellite, move it to the obsolete level. Then try the request again.

SAT3031N **The batch step cannot be deleted because it is not the last step in the set of batch steps.**

Explanation: A batch step cannot be deleted from the middle of a set of batch steps. All batch steps after it must first be deleted.

User Response: Delete all the batch steps that follow the batch step to be deleted. Then try the request again.

SAT3032N **A production batch step cannot be deleted.**

Explanation: Production batch steps are used by production satellites for synchronization and cannot be deleted. Only test, unassigned, and obsolete batch steps can be deleted.

User Response: Take the batch step out of production. Then try the request again.

SAT3033N **Satellite synchronization failed because the satellite control database SATCTLDB cannot be found in the database directory.**

Explanation: The satellite control database is not cataloged correctly in the database directory.

User Response: Contact the help desk or your system administrator.

SAT3034N **Satellite synchronization failed because of an authentication error at the satellite control server.**

Explanation: Either the user ID or the password sent to the control server is not correct.

User Response: Contact the help desk or your system administrator.

SAT3035N **Satellite synchronization failed because the satellite ID could not be found locally.**

Explanation: This error may result from bypassing the operating system logon.

User Response: If you are already logged on to the operating system, contact the help desk or your system administrator.

SAT3036N **Satellite synchronization failed because the satellite control server does not recognize this satellite.**

Explanation: Either the satellite ID is not defined correctly on the satellite or this satellite is not defined correctly at the satellite control server.

User Response: Contact the help desk or your system administrator.

SAT3037N Satellite synchronization failed because of an unknown error.

Explanation: Unknown.

User Response: Contact the help desk or your system administrator.

SAT3038N The synchronizer has detected a severe DB2 error. Synchronization cannot continue.

Explanation: The cause of this severe error is not known.

User Response: Contact the help desk or your system administrator.

SAT3039N Satellite synchronization failed. The satellite is in fail state at the satellite control server.

Explanation: This satellite is in fail state, and must be fixed.

User Response: Contact the help desk or your system administrator.

SAT3040N Satellite synchronization failed because the satellite control server cannot be contacted.

Explanation: Communications could not be established between the satellite and its control server. One possible reason is that the control server is not operational, or communications configuration is not correct (for example, the host name or port number for the satellite control server is not correct).

User Response: Contact the help desk or your system administrator.

SAT3041N Satellite synchronization failed because communications with the satellite control server was lost.

Explanation: A communication link failure occurred. Either the satellite control server

became inactive, or a network failure was experienced.

User Response: Contact the help desk or your system administrator.

SAT3042N The satellite synchronization session did not complete all tasks successfully.

Explanation: An error occurred during the satellite synchronization session.

User Response: Contact the help desk or your system administrator.

SAT3043N The satellite synchronization session did not start successfully.

Explanation: An error occurred during the start-up phase of the satellite synchronization session.

User Response: Contact the help desk or your system administrator.

SAT3044N The cleanup phase of the satellite synchronization session did not complete successfully.

Explanation: An error occurred during the cleanup phase of the satellite synchronization session.

User Response: Contact the help desk or your system administrator.

SAT3045N “<control server>” is not a valid replication control server.

Explanation: The selected server is not a valid replication control server. The request cannot be completed.

User Response: Select a valid replication control server, then try the request again.

SAT3046N **No generalized replication subscription sets exist for application version “<application version name>” in group “<group name>”.**

Explanation: There are no generalized replication subscription sets for the application version “<application version name>” in the group “<group name>”. A generalized replication subscription set must exist before it can be customized.

User Response: Generalize one or more replication subscription sets for the application version, and try the request again.

SAT3047N **The input for field “<field name>” exceeds the limit. The maximum allowable length for this field is “<maximum length>”.**

Explanation: The length of the input in field “<field name>” exceeds the limit “<maximum length>”.

User Response: Ensure that the input is within the maximum limit, then try the request again.

SAT3048N **More than one target server is associated with apply qualifier “<apply qualifier>” at control server “<control server>”.**

Explanation: A target server of a replication subscription represents a satellite in the group that is executing the specified application version. Consequently, there can only be one target server for a given apply qualifier. If your replication configuration specifies a single target server, then the associated apply qualifier may not have been correctly specified. Otherwise, your replication configuration may not be acceptable for generalization to the satellite environment.

User Response: First verify that the replication configuration does not specify more than one target server. If it does, correct the replication configuration, then try the generalize replication subscription request again. If the replication

configuration does not specify more than one target server, ensure that the correct apply qualifier is specified for the generalize replication subscription request. Then try the request again.

SAT4000C **“<cdb>” is not a valid satellite control database.**

Explanation: The database named “<cdb>” is not a valid satellite control database. Any database that is named SATCTLDB is initially assumed to be a satellite control database. Any action pertaining to satellite administration that is performed against such a database will first verify that the database is valid. The action will not succeed if the database is not configured correctly. If “<cdb>” is a satellite control database, then its configuration has been altered such that it can no longer be used. Otherwise, a non-control database has been given the name SATCTLDB.

User Response: To avoid misrepresenting a database as a satellite control database, rename the database to anything other than SATCTLDB. If “<cdb>” is a satellite control database, verify its configuration with the original definition.

Chapter 9. SPM Messages

SPM0400 **Indoubt transaction resolution with DBALIAS="`<dbalias>`" shows heuristic damage - the database rolled back the UOW and the coordinator with LUNAME="`<luname>`" committed. The transaction is identified by LUWID="`<luwid>`".**

Explanation: DB2 was the DRDA2 AS for the transaction identified by "`<luwid>`". Resolution with the DB2 database shows heuristic damage occurred. The database identified by "`<dbalias>`" manually resolved the indoubt transaction. The DB2 database at "`<luname>`" rolled back the transaction. This is inconsistent with the commit decision of the DRDA2 coordinator at "`<luname>`".

- The application was told that the transaction was committed.
- Any resources updated at the participant were rolled back.

dbalias The alias name of the DB2 database.

luname The LU name of the coordinator.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

Indoubt resolution with the participant completes.

User Response: Call the database administrator.

Database Administrator Action: Inform the database administrators at both the COORDINATOR "`<luname>`" and at the DATABASE "`<dbalias>`" that heuristic damage occurred for the transaction with "`<luwid>`". DB2 was a DRDA2 AS for the transaction. The DRDA2 AR at COORDINATOR "`<luname>`"

made the decision to COMMIT the database updates made by "`<luwid>`". The "`<dbalias>`" PARTICIPANT made a heuristic decision to ROLL BACK the updates made by "`<luwid>`".

SPM0401 **Indoubt transaction resolution with DBALIAS="`<dbalias>`" shows heuristic damage - the database committed and the coordinator with LUNAME="`<luname>`" rolled back. The transaction is identified by LUWID="`<luwid>`".**

Explanation: DB2 was the DRDA2 AS for the transaction identified by "`<luwid>`". Resolution with the DB2 DATABASE shows heuristic damage occurred. The database identified by "`<dbalias>`" manually resolved the indoubt transaction. The "`<dbalias>`" committed the transaction. This is inconsistent with the roll back decision of the DRDA2 COORDINATOR at "`<luname>`".

- The application was told that the transaction was rolled back.
- Any resources updated at the participant were committed.

dbalias The alias name of the DB2 database.

luname The LU name of the coordinator.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

Indoubt resolution with the participant completes.

User Response: Call the database administrator.

Database Administrator Action: Inform the database administrators at both the

COORDINATOR "<luname>" and at the DATABASE "<dbalias>" that heuristic damage occurred for the transaction with "<luwid>". DB2 was a DRDA2 AS for the transaction. The DRDA2 AR at COORDINATOR "<luname>" made the decision to roll back the database updates made by "<luwid>". At the PARTICIPANT "<dbalias>" a heuristic decision was made to COMMIT the updates made by "<luwid>".

SPM0402 Indoubt transaction resolution with participant with LUNAME="<luname>" and DBALIAS="<dbalias>" shows heuristic damage - the participant committed and DB2 rolled back. The transaction is identified by LUWID="<luwid>".

Explanation: DB2 has coordinator responsibility for the transaction identified by "<luwid>". Resolution with the participant shows heuristic damage occurred. The participant identified by "<luname>" and "<dbalias>" manually resolved the indoubt transaction. The action taken was to commit the transaction. This is inconsistent with the roll back decision of the coordinator.

- The application was told that the unit of work was rolled back.
- Any resources updated at the participant were committed.

dbalias The database alias of the participant.

luname The LU name of the participant.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

Indoubt resolution with the participant completes.

User Response: Call the database administrator.

Database Administrator Action: Inform the local database administrator and the database administrator at "<luname>" that heuristic

damage occurred for the transaction with "<luwid>". DB2 was the coordinator for the transaction and made the decision to roll back the database updates made by "<luwid>". At "<luname>" a heuristic decision was made to COMMIT the updates made by "<luwid>".

SPM0403 Indoubt transaction resolution with participant with LUNAME="<luname>" and DBALIAS="<dbalias>" shows heuristic damage - the participant rolled back and DB2 committed. The transaction is identified by LUWID="<luwid>".

Explanation: DB2 has coordinator responsibility for the transaction identified by "<luwid>". Resolution with the participant shows heuristic damage occurred. The participant identified by "<luname>" and "<dbalias>" manually resolved the indoubt transaction. The action taken was to roll back the UOW. This is inconsistent with the commit decision of the coordinator.

- The application was told that the transaction committed.
- Any resources updated at the participant were rolled back.

luname The LU name of the participant.

dbalias The data base alias of the participant.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

Indoubt resolution with the participant completes.

User Response: Call the database administrator.

Database Administrator Action: Inform the local database administrator and the database administrator at "<luname>" that heuristic damage occurred for the transaction with "<luwid>". DB2 was the coordinator for the transaction and made the decision to COMMIT the database updates made by "<luwid>". At

"<luname>" a heuristic decision was made to ROLL BACK the updates made by "<luwid>".

SPM0404 **Protocol error during indoubt transaction resolution with coordinator with LUNAME="<luname1>" - the DB2 database with LUNAME="<luname2>" has an indoubt transaction which is identified by LUWID="<luwid>"**.

Explanation: DB2 was the DRDA AS for the transaction identified by "<luwid>". The DB2 transaction associated at the database with LUNAME="<luname2>" is indoubt. A protocol error occurred during indoubt resolution with the coordinator identified by "<luname1>".

luname1

The LU name of the partner acting as the coordinator.

luname2

The LU name of the database where the transaction is indoubt.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

The indoubt transaction remains indoubt. A Resync Protocol Violation trace record is written.

User Response: Call the database administrator.

Database Administrator Action: DB2 does not attempt to automatically resolve the indoubt transaction. The transaction must be manually resolved. The commit or abort decision made at the coordinator must be determined so that the same decision can be made at this participant DB2.

Contact the database administrator at the coordinator with "<luname>" and "<dbalias>", to determine whether the transaction committed or aborted.

Use the LIST INDOUBT TRANSACTIONS command at this (the participant) dbalias to

resolve the indoubt transaction.

SPM0405 **A transaction with LUWID="<luwid>" at the DB2 database with LUNAME="<luname1>" is indoubt because of a communicaiton failure with the coordinator with LUNAME="<luname2>"**.

Explanation: During execution of the two phase commit protocol with the coordinator at "<luname2>", a communication failure occurred. Phase 1 of the protocol completed and the transaction at the database with "<luname1>" is indoubt.

The transaction is placed in the indoubt state and appears in the LIST DRDA INDOUBTS TRANSACTIONS report. Periodic attempts are made to reestablish communication with the coordinator for automatic resolution.

luname1

The LU name of the database where the transaction is indoubt.

luname2

The LU name of the coordinator.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the indoubt unit of work is printed following this message.

Periodic attempts will be made to automatically resolve the indoubt transaction.

User Response: Determine the cause of the communication failure and have the problem corrected. DB2 periodically attempts to establish communication for automatic resolution. If automatic resolution does not occur in a reasonable amount of time, call the database administrator. Manual resolution of the indoubt transaction might be necessary to release locked resources.

Database Administrator Action: If manual resolution is necessary:

- Determine the commit or abort decision made at the coordinator so that the same decision can be made at the DB2 database. Contact the database administrator at the coordinator with "<luname>" to determine whether the transaction committed or aborted.
- Use the LIST INDOUBTS TRANSACTION command at this (the participant) dbalias to resolve the indoubt transaction.

SPM0406 **A transaction with LUWID="<luwid>" at the participant with LUNAME="<luname>" and DBALIAS="<dbalias>" may be indoubt because of a communication failure. DB2 committed.**

Explanation: During execution of the two phase commit protocol with the participant at "<luname>", a communication failure occured. Phase 1 of the protocol completed and the transaction is prepared for either commit or abort. The decison to commit the transaction was made, but cannot be communicated to the participant at this time. The participant is indoubt.

DB2 becomes responsible for indoubt resolution with the participant. This responsibility appears in the LIST DRDA INDOUBTS TRANSACTION report. Periodic attempts are made to reestablish communication with the participant for automatic resolution.

- luname** The LU unit name of the participant.
- dbalias** The database alias name of the participant.
- luwid** The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

Periodic attempts will be made to automatically resolve the indoubt transaction at the participant.

User Response: Determine the cause of the

communication failure and have the problem corrected. DB2 periodically attempts to reestablish communication for automatic resolution. If automatic resolution does not occur in a reasonable amount of time, call the database administrator. Manual resolution of the transaction might be necessary at the participant to release locked resources.

Database Administrator Action: If manual resolution is necessary, inform the database administrator at the participant that the decision is commit.

SPM0407 **Automatic resolution of the transaction with LUWID="<luwid>" with the coordinator at LUNAME="<luname>" resulted in commit. The DB2 Universal Database is = "<dbname>"**

Explanation: The indoubt transaction at the database identified by "<dbname>" was automatically resolved by communication with the coordinator identified by "<luname>". The transaction was committed.

- luname1** The LU name of the coordinator.
- luwid** The SNA logical unit of work id of the transaction.
- luname2** The LU name of the database where the changes were made.

The XID associated with the unit of work is printed following this message.

Processing continues normally.

SPM0408 **A communication failure occurred during automatic resolution with LUNAME=<luname>. Communication protocol being used=<protocol>. Communication API being used=<api>. Communication function detecting the error=<function>. Protocol specific error codes=<rc1>,<rc2>,<rc3>.**

Explanation: One or more indoubt transactions exist with "<luname>". DB2 attempted to automatically resolve the indoubt transaction but a communication error occurred.

protocol

The communication protocol being used. Only "APPC" is supported.

api

The communication api being used. Either "CM2 APPC" or "SNA/6000 OS Subroutines" may be specified.

codes

For "CM2 APPC" api, the rc1, rc2, and rc3 contain the primary return code, secondary return code and possibly an SNA sense code. For "SNA/6000 OS Subroutines" api, rc1 contains the errno global variable.

User Response: Determine the cause of the communication failure and have the problem corrected. DB2 periodically attempts to reestablish communication for automatic resolution. If automatic resolution does not occur in a reasonable amount of time, call the database administrator. Manual resolution of the transaction might be necessary at the participant to release locked resources.

Database Administrator Action: If manual resolution is necessary, inform the database administrator at the participant that the decision is commit.

SPM0409 **A transaction with LUWID=<luwid> cannot be resolved due to cold start with LUNAME=<luname>. DB2 transaction status=<status>. DB2 responsibility=<responsibility>.**

Explanation: An indoubt transaction exists with the partner at "<luname>". DB2 is unable to resolve the indoubt transaction because the partner has lost all knowledge of indoubt transactions due to a previous cold start.

luwid

The SNA logical unit of work id of the transaction.

status

The commit status of the transaction as known by DB2. The commit status may be indoubt, committed, or rolled back.

responsibility

DB2 transaction responsibility. DB2 may be the coordinator or may be the participant.

User Response: There is probably inconsistent data at the coordinator and participant. Inform database administrator of the status of the transaction.

Database Administrator Action: Manual resolution is necessary. The heuristic decision (that is, to commit or roll back the transaction) should be coordinated with any other participants and/or the coordinator. The existence of other participants might not be easy to determine. The information might be available in the coordinators recovery log even though the coordinator performed a cold start.

The commit or abort decision provided using the LIST INDOUBT TRANSACTIONS command for the transaction are propagated to all downstream participants, if any.

SPM0410 Warm start connection by partner with LUNAME="**<luname>**" rejected. Partner changed at least 1 of - our log name "**<oldourname>**" "**<(newourname)>**", their log name "**<oldtheirname>**" "**<(newtheirname)>**", syncpoint protocol "**<oldpa(newpa)>**", flag byte sent "**<oldfb(newfb)>**", cclluname sent "**<oldccls(newccls)>**", and indoubt transactions require resolution.

Explanation: An attempt to make a warm start connection with a partner was rejected because the partner specified a different set of sync point parameters than the ones that were in use when communications were lost. DB2 has knowledge of indoubt transactions that involve the partner as either the coordinator or a participant. This error might be a recoverable error if the partner can restart with the original sync point parameters. If this is not possible, then the partner must perform a cold start connection with DB2.

luname The LU name of the partner.

oldourname The log name for this DB2 subsystem. This value is null if the partner did not initiate the log name exchange.

newourname The log name for this DB2 subsystem, as remembered by our partner and sent to us in the attempted warm start connection. This value is null if the partner did not initiate the log name exchange.

oldtheirname The log name used by the partner during the last connection, as remembered by DB2.

newtheirname The log name used by the partner in the attempted warm start connection.

oldpa The sync point protocol used during the

last connection, as remembered by the DB2 (PA - Presumed Abort, PN - Presumed Nothing).

newpa The sync point protocol used during the last connection, as remembered by the partner (PA - Presumed Abort, PN - Presumed Nothing).

oldfb The use of the PS header byte 2 during the last connection, as remembered by DB2 (F - used as flag byte, N - not used as flag byte).

newfb The use of the PS header byte 2 during the last connection, as remembered by the partner (F - used as flag byte, N - not used as flag byte).

oldccls Whether the luname of the conversation correlator was exchanged as part of the sync point protocol during the last connection, as remembered by DB2. (E - was exchanged, N - was not exchanged).

newccls Whether the luname of the conversation correlator was exchanged as part of the sync point protocol during the last connection, as remembered by the partner (E - was exchanged, N - was not exchanged).

The connection with the partner is rejected. DB2 retains indoubt knowledge.

User Response: Call the database administrator.

Database Administrator Action: Contact the database administrator at the partner "**<luname>**" and determine if it is possible for the partner to perform a warm start with same sync point parameters as ours ('oldourname', 'oldtheirname', 'oldpa', 'oldfb', 'oldccls'). If this is possible, the next attempt to connect will succeed.

If this cannot be done, then there are two other possible solutions:

- Have the partner "**<luname>**" perform a cold start connection with this DB2 subsystem.

- Force the next connection with the partner to be a cold start connection.

SPM0411 Cold start connection by coordinator with LUNAME="`<luname>`" accepted. Indoubt transactions need manual resolution.

Explanation: DB2 was the DRDA2 AS and has participant responsibility for indoubt transactions. The coordinator informed DB2 that it performed a cold start operation and lost all knowledge of indoubt transactions. The indoubt transactions at this DB2 must be manually resolved with the LIST INDOUBT TRANSACTIONS command.

dbalias The database alias name of the coordinator.

The connection with the partner is accepted. A trace record is written.

User Response: Call the database administrator.

Database Administrator Action: DB2 is a participant with one or more indoubt transactions where the coordinator is "`<luname>`". The DBMS at "`<luname>`" performed a cold start. The DB2 participant assumes that the coordinator recovery log was lost or damaged and indoubt transaction resolution cannot be achieved. There is probably inconsistent data at the coordinator.

The heuristic decision (that is, to commit or abort the transaction should be coordinated with any other participants. The existence of other participants might not be easy to determine. The information might be available in the coordinators recovery log even though the coordinator performed a cold start.

The commit or abort decision provided using the LIST INDOUBT TRANSACTIONS command for the transaction are propagated to all downstream participants, if any.

SPM0412 Protocol error detected in syncpoint communications with coordinator with LUNAME="`<luname1>`". The transaction with LUWID="`<luwid>`" at the DB2 database with LUNAME="`<luname2>`" may be indoubt.

Explanation: DB2 is a participant in the transaction. A protocol error occurred during the SNA sync point exchange with the coordinator identified by "`<luname>`". The protocol error fits into one of the following categories:

- An unknown SNA PS header was received.
- An SNA PS header was received in the wrong sequence.
- An invalid LU6.2 verb sequence was used to deliver the SNA PS header.
- A DEALLOCATE TYPE(ABEND_SVC) was received from the coordinator, indicating that the coordinator detected a protocol violation in the PS headers transmitted by DB2.

luname1 The LU name of the coordinator.

luname2 The LU name of the database where the transaction is indoubt.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

If the protocol error was detected before the commit decision, the transaction at the database with LU name="`<luname2>`" may be indoubt. DB2 does not automatically resolve such an indoubt transaction because of the protocol error.

If the protocol error was detected after the commit decision, the transaction either completed commit or abort processing.

A Syncpoint Protocol Violation trace is written.

User Response: The database administrator

might need to manually resolve the indoubt transaction.

Database Administrator Action: Determine if the transaction is indoubt. If it is indoubt, it must be manually resolved using the LIST INDOUBT TRANSACTIONS command. The commit or abort decision made at the coordinator must be determined so that the same decision can be made at DB2.

Contact the database administrator at the coordinator dbalias to determine whether the transaction with LUWID="**<luwid>**" committed or aborted.

If the coordinator system is another DB2, then the following steps can be taken at the DB2 coordinator to determine the commit or abort decision.

SPM0413 **Protocol error detected in syncpoint communications with participant with LUNAME="**<luname>**" and DBALIAS="**<dbalias>**". The transaction with LUWID="**<luwid>**" may be indoubt at the participant. DB2 committed.**

Explanation: DB2 is the coordinator of the transaction. A protocol error occurred during the SNA sync point exchange with the participant identified by "**<luname>**" and "**<dbalias>**". The protocol error fits into one of the following categories:

- An unknown SNA PS header was received.
- An SNA PS header was received in the wrong sequence.
- An invalid LU6.2 verb sequence was used to deliver the SNA PS header.
- A DEALLOCATE TYPE(ABEND_SVC) was received from the participant, indicating that the participant detected a protocol violation in the PS headers transmitted by DB2.

luname

The LU name of the participant.

dbalias The database alias name of the participant.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

If application was told that the transaction committed.

There may be an indoubt transaction at the participant and if so, the indoubt transaction must be manually resolved. DB2 does not automatically resolve the indoubt transaction because of the protocol error.

A Syncpoint Protocol Violation trace record is written.

User Response: Call the database administrator. The participant might need to manually resolve the indoubt transaction.

SPM0414 **Protocol error during indoubt transaction resolution with participant with LUNAME="**<luname>**" and DBALIAS="**<dbalias>**". The transaction with LUWID="**<luwid>**" may be indoubt at the participant. DB2 rolled back.**

Explanation: DB2 has coordinator responsibility for the transaction which was rolled back. A protocol error occurred during indoubt resolution with the participant identified by "**<luname>**" and "**<dbalias>**".

The transaction at the participant remains indoubt. DB2 will not attempt to automatically resolve the indoubt transaction because of the protocol violation.

luname

The LU name of the participant.

dbalias The database alias name of the participant.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

A Resync Protocol Violation trace record is written.

User Response: Call the database administrator. The participant might need to manually resolve the indoubt transaction.

Database Administrator Action: If the transaction is indoubt at the participant, it must be manually (heuristically) resolved.

SPM0415 **Automatic resolution of the transaction with LUWID="<luwid>" with the coordinator at LUNAME="<luname>" resulted in roll back. The DB2 Universal Database is = "<dbname>"**

Explanation: The indoubt transaction at the database identified by "<dbname>" was automatically resolved by communication with the coordinator identified by "<luname>". The transaction was rolled back.

luname1
The LU name of the coordinator.

luwid The SNA logical unit of work id of the transaction.

luname2
The LU name of the database where the changes were made.

The XID associated with the unit of work is printed following this message.

Processing continues normally.

SPM0416 **Cold start connection rejected by partner with LUNAME "<luname>"**

Explanation: DB2 attempted to make a cold-start connection with a partner dbalias. The

partner rejected this attempted connection.

luname
The LU name of the coordinator.

The connection was not made.

User Response: Call the database administrator.

Database Administrator Action: DB2 is not able to connect the partner "<luname>" until the partner "<luname>" allows a cold-start connection with DB2. Contact the database administrator at the partner "<luname>".

Contact your IBM Support Center for further assistance.

SPM0417 **Protocol error detected in syncpoint communications with participant with LUNAME="<luname>" and DBALIAS="<dbalias>". The transaction with LUWID="<luwid>" may be indoubt at the participant. DB2 rolled back.**

Explanation: DB2 is the coordinator of the transaction. A protocol error occurred during the SNA sync point exchange with the participant identified by "<luname>" and "<dbalias>". The protocol error fits into one of the following categories:

- An unknown SNA PS header was received.
- An SNA PS header was received in the wrong sequence.
- An invalid LU6.2 verb sequence was used to deliver the SNA PS header.
- A DEALLOCATE TYPE(ABEND_SVC) was received from the participant, indicating that the participant detected a protocol violation in the PS headers transmitted by DB2.

luname
The LU name of the participant.

dbalias The database alias name of the participant.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

If application was told that the transaction rolled back.

There may be an indoubt transaction at the participant and if so, the indoubt transaction must be manually resolved. DB2 does not automatically resolve the indoubt transaction because of the protocol error.

A Syncpoint Protocol Violation trace record is written.

User Response: Call the database administrator. The participant might need to manually resolve the indoubt transaction.

SPM0420 Cold start connection by participant LUNAME="`<luname>`" accepted. Possible damage.

Explanation: DB2 has coordinator responsibility for indoubt transactions at a participant and just connected with the participant, which lost all knowledge of indoubt transactions because of a previous cold start. There might be damage at the participant.

luname

The LU name of the participant where there might be damage.

The connection with the partner is accepted.

User Response: Call the database administrator.

Database Administrator Action: DB2 is the coordinator with indoubt transaction resolution responsibility for one or more indoubt units of work at "`<luname>`". The DBMS at "`<luname>`" performed a cold start. DB2 assumes that the participant recovery log was lost or damaged and indoubt transaction resolution cannot be achieved. There is probably inconsistent data at the participant. Minimally, the participant might not completely reflect the final outcome of the transactions that were indoubt at the time the failure occurred.

SPM0421 SNA XLN protocol violation by partner with LUNAME="`<luname>`"

Explanation: DB2 detected a protocol violation in the SNA Exchange Log Names (XLN) exchange with the partner at the specified "`<luname>`".

luname

The LU name of the partner that sent the invalid XLN message.

The attempt to connect with the remote site fails. An XLN Protocol Violation trace record is written.

User Response: Contact the system programmer for the remote site. The invalid XLN message is recorded in the trace record. The system logic error that causes the invalid XLN message must be corrected at the remote site.

SPM0422 Warm start connection by partner LUNAME="`<luname>`" rejected because the partner remembers our log name incorrectly. Our log name is "`<name1>`" and the partner remembers is as "`<name2>`".

Explanation: An attempt to make a warm start connection with a partner was rejected because the partner specified our log name as `name2`. Our log name is `name1`, which is the luname of the local DB2. This error might be a recoverable error if the partner can restart with our log name as `name1`. If this is not possible, then the partner must perform a cold start connection with DB2.

luname

The LU name of the partner with which the connection failed.

name1 Our log name, as remembered by us.

name2 Our log name, as remembered by our partner and sent to us in the attempted warm start connection.

The connection with the partner is rejected.

User Response: Call the database administrator.

Database Administrator Action: Contact the database administrator at the partner "<luname>" and determine if it is possible for the partner to perform a warm start with our log name specified as the luname of this DB2. If this is possible, the next attempt to connect will succeed. Or have the partner "<luname>" perform a cold start connection with DB2.

SPM0423 **Automatic resolution of the transaction with LUWID="<luwid>" with the partner at LUNAME="<luname>" and DBALIAS="<dbalias>" resulted in commit.**

Explanation: The indoubt unit of work was automatically resolved by communication with the participant. The participant has been notified of the commit decision.

luname The LU name of the participant.

dbalias The database alias name of the participant.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

Processing continues normally.

SPM0424 **Automatic resolution of the transaction with LUWID="<luwid>" with the participant at LUNAME="<luname>" and DBALIAS="<dbalias>" resulted in roll back.**

Explanation: The indoubt unit of work was automatically resolved by communication with the participant. The participant has been notified of the roll back decision.

luname The LU name of the participant.

dbalias The database alias name of the participant.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

Processing continues normally.

SPM0425 **A transaction with LUWID="<luwid>" at the participant with LUNAME="<luname>" and DBALIAS="<dbalias>" may be indoubt because of a communication failure. DB2 rolled back.**

Explanation: During execution of the two phase commit protocol with the participant at "<luname>", a communication failure occurred. Phase 1 of the protocol completed and the transaction is prepared for either commit or abort. The decision to roll back the transaction was made, but cannot be communicated to the participant at this time. The participant is indoubt.

DB2 becomes responsible for indoubt resolution with the participant. This responsibility appears in the LIST DRDA INDOUBTS TRANSACTION report. Periodic attempts are made to reestablish communication with the participant for automatic resolution.

luname The LU unit name of the participant.

dbalias The database alias name of the participant.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

Periodic attempts will be made to automatically resolve the indoubt transaction at the participant.

User Response: Determine the cause of the communication failure and have the problem corrected. DB2 periodically attempts to reestablish communication for automatic resolution. If automatic resolution does not occur in a reasonable amount of time, call the database administrator. Manual resolution of the transaction might be necessary at the participant to release locked resources.

Database Administrator Action: If manual resolution is necessary, inform the database administrator at the participant that the decision is roll back.

SPM0426 Protocol error detected during indoubt transaction resolution with participant at LUNAME=<lname> and DBALIAS=<dbalias>. The transaction with LUWID=<luwid> may be indoubt at the participant. DB2 committed.

Explanation: DB2 has coordinator responsibility for the transaction which was committed. A protocol error occurred during indoubt resolution with the participant identified by "<lname>" and "<dbalias>".

The transaction at the participant remains indoubt. DB2 will not attempt to automatically resolve the indoubt transaction because of the protocol violation.

lname

The LU name of the participant.

dbalias The database alias name of the participant.

luwid The SNA logical unit of work id of the transaction.

The XID associated with the unit of work is printed following this message.

A Resync Protocol Violation trace record is written.

User Response: Call the database administrator.

The participant might need to manually resolve the indoubt transaction.

Database Administrator Action: If the transaction is indoubt at the participant, it must be manually (heuristically) resolved.

SPM0434 DB2 Syncpoint Manager not available - incorrect communications level.

Explanation: The local communications release level is older than the minimum release level or the communication manager is incorrectly configured to support APPC SYNCLEVEL(SYNC) conversations.

The attempt to create a protected conversation fails.

User Response: Install and configure the correct communications level required to support SYNCLEVEL(SYNC) conversations.

SPM0438 DB2 Syncpoint Manager recovery log is bad.

Explanation: The DB2 Syncpoint Manager recovery log is inconsistent and cannot be used to perform recovery during DB2 start up processing.

User Response: Indoubt transactions may exist at DRDA2 application servers. These indoubt transactions must be recovered manually.

Call the database administrator.

Database Administrator Action: To start the Syncpoint Manager, erase the spmlog directory and start DB2. This will cause DB2 to create new syncpoint log files and to establish cold start connections with all DRDA2 application servers.

SPM0439 DB2 Syncpoint Manager unrecoverable error while attempting to write to the SPM recovery log.

Explanation: The DB2 Syncpoint Manager log is inconsistent and cannot be used. An unrecoverable error has been detected while

attempting to write to the SPM log during DB2 processing.

User Response: The DB2 Syncpoint Manager will not allow any new synclevel(twophase) connections. Issue the LIST DRDA INDOUBT TRANSACTIONS command to determine the status of any indoubt transactions.

Call the database administrator.

Database Administrator Action: To start the Syncpoint Manager, erase the spmlog directory and start DB2. This will cause DB2 to create new syncpoint log files and to establish cold start connections with all DRDA2 application servers.

SPM0440E Error encountered while trying to start "<protocol>" protocol support. Return code from "<function>" was "<rc>". The most probable cause for this error is that SNA has not been started. Please stop DB2, start SNA, and restart DB2.

SPM0441 DB2 syncpoint Manager not available for the SPM LU. Ensure your the SNA product level is sufficient for syncpoint support and/or ensure the Recovery Resource Manager has been enabled. See the Messages Reference for additional details or enter db2 "? SPM0441" from a command prompt. The SPM LU is "<lu-name>" and the LU profile is "<lu-profile>".

Explanation: The syncpoint support could not be enabled by DB2. The most likely causes of this are:

1. The AIX SNA communications level is invalid. For syncpoint support AIX SNA V2 or greater is required.
2. For AIX SNA V2, the Recovery Resource Manager (RRM) is not enabled. This parameter can be found in SNA System

Defaults. Enable this this parameter,verify the SNA profile, then stop and restart both AIX SNA and DB2.

3. For AIX SNA V3, the Recovery Resource Manager (RRM) is not enabled for the SPM LU "<lu-name>". This parameter can be found in the LU definition for LU "<lu-name>". Enable this parameter, verify the SNA profile, then stop and restart both AIX SNA and DB2.

User Response: Determine the reason based on the provided possibilites. Correct and retry.

SPM0442 DB2 Syncpoint Manager not available. The most probable cause for the failure is that there does not exist a CPIC Side information profile with the name "<name>". Update AIX SNA with the correct CPIC Side Info profile name reverify the SNA profile, stop and restart both SNA and DB2.

Explanation: The DB2 Syncpoint Manager requires a CPIC Side Information Profile of the name provided in order to initialise. This profile cannot be found or contains incorrect information.

User Response: Please correct the profile, verify the SNA profile, stop and restart both DB2 and SNA. Please see the DB2 Connect Quick Beginnings for information on how to configure for SPM support.

SPM0443 **DB2 Syncpoint Manager not available. The most probable cause for the failure is that the instance which is starting the SPM does not belong to one of the Trusted Group Names for AIX SNA. This parameter can be found in SNA System Defaults. Add the the instance to one of the defined groups or add a new group to the Trusted Group Names, then stop and restart SNA. Stop DB2, logoff the instance id then log back on to the instance id. Restart DB2. If this does not work please apply the latest available PTF for AIX SNA and retry the above instructions.**

Explanation: In order for the DB2 Syncpoint Manager to initialise itself the instance in which DB2 is started needs certain authorities in order to interact with the SNA support. AIX SNA requires that the Trusted Group Names be updated to include any userids which will be issuing these commands.

User Response: Update trusted group name as described, stop and restart AIX SNA. Logoff of the AIX Term, log back on and restart DB2.

SPM0444 **DB2 Syncpoint Manager not available. The most probable cause for the failure is that there does not exist a Transaction Program profile with the name "<name>". Update AIX SNA with the correct Transaction Program profile, reverify the SNA profile, stop and restart both SNA and DB2.**

Explanation: The DB2 Syncpoint Manager requires a Transaction Program Profile of the name provided in order to initialise. This profile cannot be found or contains incorrect information.

User Response: Please correct the profile, verify the SNA profile, stop and restart both DB2 and

SNA. Please see the DB2 Connect Quick Beginnings for information on how to configure for SPM support.

SPM0445 **The Transaction Program "<tp-name>" will not be listened for by DB2. This is not a severe error but if you require this Transaction Program then you must ensure it is NOT defined in the Transaction Profile of the AIX SNA configuration.**

Explanation: When the DB2 Syncpoint Manager initialises itself it registers Transaction Programs for which it will listen. In order for the SPM to listen for the named TP, it is necessary that no other Transaction Program Profile have this TP defined else there will be a conflict between the DB2 SPM and AIX SNA. If such a conflict exists then AIX SNA will listen and the SPM will not.

User Response: If you require the DB2 SPM to listen for the named TP then you must ensure that no other TP Profile references this transaction program. The SPM has started successfully regardless of this error.

SPM0446E **The Transaction Program "<tp-name>" will not be listened for by DB2. This is a severe error. The DB2 SPM has failed to start. Most probable cause is either that another instance has started the SPM using the same SPM_NAME in their database manager configuration OR the Encina Peer to Peer Gateway exists on this same machine and the Transaction Program named is defined in an AIX SNA Transaction Profile.**

Explanation: The DB2 SPM tried to register this TP but could not.

User Response: Remove the TP Profile from AIX SNA. Stop and restart both DB2 and AIX SNA.

SPM0447E Error encountered while trying to start "<protocol>" protocol support. Return code from "<function>" was "<rc>". The most probable cause for this error is that the LU "<lu-name>" is already in use for syncpoint management. Ensure the Encina Peer to Peer Gateway or another DB2 SPM is not using this LU.

Explanation: An LU can be registered with AIX SNA as supporting syncpoint by at most one application. In this case, the requested SPM LU is already registered. The most likely cause is that the Encina Peer to Peer Gateway is using this LU as an SPM or another DB2 instance is using this as an SPM.

User Response: Change the spm_name in the database manager configuration such that a unique LU is used. Stop and restart DB2.

SPM0448E Error encountered while trying to start the SPM protocol support. The DB2 SPM failed to register LUNAME "<luname>" for syncpoint support since this LU has been configured for SNA API client use. Either choose a different LU for the DB2 SPM or disable the SNA API client use in the Local LU 6.2 definition for this LU.

Explanation: This error occurs when the customer is trying to start the SPM using CS/NT V5.01 and is using a Local LU 6.2 definition where the SNA API client use flag has been set.

User Response: Either choose a different local LU 6.2 (without the SNA API client use configured) or disable the SNA API client use flag for the Local LU 6.2 definition.

SPM0449E Connection attempt failed. The most probable cause for the failure is that the LU specified in the CPIC Side information profile "<profile1>" does not match the SPM LU specified in the CPIC Side information profile "<profile2>".

Explanation: In order to have proper communications with the host system, any CPIC Side information profile defined for communication must specify the same LU as defined for the configured DB2 SPM.

User Response: Update SNA CPIC Side information profile "<profile1>" with the proper LU, verify the SNA profile, stop and restart both SNA and DB2, and try the connection again.

SPM0450E Library could not be loaded. Access Permissions denied.

Explanation: The most probable cause for this problem is a result of a bug in Windows NT.

User Response: Ensure that all network drives in your System and local PATH statement are at the end of the PATH statement. Select Start/Settings/Control Panel/System/Environment/System/Path and move all network drives to the end of the path statement. Then shutdown and restart the system.

SPM0451E MS SNA Server not started.

Explanation: The SNA server is not started.

User Response: Please start SNA Server and restart DB2.

Chapter 10. SQJ Messages

This section contains the DB2 Embedded SQLJ in Java (SQLJ) messages. The messages are listed in numeric sequence.

SQJ0001W Customizing profile
"**<profile-name>**".

Explanation: This message is written to the standard output device when the precompiler begins processing. The token "**<profile-name>**" refers to the particular profile being customized.

Processing continues.

User Response: No action is required.

SQJ0100E Invalid option specified
"**<option>**".

Explanation: The specified option is invalid.

User Response: Check the syntax and resubmit the command with the valid option and parameter. The format is
-**<option>**=**<parameter>**.

SQJ0101E Unknown option "<option>**".**

Explanation: The option is unknown or unsupported.

User Response: Execute the command alone without specifying options for usage help. Resubmit the command with a valid option.

SQJ0102E No **<option> specified.**

Explanation: An option is missing.

User Response: Resubmit the command specifying the required option.

SQJ0103E No profile specified.

Explanation: The profile name is required but missing.

User Response: Resubmit the command with the profile name.

SQJ0104E Unable to load profile "<profile>**".**

Explanation: The specified profile cannot be found or does not exist.

User Response: Make sure the profile exists or the profile name is correctly specified.

SQJ0105E Unable to customize profile
"**<profile>**".

Explanation: The profile cannot be customized due to system or internal error.

User Response: Contact IBM service for assistance.

SQJ0106E Invalid syntax
"**<command-syntax>**".

Explanation: The syntax of the specified option is invalid.

User Response: Resubmit the command with the correct syntax.

SQJ0200E An internal error has occurred.

Explanation: An unexpected internal error has occurred.

User Response: Turn trace on and retry the steps that caused the error. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:

- Problem description
- Message number
- Trace file

SQJ0201E **An internal error has occurred during profile customization. Reason code "<reason-code>".**

Explanation: An unexpected internal error has occurred when customizing a profile.

User Response: Turn DB2 and CLI trace on and retry the steps that caused the error. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:

- Problem description
- Message number
- Reason code
- Trace file

SQJ0202E **An internal error has occurred during precompilation. Reason code "<reason-code>".**

Explanation: An unexpected internal error has occurred when precompiling.

User Response: Turn trace on and retry the steps that caused the error. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:

- Problem description
- Message number
- Reason code
- Trace file

SQJ0203E **An internal error has occurred when processing the command. Reason code "<reason-code>".**

Explanation: An unexpected internal error has occurred when processing the command.

User Response: Turn trace on and retry the steps that caused the error. If the problem reoccurs, save the trace information to a file and contact IBM Support with the following information:

- Problem description
- Message number

- Reason code
- Trace file

SQJ0204E **A FOR UPDATE clause was found from a SELECT statement.**

Explanation: A syntax error in the SQL statement was detected when the update-clause appears in a SELECT statement.

User Response: Correct the syntax error in the SELECT statement and specify the update-clause through the iterator-declaration-clause.

SQJ4011E **Invalid SQL sub-statement in a Compound SQL statement.**

Explanation: This error is returned when an invalid sub-statement is detected in a Compound SQL statement. Valid statements are:

- ALTER TABLE
- COMMENT ON
- CREATE INDEX
- CREATE TABLE
- CREATE VIEW
- Searched DELETE
- DROP
- GRANT
- INSERT
- LOCK TABLE
- REVOKE
- SELECT INTO
- Searched UPDATE
- COMMIT; only when specified as the last sub-statement.

User Response: Resubmit the command without the invalid sub-statement.

Chapter 11. SQL Messages

Each message has a message identifier that consists of a prefix (SQL) and a message number. Messages are listed in numeric sequence based upon the message number. There are three message types: notification, warning, and critical. Message identifiers ending with an *N* are error messages. Those ending with a *W* indicate warning or informational messages. Message identifiers ending with a *C* indicate critical system errors.

The message number is also referred to as the *SQLCODE*. The *SQLCODE* is passed to the application as a positive or negative number, depending on its message type (N, W, or C). N and C yield negative values whereas W yields a positive value. DB2 returns the *SQLCODE* to the application and the application can get the message associated with the *SQLCODE*. DB2 also returns an *SQLSTATE* value for conditions that could be the result of an SQL statement. *SQLSTATE* values are listed in Chapter 12. *SQLSTATE* Messages. Some *SQLCODE* values have associated *SQLSTATE* values. *SQLSTATE*s associated with a given *SQLCODE* (if applicable) have been documented with each message in this chapter.

Variable parameters for SQL messages are shown as descriptive names.

SQL0000 - SQL0099

SQL0000W Statement processing was successful.

Explanation: The SQL statement executed successfully, unless a warning condition occurred.

User Response: Check SQLWARN0 to ensure that it is blank. If it is blank, the statement executed successfully. If it is not blank, a warning condition exists. Check the other warning indicators to determine the particular warning condition. For example, if SQLWARN1 is not blank, a string was truncated.

Refer to the *Application Development Guide*.

sqlcode: 0

sqlstate: 00000, 01003, 01004, 01503, 01504, 01506, 1509, 01517

SQL0001N Binding or precompilation did not complete successfully.

Explanation: For reasons specified in the previous messages, the bind or precompile request was unsuccessful.

No package is created.

User Response: Refer to the messages in the message file. Resubmit the command.

If installing the sample database, drop it and install the sample database again.

SQL0002N The bind file name is not valid.

Explanation: For reasons specified in the previous messages, the bind file name cannot be used as specified.

No package is created.

User Response: Refer to the messages in the message file. Resubmit the command.

If installing the sample database, drop it and install the sample database again.

SQL0003N The database name is not valid.

Explanation: For reasons specified in the previous messages, the database name cannot be used as specified.

No package is created.

User Response: Refer to the messages in the message file. Resubmit the command.

SQL0004N The password is not valid.

Explanation: The password contains characters that are not valid or the password is too long.

No package is created.

User Response: Resubmit the command with a valid password.

SQL0005N The message file name is not valid.

Explanation: For reasons specified in the previous messages, the message file name cannot be used as specified.

No package is created.

User Response: Refer to the messages in the message file. Check the name of the message file. Check the attributes of the message file if it exists. Resubmit the command.

SQL0006N The datetime format parameter is not valid.

Explanation: The value of the datetime format parameter is not in the valid range of 0 through 3.

No package is created.

User Response: Resubmit the command with a valid format parameter.

SQL0007N The character "<character>" following "<text>" is not valid.

Explanation: The specified "<character>" is not a valid character in SQL statements. The "<text>" field indicates the 20 characters of the SQL statement that preceded the character that is not valid.

Federated system users; some data sources do not provide the appropriate values for the "<character>" and "<text>" message tokens. In these cases, "<character>" and "<text>" will have the following format: "<data source>:UNKNOWN", indicating that the actual values for the specified data source are unknown.

The statement cannot be processed.

User Response: Remove or replace the character that is not valid.

sqlcode: -7

sqlstate: 42601

SQL0008N The token "<token>" found in a host variable declaration is not valid.

Explanation: A host variable declaration has invalid syntax. The precompiler cannot identify the host variable.

The statement cannot be processed. None of the host variables declared in the statement (up to the semicolon) are accepted.

User Response: Examine the syntax of the host variable declaration.

SQL0009W An attempt to override a precompiler option was ignored.

Explanation: An attempt was made to override a precompiler option.

The option is ignored.

User Response: Ensure that all precompiler options are specified correctly.

SQL0010N **The string constant beginning with “<string>” does not have an ending string delimiter.**

Explanation: The statement contains a string constant, beginning with “<string>”, that is not terminated properly.

The statement cannot be processed.

User Response: Examine the statement for missing apostrophes in the indicated string constant.

sqlcode: -10

sqlstate: 42603

SQL0011N **The comment is not terminated.**

Explanation: The comment is not terminated properly.

The statement cannot be processed.

User Response: Examine the statement for a missing or extra comment delimiter in the indicated comment.

SQL0012W **Correlation without qualification has occurred for the column “<column>”.**

Explanation: The named column occurs in a SELECT statement, is not explicitly qualified, and occurs in a table specified in the FROM clause of an outer select. Consequently, the reference to the column in the SELECT statement has been taken to be an outer reference and correlation will occur.

The statement was processed under the assumption that correlation was intended.

User Response: Ensure that correlation was intended. It is a good practice to explicitly qualify intended outer references.

sqlcode: +12

sqlstate: 01545

SQL0013N **An empty delimited identifier is not valid.**

Explanation: During precompilation, either a cursor name, statement name, database name, or authorization ID, specified as an empty string, was found. This is not valid. The statement cannot be processed.

User Response: Provide a valid cursor name, statement name, database name, or authorization ID.

SQL0014N **The source file name is not valid.**

Explanation: The source file name specified in the call to the precompiler contains invalid characters or the pointer to the source file name is invalid.

No package was created.

User Response: Ensure that the source file name is correct.

SQL0015N **The host variable data type “<token_1>” is not valid. Use “<token_2>” instead.**

Explanation: If the WCHARTYPE CONVERT precompile option is in effect then the graphic host variable must be declared with the data type 'wchar_t', not 'sqldbchar'.

If the WCHARTYPE NOCONVERT precompile option is in effect (the default) and 'wchar_t' is defined as a 4-byte integer on this platform, then the graphic host variable must be declared with the data type 'sqldbchar', not 'wchar_t'.

User Response: Replace the current data type of the host variable with the data type specified in the message.

SQL0020W **Bind or precompile option(s) “<option-name(s)/option-number(s)>” are not supported by the target database and will be ignored.**

Explanation: This warning is returned in the following situations:

- one or more options that were specified at precompile/bind time are not supported by the target DBMS
- the option value(s) of one or more options that were specified at precompile/bind time are not supported by the target DBMS

The unsupported options/values will be ignored. The most probable cause is that an option or option value which is only supported while connected to a DRDA application server has been specified while connected to a non-DRDA server.

Enter "db2 ? bind" or "db2 ? prep" for a list of which options are supported only by a DRDA application server.

Possible option numbers and their corresponding option names include:

1	DATETIME
2	LANGLEVEL
4	ISOLATION
5	BLOCKING
6	GRANT
8	SQLFLAG
16	CONNECT
17	SQLRULES
18	DISCONNECT
19	SYNCPOINT
20	ISOLATION
21	BINDFILE
22	SQLCA
23	PACKAGE
24	OPTLEVEL
25	SYNTAX or SQLERROR
26	NOLINEMACRO
30	LEVEL
31	COLLECTION
32	VERSION

33	OWNER
34	QUALIFIER
35	TEXT
40	VALIDATE
41	EXPLAIN
42	ACTION
44	REPLVER
45	RETAIN
46	RELEASE
47	DEGREE
50	STRDEL
51	DECDEL
55	CHARSUB
56	CCSIDS
57	CCSIDM
58	CCSIDG
59	DEC
60	WCHARTYPE
61	DYNAMICRULES
62	INSERT
63	EXPLSNAP
64	FUNCPATH
65	SQLWARN
66	QUERYOPT

User Response: Ensure the specification of bind or precompile "<option-name(s)/option-number(s)>" was intended while connected to this DBMS.

SQL0021W Invalid precompiler option "<option>" is ignored.

Explanation: The option specified in the message is not a valid precompiler option. The option is ignored.

User Response: Ensure that all precompiler

options are specified correctly.

SQL0022W Duplicate precompiler option “<option>” is ignored.

Explanation: The precompiler option “<option>” is a duplicate.

The option is ignored.

User Response: Ensure that all precompiler options are specified only once.

SQL0023N The database name is not valid.

Explanation: The specified database name is not a valid name.

Precompilation is terminated.

User Response: Ensure that the database name is spelled correctly and follows the rules for short identifiers.

SQL0024N A database name was not specified.

Explanation: No database name was provided to proceed with precompilation.

Precompilation is terminated.

User Response: Provide a database name.

SQL0025W Binding or precompilation completed with warnings.

Explanation: Binding or precompilation succeeded, but warnings were issued. A package and/or bindfile was created as requested in the command.

User Response: Refer to the messages in the message file. If necessary, correct the problems and resubmit the command.

SQL0026N The password is not valid.

Explanation: The specified password is not a valid password.

Precompilation is terminated.

User Response: Ensure that the password

provided follows the rules for valid passwords.

SQL0028C The release number of the bind file is not valid.

Explanation: The release number of the bind file is not compatible with the release number of the installed version of the database manager.

The bind file cannot be used with the current version of the database manager. The command cannot be processed.

User Response: If possible, repeat the precompile process with the current database manager. Otherwise, use only bind files created with a compatible release level of the database manager.

SQL0029N INTO clause required.

Explanation: Non-cursor SELECT or VALUES statements embedded in an application program must have an INTO clause to denote where the results of the statement are to be placed. Dynamic SELECT statements do not permit the INTO clause.

User Response: Add the INTO clause to the SELECT or VALUES statement and precompile the application program again.

sqlcode: -29

sqlstate: 42601

SQL0030N A source file name was not specified.

Explanation: A source file name was not provided to proceed with precompilation.

Precompilation is terminated.

User Response: Specify a source file name.

SQL0031C File “<name>” could not be opened.

Explanation: The file “<name>” is required but could not be opened.

Precompilation is terminated.

User Response: Ensure that the file name specified is correct and exists in the file system, and that the file permissions are correct.

If installing the sample database, drop it and install the sample database again. If the error continues, reinstall the database manager and then install the sample database.

SQL0032C Unable to use file “<name>”.

Explanation: While reading or writing file “<name>”, an error was encountered.

Precompilation is terminated.

User Response: Retry the precompilation.

SQL0033N “<name>” is not a valid bind file.

Explanation: The bind file “<name>” specified is not a bind file.

Binding is terminated.

User Response: Ensure that the correct file name was specified.

SQL0034N A bind file name was not specified.

Explanation: No bind file name was specified to proceed with binding.

Binding is terminated.

User Response: Provide a bind file name.

SQL0035N The file “<name>” cannot be opened.

Explanation: The message file “<name>” could not be opened.

Binding or precompilation has been terminated.

User Response: Ensure that the system can access the file.

SQL0036N The syntax of the file name “<name>” is not valid.

Explanation: If the file is input to the precompiler, it must have an extension with the

correct extension for the language being used. If the file is input to the binder, it must have an extension of *.bnd*. Also, a fully resolved file name which is over the platform maximum length will cause this error.

Precompilation or binding is terminated.

User Response: Ensure that the specified file name is correct.

SQL0037W The syntax of the message file “<name>” is not valid.

Explanation: The message file name “<name>” is not syntactically correct for this function.

The system redirects the output to the standard output device.

User Response: Ensure that the specified file name is correct.

SQL0038W The bind option SQLERROR CONTINUE has been activated since it is required when binding this DB2-supplied list file to DB2/MVS, SQL/DS, or OS/400.

Explanation: The SQLERROR CONTINUE bind option is required when binding the following DB2-supplied list files:

- ddcsmvs.lst
- ddcsvm.lst
- ddcsvse.lst
- ddcs400.lst

This option instructs a DRDA server to create a package even if there are SQL statements in a bind file which it considers invalid. Since not all of the DRDA servers support all of the SQL statements contained in the DB2-supplied bind files, the SQLERROR CONTINUE bind option must be used to guarantee that packages are created for all of the bind files in the list file.

User Response: No response is necessary. The required bind option, SQLERROR CONTINUE, has been specified for you. To avoid receiving this warning in the future specify the SQLERROR CONTINUE bind option.

SQL0039N The binder did not finish processing because the bind file is not valid.

Explanation: The binder could not process the bind file. The bind file may not be valid because the bind file contents were altered accidentally.

The bind file is not processed.

User Response: If possible, repeat the precompile process to create a new bind file. Otherwise, obtain a new copy of the bind file.

SQL0040N An error occurred on one or more bind files in the list "<name>". The following files were not bound: "<list>".

Explanation: For reasons specified in the previous messages in the message file, one or more bind files were not bound. The list of files that were not bound is composed of digits, starting from 1, that indicate the relative position of the unbound files in the list file. "<name>" does not include the path specification of the list file.

Only the first 20 bind files in error are listed in the message. If there were more than 20 bind files in error, ellipses (...) are inserted after the last bind file name in the list.

One or more packages were not created.

User Response: Refer to the messages in the message file. Check the list file to verify that it contains valid names. Resubmit the command.

SQL0041N No attempt was made to bind the files following file number "<number>" in list "<name>" because a fatal error occurred which terminated processing.

Explanation: Some errors encountered during the binding process are considered fatal (i.e. system errors, memory errors). If one of these errors occurs while processing a file in a list file, processing terminates. No attempt is made to bind the remaining files in the list file.

Such an error occurred while binding the

specified bind file in the list. Note that the digit used to identify the bind file indicates the relative position of the file in the list file.

User Response: Refer to the other messages which accompanied this one to resolve the errors which occurred. Resubmit the command.

SQL0051N The maximum number of SQL statements was exceeded in the program.

Explanation: Too many SQL statements are in the program to fit into one package in the database.

Precompilation is terminated.

User Response: Either simplify the program, or split the program into smaller, separate programs, or do both.

SQL0053W No SQL statements were found in the program.

Explanation: The specified source file contains no SQL statements.

If binding, an empty package is created.

User Response: Ensure that you are precompiling or binding the correct program.

SQL0055N Source input file is empty.

Explanation: The program source input file contained no data.

Precompilation is terminated.

User Response: Ensure that the correct input file was specified.

SQL0060W The "<name>" precompiler is in progress.

Explanation: This message is written to the standard output device when the precompiler begins processing. The token "<name>" refers to the particular language precompiler which was invoked.

Processing continues.

User Response: No action is required.

SQL0061W The binder is in progress.

Explanation: This message is written to the standard output device when the binder begins processing.

Processing continues.

User Response: No action is required.

SQL0062W Starting INCLUDE of file "<name>".

Explanation: An INCLUDE statement has been encountered. The precompiler is now processing the INCLUDE file.

User Response: No action is required.

SQL0063W Completed INCLUDE of file "<name>".

Explanation: The precompiler has completed processing the INCLUDE file. It will resume processing the file which contained the INCLUDE statement.

User Response: No action is required.

SQL0064N File "<name>" directly or indirectly INCLUDEs itself.

Explanation: A cyclic INCLUDE has been encountered. A precompiler input file cannot INCLUDE itself, nor be INCLUDED by a file it INCLUDEs.

The specified file is not INCLUDED.

User Response: Check the nesting of the INCLUDE files, and remove any cycles.

SQL0065N An unexpected end-of-line was encountered in a host variable declaration.

Explanation: A host variable declaration has an invalid syntax. An end-of-line was encountered before the declaration was complete.

The statement cannot be processed.

User Response: Examine the syntax of the host variable declaration.

SQL0081N SQLCODE "<sqlcode>" returned during precompilation/bind.

Explanation: While precompiling or binding the program, an unexpected SQLCODE "<sqlcode>" was returned from the database manager.

The statement cannot be processed.

User Response: Inspect the SQLCODE to determine the problem and take the appropriate action.

SQL0082C An error has occurred which has terminated processing.

Explanation: A previous, non-SQL error has caused processing to terminate.

Precompile/bind/rebind is terminated. No package was created.

User Response: Correct the situation that caused the previous error and retry the operation.

SQL0083C A memory allocation error has occurred.

Explanation: During processing, there was not enough memory to continue processing.

User Response: Possible solutions include:

- Ensure that your system has sufficient real and virtual memory.
- Remove background processes.

SQL0084N An EXECUTE IMMEDIATE statement contains a SELECT or VALUES statement.

Explanation: A SELECT or VALUES statement was used in an EXECUTE IMMEDIATE statement.

The statement cannot be processed.

User Response: The implied function is not supported. Prepare the SELECT or VALUES

statement. Then use OPEN, FETCH, and CLOSE.

sqlcode: -84

sqlstate: 42612

SQL0085N The statement name "<name>" is already defined.

Explanation: A previous DECLARE statement already used the statement name specified in the current DECLARE statement.

The current DECLARE statement is not processed. The previous DECLARE statement retains use of the statement name.

User Response: Use a different name for the statement.

SQL0086C A memory allocation error has occurred.

Explanation: During processing, there was not enough memory to continue processing.

User Response: Possible solutions include:

- Verify that your system has the required memory.
- Remove background processes.

SQL0087N Host variable "<name>" is a structure used where structure references are not permitted.

Explanation: When a structure reference is used in an SQL statement, it is treated as if a comma-separated list of its component fields had been used instead. Since a list of host variables is not permitted in SQL statements such as PREPARE, neither is a reference to a structure with multiple fields.

User Response: Replace the structure reference with an atomic host variable, or with a fully qualified structure field name.

SQL0088N Host variable "<name>" is ambiguous.

Explanation: Host variable "<name>" cannot be uniquely identified. More than one host variable

with the same qualification can be found.

The statement cannot be processed.

User Response: Qualify the host variable further, or rename it if it is already fully qualified.

SQL0089N Processing ended after 100 errors were found.

Explanation: The precompiler or binder quits processing after 100 errors were found.

User Response: Fix the errors indicated in the message log and resubmit the command.

SQL0091W Precompilation or binding was ended with "<number-1>" errors and "<number-2>" warnings.

Explanation: The precompilation or binding has terminated with the stated number of warnings and errors.

Precompilation or binding is terminated.

User Response: If warnings or errors occurred, correct the program, if necessary, and retry the precompilation or binding.

SQL0092N No package was created because of previous errors.

Explanation: Because of previous errors, no package was created.

User Response: Correct the errors and retry the precompilation or bind.

SQL0093N The end-of-input was encountered before the statement terminator for EXEC SQL.

Explanation: While processing an SQL statement, the end of source was encountered before the statement terminated.

Precompilation is terminated.

User Response: Ensure that the SQL statement terminates properly.

SQL0094N Binding was ended because of user interrupt request.

Explanation: Binding was terminated because the user may have pressed the interrupt key sequence.

Processing is terminated. No package is created.

User Response: Resubmit the bind, if needed.

If installing the sample database, drop it and

install the sample database again.

SQL0095N No bind file was created because of previous errors.

Explanation: Because of previous errors, no bind file was created.

No bind file is created.

User Response: Correct the errors and retry the precompilation.

SQL0100 - SQL0199

SQL0100W No row was found for FETCH, UPDATE or DELETE; or the result of a query is an empty table.

Explanation: One of the following conditions is true:

- No row was found that meets the search conditions specified in an UPDATE or DELETE statement.
- The result of a SELECT statement was an empty table.
- A FETCH statement was executed when the cursor was positioned after the last row of the result table.
- The result of the SELECT used in an INSERT statement is empty.

No data was retrieved, updated, or deleted.

User Response: No action is required. Processing can continue.

sqlcode: +100

sqlstate: 02000

may be too large for its corresponding column in the system catalogs.

Federated system users should also check to see if the statement:

- Exceeds either a federated server system limit or a data source system limit for length or complexity.
- Violates some other data source specific limit.

The statement cannot be processed.

Note: Where character data conversions are performed for applications and databases running under different codepages, the result of the conversion is exceeding the length limit.

User Response: Either:

- Break the statement up into shorter or less complex SQL statements.
- Increase the size of the statement heap (stmtheap) in the database configuration file.
- Reduce the number of check or referential constraints involved in the statement or reduce the number of indexes on foreign keys.
- Reduce the number of triggers involved in the statement.
- Federated system users: determine which data source is failing the statement (see the problem determination guide for procedures to follow to identify the failing data source) and determine the cause of the rejection. If the rejection is coming from the federated server, increase the size of the statement heap (stmtheap) in the database configuration file.

SQL0101N The statement is too long or too complex.

Explanation: The statement could not be processed because it exceeds a system limit for either length or complexity, or because too many constraints or triggers are involved.

If the statement is one that creates or modifies a packed description, the new packed description

sqlcode: -101

sqlstate: 54001

SQL0102N The string constant beginning with "<string>" is too long.

Explanation: One of the following has occurred:

- The comment in the COMMENT ON statement is greater than 254 bytes.
- The application server name specified in the SQL CONNECT statement is greater than 18 characters.
- The string constant beginning with "<string>" has a length greater than 32672 bytes. Character strings with lengths greater than 32672 bytes or graphic strings with lengths greater than 16336 characters can be specified only through assignment from host variables. Note that other servers in the DB2 family of products may specify a different size limit for character strings. Consult the documentation for the appropriate DB2 product for details.
- Federated system users: the data source-specific limits must not be exceeded in a pass-through session. For example, a character literal larger than 254 bytes included in a statement sent to DB2 for MVS/ESA in a pass-through session would cause this error.

It may be that data conversion is occurring and the resultant string is too long. For connections between applications and databases running under different codepages, string constants are converted from the application codepage to the database codepage. In certain situations, graphic string constants may be further converted from the database codepage to a UCS-2 (UNICODE) encoding, for example when the database has been created with an EUC codepage. This means that it is possible to have a resultant string which is longer than the input string.

The statement cannot be processed.

User Response: For Comment on Table or Comment on Column, reduce the size of the comment. For the SQL CONNECT statement, reduce the length of the application server name.

For other string constants, the requested function is not available interactively. For an error occurring in the context of a non-CONNECT SQL statement embedded in an application program, assign the long string to a host variable and substitute that variable for the string literal in the SQL statement.

Federated system users: for a pass-through session, determine what data source is causing the error (see the problem determination guide for the failing data sources). Examine the SQL dialect for that data source to determine which specific limit has been exceeded, and adjust the failing statement as needed.

sqlcode: -102

sqlstate: 54002

SQL0103N The numeric literal "<literal>" is not valid.

Explanation: The indicated "<literal>" begins with a digit but is not a valid integer, decimal, or floating point literal.

Federated system users: a data source-specific literal representation error has occurred in a pass-through session.

The statement cannot be processed.

User Response: Correct the invalid numeric literal. Federated system users, if the error occurred in a pass-through session, determine what data source is causing the error (see the problem determination guide for the failing data sources). Examine the SQL dialect for that data source to determine which literal representation rule has been violated, and adjust the failing statement as needed.

sqlcode: -103

sqlstate: 42604

SQL0104N An unexpected token "<token>" was found following "<text>". Expected tokens may include: "<token-list>".

Explanation: A syntax error in the SQL statement was detected at the specified token

following the text "<text>". The "<text>" field indicates the 20 characters of the SQL statement that preceded the token that is not valid.

As an aid to the programmer, a partial list of valid tokens is provided in the SQLERRM field of the SQLCA as "<token-list>". This list assumes the statement is correct to that point.

The statement cannot be processed.

User Response: Examine and correct the statement in the area of the specified token.

sqlcode: -104

sqlstate: 42601

SQL0105N The string constant beginning with "<string>" is not valid.

Explanation: The statement contains a string constant beginning with "<string>" that is not valid.

The statement cannot be processed.

User Response: Specify the correct format of the string constant. Check for graphic string, paired delimiters, and an even number of bytes within the string.

Federated system users, see the problem determination guide to determine which data source is causing the error.

sqlcode: -105

sqlstate: 42604

SQL0106N SQL statement begins properly but is incomplete.

Explanation: The SQL statement was correct up to the point where no more input was found. This may be caused by failure to properly end a literal. String literals need a final quote mark.

Processing of this SQL statement has ended.

User Response: Check that the statement has all the necessary parts to complete the desired function and that all clauses are complete.

For PL/I: Check that the SQL statement is complete before the semicolon. For Assembler:

Check that the continuation rules are properly followed. (A nonblank character must be in column 72, and continued lines must start in column 16 or beyond.)

For COBOL: Check that the SQL statement is complete before END-EXEC.

sqlcode: -106

sqlstate: 42601, 42603

SQL0107N The name "<name>" is too long. The maximum length is "<length>".

Explanation: The name returned as "<name>" is too long. The maximum length permitted for names of that type is indicated by "<length>".

The names for indexes and constraints can be a maximum length of 18 bytes. The names for columns can be a maximum length of 30 bytes. The names for tables, views and aliases can be a maximum length of 128 bytes. (This does not include any escape characters, if present.)

A maximum of 8 bytes is permitted for a schema name (object qualifier).

Host variable names must not exceed 30 bytes in length.

For the SQL CONNECT statement, an application server name of up to 18 characters in length will be accepted at pre-compilation time. However, at runtime, an application server name which is greater than 8 characters in length will cause an error.

Also, a password of up to 18 characters in length and an authorization ID of up to 8 characters in length will be accepted in the SQL CONNECT statement.

Federated system users: if in a pass-through session, a data source-specific limit might have been exceeded.

The statement cannot be processed.

Note: Where character data conversions are performed for applications and databases

running under different codepages, the result of the conversion is exceeding the length limit.

User Response: Choose a shorter name or correct the spelling of the object name.

Federated system users: for a pass-through session, determine what data source is causing the error (see the problem determination guide for the failing data sources). Examine the SQL dialect for that data source to determine which specific limit has been exceeded, and adjust the failing statement as needed.

sqlcode: -107

sqlstate: 42622

SQL0108N The name “<name>” has the wrong number of qualifiers.

Explanation: The name “<name>” is improperly qualified.

The object given the name “<name>” can only have one qualifier.

A column name is qualified with a table name, which is either qualified or unqualified, or a correlation name. In some contexts, a column name requires a table name qualifier.

The statement cannot be processed.

User Response: Ensure that the name for the object is qualified correctly.

sqlcode: -108

sqlstate: 42601

SQL0109N The “<clause>” clause is not allowed.

Explanation: The indicated clause is not allowed in the context where it appears in the SQL statement.

A subquery, an INSERT statement, or a CREATE VIEW statement cannot have INTO, ORDER BY, or FOR UPDATE clauses. An embedded SELECT statement cannot have ORDER BY or FOR UPDATE clauses. An embedded SELECT statement cannot contain a set operator except in

a subquery. SELECT or VALUES statements used in cursor declarations cannot have an INTO clause. A RAISE_ERROR function can only be used as a select list item if it is cast to some data type using the CAST specification.

Federated system users: In a pass-through session, a data source-specific restriction might have been violated.

The statement cannot be processed.

User Response: Correct the SQL statement by removing the clause.

Federated system users: For a pass-through session, determine what data source is causing the error (see the problem determination guide for the failing data sources). Examine the SQL dialect for that data source to determine which specific restriction has been violated, and adjust the failing statement as needed.

sqlcode: -109

sqlstate: 42601

SQL0110N “<string>” is an invalid hexadecimal constant.

Explanation: The hexadecimal constant “<string>” is invalid. The problem is one of the following:

- An invalid hexadecimal digit was specified. Only '0 to 9', 'A to F', and 'a to f' are allowed.
- An uneven number of hexadecimal digits was specified.
- More than 8000 hexadecimal digits were specified.

User Response: Correct the constant and resubmit the statement.

sqlcode: -110

sqlstate: 42606

SQL0111N The column function “<name>” does not include a column name.

Explanation: The specification of the column function “<name>” (AVG, MIN, MAX, SUM, or COUNT(DISTINCT)) was not specified correctly

because such functions must include a column name in the operand.

The statement cannot be processed.

User Response: Specify a column name in the expression that is the operand to the column function.

NOTE: This error is only applicable to releases of DB2 prior to Version 2.

sqlcode: -111

sqlstate: 42901

SQL0112N **The operand of the column function “<name>” includes a column function, a scalar fullselect, or a subquery.**

Explanation: The operand of a column function cannot include a:

- column function
- scalar fullselect
- subquery.

In a SELECT list, the operand of an arithmetic operator cannot be a column function that includes the DISTINCT keyword.

The statement cannot be processed.

User Response: Correct the use of the column function to eliminate the invalid expression and try again.

sqlcode: -112

sqlstate: 42607

SQL0117N **The number of values assigned is not the same as the number of specified or implied columns.**

Explanation:

- The number of insert values in the value list of the INSERT statement is not the same as the number of columns specified or implied. If no column list is specified, a column list that includes all columns of the table or view is implied.

- The number of values on the right hand side of an assignment in a SET transition-variable statement or SET clause of an UPDATE statement does not match the number of columns on the left hand side.

The statement cannot be processed.

User Response: Correct the statement to specify one value for each of the specified or implied columns.

sqlcode: -117

sqlstate: 42802

SQL0118N **The table or view that is the target of the INSERT, DELETE, or UPDATE statement is also specified in a FROM clause.**

Explanation: The table or view specified as the target of an INSERT, DELETE, or UPDATE statement also appears in the FROM clause of a subquery within the statement.

The table or view that is the target of an INSERT, UPDATE, or DELETE cannot also be used to supply the values to be inserted or to qualify the rows to be inserted, updated, or deleted.

The statement cannot be processed.

This message is only applicable to Version 1.2 servers and earlier, and hosts accessed through DB2 Connect.

User Response: The implied function is not supported. To attempt to obtain the desired result, create a temporary copy of the object table or view and address the subselect to that copy.

sqlcode: -118

sqlstate: 42902

SQL0119N An expression starting with “<expression-start>” specified in a SELECT clause, HAVING clause, or ORDER BY clause is not specified in the GROUP BY clause or it is in a SELECT clause, HAVING clause, or ORDER BY clause with a column function and no GROUP BY clause is specified.

Explanation: The SELECT statement has one of the following errors:

- The identified expression and a column function are contained in the SELECT clause, HAVING clause, or ORDER BY clause but there is no GROUP BY clause
- The identified expression is contained in the SELECT clause, HAVING CLAUSE, or ORDER BY clause but is not in the GROUP BY clause.

The identified expression is an expression that starts with “<expression-start>”. The expression may be a single column name.

If the NODENUMBER or PARTITION functions are specified in the HAVING clause, then all partitioning key columns of the underlying table are considered to be in the HAVING clause.

The statement cannot be processed.

User Response: Correct the statement by including the expression in the GROUP BY clause that are in the SELECT clause, HAVING clause, or ORDER BY clause or by removing the column function from the SELECT statement.

sqlcode: -119

sqlstate: 42803

SQL0120N A WHERE clause, GROUP BY clause, SET clause, or SET transition-variable statement contains a column function.

Explanation: A WHERE clause can contain a column function only if that clause appears within a subquery of a HAVING clause and the argument of the column function is a correlated

reference to a group. A GROUP BY clause can contain a column function only if the argument of the column function is a correlated reference to a column in a different subselect than the one containing the GROUP BY clause. A SET clause of an UPDATE statement or a SET transition-variable statement can only include a column function within a fullselect on the right hand side of an assignment.

The statement cannot be processed.

User Response: Change the statement so that the column function is not used or used only where it is supported.

sqlcode: -120

sqlstate: 42903

SQL0121N The column “<name>” is specified more than once in the INSERT, UPDATE or SET transition-variable statement.

Explanation: The same column “<name>” is specified more than once in the list of columns of an INSERT statement, the left hand side of assignments in the SET clause of an UPDATE statement, or the left hand side of assignments in the SET transition-variable statement. Note that this error may occur when updating or inserting into a view where more than one column of the view is based on the same column of a base table.

The statement cannot be processed.

User Response: Correct the syntax of the statement so each column name is specified only once.

sqlcode: -121

sqlstate: 42701

SQL0122N A SELECT statement with no GROUP BY clause contains a column name and a column function in the SELECT clause, or a column name is contained in the SELECT clause but not in the GROUP BY clause.

Explanation: The SELECT statement has one of the following errors:

- A column name and a column function are contained in the SELECT clause but there is no GROUP BY clause.
- A column name is contained in the SELECT clause but not in the GROUP BY clause.

The column may be contained in a scalar function.

If the NODENUMBER or PARTITION functions are specified in the SELECT clause, then all partitioning key columns of the underlying table are considered to be in the SELECT clause.

The statement cannot be processed.

User Response: Correct the statement by including the columns in the GROUP BY clause that are in the SELECT clause or by removing the columns from the SELECT clause.

sqlcode: -122

sqlstate: 42803

SQL0123N The parameter in position "<n>" in the function "<name>" must be a constant or a keyword.

Explanation: The parameter in position "<n>" in the function "<name>" is not a constant when it is required to be a constant or a keyword when it is required to be a keyword.

User Response: Ensure that each argument of the function conforms to the definition of the corresponding parameter.

sqlcode: -123

sqlstate: 42601

SQL0125N The column number in the ORDER BY clause is either less than one or greater than the number of columns in the result table.

Explanation: The ORDER BY clause in the statement contains a column number that is either less than 1 or greater than the number of columns in the result table (the number of items in the SELECT clause).

The statement cannot be processed.

User Response: Correct the syntax of the ORDER BY clause so each column identifier properly identifies a column of the result table.

sqlcode: -125

sqlstate: 42805

SQL0127N DISTINCT is specified more than once.

Explanation: The DISTINCT qualifier cannot be used:

- In both the SELECT clause and a column function
- In two or more column functions in the same SELECT statement.

The statement cannot be processed.

User Response: This error is only applicable to releases of DB2 prior to DB2 Version 2 and hosts accessed through DB2 Connect.

sqlcode: -127

sqlstate: 42905

SQL0129N The statement contains too many table names (the maximum is 15).

Explanation: The SQL statement contains too many table names. A single SQL statement can reference up to 15 tables. Each table in any view referenced is included in this limit.

The statement cannot be processed.

User Response: Break the SQL statement into

two or more simple statements with 15 or fewer table references.

This message is only applicable to Version 1.2 servers and earlier, and hosts accessed through DB2 Connect.

sqlcode: -129

sqlstate: 54004

SQL0130N The ESCAPE clause is not a single character, or the pattern string contains an invalid occurrence of the escape character.

Explanation: The escape character must be a single character no more than two bytes in length. It can only appear in the pattern string if it is followed by itself, a percent sign, or an underscore. For more information about the ESCAPE clause on the LIKE predicate, refer to the *SQL Reference*.

User Response: Correct the pattern string or the escape character accordingly.

sqlcode: -130

sqlstate: 22019, 22025

SQL0131N The operands of a LIKE predicate have incompatible data types.

Explanation: If the expression to the left of a LIKE or NOT LIKE is of type character, the expression to the right must be of type character.

If the expression to the left is of type graphic, the expression to the right must be of type graphic.

If the expression to the left is of type BLOB, the expression to the right must be of type BLOB.

The statement cannot be processed.

User Response: Correct the expressions of the LIKE predicate to be the same data type.

sqlcode: -131

sqlstate: 42818

SQL0132N A LIKE predicate or POSSTR scalar function is not valid because the first operand is not a string expression or the second operand is not a string.

Explanation: A LIKE predicate or POSSTR scalar function appearing in the statement is not valid because either the first operand is not a string expression or the second operand is not a string.

The operand appearing to the left of a LIKE or NOT LIKE predicate or the first operand of POSSTR must be a string expression. The value appearing to the right of the predicate or the second operand of POSSTR can be one of:

- a constant
- a special register
- a host variable
- a scalar function whose operands are any of the above
- an expression concatenating any of the above

with the restrictions that:

- no element in the expression can be of type LONG VARCHAR, CLOB, LONG VARGRAPHIC, or DBCLOB. In addition it cannot be a BLOB file reference variable.
- the actual length of the expression cannot be more than 4000 bytes.

A LIKE predicate or POSSTR scalar function cannot be used with DATE, TIME, or TIMESTAMP.

The statement cannot be processed.

User Response: Check and correct the syntax of LIKE and POSSTR

sqlcode: -132

sqlstate: 42824

SQL0134N Improper use of a string column, host variable, constant, or function "<name>".

Explanation: The use of the string "<name>" is not permitted.

An expression resulting in a string data type with a maximum length greater than 254 bytes is not permitted in:

- A SELECT DISTINCT statement
- A GROUP BY clause
- An ORDER BY clause
- A column function with DISTINCT
- A SELECT or VALUES statement of a set operator other than UNION ALL.

An expression resulting in a LONG VARCHAR or LONG VARGRAPHIC data type is not permitted in:

- A predicate other than EXISTS or NULL
- A column function
- The SELECT clause of a subquery of a predicate other than EXISTS or NULL
- The SELECT clause of a subselect in an INSERT statement
- The value expression of a SET clause in an UPDATE statement unless the expression is a LONG VARCHAR or LONG VARGRAPHIC host variable
- A SELECT statement of a set operator (except UNION ALL)
- VARGRAPHIC scalar function.

Federated system users: in a pass-through session, a data source-specific restriction can cause this error. See the SQL Reference documentation for the failing data sources.

The statement cannot be processed.

User Response: The requested operation on the string is not supported.

Note: If it is unclear as to how the 254 byte limit is being exceeded, consider that codepage conversion operations may be required to

evaluate the string expression. Depending on the source and target codepages, the target may have a greater length attribute than the source. For more information, refer to the SQL Reference for discussions on string restrictions and string conversions.

sqlcode: -134

sqlstate: 42907

SQL0135N The input for a long string column in an INSERT statement or UPDATE statement must be from a host variable or be the keyword NULL.

Explanation: The UPDATE or INSERT is using constants, column names, or subqueries where it should be using NULL or a host variable.

A long string column is either a LONG VARCHAR, LONG VARGRAPHIC, VARCHAR(n) where n is greater than 254 but less than or equal to 32767, or VARGRAPHIC(n) where n is greater than 127 but less than or equal to 16383.

User Response: Refer to the DB2 for VM Application Programming manual for information on the use of long strings. Correct the statement. Try again.

sqlcode: -135

sqlstate: 56033

SQL0137N The length resulting from "<operation>" is greater than "<maximum value>".

Explanation: The result of concatenating the given operands was longer than what is supported by the result type.

Character string results are limited to 32,700 bytes unless one of the operands is a CLOB and then the limit is 2 gigabytes.

Graphic string results are limited to 16,350 characters unless one of the operands is a DBCLOB and then the limit is 1,073,741,823 (1

less than 1 gigabyte) double byte characters.

Binary string results (operands are BLOB) are limited to 2 gigabytes.

User Response: Ensure that the sum of the lengths of the operands does not exceed the supported maximum and try the operation again.

sqlcode: -137

sqlstate: 54006

SQL0138N The second or third argument of the SUBSTR function is out of range.

Explanation: One of the following conditions occurred:

- The second argument of the SUBSTR function is less than 1 or greater than M.
- The third argument of the SUBSTR function is an expression with a value less than 0 or greater than M-N+1.

M is the length of the first argument if it is fixed length or the maximum length of the first argument if it is varying length. N is the value of the second argument.

The statement cannot be processed.

User Response: Ensure that the second and third arguments of the SUBSTR function have values that conform to the above rules.

sqlcode: -138

sqlstate: 22011

SQL0139W A redundant clause appears in the specification for column "<column>".

Explanation: The clause in the column specification is redundant.

The statement was processed successfully, but the redundant clause was ignored.

User Response: Correct the column specification.

sqlcode: +139

sqlstate: 01589

SQL0142N The SQL statement is not supported.

Explanation: An embedded SQL statement that may be valid for other IBM relational database products is not supported by the database manager.

Federated system users: check to see if an SQL statement was directed at a data source that does not support the SQL statement.

The statement cannot be processed.

User Response: Change the syntax of the SQL statement or remove the statement from the program.

Federated system users: if the reason is unknown, isolate the problem to the data source failing the request (see the problem determination guide for procedures to follow to identify the failing data source) and examine the SQL dialect for that data source.

SQL0143W The SQL statement is not supported; invalid syntax is ignored.

Explanation: An embedded SQL statement that may be valid for other IBM relational database products is understood but is not supported by the database manager.

The statement may produce inconsistent or unwanted results.

User Response: Change the syntax of the SQL statement or remove the statement from the program.

SQL0150N The view or summary table in the INSERT, DELETE, or UPDATE statement is a view or summary table for which the requested operation is not permitted.

Explanation: The view or summary table named in the INSERT, UPDATE, or DELETE statement is defined so that the requested insert, update, or delete operation cannot be performed.

A view is read only if the SELECT statement contains any of the following:

- A DISTINCT keyword
- A column function in the select list
- A GROUP BY or HAVING clause
- A FROM clause that identifies one of the following:
 - More than one table or view
 - A read-only view (READONLY column of SYSCAT.SYSVIEWS is set to 'Y')
 - A table or view that is also identified in the FROM clause of a subquery of the SELECT statement. (NOTE: This only applies to releases prior to DB2 Version 2.)
- A set operator (other than UNION ALL).
- Federated system users: a data source specific limitation that causes the column not to be updateable

Note that these conditions do not apply to subqueries of the SELECT statement.

Summary tables do not allow the insert, update or delete operations.

The statement cannot be processed.

User Response: The requested function cannot be performed on the view or summary table.

Federated system users: if the reason is unknown, isolate the problem to the data source failing the request (see the problem determination guide for procedures to follow to identify the failing data source) and examine the object definition and the update restrictions for that data source.

sqlcode: -150

sqlstate: 42807

SQL0151N The column “<name>” cannot be updated.

Explanation: The specified column cannot be updated because one of the following was attempted.

- the object table is a view, and the specified column is derived from a scalar function, expression, keyword, constant, or column of a view where that column cannot be updated.
- the specified column is a non-updateable column of a system catalog.

Federated system users should check to see if some other data source specific limitation prevents the column from being updated.

The statement cannot be processed.

User Response: The requested function is not supported. For a list of updateable catalogs (and the updateable columns) see the *SQL Reference*.

Federated system users: if the reason is unknown, isolate the problem to the data source failing the request (see the problem determination guide) and examine the object definition and the update restrictions for that data source.

sqlcode: -151

sqlstate: 42808

SQL0153N The CREATE VIEW statement or common table expression does not include a column list.

Explanation: A column list must be specified in a CREATE VIEW statement or a common table expression when:

- any element of the SELECT list in the fullselect is other than a column name and is not named using the AS clause
- any two elements are the same column name that were not renamed using the AS clause.

The statement cannot be processed. For a CREATE VIEW statement, the view was not created.

User Response: Provide a column name list in the CREATE VIEW statement or name the columns in the SELECT list of the fullselect using the AS clause.

sqlcode: -153

sqlstate: 42908

SQL0155N A trigger transition table cannot be modified.

Explanation: The trigger includes a REFERENCING clause with an OLD_TABLE or NEW_TABLE identified. A DELETE, INSERT or UPDATE triggered SQL statement has used the name specified as the OLD_TABLE or NEW_TABLE as the table to modify.

User Response: Remove the DELETE, INSERT or UPDATE triggered SQL statement from the triggered action or change the name of the transition table so that it does not conflict with the table you are attempting to modify.

sqlcode: -155

sqlstate: 42807

SQL0156N The name used for this operation is not a table.

Explanation: The SQL statements ALTER TABLE, DROP TABLE, SET CONSTRAINTS, CREATE TRIGGER, CREATE INDEX, LOCK TABLE, and RENAME TABLE are applicable only to tables, not to views. The RUNSTATS and LOAD utilities are also applicable only to tables, not to views.

Federated system users: Some utilities and statements are not supported in a federated environment. See the Administration Guide for more information.

The statement or utility cannot be processed.

User Response: Verify that the correct table name is specified in the statement. If an alias name was supplied, ensure that the alias resolves to a table.

Federated system users: Verify that the object is not a nickname.

sqlcode: -156

sqlstate: 42809

SQL0157N "<name>" is not allowed in a FOREIGN KEY clause because it identifies a view.

Explanation: The view "<name>" was identified in a FOREIGN KEY clause of a CREATE or ALTER TABLE statement. A FOREIGN KEY clause must identify a table, not a view.

The statement cannot be processed. The specified table is not created or altered.

User Response: Correct the statement to specify a table name in the FOREIGN KEY clause.

If an alias name was supplied, ensure that the alias resolves to a table.

sqlcode: -157

sqlstate: 42810

SQL0158N The number of columns specified for "<name>" is not the same as the number of columns in the result table of the associated fullselect.

Explanation: The identifier "<name>" could identify:

- a view named in a CREATE VIEW statement
- a table name of a common table expression
- a correlation name of a nested table expression.

The number of column names specified must be equal to the number of columns in the result table of the associated fullselect.

The statement cannot be processed.

User Response: Correct the syntax so that the list of column names that immediately follow "<name>" specify a name for each column of the result table in the associated fullselect.

sqlcode: -158

sqlstate: 42811

SQL0159N **The statement references “<object>” which identifies a(n) “<object-type>” rather than a(n) “<expected-object-type>”.**

Explanation: The object “<object>” specified as part of the statement or command refers to an object of type “<object-type>” instead of the expected type “<expected-object-type>”.

The type of the object provided with the statement or command must match the type identified by “<expected-object-type>”. For example, if the statement is DROP ALIAS *PBIRD.T1*, then *PBIRD.T1* must be an alias name.

User Response: Change the statement or command to properly match the type of object identified by “<expected-object-type>”.

sqlcode: -159

sqlstate: 42809

SQL0160N **The WITH CHECK OPTION clause is not valid for the specified view.**

Explanation: The WITH CHECK OPTION clause cannot be used in a view definition if:

- The view is defined as read only. The view is read only if the SELECT statement contains any of the following. (Note that these conditions do not apply to subqueries of the SELECT statement.)
 - A DISTINCT keyword
 - A column function in the selected list
 - A GROUP BY or HAVING clause
 - A FROM clause that identifies either:
 - More than one table or view
 - A read-only view
 - A set operator (other than UNION ALL).
- The SELECT statement in the CREATE VIEW statement includes a subquery (except for specific statistic columns of some catalog tables).

Federated system users: the WITH CHECK option is not supported on views that reference updateable nicknames.

The statement cannot be processed. The specified view was not created.

User Response: Remove the WITH CHECK OPTION clause or change the view definition so it conforms to the rules above.

sqlcode: -160

sqlstate: 42813

SQL0161N **The resulting row of the INSERT or UPDATE does not conform to the view definition.**

Explanation: The WITH CHECK OPTION clause was specified in the view definition that is the object of the INSERT or UPDATE statement. Consequently, all attempts to insert or update rows in that view are checked to ensure that the results conform to the view definition.

The statement cannot be processed. No inserts or updates are performed, and the contents of the view and underlying base table remain unchanged.

User Response: Examine the view definition to determine why the requested INSERT or UPDATE was rejected. Note that this may be a data-dependent condition.

Requested INSERT or UPDATE may be trying to put out of range value(s) in the target column(s). For system catalog updates, see the *SQL Reference* for valid ranges of values in various updateable columns of catalogs.

Federated system users, if the reason is unknown, isolate the problem to the data source failing the request (see the problem determination guide) and examine the object definition and the view definition for that data source.

sqlcode: -161

sqlstate: 44000

SQL0170N The number of arguments for function "<name>" is incorrect.

Explanation: The specified scalar function "<name>" has either too few or too many arguments.

The statement cannot be processed.

User Response: Ensure that the correct number of arguments is specified for the scalar function.

sqlcode: -170

sqlstate: 42605

SQL0171N The data type, length or value of argument "<n>" of function "<name>" is incorrect.

Explanation: The data type, length or value of argument "<n>" of scalar function "<name>" is incorrect.

The statement cannot be processed.

User Response: Ensure the arguments of the scalar function conform to the function rules.

sqlcode: -171

sqlstate: 42815

SQL0172N "<name>" is not a valid function name.

Explanation: The SQL statement includes an unknown scalar function.

The statement cannot be processed.

User Response: Ensure that you correctly spell the function name.

sqlcode: -172

sqlstate: 42601

SQL0176N The second, third or fourth argument of the TRANSLATE scalar function is incorrect.

Explanation: The statement is not correct for one or more of the following reasons:

- The translate scalar function does not allow replacement of a character by another character which is encoded using a different number of bytes. For example, a single-byte character cannot be replaced with a double-byte character nor can a double-byte character be replaced with a single-byte character.
- The second and third arguments of the translate scalar function must end with correctly formed characters.
- The fourth argument of the translate scalar function must be a correctly formed single-byte character if the first argument is CHAR or VARCHAR.
- The fourth argument of the translate scalar function must be a correctly formed double-byte character if the first argument is GRAPHIC or VARGRAPHIC.

The statement cannot be processed.

User Response: Ensure that the second, third, and fourth arguments of the translate scalar function have correct values.

sqlcode: -176

sqlstate: 42815

SQL0180N The syntax of the string representation of a datetime value is incorrect.

Explanation: The string representation of a date, time, or timestamp value does not conform to the syntax for the specified or implied data type.

The statement cannot be processed.

User Response: Ensure that the syntax of the date, time, or timestamp value conforms to the syntax for its data type. If the string is not intended to be a date, time, or timestamp value, ensure that when used, it does not imply that data type.

Federated system users: the problem might be due to a date/time representation problem at the data source. If the reason is unknown, isolate the problem to the data source failing the request problem determination guide and examine the

date/time representation restrictions for that data source.

sqlcode: -180

sqlstate: 22007

SQL0181N The string representation of a datetime value is out of range.

Explanation: The string representation of a date, time or timestamp value contains a value that is out of range.

This error could be caused by accessing a datetime value from an application using a country code whose datetime format is different than the one used by the application that created it. For example, a string datetime value stored in the format dd/mm/yyyy will not be valid when read by an application expecting its format to be mm/dd/yyyy.

The correct ranges for date, time, or timestamp values are as follows:

- 0001 to 9999 for years.
- 1 to 12 for months.
- 1 to 31 for days when the month is 1, 3, 5, 7, 8, 10, and 12.
- 1 to 30 for days when the month is 4, 6, 9, 11.
- 1 to 28 for days when the month is 2 in a non-leap year.
- 1 to 29 for days when the month is 2 in a leap year.
- 0 to 24 for hours. If the hour is 24, the other parts of the time are 0. If the format is USA, the hour cannot be greater than 12.
- 0 to 59 for minutes.
- 0 to 59 for seconds.
- 0 to 999999 for microseconds.
- 001 to 365 for the day portion of a Julian calendar date when the year is not a leap year.
- 001 to 366 for the day portion of a Julian calendar date when the year is a leap year.

Federated system users: the problem might be due to a date/time representation problem at the data source. Refer to the data source's documentation for the ranges for date and time

values at the data source. If the reason is unknown, isolate the problem to the data source failing the request (see the problem determination guide) and examine the date/time representation restrictions for that data source.

The statement cannot be processed.

User Response: Ensure that the value is within the valid range, and the application's datetime format is the same as the string value.

sqlcode: -181

sqlstate: 22007

SQL0182N An expression with a datetime value or a labeled duration is not valid.

Explanation: The specified expression contains an improperly used date, time, or timestamp value or labeled duration.

The statement cannot be processed.

User Response: Examine the SQL statement to determine the cause of the problem and correct the statement.

sqlcode: -182

sqlstate: 42816

SQL0183N A datetime arithmetic operation or datetime scalar function has a result that is not within the valid range of dates.

Explanation: The result of an arithmetic operation is a date or timestamp duration which is outside the range 0001-01-01 through 9999-12-31.

The statement cannot be executed.

User Response: Examine the SQL statement to determine the cause of the problem. If the problem is data-dependent, examine the data processed when the error occurred.

sqlcode: -183

sqlstate: 22008

SQL0187N A reference to a current date/time special register is invalid.

Explanation: An error indication from the operating system was detected while retrieving date/time information.

User Response: Ensure that the system TOD clock and timezone settings are correct.

sqlcode: -187

sqlstate: 22506

SQL0190N In table "<table-name>", column "<column-name>" cannot be altered because the data type or length of the existing column is incompatible.

Explanation: The column "<column-name>" as currently defined in "<table-name>":

- is not of data type VARCHAR or
- has a length that is greater than the length specified in the SET DATA TYPE clause

The statement cannot be processed.

User Response: If the column is not a VARCHAR data type, the data type and length cannot be changed. If the length value specified was less than the existing column length, specify a larger value.

sqlcode: -190

sqlstate: 42837

SQL0191N Error occurred because of a fragmented MBCS character.

Explanation: Possible causes:

1. User data contained an improperly formed multi-byte character. For example, the first byte of a DBCS character was found, but the second character was not.
2. A scalar function, such as SUBSTR or POSSTR has truncated a multi-bytes string incorrectly. For these functions, start and length values must be correct in terms of bytes, in the context of the database code page. For a Unicode database, a common

cause of this could be that the start or length for a UTF-8 string are incorrect.

3. A scalar function such as TRANSLATE has may have changed the multi-byte string.

Federated system users: this situation can also be detected by the data source.

User Response:

1. Correct the input data and try again.
2. Change the start and length values such that when characters are converted to the database code page, the multi-byte characters are not truncated incorrectly.
3. Correct the TRANSLATE in error.

Federated system users: if the data is correct, isolate the problem to the data source failing the request (see the problem determination guide) and examine the DBCS restrictions of that data source. If the data appears to be correct, contact IBM service for assistance.

sqlcode: -191

sqlstate: 22504

SQL0193N In an ALTER TABLE statement, the column "<column-name>" has been specified as NOT NULL and either the DEFAULT clause was not specified or was specified as DEFAULT NULL.

Explanation: When new columns are added to a table that already exists, a value must be assigned to that new column for all existing rows. By default, the null value is assigned. However, since the column has been defined as NOT NULL, a default value other than null must be defined.

User Response: Either remove the NOT NULL restriction on the column or provide a default value other than null for the column.

sqlcode: -193

sqlstate: 42601

SQL0197N A qualified column name is not allowed in the ORDER BY clause.

Explanation: The ORDER BY clause of a fullselect that includes a set operator (UNION, EXCEPT, INTERSECT) cannot have qualified column names.

User Response: Ensure that all column names in the ORDER BY clause are unqualified.

sqlcode: -197

sqlstate: 42877

SQL0198N The statement string of the PREPARE or EXECUTE IMMEDIATE statement is blank or empty.

Explanation: The host variable that was the object of the PREPARE or EXECUTE IMMEDIATE statement either contained all blanks or was an empty string.

The PREPARE or EXECUTE IMMEDIATE could not be completed.

User Response: Correct the logic of the program to ensure that a valid SQL statement is provided in the operand of the PREPARE or EXECUTE IMMEDIATE statement before it is executed.

sqlcode: -198

SQL0200 - SQL0299

SQL0203N A reference to column "<name>" is ambiguous.

Explanation: The column "<name>" is used in the statement and there is more than one possible column to which it could refer. This could be the result of:

- two tables specified in a FROM clause that have columns with the same name
- the ORDER BY clause refers to a name that applies to more than one column in the select list
- a reference to a column from the subject table in a CREATE TRIGGER statement does not

sqlstate: 42617

SQL0199N The use of reserved word "<keyword>" following "<text>" is not valid. Expected tokens may include: "<token-list>"

Explanation: A syntax error in the SQL statement was detected at the point in the statement when the reserved word "<keyword>" appears following "<text>". The "<text>" field indicates the 20 characters of the SQL statement that preceded the reserved word. Clauses in the statement may be in the wrong order.

As an aid to the programmer, a partial list of valid tokens is provided in the SQLERRM field of the SQLCA as "<token-list>". This list assumes the statement is correct to that point.

The statement cannot be processed.

User Response: Examine the statement in the keyword area. Add a colon or SQL delimiter, if missing. Verify that the clauses are in the correct order. If the reserved word identified in the messages is listed as a reserved word, make the word a delimited identifier.

NOTE: This error is only applicable to releases of DB2 prior to Version 2.

sqlcode: -199

sqlstate: 42601

use the correlation name to indicate if it refers to the old or new transition variable.

The column name needs further information to establish which of the possible table columns it is.

The statement cannot be processed.

User Response: Add a qualifier to the column name. The qualifier is the table name or correlation name. A column may need to be renamed in the select list.

sqlcode: -203

sqlstate: 42702

SQL0204N “<name>” is an undefined name.

Explanation: This error is caused by one of the following:

- The object identified by “<name>” is not defined in the database.
- A data type is being used. This error can occur for the following reasons:
 - If “<name>” is qualified, then a data type with this name does not exist in the database.
 - If “<name>” is unqualified, then the user’s function path does not contain the schema to which the desired data type belongs.
 - The data type does not exist in the database with a create timestamp earlier than the time the package was bound (applies to static statements).
 - If the data type is in the UNDER clause of a CREATE TYPE statement, the type name may be the same as the type being defined, which is not valid.
- A function is being referenced in one of:
 - a DROP FUNCTION statement
 - a COMMENT ON FUNCTION statement
 - the SOURCE clause of a CREATE FUNCTION statementIf “<name>” is qualified, then the function does not exist. If “<name>” is unqualified, then a function of this name does not exist in any schema of the current function path. Note that a function cannot be sourced on the COALESCE, NULLIF, or VALUE built-in functions.

This return code can be generated for any type of database object.

Federated system users: the object identified by “<name>” is not defined in the database or “<name>” is not a nickname in a DROP NICKNAME statement.

Some data sources do not provide the appropriate values for “<name>”. In these cases,

the message token will have the following format: “OBJECT:<data source> TABLE /VIEW”, indicating that the actual value for the specified data source is unknown.

The statement cannot be processed.

User Response: Ensure that the object name (including any required qualifiers) is correctly specified in the SQL statement and it exists. For missing data type or function in SOURCE clause, it may be that the object does not exist, OR it may be that the object does exist in some schema, but the schema is not present in your function path.

Federated system users: if the statement is DROP NICKNAME, make sure the object is actually a nickname. The object might not exist in the federated database or at the data source. Verify the existence of the federated database objects (if any) and the data source objects (if any).

sqlcode: -204

sqlstate: 42704

SQL0205N Column or attribute “<name>” is not defined in “<object-name>”.

Explanation: If “<object-name>” is a table or view, then “<name>” is a column that is not defined in “<object-name>”. If “<object-name>” is a structured type, then “<name>” is an attribute that is not defined in “<object-name>”.

Federated system users: “<object-name>” could refer to a nickname.

The statement cannot be processed.

User Response: If “<object-name>” is a table or view, verify that the column and table or view names (including any required qualifiers) are specified correctly in the SQL statement. If “<object-name>” is a structured type, verify that the attribute and type names (including any required qualifiers) are specified correctly in the SQL statement.

Also, if you receive this error during a REORG or an IMPORT, the column names in the index may violate the database manager naming rules as defined in the *Administration Guide*.

sqlcode: -205

sqlstate: 42703

SQL0206N “<name>” is not a column in an inserted table, updated table, or any table identified in a FROM clause or is not a valid transition variable for the subject table of a trigger.

Explanation: This error can occur in the following cases:

- For an INSERT or UPDATE statement, the specified column is not a column of the table, or view that was specified as the object of the insert or update.
- For a SELECT or DELETE statement, the specified column is not a column of any of the tables or views identified in a FROM clause in the statement.
- For an ORDER BY clause, the specified column is a correlated column reference in a subselect, which is not allowed.
- For a CREATE TRIGGER statement:
 - A reference is made to a column of the subject table without using an OLD or NEW correlation name.
 - The left hand side of an assignment in the SET transition-variable statement in the triggered action specifies an old transition variable where only a new transition variable is supported.

The statement cannot be processed.

User Response: Verify that the column and table names are specified correctly in the SQL statement. For a SELECT statement, ensure that all the required tables are named in the FROM clause. For a subselect in an ORDER BY clause, ensure that there are no correlated column references. If a correlation name is used for a table, verify that subsequent references use the correlation name and not the table name.

For a CREATE TRIGGER statement, ensure that only new transition variables are specified on the left hand side of assignments in the SET transition-variable statement and that any

reference to columns of the subject table have a correlation name specified.

sqlcode: -206

sqlstate: 42703

SQL0207N A column name is not allowed in the ORDER BY clause of a SELECT statement used with a set operator.

Explanation: A SELECT statement with a set operator contains an ORDER BY clause, which specifies column names. In this case, the list of columns in the ORDER BY clause must contain only integers.

The statement cannot be processed.

User Response: Specify only integers in the list of columns in the ORDER BY clause.

NOTE: This error is only applicable to releases of DB2 prior to Version 2 and hosts accessed through DB2 Connect.

sqlcode: -207

sqlstate: 42706

SQL0208N The ORDER BY clause is not valid because column “<name>” is not part of the result table.

Explanation: The statement is not valid because a column “<name>” specified in the ORDER BY list is not specified in the SELECT list and is not in the result table. Only columns in the result table can be used to order that result when the fullselect of the select-statement is not a subselect.

The statement cannot be processed.

User Response: To correct the syntax of the statement, either add the specified column to the result table or delete it from the ORDER BY clause.

sqlcode: -208

sqlstate: 42707

SQL0212N "<name>" is a duplicate table designator or is specified more than once in the REFERENCING clause of a trigger definition.

Explanation: The exposed table, view, alias, or correlation name specified by "<name>" is identical to another exposed table, view, alias, or correlation name in the same FROM clause.

If the statement is a CREATE TRIGGER, the REFERENCING clause may have specified the same name as the subject table or may have the same name for more than one of the OLD or NEW correlation names or the NEW_TABLE or OLD_TABLE identifiers.

The statement cannot be processed.

User Response: Rewrite the FROM clause of the SELECT statement. Associate correlation names with table, view, or alias names so no exposed table, view, alias, or correlation name is identical to any other exposed table, view, alias, or correlation name in the FROM clause.

For a CREATE TRIGGER statement, change the names in the REFERENCING clause so that there are no duplicates.

sqlcode: -212

sqlstate: 42712

SQL0214N An expression starting with "<expression-start>" in the "<clause-type>" clause is not valid. Reason code = "<reason-code>".

Explanation: The expression identified by the first part of the expression "<expression-start>" in the "<clause-type>" clause is not valid for the reason specified by the "<reason-code>" as follows:

- 1** The fullselect of the select-statement is not a subselect. Expressions are not allowed in the ORDER BY clause for this type of select-statement. This reason code occurs only when "<clause-type>" is ORDER BY.
- 2** DISTINCT is specified in the select

clause and the expression cannot be matched exactly with an expression in the select list. This reason code occurs only when "<clause-type>" is ORDER BY.

- 3** Grouping is caused by the presence of a column function in the ORDER BY clause. This reason code occurs only when "<clause-type>" is ORDER BY.
- 4** Expression in a GROUP BY clause cannot be a scalar-fullselect. This reason code occurs only when "<clause-type>" is GROUP BY.
- 5** The left side of a dereference operator in a GROUP BY clause cannot be a variant function. This reason code occurs only when "<clause-type>" is GROUP BY.

The statement cannot be processed.

User Response: Modify the select-statement based on the reason specified by the "<reason-code>" as follows:

- 1** Remove the expression from the ORDER BY clause. If attempting to reference a column of the result, change the sort key to the simple-integer or simple-column-name form.
- 2** Remove DISTINCT from the select clause or change the sort key to the simple-integer or simple-column-name form.
- 3** Add a GROUP BY clause or remove the column function from the ORDER BY clause.
- 4** Remove any scalar-fullselect from the GROUP BY clause. If grouping is desired on a column of the result that is based on a scalar-fullselect use a nested table expression or a common table expression to first provide a result table with the expression as a column of the result.
- 5** Remove any variant function from the left side of the dereference operators in the GROUP BY clause.

sqlcode: -214

sqlstate: 42822

SQL0216N The number of elements on each side of a predicate operator does not match. Predicate operator is “<predicate-operator>”.

Explanation: A predicate includes a list of elements on the right or left side (or both sides) of the predicate operator. The number of elements must be the same on both sides. These elements may appear in a list of expressions enclosed in parentheses or as elements of a select list in a fullselect.

The statement cannot be processed.

User Response: Correct the predicate with mismatched number of elements on each side of the predicate operator.

sqlcode: -216

sqlstate: 428C4

SQL0217W The statement was not executed as only Explain information requests are being processed.

Explanation: The current value of one of the Explain special registers has been set to EXPLAIN. This value allows dynamic SQL statements to be prepared and explained but prevents any dynamic statement from being executed.

User Response: Change the value of the appropriate Explain special register to a setting other than EXPLAIN by issuing the appropriate SET statement from the interface or application that is encountering this condition.

sqlcode: +217

sqlstate: 01604

SQL0219N The required Explain table “<name>” does not exist.

Explanation: The Explain facility has been invoked but was unable to find the required

Explain table “<name>”. The Explain tables must be created prior to invoking Explain.

User Response: Create the required Explain tables. The SQL Data Definition Language statements needed to create the Explain tables are available in the file called EXPLAIN.DDL in the misc directory under sqllib.

sqlcode: -219

sqlstate: 42704

SQL0220N The Explain table “<name>”, column “<name2>” does not have the proper definition or is missing.

Explanation: The Explain facility has been invoked but the Explain table “<name>” did not have the expected definition. The definition could be incorrect due to:

- Incorrect number of columns defined (if “<name2>” is numeric)
- Incorrect data type assigned to columns (if “<name2>” is a column name).

User Response: Correct the definitions of the specified Explain table. The SQL Data Definition Language statements needed to create the Explain tables are available in the file called EXPLAIN.DDL in the misc directory under sqllib.

sqlcode: -220

sqlstate: 55002

SQL0236W SQLDA has only provided “<integer1>” SQLVAR entries. “<integer2>” SQLVAR entries are required for “<integer3>” columns. No SQLVAR entries have been set.

Explanation: The value of the SQLN field of the SQLDA should be at least as large as the number of columns in the result set.

The database manager has not set any SQLVAR entries (and the SQLDOUBLED flag has been set to “off” (i.e. to the space character)).

User Response: Increase the value of the SQLN field in the SQLDA to the value indicated in the message (making sure the SQLDA is large enough to support that amount) and resubmit the statement.

sqlcode: +236

sqlstate: 01005

SQL0237W SQLDA has only provided “<integer1>” SQLVAR entries. Since at least one of the columns being described is a distinct type, “<integer2>” SQLVAR entries should have been specified. None of the Secondary SQLVAR entries have been set.

Explanation: Since at least one of the columns in the result set is a distinct type, space should be provided for twice as many SQLVAR entries as the number of columns in the result set. The database manager has only set the Base SQLVAR entries (and the SQLDOUBLED flag has been set off (i.e. to the space character).

User Response: If there is no need for the additional information about the distinct type(s) in the result set, then no action is required. If the distinct type information is needed, the value of the SQLN field in the SQLDA should be increased to the value indicated in the message (after making sure that the SQLDA is large enough to support that amount) and the statement should be resubmitted.

sqlcode: +237

sqlstate: 01594

SQL0238W SQLDA has only provided “<integer1>” SQLVAR entries. Since at least one of the columns being described is a LOB, “<integer2>” SQLVAR entries are required for “<integer3>” columns. No SQLVAR entries have been set.

Explanation: Since at least one of the columns in the result set is a LOB, space must be

provided for twice as many SQLVAR entries as the number of columns in the result set. Note also that one or more of the columns in the result set may be a distinct type.

The database manager has not set any SQLVAR entries (and the SQLDOUBLED flag has been set off (i.e. to the space character).

User Response: Increase the value of the SQLN field in the SQLDA to the value indicated in the message (after making sure that the SQLDA is large enough to support that amount) and resubmit the statement.

sqlcode: +238

sqlstate: 01005

SQL0239W SQLDA has only provided “<integer1>” SQLVAR entries. Since at least one of the columns being described is a distinct type, “<integer2>” SQLVAR entries are required for “<integer3>” columns. No SQLVAR entries have been set.

Explanation: If any of the columns in the result set is a distinct type then space should be provided for twice as many SQLVAR entries as the number of columns in the result set.

The database manager has not set any SQLVAR entries (and the SQLDOUBLED flag has been set off (i.e. to the space character).

User Response: If the distinct type information is needed, the value of the SQLN field in the SQLDA should be increased to the value indicated in the message (after making sure the SQLDA is large enough to support that amount) and the statement should be resubmitted. If there is no need for the additional information about the distinct type(s) in the result set, then it is possible to resubmit the statement only providing enough SQLVAR entries to accommodate the number of columns in the result set.

sqlcode: +239

sqlstate: 01005

SQL0242N **The object named “<object-name>” of type “<object-type>” was specified more than once in the list of objects.**

Explanation: In a list of object names of type “<object-type>”, the object named “<object-name>” was specified more than once. The operation of the statement cannot be performed on the object more than once.

User Response: Correct the duplicated object in the list removing duplicate occurrences.

sqlcode: -242

sqlstate: 42713

SQL0257N **Raw DEVICE containers are currently not supported on this platform.**

Explanation: An attempt was made to use DEVICE containers. These are not currently supported on this platform.

User Response: Use FILE containers or system-managed table spaces instead.

sqlcode: -257

sqlstate: 42994

SQL0258N **Containers cannot be added while a rebalance of the table space is pending or in progress.**

Explanation: One of the following conditions is true:

1. An ALTER TABLESPACE to add containers to the same table space (on the same node) has previously been issued in the same unit of work. Containers for a table space can only be added to one node in one ALTER TABLESPACE statement in a unit of work.
2. The table space to which you are adding containers is currently being rebalanced. Details can be found in the system error log and/or the database manager error log.

User Response:

1. If possible, roll back the unit of work and issue a single ALTER TABLESPACE to add all the containers. Otherwise, wait until the rebalance has completed and then try the operation again.
2. Wait until the rebalance has completed and then try the operation again.

sqlcode: -258

sqlstate: 55041

SQL0259N **Container map for table space is too complicated.**

Explanation: The map structure keeps a record of how the table space address space is mapped to the various containers. If this gets too complicated, it does not fit in the table space file.

Details can be found in the system error log and/or the database manager error log.

User Response: The table space may need to be rebalanced to more evenly distribute the data among the containers. This may simplify the mapping.

If this does not work, try making as many containers as possible the same size. Existing container sizes can be changed by backing up the table space and then using the database administration utility to change the containers. Restore the table space to the new containers.

sqlcode: -259

sqlstate: 54037

SQL0260N **Column “<name>” cannot belong to the partitioning key because it is a LONG-type column.**

Explanation: A partitioning key cannot have a LONG-type column.

The statement cannot be processed.

User Response: Use only non-LONG type columns for the partitioning key.

If the table does not have a non-LONG type column, either add one to the table and use it for

the partitioning key, or define the table without a partitioning key in a single-node nodegroup.

sqlcode: -260

sqlstate: 42962

SQL0262N Table "<table-name>" cannot be created in multinode nodegroup "<nodegroup-name>" because it contains only LONG-type columns. No partitioning key can be created.

Explanation: The table "<table-name>" consisting of only LONG-type columns cannot be created in a multinode nodegroup. The table must have at least one non-LONG type column for use in a partitioning key.

The statement cannot be processed.

User Response: Either create the table with one or more non-LONG type columns, or create the table in a single-node nodegroup.

sqlcode: -262

sqlstate: 428A2

SQL0263N Node range from "<node-number-1>" to "<node-number-2>" is not valid. Second node number must be greater than or equal to first node number.

Explanation: The specified node range is not valid.

The statement cannot be processed.

User Response: Correct the node range in the statement, then try the request again.

sqlcode: -263

sqlstate: 428A9

SQL0264N Partitioning key cannot be added or dropped because table resides in a table space defined on the multi-node nodegroup "<name>".

Explanation: You can only add or drop a partitioning key on a table in a single-node nodegroup.

The statement cannot be processed.

User Response: Do one of the following and try the request again:

- Define an identical table with a partitioning key.
- Redistribute the nodegroup to a single-node nodegroup.

sqlcode: -264

sqlstate: 55037

SQL0265N Node "<node-number>" is a duplicate node.

Explanation: For the CREATE NODEGROUP statement, a node can only appear once in the ON NODES clause.

For the CREATE TABLESPACE and ALTER TABLESPACE statement, a node can appear only once and in only one ON NODES clause.

For the ALTER NODEGROUP statement or REDISTRIBUTE NODEGROUP command, one of the following occurred:

- The node appeared more than once in the ADD NODES or the DROP NODES clause.
- The node appeared in both the ADD NODES and the DROP NODES clause.
- The node to be added is already a member of the nodegroup.

The statement cannot be processed.

User Response: Ensure that the node names or node numbers in the ON NODES, ADD NODES, or DROP NODES clause are unique. For the CREATE TABLESPACE and ALTER TABLESPACE statements, ensure that a node appears in no more than one ON NODES clause.

In addition, for the ALTER NODEGROUP statement or REDISTRIBUTE NODEGROUP command:

- Do not specify a node in both the ADD NODES and the DROP NODES clause.
- Remove the node from the ADD NODES clause if the node is already defined in the nodegroup.

sqlcode: -265

sqlstate: 42728

SQL0266N Node “<node-number>” is not defined.

Explanation: The node “<node-number>” is not valid for one of the following reasons:

- the node number is not in the valid range of 0 to 999
- the node is not in the node configuration file
- the node is not part of the nodegroup, therefore the requested operation cannot be processed.

The statement cannot be processed.

User Response: Depending on the condition:

- issue the statement, command or API with node numbers in the valid range.
- follow the procedure to add a node to the system.
- remove the node from the specified nodes in the statement, command or API.

sqlcode: -266

sqlstate: 42729

SQL0268N “<operation>” cannot be performed while nodegroup is being redistributed.

Explanation: One of the following:

- The nodegroup is being redistributed. It cannot be altered, dropped or redistributed again until the current operation is complete.

- The partitioning key of a table cannot be dropped while the nodegroup of the table is being redistributed.

The statement cannot be processed.

User Response: Wait until the redistribution is complete, then try the request again.

sqlcode: -268

sqlstate: 55038

SQL0269N Database contains maximum number of partitioning maps.

Explanation: Because the database contains the maximum number of partitioning maps (32,768), you cannot create a new nodegroup, alter a nodegroup, or redistribute an existing one.

The statement cannot be processed.

User Response: Drop one or more nodegroups in the database.

Note: Dropping a nodegroup drops all database objects such as table spaces, tables and views that reside in the nodegroup.

sqlcode: -269

sqlstate: 54033

SQL0270N Function not supported (Reason code = “<reason-code>”).

Explanation: The statement cannot be processed because it violates a restriction as indicated by the following reason code:

1	The primary key, each unique constraint, and each unique index must contain all partitioning columns of the table (columns may appear in any order).
2	Update of the partitioning key column value is not supported.
3	A foreign key cannot include any nullable partitioning key columns when defined with ON DELETE SET NULL. This is a special case of reason code 2 since defining such a constraint would

	result in attempting to update a partitioning key column.	13	Check constraints cannot be defined on a typed table or the WITH CHECK OPTION clause cannot be specified on a typed view.
4	A table defined using a multipartition nodegroup or a single-partition nodegroup on other than the catalog partition does not support DATA CAPTURE CHANGES.	14	Referential constraints cannot be defined on a typed table or to a parent table that is a typed table.
5	View created with the WITH CHECK OPTION clause should not use functions (or reference views that use functions) that: • are non-deterministic • have side effects • are related to the placement of data (for example nodenumber or partition functions). These functions must also not be present within referenced views if the new view is created with the CASCADED check option.	15	A default value cannot be defined for reference type columns.
6	A transform cannot be defined for a user-defined distinct type.	16	A reference data type or structured data type cannot be used as a parameter data type or a returns data type of a user defined function.
7	Long fields can only be defined using a table space with a page size that is 4K. A LONG TABLESPACE can only be created using a 4K page size.	17	The SET CONSTRAINTS statement cannot be used for a typed table.
8	Structured types are not supported as columns of a table or structured type attribute data types.	18	Column level UPDATE and REFERENCES privileges cannot be granted on a typed table or typed view.
9	Triggers are not supported on typed tables.	19	A specific default value must be specified when defining a default for a column of a typed table.
10	A single default table space cannot be selected since the table has one or more LOB columns which must be placed in a table space with a 4K page size and the rowsize or number of columns in the table requires a table space with an 8K page size.	20	ALTER TABLE is not supported for a summary table.
11	A typed table or typed view cannot be created using a structured type that has no attributes.	21	Column length cannot be altered on a table which is a base table for a summary table.
12	The type of a source key parameter must be a user-defined structured type.	22	Summary tables cannot be defined in a CREATE SCHEMA statement.
		23	REPLICATED can only be specified for a summary table defined with REFRESH DEFERRED.
		24	The triggered-action in a BEFORE trigger cannot reference a summary table defined with REFRESH IMMEDIATE.
		25	Only one summary table can be specified for a SET CONSTRAINTS statement.
		26	The nodegroup being redistributed contains at least one replicated summary table.
		27	Replicated summary tables cannot be defined on a table that does not have a

unique index existing on one or more columns that make up the replicated summary table.

- 28 A typed table or summary table cannot be renamed.
- 29 FOR EXCEPTION clause cannot be specified with a summary table in the SET CONSTRAINTS statement.
- 30 Typed tables and typed views cannot be defined in a CREATE SCHEMA statement.
- 31 A partitioning key cannot be defined with more than 500 columns.
- 32 A table defined using a multipartition nodegroup or a single-partition nodegroup on other than the catalog partition does not support DATALINK columns defined with FILE LINK CONTROL.
- 33 An underlying table of a summary table defined with REFRESH IMMEDIATE cannot be the child of a referential constraint with cascading effect (i.e. with option ON DELETE CASCADE or ON DELETE SET NULL).
- 34 The underlying object relational feature is not supported in the current release.

User Response: The action corresponding to the reason code is:

- 1 Correct the CREATE TABLE, ALTER TABLE or CREATE UNIQUE INDEX statment.
- 2 Do not attempt to update the partitioning key columns for a multipartition table or consider deleting and then inserting the row with the new values in the partitioning columns.
- 3 Make the partitioning key column not nullable, specify a different ON DELETE action, or change the partitioning key of the table so that the foreign does not include any columns of the partitioning key.
- 4 Either specify DATA CAPTURE NONE

or ensure that the table is placed in a table space on a single-partition nodegroup that specifies the catalog partition.

- 5 Do not use the WITH CHECK OPTION clause or remove the function or view from the view definition.
- 6 Transforms are automatic for user-defined distinct types. Use the CREATE TRANSFORM statement for user-defined structured types only.
- 7 Use a table space with 4K page size for any table that includes long fields. If using DMS table spaces, long fields can be placed in a table space with 4K page size with other table or index data in table spaces with a different page size. When defining a LONG TABLESPACE, use PAGESIZE 4K.
- 8 Ensure that no column data types are structured types in the CREATE TABLE statement or ALTER TYPE ADD COLUMN statement. Ensure that no attribute data types are structured types in the CREATE TYPE statement or ALTER TYPE ADD ATTRIBUTE statement.
- 9 Do not define triggers on typed tables.
- 10 Either reduce the row size or number of columns in the table or specify 2 table spaces such that the long data is in a table space with a 4K page size and the base data is in a table space with an 8K page size.
- 11 When creating a typed table or typed view, specify a structured type that has at least one attribute defined.
- 12 Use only a structured type as the type of a source key parameter.
- 13 In a CREATE TABLE or ALTER TABLE statement for a typed table, do not specify check constraints. In a CREATE VIEW statement of a typed view, do not specify the WITH CHECK OPTION clause.

14	Do not specify referential constraints involving typed tables in a CREATE TABLE or ALTER TABLE statement.	27	Ensure that a subset of the columns defined for the summary table also are the set of columns that make up a unique index on the base table.
15	Do not specify a DEFAULT clause for a column with a reference data type in a CREATE TABLE or ALTER TABLE statement.	28	A typed table or summary table name can only be changed by dropping the table and creating it again with the new name. Dropping the table may have implications on other objects that depend on the table and the privileges on the table are lost.
16	Do not specify a reference type or structured type parameter or returns type that is a reference type when creating a user defined function.	29	Remove the FOR EXCEPTION clause from the SET CONSTRAINTS statement.
17	Do not specify a typed table in the SET CONSTRAINTS statement.	30	Issue the CREATE statement for the typed view or typed table outside of the CREATE SCHEMA statement.
18	Do not include specific column names when granting REFERENCES or UPDATE privileges on a typed table or typed view.	31	Reduce the number of columns in the partitioning key.
19	Include a specific value when specifying the DEFAULT clause on a column of a typed table.	32	Either specify NO LINK CONTROL for the DATALINK column or ensure that the table is placed in a table space on a single-partition nodegroup that specifies the catalog partition. If redistributing to a multiple-partition nodegroup, the table needs to be dropped to continue with the redistribute.
20	Drop the summary table and recreate it with the desired attributes.	33	• Do not define a referential constraint with cascading effect (i.e. with option ON DELETE CASCADE or ON DELETE SET NULL) with an underlying table of a summary table defined with REFRESH IMMEDIATE as the child, or • do not define a REFRESH IMMEDIATE summary table whose underlying table is the child of a referential constraint with cascading effect (i.e. with option ON DELETE CASCADE or ON DELETE SET NULL).
21	Drop the summary table(s), alter the column length of the base table and then recreate the summary table(s).	34	The error can be corrected by removing the use of any unsupported object relational features.
22	Issue the CREATE SUMMARY TABLE statement outside of the CREATE SCHEMA statement.		
23	Either remove the REPLICATED specification or ensure that REFRESH DEFERRED is specified for the summary table definition.		
24	Remove the reference to the summary table in the triggered-action in the BEFORE trigger.		
25	Issue separate SET CONSTRAINTS IMMEDIATE CHECKED statements for each summary table.		
26	Drop all replicated summary tables in the nodegroup and then issue the REDISTRIBUTE NODEGROUP command again. Recreate the replicated summary table(s).		

sqlcode: -270

sqlstate: 42997

SQL0271N Index file for table with fid "<fid>" is either missing, or is not valid.

Explanation: The index file for the table with fid "<fid>" is required during processing. The file is either missing, or it is not valid.

The statement cannot be processed, and the application is still connected to the database. This condition does not affect other statements that do not use the index on this table.

User Response: Ensure that all users are disconnected from the database, then issue the RESTART DATABASE command on all nodes. Then try the request again.

The index (or indexes) is re-created when the database is restarted.

sqlcode: -271

sqlstate: 58004

SQL0276N Connection to database "<name>" cannot be made because it is in the restore pending state.

Explanation: The database must be restored before a connection can be done.

No connection was made.

User Response: Restore the database, then issue the CONNECT statement again.

sqlcode: -276

sqlstate: 08004

SQL0279N The database connection has been terminated during COMMIT processing. The transaction could be in doubt. Reason code = "<reason-code>".

Explanation: Commit processing encountered an error. The transaction has been put in the commit state, but the commit processing may not have completed. The application's database connection has been terminated.

The cause of the error is indicated by the "<reason-code>":

- 1 A node involved in the transaction has failed.
- 2 Commit was rejected on one for the nodes. Check the db2diag.log file for details.

User Response: Determine the cause of the error. It may be necessary to contact the system administrator for assistance since the most common cause of the error is node failure or connection failure. The RESTART DATABASE command will complete the commit processing for this transaction.

sqlcode: -279

sqlstate: 08007

SQL0280W View, trigger or summary table "<name>" has replaced an existing inoperative view, trigger or summary table.

Explanation: An existing inoperative view, trigger or summary table "<name>" was replaced by:

- the new view definition as a result of a CREATE VIEW statement
- the new trigger definition as a result of a CREATE TRIGGER statement
- the new summary table definition as a result of a CREATE SUMMARY TABLE statement.

User Response: None required.

sqlcode: +280

sqlstate: 01595

SQL0281N Table space "<tablespace-name>" cannot be altered with additional containers because it is a system managed table space.

Explanation: Additional containers cannot be added to a system managed table space. The exception to this is when a nodegroup was modified to add a node without table spaces, then containers can be added once on the new

node using the ALTER TABLESPACE command. In general, the table space must be managed by the database in order to add additional containers.

The statement cannot be processed.

User Response: To add more containers to a system managed table space, drop and recreate the table space with more containers, ensuring that each container is of the same size and less than the container size limit, or change to a DMS table space.

sqlcode: -281

sqlstate: 42921

SQL0282N Table space "<tablespace-name>" cannot be dropped because at least one of the tables in it, "<table-name>", has one or more of its parts in another table space.

Explanation: A table in the specified table space does not contain all of its parts in that table space. If more than one table spaces are specified, then a table in one of the specified table spaces does not contain all of its parts in the list. The base table, indexes, or long data may be in another table space, so dropping the table space(s) will not completely drop the table. This would leave the table in an inconsistent state and therefore the table space(s) cannot be dropped.

User Response: Ensure that all objects contained in table space "<tablespace-name>" contain all their parts in this table space before attempting to drop it, or include those table spaces containing the parts in the list to be dropped.

This may require dropping the table "<table-name>" before dropping the table space.

sqlcode: -282

sqlstate: 55024

SQL0283N Temporary table space "<tablespace-name>" cannot be dropped because it is the only temporary table space with a "<page-size>" page size in the database.

Explanation: A database must contain at least one temporary table space with the same page size as the page size of the catalog tablespace. Dropping table space "<tablespace-name>" would remove the last temporary tablespace with a "<page-size>" page size from the database.

User Response: Ensure there will be another temporary table space with a "<page-size>" page size in the database before attempting to drop this table space.

sqlcode: -283

sqlstate: 55026

SQL0284N Table space "<tablespace-name>" following the clause "<clause>" cannot be a "<tablespace-type>" table space.

Explanation: The CREATE TABLE statement specified a table space named "<tablespace-name>" following the clause "<clause>" that is not a valid type of table space for this clause.

This can occur in the following situations:

- "<tablespace-name>" was specified on the IN clause and the table space is not a REGULAR table space.
- "<tablespace-name>" was specified on the LONG IN clause and the table space is not a LONG, managed by database table space.
- "<tablespace-name>" was specified on the INDEX IN clause and the table space is not a REGULAR, managed by database table space.

User Response: Correct the CREATE TABLE statement to specify a table space with the correct type for the "<clause>" clause.

sqlcode: -284

sqlstate: 42838

SQL0285N The indexes and/or long columns for table "<table-name>" cannot be assigned to separate table spaces because the primary table space "<tablespace-name>" is a system managed table space.

Explanation: If the primary table space is a system managed table space, all table parts must be contained in that table space. A table can have parts in separate table spaces only if the primary table space, index table space and long table space are database managed table spaces.

User Response: Either specify a database managed table space for the primary table space, or do not assign the table parts to another table space.

sqlcode: -285

sqlstate: 42839

SQL0286N A default table space could not be found with a pagesize of at least "<pagesize>" that authorization ID "<user-name>" is authorized to use.

Explanation: The CREATE TABLE statement did not specify a table space.

A table space having sufficient page size (at least "<pagesize>")

- with the name IBMDEFAULTGROUP, or
- defined by the user identified by "<user-name>", or
- with the name USERSPACE1

does not exist in the database. These are the valid defaults. Sufficient page size of a table is determined by either the byte count of the row or the number of columns.

User Response: Specify a valid table space name in the CREATE TABLE statement or ensure that a valid default table space exists in the database.

sqlcode: -286

sqlstate: 42727

SQL0287N SYSCATSPACE cannot be used for user objects.

Explanation: The CREATE TABLE statement specified a table space named SYSCATSPACE which is reserved for catalog tables.

User Response: Specify a different table space name.

sqlcode: -287

sqlstate: 42838

SQL0288N A long table space cannot be defined using MANAGED BY SYSTEM.

Explanation: The table space being defined is for use with large objects and long strings. These can only be stored in table spaces that are defined in database managed space. Thus a long table space cannot be defined to use system managed space.

User Response: Remove the keyword LONG or change to MANAGED BY DATABASE in the CREATE TABLESPACE statement.

sqlcode: -288

sqlstate: 42613

SQL0289N Unable to allocate new pages in table space "<tablespace-name>".

Explanation: One of the following conditions is true:

1. One of the containers assigned to this SMS table space has reached the maximum file size. This is the likely cause of the error.
2. All the containers assigned to this DMS table space are full. This is the likely cause of the error.
3. The table space object table for this DMS table space is full.
4. A rebalance is in progress, but has not progressed far enough to enable the newly added space to be used.
5. A redirected restore is being done to containers that are too small.

6. A rollforward is being done following a redirected restore and all the containers assigned to this tablespace are full.
7. A rollforward skipping add containers is being done and all the containers assigned to this tablespace are full.

Details can be found in the system error log and/or the database manager error log.

User Response: Perform the action corresponding to the cause of the error:

1. either switch to a DMS TABLESPACE or recreate the SMS TABLESPACE with more directories (PATHs) such that: (number of directories) $\geq$ (max tablesize / maxfilesize). Note that maximum file size is operating system dependent.
2. add new container(s) to the DMS table space and try the operation again, after the rebalancer has made the new pages available for use.
3. drop unnecessary tables from this DMS table space.
4. wait for the rebalancer to make more progress.
5. perform the redirected restore again to larger containers.
6. perform the redirected restore again to larger containers.
7. perform the rollforward again allowing add containers, or perform a redirected restore to larger containers.

sqlcode: -289

sqlstate: 57011

SQL0290N Table space access is not allowed.

Explanation: A process attempted to access a table space which is in an invalid state for which the intended access is not allowed.

- If the table space is in a quiesced state, only processes which also hold the table space in a quiesced state are allowed access to the table space.

- If the table space is in any other state, only the process which is performing the action specified is allowed access to the table space.
- A temporary table space cannot be dropped which contains active temporary tables.
- The SET CONTAINER api cannot be used to set the container list unless the table space is in a "restore pending" state.

Details can be found in the system error log and/or the database manager error log.

User Response: Possible actions include:

- If the table space is in a quiesced state, attempt to acquire a quiesced share or quiesced update state on the table space. Or, attempt to quiesce reset the table space.
- If the table space is in any other state, wait until the table space has returned to normal state before attempting to access the table space.

compact.

Refer to the systems administration guide for further information about the table space states.

sqlcode: -290

sqlstate: 55039

SQL0291N State transition not allowed on table space.

Explanation: An attempt was made to change the state of a table space. Either the new state is not compatible with the current state of the table space, or an attempt was made to turn off a particular state and the table space was not in that state.

Details can be found in the system error log and/or the database manager error log.

User Response: Table space states change when a backup is taken, the load completes, the rollforward completes, etc., depending on the current state of the table spaces. Refer to the systems administration guide for further information about the table space states.

sqlcode: -291

sqlstate: 55039

SQL0292N An internal database file could not be created.

Explanation: An internal database file could not be created. Details can be found in the system error log and/or the database manager error log.

User Response: Check that the directory containing the file is accessible (e.g. mounted) and writeable by the database instance owner.

sqlcode: -292

sqlstate: 57047

SQL0293N Error accessing a table space container.

Explanation: This error may be caused by one of the following conditions:

- A container (directory, file or raw device) was not found.
- A container is not tagged as being owned by the proper table space.
- A container tag is corrupt.

This error can be returned during database startup and during the processing of the ALTER TABLESPACE SQL statement.

Details can be found in the system error log and/or the database manager error log.

User Response: Try the following actions:

1. Check that the directory, file, or device exists and that the file system is mounted (if it is on a separate file system). Containers must be readable and writable by the database instance owner.
2. If you have a recent backup, try restoring the table space or database. If that fails because of the bad container and the container is not a DEVICE type, try manually removing the container first.

If the error was returned from the processing of an ALTER TABLESPACE SQL statement with the

SWITCH ONLINE option, then re-issue the statement after correcting the problem as described above.

If the error persists, call your IBM service representative.

sqlcode: -293

sqlstate: 57048

SQL0294N The container is already in use.

Explanation: Table space containers may not be shared. The possible causes of this error include the following.

- A CREATE TABLESPACE or ALTER TABLESPACE statement included a container that is already in use by another table space.
- A CREATE TABLESPACE or ALTER TABLESPACE statement included a container from a table space that has been dropped but the drop statement has not been committed.
- An ALTER NODEGROUP statement used to add a node used the containers of a LIKE node that is on the same physical node. These containers would therefore already be in use.
- A CREATE TABLESPACE or ALTER TABLESPACE statement is attempting to use the same container on more than one logical node on a single physical node. The same containers cannot be used for more than one node on the same physical node.
- An ADD NODE command or API used the containers from the temporary table spaces of a LIKE node that is on the same physical node. These containers would therefore already be in use.

Details can be found in the system error log and/or the database manager error log.

User Response: Ensure the containers are unique.

- For the CREATE or ALTER TABLESPACE statement, specify a different container for the table space.

- For the CREATE or ALTER TABLESPACE statement including a container from a dropped table space, try again after the drop statement is committed or specify a different container.
- For the ALTER NODEGROUP statement, reissue the statement using the WITHOUT TABLESPACES clause, and then use the ALTER TABLESPACE statement to create unique containers for the new node.
- For CREATE or ALTER TABLESPACE statements where the environment includes more than one logical node on a physical node, ensure that the same containers are not specified for such logical nodes.
- For an ADD NODE command or API, reissue the statement using the WITHOUT TABLESPACES clause, and then use the ALTER TABLESPACE statement to create unique containers at the new node for the temporary table spaces.

sqlcode: -294

sqlstate: 42730

SQL0295N The combined length for all container names for the table space is too long.

Explanation: The total space required to store the list of containers exceeds the space allotted for this table space in the table space file.

Details can be found in the system error log and/or the database manager error log.

User Response: Try one or more of the following:

- Use symbolic links, mounted file systems, etc. to shorten the new container names.
- Back up the table space and then use the database administration utility to reduce the number and/or name lengths of the containers. Restore the table space to the new containers.

sqlcode: -295

sqlstate: 54034

SQL0296N Table space limit exceeded.

Explanation: This database contains the maximum number of table spaces. No more can be created.

Details can be found in the system error log and/or the database manager error log.

User Response: Delete table spaces that are not being used any more. Combine small table spaces by moving all data into one of them and deleting the other.

sqlcode: -296

sqlstate: 54035

SQL0297N Pathname for container is too long.

Explanation: The full path specifying the container name exceeds the maximum length allowed. If the container was specified as a path relative to the database directory, the concatenation of these two values must not exceed the maximum length.

Details can be found in the system error log and/or the database manager error log.

User Response: Shorten the path length.

sqlcode: -297

sqlstate: 54036

SQL0298N Bad container path.

Explanation: The container path violates one of the following requirements:

- Container paths must be valid fully-qualified absolute paths or valid relative paths. The latter are interpreted relative to the database directory.
- The path must be read/write accessible to the instance id (check file permissions on UNIX-based systems).
- Containers must be of the type specified in the command (directory, file or device).

- Containers (directories) in system managed table spaces must be empty when designated as containers and must not be nested underneath other containers.
- The containers for one database must not be located underneath the directory of another database, and they may not be underneath any directory that appears to be for another database. This rules out any directory of the form SQLnnnnn, where 'n' is any digit.
- The container must be within the file size limit for the operating system.
- Containers (files) for dropped database managed table spaces can only be reused as containers (directories) for system managed table spaces after all agents terminate and vice versa.
- During a redirected restore, an SMS container was specified for a DMS table space or a DMS container was specified for an SMS table space.

This message will also be returned if any other unexpected error occurred which prevents DB2 from accessing the container.

Details can be found in the system error log and/or the database manager error log.

User Response: Specify another container location or change the container to make it acceptable to DB2 (such as changing file permissions) and try again.

sqlcode: -298

sqlstate: 428B2

SQL0299N Container is already assigned to the table space.

Explanation: The container that you are attempting to add has already been assigned to the table space.

Details can be found in the system error log and/or the database manager error log.

User Response: Choose another container and try again.

sqlcode: -299

sqlstate: 42731

SQL0300 - SQL0399

SQL0301N The value of a host variable in the EXECUTE or OPEN statement cannot be used because of its data type.

Explanation: A host variable could not be used as specified in the statement because its data type is incompatible with the intended use of its value.

This error can occur as a result of specifying an incorrect host variable or an incorrect SQLTYPE value in a SQLDA on an EXECUTE or OPEN statement.

The statement cannot be processed.

User Response: Verify that the data types of all host variables in the statement are compatible with the manner in which they are used.

sqlcode: -301

sqlstate: 07006

SQL0302N The value of a host variable in the EXECUTE or OPEN statement is too large for its corresponding use.

Explanation: The value of an input host variable was found to be too large for its use in the SELECT, VALUES, or prepared statement. One of the following occurred:

- The corresponding host variable or parameter marker used in the SQL statement is defined as string, but the input host variable contains a string that is too long.
- The corresponding host variable or parameter marker used in the SQL statement is defined as numeric, but the input host variable contains a numeric value that is too large.
- The terminating NUL character is missing from the C language NUL-terminated character string host variable.

- Federated system users: in a pass-through session, a data source-specific restriction might have been violated.

This error occurs as a result of specifying either an incorrect host variable or an incorrect SQLLEN value in an SQLDA on an EXECUTE or OPEN statement.

The statement cannot be processed.

User Response: Ensure that the input host variable value is the correct type and length. If the input host variables supply values to parameter markers, match values with the implied data type and length of the parameter marker.

Federated system users: for a pass-through session, determine what data source is causing the error (see the problem determination guide for procedures to follow to identify the failing data source). Examine the SQL dialect for that data source to determine which specific restriction has been violated, and adjust the failing statement as needed.

sqlcode: -302

sqlstate: 22001, 22003

SQL0303N **A value cannot be assigned to a host variable in the SELECT, VALUES, or FETCH statement because the data types are not compatible.**

Explanation: An imbedded SELECT or VALUES statement selects into a host variable, but the data type of the variable is not compatible with the data type of the corresponding SELECT-list or VALUES-list element. Both must be numeric, character, or graphic. For example, if the data type of the column is date or time, the data type of the variable must be character with an appropriate minimum length.

The statement cannot be processed.

User Response: Verify that the table definitions are current and that the host variable has the correct data type.

sqlcode: -303

sqlstate: 42806

SQL0304N **A value cannot be assigned to a host variable because the value is not within the range of the host variable's data type.**

Explanation: A FETCH, VALUES, or SELECT into a host variable list failed because the host variable was not large enough to hold the retrieved value.

The statement cannot be processed. No data was retrieved.

User Response: Verify that table definitions are current and that the host variable has the correct data type. For the ranges of SQL data types, refer to the *SQL Reference*.

Federated system users: for the ranges of data types that are returned from a data source, refer to the documentation for that data source.

sqlcode: -304

sqlstate: 22001, 22003

SQL0305N **The NULL value cannot be assigned to a host variable in the SELECT or FETCH statement because no indicator variable is specified.**

Explanation: A FETCH or embedded SELECT or VALUES operation resulted in the retrieval of a NULL value to be inserted into a host variable for which no indicator variable was provided. An indicator variable must be supplied if a column can return a NULL value.

The statement cannot be processed. No data was retrieved.

User Response: Examine the definition of the FETCH or SELECT object table or the elements of the VALUES list. Correct the program to provide indicator variables for all host variables where NULL values from those columns can be retrieved.

sqlcode: -305

sqlstate: 22002

SQL0306N The host variable "<name>" is undefined.

Explanation: The host variable "<name>" is not declared in any DECLARE SECTION.

The statement cannot be processed.

User Response: Ensure that the host variable is declared and the name spelled correctly.

SQL0307N The host variable "<name>" is already defined.

Explanation: The host variable "<name>" has already been declared in a DECLARE SECTION.

The definition is ignored. The previous definition is used.

User Response: Ensure that the host variable name is spelled correctly and the name is defined only once for each program.

SQL0308N The limit on the number of host variables has been reached.

Explanation: The limit on the number of host variables is dependent on how many will fit in the HOST_VARS column of SYSPLAN. This limit has been reached.

The remaining variable declarations are ignored.

User Response: Either simplify the program, split the program into smaller, separate programs, or do both.

SQL0309N The value of a host variable in the OPEN statement is NULL, but its corresponding use cannot be NULL.

Explanation: The value of an input host variable was found to be NULL but the corresponding use in the SELECT, VALUES, or prepared statement did not specify an indicator variable.

The statement cannot be processed.

User Response: Ensure you need a USING clause. Otherwise, ensure an indicator variable is specified only if required.

sqlcode: -309

sqlstate: 07002

SQL0310N SQL statement contains too many host variables.

Explanation: The maximum number of host variables was exceeded in the statement.

The statement cannot be processed.

User Response: Ensure the statement has fewer host variables or is less complex.

SQL0311N The length of string host variable number "<var-number>" is negative or greater than the maximum.

Explanation: When evaluated, the length specification for the string host variable, whose entry in the SQLDA is indicated by <var-number> (based at 1), was negative or greater than the maximum defined for that host variable.

The statement cannot be processed.

User Response: Correct the program to ensure that the lengths of all string host variables are not negative or that they are not greater than the maximum allowed length.

sqlcode: -311

sqlstate: 22501

SQL0312N The host variable "<host-name>" is used in a dynamic SQL statement, a view definition, or a trigger definition.

Explanation: The host variable "<host-name>" appears in the SQL statement, but host variables are not allowed in dynamic SQL statements, in the SELECT statement of a view definition, or in the triggered action of a trigger definition.

The statement cannot be processed.

User Response: Use parameter markers (?) instead of host variables for dynamic SQL statements. Do not use host variables and parameter markers in view or trigger definitions.

sqlcode: -312

sqlstate: 42618

SQL0313N The number of host variables in the EXECUTE or OPEN statement is not equal to the number of input values required.

Explanation: The number of host variables specified in the EXECUTE or OPEN statement is not the same as the number of host variables or parameter markers (?) appearing in the SQL statement.

The statement cannot be processed.

User Response: Correct the application program so the number of host variables specified in the EXECUTE or OPEN statement and the number of host variables or parameter markers in the SQL statement are the same.

sqlcode: -313

sqlstate: 07001, 07004

SQL0314N The host variable "<name>" is incorrectly declared.

Explanation: The host variable "<name>" is not declared correctly for one of the following reasons:

- The type specified is not one that is supported.
- The length specification is 0, negative, or too large.
- An initializer is used.
- An incorrect syntax is specified.

The variable remains undefined.

User Response: Ensure that you correctly specify only the declarations the database manager supports.

SQL0315N The host variable is incorrectly declared.

Explanation: The host variable is not declared correctly for one of the following reasons:

- The type specified is not one that is supported.
- The length specification is 0, negative or too large.
- An incorrect syntax is specified.

The variable remains undefined.

User Response: Ensure that you correctly specify only the declarations the database manager supports.

SQL0317N No END DECLARE SECTION was found after a BEGIN DECLARE SECTION.

Explanation: The end of input was reached during processing of a DECLARE SECTION.

Precompilation is terminated.

User Response: Add an END DECLARE SECTION statement to end a DECLARE SECTION.

SQL0318N An END DECLARE SECTION was found without a previous BEGIN DECLARE SECTION.

Explanation: An END DECLARE SECTION statement was found, but there was no previous BEGIN DECLARE SECTION.

The statement cannot be processed.

User Response: Enter a BEGIN DECLARE SECTION before an END DECLARE SECTION.

SQL0324N The "<usage>" variable "<name>" is the wrong type.

Explanation: Either the INDICATOR variable "<name>" is not a small integer or the STATEMENT variable "<name>" is not a character data type.

The statement cannot be processed.

User Response: Ensure that the variable is the correct type and is specified correctly.

SQL0332N There is no available conversion for the source code page "<code page>" to the target code page "<code page>". Reason code "<reason-code>".

Explanation: No conversion of data is supported from the source code page to the target code page. This error can occur under the following conditions:

- An error has occurred executing an SQL statement. The data cannot be processed by the database manager.
- An error has occurred when trying to import or export a WSF or an IXF file. The import or export will fail.
- Federated system users: the data source does not support the specified code page conversion.
- DB2 Connect users: both "source code page" and "target code page" may refer to a CCSID on the host or AS/400 system.

The reason codes are as follows:

1	source and target code page combination is not supported by the database manager.
2	source and target code page combination is either not supported by the database manager or by the operating system character conversion utility on the client node.
3	source and target code page combination is either not supported by the database manager or by the operating system character conversion utility on the server node.

User Response: Possible solutions include:

- Verify that data conversion between the source and target code page is supported by the database manager. For database manager code page support, check the *Quick Beginnings*. If

DB2 Connect is being used, check the *DB2 Connect Quick Beginnings*.

- Data conversion for some code page combinations may be supported through database manager install options, depending on the language group of the source or target code page. Ensure that the appropriate ones are installed and accessible to the database manager and the client application, as indicated by the reason code returned. For a list of install options, consult the *Quick Beginnings* or the *DB2 Connect Quick Beginnings*.
- Data conversion for some code page combinations may be supported by the database manager through an operating system-provided character conversion utility, depending on the language group of the source or target code page. Check your operating system documentation for a list of supported conversions and ensure that the appropriate ones are installed and accessible to the database manager and the client application, as indicated by the reason code returned. For a list of operating system conversion utilities used, consult the *Quick Beginnings* or the *DB2 Connect Quick Beginnings*.
- Change the unsupported code page(s) to one of the documented pairs.

AS/400 users should be aware that AS/400 CCSID 65535 is not supported. AS/400 data encoded using CCSID 65535 must be converted to a supported CCSID before it can be accessed using DB2 Connect.

Federated system users: for data source code page support, see the *Installation and Configuration Supplement*.

sqlcode: -332

sqlstate: 57017

SQL0334N **Overflow occurred while performing conversion from codepage "<source>" to codepage "<target>". The maximum size of the target area was "<max-len>". The source string length was "<source-len>" and its hexadecimal representation was "<string>".**

Explanation: During the execution of the SQL statement, a code page conversion operation has resulted in a string that is longer than the maximum size of the target object.

User Response: Modify the data to avoid the overflow condition, depending on the circumstances, by:

- decreasing the length of the source string or increasing the size of the target object (please refer to the note below),
- altering the operation, or,
- ensuring that the application codepage and the database codepage are the same. This eliminates the need for codepage conversions for most connections.

Note: Automatic promotion of character or graphic string data types will not occur as part of character conversion. If the resultant string length exceeds the maximum length of the data type of the source string then an overflow has occurred. To correct this situation either change the data type of the source string or use data type casting to allow for an increase in the string length due to conversion.

sqlcode: -334

sqlstate: 22524

SQL0338N **An ON clause associated with a JOIN operator is not valid.**

Explanation: An ON clause associated with a JOIN operator is not valid for one of the following reasons.

- The join condition cannot include any subqueries.
- Column references in an ON clause must only reference columns of tables that are in the scope of the ON clause (included in the same joined-table clause as the ON clause).
- Scalar fullselects are not allowed in the expressions of an ON clause.
- A function referenced in an ON clause of a full outer join must be deterministic and have no external action.
- A dereference operation (->) cannot be used.

The statement cannot be processed.

User Response: Correct the ON clause to reference appropriate columns or delete any subqueries or scalar fullselects.

If using full outer join ensure that all functions in the ON clause are deterministic and have no external action.

sqlcode: -338

sqlstate: 42972

SQL0340N **The common table expression "<name>" has the same identifier as another occurrence of a common table expression definition within the same statement.**

Explanation: The common table expression name "<name>" is used in the definition of more than one common table expressions in the statement. The name used to describe a common table expression must be unique within the same statement.

The statement cannot be processed.

User Response: Change the name of one of the common table expressions.

sqlcode: -340

sqlstate: 42726

SQL0341N A cyclic reference exists between the common table expressions "<name1>" and "<name2>".

Explanation: The common table expression "<name1>" refers to "<name2>" in a FROM clause within its fullselect and "<name2>" refers to "<name1>" in a FROM clause within its fullselects. Such forms of cyclic references are not allowed.

The statement cannot be processed.

User Response: Remove the cyclic reference from one of the common table expressions.

sqlcode: -341

sqlstate: 42835

SQL0342N The common table expression "<name>" cannot use SELECT DISTINCT and must use UNION ALL because it is recursive.

Explanation: There are two possible explanations:

- A fullselect within the common table expression "<name>" cannot start with SELECT DISTINCT because the common table expression is recursive.
- A fullselect within the common table expression "<name>" specified UNION instead of UNION ALL as required for recursive common table expressions.

The statement cannot be processed.

User Response: Remove the keyword DISTINCT from the common table expression, add the keyword ALL following UNION, or remove the recursive reference within the common table expression.

sqlcode: -342

sqlstate: 42925

SQL0343N The column names are required for the recursive common table expression "<name>".

Explanation: The recursive common table expression "<name>" must include the specification of the column names following the identifier of the common table expression.

The statement cannot be processed.

User Response: Add column names following the identifier of the common table expression.

sqlcode: -343

sqlstate: 42908

SQL0344N The recursive common table expression "<name>" has mismatched data types, lengths or code pages for column "<column-name>".

Explanation: The recursive common table expression "<name>" has a column "<column-name>" that is referred to in the iterative fullselect of the common table expression. The data type, length and code page are set based on the initialization fullselect for this column. The result of the expression for the column "<column-name>" in the iterative fullselect has a different data type, length or code page that may result in failure to assign the value for the column.

The statement cannot be processed.

User Response: Correct the column used in the fullselects of the recursive common table expression so that the initialization column matches the iterative columns.

sqlcode: -344

sqlstate: 42825

SQL0345N **The fullselect of the recursive common table expression “<name>” must be the UNION of two or more fullselects and cannot include column functions, GROUP BY clause, HAVING clause, or an explicit join including an ON clause.**

Explanation: The common table expression “<name>” includes a reference to itself and therefore:

- must be the union of two or more fullselects
- cannot include a GROUP BY clause
- cannot have column functions
- cannot include a HAVING clause
- and cannot include an explicit join with an ON clause.

The statement cannot be processed.

User Response: Change the common table expression by:

- making it a union of two or more fullselects
- removing any column functions, GROUP BY clause, HAVING clause, or explicit JOIN including an ON clause.
- removing the recursive reference.

sqlcode: -345

sqlstate: 42836

SQL0346N **An invalid reference to common table expression “<name>” occurs in the first fullselect, as a second occurrence in the same FROM clause, or in the FROM clause of a subquery.**

Explanation: The common table expression “<name>” includes an invalid reference to itself as described by one of the following.

- A recursive reference in the first fullselect before the UNION ALL set operator. The first fullselect must be an initialization and cannot include a recursive reference.

- More than one reference to the same common table expression in the same FROM clause. Such references are not permitted in recursive common table expression.
- A recursive reference in the FROM clause of a subquery. A recursion cycle cannot be defined using a subquery.

The statement cannot be processed.

User Response: Change one of the following:

- the fullselect prior to the union operator so that it does not include a recursive reference
- the FROM clause containing more than one reference to the same common table expression to just one reference
- the FROM clause of the subquery so that it does not reference the common table expression.

sqlcode: -346

sqlstate: 42836

SQL0347W **The recursive common table expression “<name>” may contain an infinite loop.**

Explanation: The recursive common table expression called “<name>” may not complete. This warning is based on not finding specific syntax as part of the iterative portion of the recursive common table expression. The expected syntax includes:

- incrementing an INTEGER column in the iterative select list by 1.
- a predicate in the where clause of the iterative portion of the form “counter_col < constant” or “counter_col < :hostvar”.

The absence of this syntax in the recursive common table expression may result in an infinite loop. The data or some other characteristic of the recursive common table expression may allow the successful completion of the statement anyway.

User Response: To prevent an infinite loop, include the expected syntax as described.

sqlcode: +347

sqlstate: 01605

SQL0350N **LOB, DATALINK, or structured type column “<column-name>” cannot be used in an index, a key, or a constraint.**

Explanation: Even in cases where it would not violate the maximum size of an index, key, or constraint, a LOB column, DATALINK column, or structured type column cannot be used in an index, key or constraint. This includes a distinct type column based on a LOB or DATALINK.

The statement cannot be processed.

User Response: Remove the LOB, DATALINK or structured type column from the specification of the index, key, or constraint. An index defined on a structured type column may be defined using an index extension.

sqlcode: -350

sqlstate: 42962

SQL0351N **An unsupported SQLTYPE was encountered in position “<position-number>” of the output SQLDA (select list).**

Explanation: The element of the SQLDA at position “<position-number>” is for a data type that either the application requestor or the application server does not support. If the application is not using the SQLDA directly, “<position-number>” could represent the position of an element in the select list or a parameter of a CALL statement.

The statement cannot be processed.

User Response: Change the statement to exclude the unsupported data type. For a select statement, remove the names of any columns in the select-list with the unsupported data type or use a cast in the query to cast the column to a supported data type.

sqlcode: -351

sqlstate: 56084

SQL0352N **An unsupported SQLTYPE was encountered in position “<position-number>” of the input list (SQLDA).**

Explanation: The element of the SQLDA at position “<position-number>” is for a data type that either the application requestor or the application server does not support. If the application is not using the SQLDA directly, “<position-number>” could represent the position of an input host variable, parameter marker, or a parameter of a CALL statement.

The statement cannot be processed.

User Response: Change the statement to exclude the unsupported data type.

sqlcode: -352

sqlstate: 56084

SQL0355N **The column “<column-name>”, as defined, is too large to be logged.**

Explanation: Large Object data types (BLOB, CLOB, and DBCLOB) may be created in sizes up to 2 gigabytes (2147483647 bytes). Logging of data values is allowed only upon objects which are less than or equal to than 1 gigabyte (1073741823 bytes) in size. Therefore, large objects greater than 1 gigabyte in size can not be logged.

User Response: Either explicitly indicate logging of data is not required, by using the NOT LOGGED phrase during column creation, or reduce the maximum size of the column to 1 gigabyte or below.

sqlcode: -355

sqlstate: 42993

SQL0357N **The DB2 Data Links Manager “<name>” is not currently available. Reason code = “<reason-code>”.**

Explanation:

The statement requires processing on the DB2 Data Links Manager “<name>”. The DB2 Data

Links Manager is not currently available as indicated by the reason code.

- 01** The DB2 Data Links Manager is not available.
- 02** The database server, instance, or database from which the operation was attempted is not registered with the appropriate DB2 Data Links Manager.
- 03** Crash recovery is pending or in progress on the DB2 Data Links Manager.
- 04** The DB2 Data Links Manager is registered with the database but is an unknown server.
- 05** An error occurred while communicating with the DB2 Data Links Manager.

The statement cannot be processed.

User Response: The action depends on the reason code as follows.

- 01** The DB2 Data Links Manager or a communication link may be down. Wait a while and try again, or check with the DB2 Data Links Manager administrator. If the problem persists, disconnect the application from the database, and retry after connecting again.
- 02** Register the database server, instance, or database with the DB2 Data Links Manager.
- 03** Wait for the crash recovery to complete on the DB2 Data Links Manager. If the problem persists, check if the registration mentioned in the text for reason code 02 above has been done. This might be one of the reasons for the crash recovery not completing successfully. Refer to the Administration Guide for information on crash recovery for DB2 Data Links Managers.
- 04** Check that the DB2 Data Links Manager configured to the database is available on the network.
- 05** Check that the DB2 Data Links Manager

and the communication link are up. If the problem persists, disconnect the application from the database, and retry after connecting again.

sqlcode: -0357

sqlstate: 57050

SQL0358N Unable to access file referenced by a DATALINK value. Reason code = "<reason-code>".

Explanation: A DATALINK value could not be assigned. The possible reason codes are as follows:

- 21** DATALINK value data location format is not valid.
- 22** DATALINK value DB2 Data Links manager is not registered with the database.
- 23** DATALINK linktype value is not valid.
- 24** DATALINK value referenced file cannot be found by a DB2 Data Links Manager.
- 25** DATALINK value referenced file is already linked to a database.
- 26** DATALINK value referenced file cannot be accessed for linking. It may be a directory, a symbolic link or a file with permission bit for set user ID (SUID) on or set group ID (SGID) on.
- 27** DATALINK value data location or comment is too long.
- 28** Existing registry on the DB2 Data Links Manager does not allow this file to be linked (No matching prefix on DLFM).
- 29** The DB2 Data Links Manager does not authorize the DB2 user to link this file.
- 30** A link is already in progress for the file by another application.
- 31** File copy by the DB2 Data Links Manager is not complete for the file to be unlinked. The statement cannot be processed.

User Response: The action is based on the reason code as follows.

- 21 Correct the data location format. If hostname is not specified, DB2 can use the local hostname as default only if the database manager configuration parameter Datalinks is set to YES.
- 22 Ensure that the correct DB2 Data Links Manager is specified and if so have it registered to the database. Registered DB2 Data Links Managers are ignored unless the database manager configuration parameter Datalinks is set to YES.
- 23 Correct the linktype value.
- 24 Check that the correct file is specified and that the file exists.
- 25 Either unlink the existing reference to the file or do not specify the file in this statement.
- 26 Linking of directories is not allowed. Use the actual file name, not the symbolic link. If SUID or SGID is on, this file cannot be linked using a DATALINK type.
- 27 Reduce the length of the data location value or the comment.
- 28 Contact the DB2 Data Links Manager administrator to add the registration necessary to link this file.
- 29 Contact the DB2 Data Links Manager administrator to get the necessary authorization.
- 30 Do not link this file or retry later.
- 31 Allow some time for the file copy to complete and retry later.

sqlcode: -0358

sqlstate: 428D1

SQL0360W DATALINK values may not be valid because the table “<table-name>” is in Datalink Reconcile Pending (DRP) or Datalink Reconcile Not Possible (DRNP) state.

Explanation: DATALINK values in table “<table-name>” may not be valid because the table is either in Datalink Reconcile Pending (DRP) or Datalink Reconcile Not Possible (DRNP) state. While in either of these states, control of the files on the DB2 Data Links Manager is not guaranteed.

Statement processing continues.

User Response: Refer to the Administration Guide for information on Datalink Reconcile Pending (DRP) and Datalink Reconcile Not Possible (DRNP) states to take appropriate action.

sqlcode: +360

sqlstate: 01627

SQL0368N The DB2 Data Links Manager “<name>” is not registered to the database.

Explanation: A DATALINK value already exists that references the DB2 Data Links Manager “<name>” that is not registered to the database.

The statement cannot be processed.

User Response: Contact the database administrator to determine why the DB2 Data Links Manager is no longer registered.

sqlcode: -0368

sqlstate: 55022

SQL0370N The parameter in position “<n>” must be named in the CREATE FUNCTION statement for LANGUAGE SQL function “<name>”.

Explanation: All parameters for functions defined with LANGUAGE SQL must have a *parameter-name* for each parameter.

The statement cannot be processed.

User Response: Include a parameter name for each parameter of the function.

sqlcode: -370

sqlstate: 42601

SQL0374N The "<clause>" clause has not been specified in the CREATE FUNCTION statement for LANGUAGE SQL function "<function name>" but an examination of the function body reveals that it should be specified.

Explanation: The following situations may be the cause of this error.

NOT DETERMINISTIC must be specified if either of the following conditions apply within the body of the function:

- a function that has the NOT DETERMINISTIC property is called,
- a special register is accessed.

READS SQL DATA must be specified if the body of the function defined with LANGUAGE SQL contains a subselect or if it calls a function that can read sql data.

EXTERNAL ACTION must be specified if the body of the function defined with LANGUAGE SQL calls a function that has the EXTERNAL ACTION property.

The statement cannot be processed.

User Response: Either specify the clause or change the function body.

sqlcode: -374

sqlstate: 428C2

SQL0388N In a CREATE CAST statement for function "<function-name>", either the source "<source data type name>" and target "<target-data-type-name>" are both built-in types or they are the same type.

Explanation: One of the data types must be a user-defined type. The source type and the target type cannot be the same data type.

The statement cannot be processed.

User Response: Change the data type of either the source or the target.

sqlcode: -388

sqlstate: 428DF

SQL0389N The specific function instance "<specific name>" identified in a CREATE CAST statement either has more than one parameter, has a parameter that does not match the source data type, or returns a data type that does not match the target.

Explanation: A cast function must

- have exactly one parameter,
- the data type of the parameter must be the same as the source data type,
- the result data type must be the same as the target data type.

The statement cannot be processed.

User Response: Either chose a different function instance, change the source data type, or change the target data type.

sqlcode: -389

sqlstate: 428DG

SQL0390N The function "<function-name>" resolved to specific function "<specific-name>" that is not valid in the context where it is used.

Explanation: A function resolved to a specific function that is not valid in the context where it is used. If "<specific-name>" is an empty string, then the function resolved to the built-in function identified by "<function-name>". Some of the possible situations include:

- the specific function is a table function where only a scalar or column function is expected (such as creating a sourced scalar function).
- the specific function is a scalar or column function where only a table function is expected (such as in the FROM clause of a query).

The statement cannot be processed.

User Response: Ensure that the correct function name and arguments are specified and that the current path includes the schema where the correct function is defined. You may need to change the function name, the current path (using SET CURRENT FUNCTION PATH or the FUNCPATH bind option), or change the context in which the function is used.

sqlcode: -390

sqlstate: 42887

SQL0391N Invalid use of the row based function "<function_name>".

Explanation: The statement uses a row based function "<function_name>" that cannot be used for one of the following reasons:

- The function is used in a GROUP BY or a HAVING clause but is not also included in the select list.
- The function cannot be used in this context because of the recursive nature of the statement.

- The function cannot be used in a check constraint.
- The function cannot be used in a view definition where the WITH CHECK OPTION clause is specified or any view dependent on such a view having the WITH CHECK OPTION clause specified.
- The function has an argument that does not resolve to a row of a base table. This would include the situation involving a result column of an outer join where NULL producing rows are possible.
- The function cannot be used on rows from a replicated summary table.

The statement cannot be processed.

User Response: Remove "<function-name>" from the context where it is not allowed.

sqlcode: -391

sqlstate: 42881

SQL0392N SQLDA provided for cursor "<cursor>" has been changed from the previous fetch.

Explanation: The application is running with **DB2 rules**, and has requested that LOB data be returned as a LOB in one FETCH statement, and as a locator in another FETCH statement. This is not permitted.

User Response: The statement cannot be executed.

Either do not use **DB2 rules**, or change the application to not change the data type code from LOB to locator (or the reverse) in the SQLDA between successive fetches.

sqlcode: -392

sqlstate: 42855

SQL0400 - SQL0499

SQL0401N The data types of the operands for the operation "<operator>" are not compatible.

Explanation: The operation "<operator>" appearing within the SQL statement has a mixture of numeric and nonnumeric operands, or the operation operands are not compatible.

Federated system users: this data type violation can be at the data source or at the federated server.

Some data sources do not provide the appropriate values for "<operator>". In these cases the message token will have the following format: "<data source>:UNKNOWN", indicating that the actual value for the specified data source is unknown.

The statement cannot be processed.

User Response: Check all operand data types to ensure that they are comparable and compatible with the statement usage.

If all the SQL statement operands are correct and accessing a view, check the data types of all the view operands.

Federated system users: if the reason is unknown, isolate the problem to the data source failing the request (see the *Problem Determination Guide* for procedures to follow to identify the failing data source) and examine the data type restrictions for that data source.

sqlcode: -401

sqlstate: 42818

SQL0402N The data type of an operand of an arithmetic function or operation "<operator>" is not numeric.

Explanation: A nonnumeric operand is specified for the arithmetic function or operator "<operator>".

The statement cannot be processed.

User Response: Correct the SQL statement syntax so all specified function or operator operands are numeric.

Federated system users: if the reason is unknown, isolate the problem to the data source failing the request (see the problem determination guide for procedures to follow to identify the failing data source) and examine the operators applied to that data source.

sqlcode: -402

sqlstate: 42819

SQL0403W The newly defined alias "<name>" resolved to the object "<name2>" which is currently undefined.

Explanation: The alias <name> has been defined upon:

- a table or view which currently is not defined in the database
- another alias which resolves to a table or view which is not defined in the database.

The object <name2> is the undefined object. This object must exist before any SQL statement (other than CREATE ALIAS) can successfully use the newly created alias. The specified alias <name> is created.

An inoperative view is considered to be undefined for the purposes of creating an alias.

User Response: Ensure that the undefined object <name2> is defined prior to using the newly created alias in an SQL statement (other than CREATE ALIAS).

sqlcode: +403

sqlstate: 01522

SQL0404N A string in the UPDATE or INSERT statement is too long for column "<name>".

Explanation: An INSERT or UPDATE statement specifies a value that is longer than the maximum-length string that can be stored in the column indicated.

The statement cannot be processed.

- NULL values cannot be inserted into that column.
- An update cannot set values in that column to NULL.
- A SET transition-variable statement in a trigger cannot set values in that column to NULL.
- The update or insert value was DEFAULT, but the object column was declared as NOT NULL without WITH DEFAULT in the table definition. Consequently:
 - A default value of NULL cannot be inserted into that column.
 - An update cannot set default values of NULL in that column.
 - A SET transition-variable statement in a trigger cannot set default values of NULL in that column.
- The column name list for the INSERT statement omits a column declared NOT NULL and without WITH DEFAULT in the table definition.
- The view for the INSERT statement omits a column declared NOT NULL and without WITH DEFAULT in the base table definition.

Federated system users: this situation can be detected by the federated server or by the data source. Some data sources do not provide the appropriate values for “<name>”. In these cases the message token will have the following format: “<data source>:UNKNOWN”, indicating that the actual value for the specified data source is unknown.

The statement cannot be processed.

Note: Under some circumstances, the token “<name>” may not be filled in (sqlerrmc field of the SQLCA not filled in).

User Response: Correct the SQL statement after examining the object table definition to determine which columns of the table have the NOT NULL attribute and do not have the WITH DEFAULT attribute.

Federated system users: if the reason is unknown, isolate the problem to the data source

failing the request (see the problem determination guide for procedures to follow to identify the failing data source) and examine the object definition for that data source. Remember that the defaults (NULL and NOT NULL) are not necessarily the same between data sources.

sqlcode: -407

sqlstate: 23502

SQL0408N **An UPDATE, INSERT, or SET transition-variable value is not compatible with the data type of its target column “<name>”.**

Explanation: The data type of the value to be inserted into or set in the column “<name>” by an INSERT, UPDATE, or SET transition-variable statement is incompatible with the declared data type of that column. Both must be:

- Numeric
- Character
- Graphic
- Dates or character
- Times or character
- Timestamps or character
- Datalinks
- The same distinct types
- Reference types where the target type of the value is a subtype of the target type of the column.

The statement cannot be processed.

User Response: Examine the current definition for the object table. Ensure the host variable or literal value assigned to the specified column is the proper data type.

sqlcode: -408

sqlstate: 42821

SQL0409N **The operand of a COUNT function is not valid.**

Explanation: As specified in the SQL statement, the operand of the COUNT function does not conform to the rules of SQL syntax. Only

COUNT(*) and COUNT(DISTINCT *column*) are allowed.

The statement cannot be processed.

User Response: Specify COUNT(*) or COUNT(DISTINCT *column*).

NOTE: This message is only applicable to versions of DB2 prior to Version 2.

sqlcode: -409

sqlstate: 42607

SQL0410N The floating point literal “<literal>” contains more than 30 characters.

Explanation: The specified floating point literal is more than 30 characters in length, excluding leading zeros. A floating point literal has a maximum length of 30 characters.

The statement cannot be processed.

User Response: Shorten the specified literal.

sqlcode: -410

sqlstate: 42820

SQL0412N The SELECT clause of a subquery specifies multiple columns.

Explanation: In the context of the SQL statement, the subquery can have only one column specified in its SELECT clause.

The statement cannot be processed.

User Response: Specify only one column in the SELECT clause of the subquery.

sqlcode: -412

sqlstate: 42823

SQL0413N Overflow occurred during numeric data type conversion.

Explanation: During processing of the SQL statement, an overflow condition arose when converting from one numeric type to another. Numeric conversion is performed according to the standard rules of SQL.

Federated system users: numeric conversion can occur at the federated server, at data sources, or both.

The statement cannot be processed. No data was retrieved, updated, or deleted.

User Response: Examine the syntax of the SQL statement to determine the cause of the error. If the problem is data-dependent, it may be necessary to examine the data processed at the time of the error.

Federated system users: if the reason is unknown, isolate the problem to the data source failing the request (see the problem determination guide for procedures to follow to identify the failing data source) and examine the data range restrictions for that data source.

sqlcode: -413

sqlstate: 22003

SQL0415N The data types of corresponding columns are not compatible in a fullselect that includes a set operator or in the multiple rows of a VALUES clause of an INSERT or fullselect.

Explanation: There are various statements where this error may occur.

- It may occur within a SELECT or VALUES statement that includes set operations (UNION, INTERSECT, or EXCEPT). The corresponding columns of the subselects or fullselects that make up the SELECT or VALUES statements are not compatible.
- It may occur within an INSERT statement that is inserting multiple rows. In this case, the corresponding columns of the rows specified in the VALUES clause are not compatible.
- It may occur within a SELECT or VALUES statement where the VALUES clause is used with multiple rows. In this case, the corresponding columns of the rows specified in the VALUES clause are not compatible.

The columns are incompatible for one of the following reasons:

- Both columns are not characters
- Both columns are not numbers
- Both columns are not dates
- Both columns are not times
- Both columns are not timestamps
- Both columns are not graphic
- Both columns are not the same user-defined distinct type.

If the data type of a column is character, date, time, or timestamp the corresponding column may be a character string constant.

The statement cannot be processed.

User Response: Correct the column names used in the SELECT statements or the expressions in the VALUES clause so that all corresponding columns are compatible types.

sqlcode: -415

sqlstate: 42825

SQL0416N You cannot specify a result column longer than 254 bytes in the SELECT or VALUES statements connected by a set operator other than UNION ALL.

Explanation: One of the SELECT or VALUES statements connected by a set operator specifies a result column that is longer than 254 bytes. VARCHAR or VARGRAPHIC result columns longer than 254 bytes can be used only with the UNION ALL set operator.

The statement cannot be processed.

User Response: Either use the UNION ALL operator instead of UNION, or remove the result columns longer than 254 bytes from the SELECT or VALUES statements.

sqlcode: -416

sqlstate: 42907

SQL0417N A statement string to be prepared contains parameter markers as the operands of the same operator.

Explanation: The statement string specified as the object of a PREPARE or EXECUTE IMMEDIATE contains a predicate or expression in which parameter markers have been used as operands of the same operator without a CAST specification. For example:

? > ?

The statement cannot be processed.

User Response: This syntax is not supported. Use a CAST specification to give at least one of the parameter markers a data type.

sqlcode: -417

sqlstate: 42609

SQL0418N A statement contains a use of a parameter marker that is not valid.

Explanation: Untyped parameter markers cannot be used:

- in a SELECT list
- as the sole argument of a datetime arithmetic operation
- in some cases as the sole argument of a scalar function

Parameter markers can never be used:

- in a statement that is not a prepared statement
- in the fullselect of a CREATE VIEW statement
- in the triggered action of a CREATE TRIGGER statement

The statement cannot be processed.

User Response: Correct the syntax of the statement. If untyped parameter markers are not allowed, use the CAST specification to give the parameter marker a data type.

sqlcode: -418

sqlstate: 42610

SQL0419N A decimal divide operation is not valid because the result would have a negative scale.

Explanation: A specified decimal division is not valid because it will result in a negative scale.

The formula used internally to calculate the scale of the result for decimal division is:

Scale of result = 31 - np + ns - ds

where np is the precision of the numerator, ns is the scale of the numerator, and ds is the scale of the denominator.

Federated system users: Decimal division can occur at the federated server, at data sources, or both. The specified decimal division results in an invalid scale for that data source.

The statement cannot be processed.

User Response: Examine and ensure the precision and scale of all columns that may participate in a decimal division. Note that an integer or small integer value may be converted to a decimal for this calculation.

Federated system users: if the reason is unknown, isolate the problem to the data source failing the request (see the problem determination guide for procedures to follow to identify the failing data source) and examine the data range restrictions for that data source.

sqlcode: -419

sqlstate: 42911

SQL0420N Invalid character found in a character string argument of the function "<function-name>".

Explanation: The function "<function-name>" has a character string argument that contains a character that is not valid in a numeric SQL constant. The function may have been called as a result of using the CAST specification with "<function-name>" as the target data type. The function or data type used in the SQL statement may be a synonym for "<function-name>".

If a decimal character is specified in the DECIMAL function then that is the character that must be used in place of the default decimal character.

User Response: Ensure that the character strings that are being converted to numeric types contain only characters that are valid in numeric SQL constants, using the decimal character, if specified.

sqlcode: -420

sqlstate: 22018

SQL0421N The operands of a set operator or a VALUES clause do not have the same number of columns.

Explanation: The operands of a set operator such as UNION, EXCEPT, or INTERSECT must have the same number of columns. The rows in a VALUES clause must have the same number of columns.

The statement cannot be processed.

User Response: Change the SQL statement so each operand, or each row of a VALUES clause, has exactly the same number of columns.

sqlcode: -421

sqlstate: 42826

SQL0423N LOB locator variable "<variable-position>" does not currently represent any value.

Explanation: A locator variable is in error. Either it has not had a LOB value assigned to it, or the locator associated with the variable has been freed.

If "<variable-position>" is provided, it gives the ordinal position of the variable in error in the set of variables specified. Depending on when the error is detected, the database manager may not be able to determine "<variable-position>".

Instead of an ordinal position, "<variable-position>" may have the value "function-name RETURNS", which means that the locator value returned from the user-defined

function identified by function-name is in error.

User Response: Correct the program so that the LOB locator variables used in the SQL statement have valid LOB values before the statement is executed. A LOB value can be assigned to a locator variable by means of a SELECT INTO statement, a VALUES INTO statement, or a FETCH statement.

sqlcode: -423

sqlstate: 0F001

SQL0426N Dynamic commit invalid for application execution environment.

Explanation: An application executing in a CONNECT TYPE 2 environment or Distributed Transaction Processing (DTP) environment such as CICS has attempted to execute an SQL dynamic COMMIT statement. The SQL dynamic COMMIT statement cannot be executed in this environment.

User Response:

- Use the commit statement provided by the DTP environment to perform the commit. For example, in a CICS environment this would be the CICS SYNCPOINT command.
- If this statement was executed within a stored procedure, remove the statement entirely.

sqlcode: -426

sqlstate: 2D528

SQL0427N Dynamic rollback invalid for application execution environment.

Explanation: An application executing in a CONNECT TYPE 2 environment or Distributed Transaction Processing (DTP) environment such as CICS has attempted to execute an SQL dynamic ROLLBACK statement. The SQL dynamic ROLLBACK statement cannot be executed in this environment.

User Response:

- Use the rollback statement provided by the DTP environment to perform the rollback. For example, in a CICS environment this would be the CICS SYNCPOINT ROLLBACK command.
- If this statement was executed within a stored procedure, remove the statement entirely.

sqlcode: -427

sqlstate: 2D529

SQL0428N DISCONNECT cannot be issued if a connection it is directed against has executed SQL within the unit of work.

Explanation: DISCONNECT will not be executed against a connection in the following cases:

- If SQL has been issued against the connection within the unit of work.
- If a WITH HOLD cursor is currently open for the connection.

Note that DISCONNECT ALL causes the DISCONNECT to be directed against all connections, so the request will fail if any of the connections violate the above restrictions.

User Response: Possible actions:

- Issue the DISCONNECT statement before any SQL statements have been issued to the database.
- COMMIT or ROLLBACK the unit of work before issuing the DISCONNECT.
- Close WITH HOLD cursors before committing a unit of work if a DISCONNECT is required for connections for which the cursors were open.

sqlcode: -428

sqlstate: 25501

SQL0429N The maximum number of concurrent LOB locators has been exceeded.

Explanation: A maximum of 32,000 concurrent LOB locators per unit of work, is supported by DB2.

User Response: Modify the program so that it requires fewer concurrent LOB locators and try again.

sqlcode: -429

sqlstate: 54028

SQL0430N User defined function “<function-name>” (specific name “<specific-name>”) has abnormally terminated.

Explanation: An abnormal termination has occurred while the named UDF was in control.

User Response: The UDF needs to be fixed. Contact the author of the UDF or your database administrator. Until it is fixed, the UDF should not be used.

sqlcode: -430

sqlstate: 38503

SQL0431N User defined function “<function-name>” (specific name “<specific-name>”) has been interrupted by the user.

Explanation: A user/client interrupt has occurred while the named UDF was in control.

User Response: This could indicate some problem in the UDF, such as an infinite loop or wait. If the problem persists, (i.e. the need to interrupt results in the same error condition), then contact the author of the UDF or your database administrator. Until the problem is fixed, the UDF should not be used.

sqlcode: -431

sqlstate: 38504

SQL0432N A parameter marker cannot have the user defined type name or reference target type name “<udt-name>”.

Explanation: A parameter marker in the statement has been determined as having the user-defined type “<udt-name>” or a reference type with the target type “<udt-name>” based on the context in which it is used. A parameter marker cannot have a user-defined type or reference type as its data type unless it is part of an assignment (VALUES clause of INSERT or SET clause of UPDATE) or it is being explicitly cast to a user-defined distinct data type or reference data type using the CAST specification.

The statement cannot be processed.

User Response: Use an explicit cast to the user-defined distinct data type or reference data type for the parameter marker. An alternative is to cast the columns that are user-defined distinct data types to their corresponding source data type or columns that are reference data types to their corresponding representation type.

sqlcode: -432

sqlstate: 42841

SQL0433N Value “<value>” is too long.

Explanation: The value “<value>” required truncation by a system (built-in) cast or adjustment function, which was called to transform the value in some way. The truncation is not allowed where this value is used.

The value being transformed is one of the following:

- an argument to a user defined function (UDF)
- an input to the SET clause of an UPDATE statement
- a value being INSERTed into a table
- an input to a cast or adjustment function in some other context.
- a recursively referenced column whose data type and length is determined by the initialization part of recursion and may grow in the iterative part of the recursion.

The statement has failed.

User Response: If “<value>” is a literal string in the SQL statement, it is too long for its intended use.

If “<value>” is not a literal string, examine the SQL statement to determine where the transformation is taking place. Either the input to the transformation is too long, or the target is too short.

Correct the problem and rerun the statement.

sqlcode: -433

sqlstate: 22001

SQL0434W An unsupported value for clause “<clause>” has been replaced by the value “<value>”.

Explanation: The value that was specified for clause “<clause>” is not supported and has been replaced with the identified supported value “<value>”.

User Response: No change is required if the selected value is acceptable. Otherwise, specify a value that is valid for “<clause>”.

sqlcode: +434

sqlstate: 01608

SQL0435N An invalid SQLSTATE “<sqlstate>” is specified in the function RAISE_ERROR.

Explanation: The SQLSTATE specified in the RAISE_ERROR function does not conform to the rules for an application defined SQLSTATE.

User Response: Correct the SQLSTATE specified in the function RAISE_ERROR. The SQLSTATE must be a character string containing exactly 5 characters. It must be of type CHAR defined with a length of 5, or type VARCHAR defined with a length of 5 or greater. The SQLSTATE value must follow the rules for application-defined SQLSTATES as follows:

- Each character must be from the set of digits ('0' through '9') or non-accented upper case letters ('A' through 'Z')

- The SQLSTATE class (first two characters) cannot be '00', '01', or '02' since these are not error classes.
- If the SQLSTATE class (first two characters) starts with the character '0' through '6' or 'A' through 'H', then the subclass (last three characters) must start with a character in the range 'I' through 'Z'
- If the SQLSTATE class (first two characters) starts with the character '7', '8', '9' or 'I' through 'Z', then the subclass (last three characters) can be any of '0' through '9' or 'A' through 'Z'.

sqlcode: -435

sqlstate: 428B3

SQL0436N The terminating NULL character is missing from the C language NULL-terminated character string host variable.

Explanation: The value of an input host variable code in the C programming language requires a NULL-terminator character at the end of the string.

The statement cannot be processed.

User Response: Ensure that the value of the input host variable is terminated by the NULL-terminator character.

sqlcode: -436

sqlstate: 22024

SQL0437W Performance of this complex query may be sub-optimal.
Reason code: “<reason-code>”.

Explanation: The statement may achieve sub-optimal performance since the complexity of the query requires resources that are not available or optimization boundary conditions were encountered. The following is a list of reason codes:

- 1 The join enumeration method was altered due to memory constraints

- 2 The join enumeration method was altered due to query complexity
- 3 Optimizer cost underflow
- 4 Optimizer cost overflow
- 5 Query optimization class was too low
- 6 Optimizer ignored an invalid statistic

The statement will be processed.

User Response: One or more of the following:

- Increase the size of the statement heap (stmtheap) in the database configuration file. (Reason code 1)
- Break the statement up into less complex SQL statements. (Reason codes 1,2,3,4)
- Ensure predicates do not over-specify the answer set (Reason code 3)
- Change the current query optimization class to a lower value (Reason codes 1,2,4)
- Issue Runstats for the tables involved in the query (Reason codes 3,4)
- Change the current query optimization class to a higher value (Reason code 5)
- Reissue RUNSTATS for both the tables involved in the query and their corresponding indexes, i.e. use the AND INDEXES ALL clause so that table and index statistics are consistent (Reason code 6)

sqlcode: +437

sqlstate: 01602

SQL0438N Application raised error with diagnostic text: “<text>”.

Explanation: This error occurred as a result of execution of the RAISE_ERROR function or the SIGNAL SQLSTATE statement in a trigger.

User Response: See application documentation.

sqlcode: -438

sqlstate: application-defined

SQL0439N User defined function “<function-name>” is indirectly implemented by function “<source-function>” which resulted in error “<sqlcode>”.

Explanation: The function “<function-name>” was referenced in the user’s statement. However, because the SOURCE clause was used in the definition of this function, it has turned out that function “<source-function>” actually implements the function. (It may be a direct or an indirect definition path from “<function-name>” to “<source-function>”.) At compile time, the encapsulator (DB2 code which acts on behalf of a function) for “<source-function>” has returned the error identified by “<sqlcode>”.

User Response: The actual error situation needs to be understood better before corrective action can be taken. Look up the explanation for “<sqlcode>”. If “<source-function>” is a built-in function, the “<sqlcode>” should indicate the problem, as in the case where a built-in function is directly referenced in the user’s statement. If “<source-function>” is a user defined function, the message most likely indicates a problem with one of the arguments or with the result from the function.

Correct the problem and try again.

sqlcode: -439

sqlstate: 428A0

SQL0440N No function by the name “<function-name>” having compatible arguments was found in the function path.

Explanation: This occurs in a reference to function “<function-name>”, when the database manager cannot find a function it can use to implement the reference. There are several reasons why this could occur:

- “<function-name>” was either incorrectly specified or does not exist in the database.
- A qualified reference was made, and the qualifier was incorrectly specified.

- The user's function path does not contain the schema to which the desired function belongs, and an unqualified reference was used.
- The wrong number of arguments were included.
- The right number of arguments were included, but the data types of one or more of the arguments is incorrect.
- The function does not exist in the database with a create timestamp earlier than the time the package was bound (applies to static statements).

User Response: Fix the problem and retry. This could involve catalog access, change to the statement, the addition of new functions, and/or change to the function path.

sqlcode: -440

sqlstate: 42884

SQL0441N Invalid use of keyword DISTINCT or ALL with function "<function-name>".

Explanation: There are several possible causes.

- The keyword DISTINCT or ALL was detected within the parentheses in a reference to function "<function-name>", and the function has been resolved as a scalar function. Use of the keyword DISTINCT or ALL with a scalar function is invalid.
- The keyword DISTINCT is used in a column function for which it is not supported. These functions include COVARIANCE, CORRELATION and the linear regression functions (those that start with REGR).
- The function was expected to be a column function supporting the keyword ALL or DISTINCT but the function it resolved to was not a column function.

User Response:

- If a scalar function is being used, then remove the keyword DISTINCT or ALL. It is invalid for a scalar function.
- If the function is a column function that does not support the DISTINCT or ALL keywords, then remove the keywords.

- If a column function is being used, then there is a problem with function resolution. Check your function path to see if the desired function is in one of the schemas, and also check the SYSFUNCTIONS catalog for the spelling of the function name and the number and types of parameters.

Correct the error and try again.

sqlcode: -441

sqlstate: 42601

SQL0442N Error in referring to function "<function-name>". The maximum number of allowable arguments (90) has been exceeded.

Explanation: Too many arguments were specified in the reference to function "<function-name>". The maximum allowable is 90.

User Response: Correct the statement by ensuring that the correct number of arguments has been used and try again.

sqlcode: -442

sqlstate: 54023

SQL0443N User defined function "<function-name>" (specific name "<specific-name>") has returned an error SQLSTATE with diagnostic text "<text>".

Explanation: An SQLSTATE of the form 38xxx was returned to DB2 by User Defined Function (UDF) "<function-name>" (specific name "<specific-name>"), along with message text "<text>".

User Response: The user will need to understand the meaning of the error. See your Database Administrator, or the author of the UDF.

Errors that are detected by the IBM supplied functions in the SYSFUN schema all return the SQLSTATE 38552. The message text portion of

the message is of the form:

SYSFUN:nn

where nn is a reason code meaning:

01	Numeric value out of range
02	Division by zero
03	Arithmetic overflow or underflow
04	Invalid date format
05	Invalid time format
06	Invalid timestamp format
07	Invalid character representation of a timestamp duration
08	Invalid interval type (must be one of 1, 2, 4, 8, 16, 32, 64, 128, 256)
09	String too long
10	Length or position in string function out of range
11	Invalid character representation of a floating point number

sqlcode: -443

sqlstate: 38xxx (the SQLSTATE returned by the UDF).

SQL0444N **User defined function “<function-name>” (specific name “<specific-name>”) is implemented with code in library or path “<library-or-path>”, function “<function-code-id>” which cannot be accessed. Reason code: “<code>”.**

Explanation: The DBMS is trying to access the body of the code that implements user defined function “<function-name>” (specific name “<specific-name>”), and cannot access it for the reason given by reason code “<code>” (the codes are listed below). The file implementing the function is identified by “<library-or-path>”, and the function by “<function-code-id>”.

(Note that these last two tokens may be

truncated, due to limitations in the total token length which can be provided. If this happens, then the definition of the function in the catalogs may need to be accessed in order to determine the full library or path and function code id that were defined for the function.)

User Response: Given for each reason code:

1	Path name “<library-or-path>” is longer than the maximum (255 bytes). Either the function definition needs to be changed to specify a shorter path, or the DB2 instance path name is too long. Look at the catalog definition to determine which is the case. It may be necessary to move the function body to a directory with a shorter path name.
2	The DB2 instance path name could not be retrieved from DB2. See your system administrator.
3	The path “<library-or-path>” could not be found. See the function creator or your database administrator. The function definition or the location of the function itself will need to be corrected.
4	The file in “<library-or-path>” could not be found. See the function creator or your database administrator. The function definition or the location of the function may need to be corrected, or the function may need to be re-linked.

In OS/2 this reason code can arise if the UDF DLL name is longer than format (8.3). For example a name of “abcdefgh99.dll” has format (10.3) and would result in this message with reason code 4. The solution is to change the name to an acceptable form, for example “abcdef99.dll”.

In addition to the above, this reason code can result if the UDF requires a shared library or DLL, and the shared library cannot be located (using the concatenation of directories specified in the LIBPATH environment variable in UNIX-based systems, the PATH environment variable in INTEL

systems). There can be multiple levels of this indirection involved, leading to this reason code. For example UDF body X can be found, and it needs shared library Y which can also be found. But Y needs Z, and Z cannot be located, and this will result in SQL0444N reason code 4.

- 5 There was insufficient memory to load the library containing the function or one or more symbols could not be resolved. Contact the function creator or your database administrator to make sure that the library was correctly linked. All required libraries to resolve referenced symbols such as external functions must be available. If a lack of memory is determined then the system configuration may need to be changed to make more memory available to DB2.
- 6 The function "<function-code-id>" could not be found in the module named. See the function creator or your database administrator. The function definition or the function itself will need to be corrected.
- 7 The symbol given as the function name ("<function-code-id>") is not the name of a valid function in the named library. See the function creator or your database administrator. The function definition or the function itself will need to be corrected.
- 8 The "load" system function has failed, for other than the reasons given above. It may be that the module was not linked at all, or not linked correctly.
- 9 There was insufficient memory to resolve the function name "<function-code-id>" in the library identified in "<library-or-path>". Contact the function creator or your database administrator to make sure the library containing the function was correctly linked. The system configuration may need to be changed to make more memory available to DB2 Server.

10 The loadquery system call has failed. This can only happen on unix-based systems, and is a symptom that the database manager itself has not been installed correctly. Contact your system administrator.

11 The agent process is searching for a particular database manager function that should be in the libdb2.a library, and it cannot find it. This can only happen on unix-based systems, and is a symptom that the database manager is not correctly installed. Contact your system administrator.

15 Access has been denied. This can happen in Windows NT environments if the EXTERNAL NAME specification in the CREATE FUNCTION statement does not specify a full path, or the function does not exist in the instance_name\function directory, necessitating a search using the PATH environment variable. For example, If the PATH contains a lan drive prior to the directory containing your udf and the db2 instance is running under the SYSTEM account, this reason code can result.

other: An unidentified system failure has occurred. Note the code, and see your system administrator.

Federated system users: if this user defined function is a function template (and thus no code is required to reside on the federated server), you may want to consider modifying the SQL statement or statistics to enable this function to be evaluated on the remote data source.

sqlcode: -444

sqlstate: 42724

SQL0445W Value "<value>" has been truncated.

Explanation: The value "<value>" was truncated by a system (built-in) cast or

adjustment function, which was called to transform the value in some way. This is a warning situation.

The value being transformed is the output of a user-defined function (UDF), and is being transformed because of a CAST FROM specification in the UDF definition, or because the UDF is sourced on another function and the result needed to be transformed.

User Response: Ensure that the output is as expected and that the truncation has not caused any unexpected consequences.

sqlcode: +445

sqlstate: 01004

SQL0447W The statement contains redundant specifications involving the clause “<clause>”.

Explanation: The “<clause>” keyword was included more than once in the statement. This is a warning condition.

User Response: If the redundancy was intentional, or if it is determined that no harm has resulted, then no response is necessary. The type of “harm” alluded to could include, for example, the omission of some other desired keyword.

sqlcode: +447

sqlstate: 01589

SQL0448N Error in CREATE statement for user defined function or stored procedure “<function-name>”. The maximum number of allowable parameters (90 for user defined functions / 32767 for stored procedures) has been exceeded.

Explanation: Too many parameters were specified in the CREATE statement for function or procedure “<function-name>”.

User Response: Change the CREATE statement to include fewer parameters.

sqlcode: -448

sqlstate: 54023

SQL0449N The CREATE for user defined function or stored procedure “<function-name>” contains an invalidly formatted library/function identification in the EXTERNAL NAME clause.

Explanation: An error was found in the EXTERNAL NAME clause of the CREATE statement for user defined function (UDF) or stored procedure “<function-name>”. The rules for the library / function identification are as follows:

The name takes the form ‘<a>!’ or ‘<a>’. No blanks are permitted within the single quotes. <a> is one of the following:

- the full-path identification of a file (e.g. (on AIX) /u/slick/udfs/math or (on OS/2) d:\myfunc\math)
- a file name (e.g. math) assumed to be in ‘function’ directory in the sqllib directory.

If is omitted, the default is the entry point defined when the named file was linked. If is present, it identifies the entry point (function) within <a> that will be invoked as the body of the UDF or stored procedure.

User Response: Correct the problem and try again. A possible cause is the inclusion of a blank, or having the ‘!’ at the beginning or end of the name.

sqlcode: -449

sqlstate: 42878

SQL0450N User-defined function “<function-name>” (specific name “<specific-name>”) has generated a result value, SQLSTATE value, message text, or scratchpad which is too long.

Explanation: Upon return from user-defined function (UDF) “<function-name>” (specific name “<specific-name>”), DB2 has detected that

more bytes were returned than were allocated for one of the following:

- the result value (based upon the function definition). There are several possible causes:
 - Too many bytes were moved to the result buffer.
 - The data type is one where the data value must be delimited by a null, such as VARCHAR(n), and the delimiting null was not within the range of the defined size.
 - DB2 is expecting a two- or four- byte length value preceding the value, and this length exceeds the defined size of the result.
 - A LOB locator is returned by the UDF, and the length of the LOB value associated with this locator exceeds the defined size of the result.

The definition of the result argument in the UDF must conform to the requirement for the data type. Refer to the *Embedded SQL Programming Guide* for more information.

- the SQLSTATE value (6 bytes including the null terminator)
- the message text (71 bytes including the null terminator).
- the scratchpad content (100 bytes, plus 4 byte binary length preceding it).

This is not permitted.

User Response: See your Database Administrator, or the author of the UDF.

sqlcode: -450

sqlstate: 39501

SQL0451N **The “<data-item>” definition, in the CREATE for user defined function “<function-name>”, contains a data type “<type>” that is not appropriate for a non-sourced function written in the given language.**

Explanation: An error was made in the “<data-item>” part of the CREATE statement for the user defined function (UDF)

“<function-name>”. The user’s CREATE statement contained the invalid type “<type>”, or it contained a user defined type (UDT) which is based on the invalid type “<type>”.

“<data-item>” is a token that identifies the area of the problem in the CREATE statement. For example, “PARAMETER 2” or “RETURNS” or “CAST FROM”.

User Response: Determine which situation has occurred, and take corrective action. Possible corrective actions include:

- Changing the function definition to a supported type, e.g. from DECIMAL to FLOAT. This may involve a change in the UDF body itself, and may also involve use of cast functions upon use of the function.
- Creating a new (suitably based) user defined type, or changing the definition of an existing UDT.

sqlcode: -451

sqlstate: 42815

SQL0452N **Unable to access the file referenced by host variable “<variable-position>”. Reason code: “<reason-code>”.**

Explanation: An error was encountered attempting to access or while accessing the file referenced by the “nth” host variable, where n = “<variable-position>”, for the reason given by “<reason-code>”. <variable-position> is set to 0 if the host variable position could not be determined. The possible reason codes are as follows:

- 01 - The file name length is invalid or the file name and/or the path has an invalid format.
- 02 - The file option is invalid. It must have one of the following values:
 - SQL_FILE_READ
-read from an existing file
 - SQL_FILE_CREATE
-create a new file for write
 - SQL_FILE_OVERWRITE
-overwrite an existing file.
If the file does not exist,


```

        create the file.
SQL_FILE_APPEND
    -append to an existing file.
    If the file does not exist,
    create the file.

```

- 03 - The file cannot be found.
- 04 - The SQL_FILE_CREATE option was specified for a file with the same name as an existing file.
- 05 - Access to the file was denied. The user does not have permission to open the file.
- 06 - Access to the file was denied. The file is in use with incompatible modes. Files to be written to are opened in exclusive mode.
- 07 - Disk full was encountered while writing to the file.
- 08 - Unexpected end of file encountered while reading from the file.
- 09 - A media error was encountered while accessing the file.
- 10 - An incomplete or invalid multibyte character was encountered while reading from the file.
- 11 - An error was encountered while converting data from the file code page to the application's graphic character code page.

User Response:

For reason code 01, correct the file name length, file name and/or path.

For reason code 02, specify a valid file option.

For reason code 03, ensure that the file specified exists before attempting to access the file.

For reason code 04, either delete the file if it is no longer required or specify a file name that does not currently exist.

For reason code 05, ensure that the user has access (correct file permissions) to the file.

For reason code 06, either use a different file or, if the file must be accessed, modify the application to ensure that the file is not accessed concurrently.

For reason code 07, delete unnecessary files to free up disk space or specify a file that resides on another drive/file system with sufficient disk

space. Also, ensure that no operating system or user file size limits were reached. If your application code page uses a multibyte encoding scheme it is possible that only part of the last character was written, ensure that the file contains only fully formed characters.

For reason code 08, if a file is to be used for input, ensure that the file is not modified before the entire file has been read.

For reason code 09, correct all errors on the media where the file resides.

For reason code 10, ensure that the file contains valid multibyte characters based on the code page of the application or submit the request while running under the same code page as the contents of the file.

For reason code 11, ensure that character conversion support between the code page of the file, for example Japanese EUC, and the graphic code page of the application, for example UCS-2, is installed.

sqlcode: -452

sqlstate: 428A1

SQL0453N **A problem has been identified with the RETURNS clause in the CREATE statement for user defined function "<function-name>".**

Explanation: A problem casting the result of user defined function (UDF) "<function-name>" has been identified. The CAST FROM data type is not castable to the RETURNS data type, and it should be. See the *SQL Reference* for details on casting between data types.

User Response: Change the RETURNS or CAST FROM clause so that the CAST FROM data type is castable to the RETURNS data type.

sqlcode: -453

sqlstate: 42880

SQL0454N The signature provided in the CREATE statement for user defined function or stored procedure "<function-name>" matches the signature of some other function or procedure already existing in the schema.

Explanation: The signature a function consists of the function name, the number of parameters defined for the function, and an ordered list of the types of the parameters (without regard to any parameters of the types).

The signature of a procedure consists of the procedure name and the number of parameters defined for the procedure (data types are not considered).

In this case, there is a function or procedure ("<function-name>") already in the schema having the same signature as the function or procedure being created.

The statement cannot be processed.

User Response: Determine if the existing function or procedure already provides the functionality desired. If not, then the new function's or procedure's signature will have to be changed (e.g. change the function or procedure name).

sqlcode: -454

sqlstate: 42723

SQL0455N In the CREATE for user defined function or stored procedure "<function-name>", the schema name "<schema-name1>" provided for the SPECIFIC name does not match the schema name "<schema-name2>" of the function or procedure.

Explanation: If the SPECIFIC name is specified as a two part name, the "<schema-name1>" portion must be the same as the "<schema-name2>" portion of the "<function-name>". Note that the "<schema-name2>" portion of "<function-name>" may have been specified

directly or it may have defaulted to the authorization ID of the statement.

User Response: Correct the statement and try again.

sqlcode: -455

sqlstate: 42882

SQL0456N In the CREATE of user defined function or stored procedure "<function-name>", the SPECIFIC name "<specific-name>" already exists in the schema.

Explanation: The user has supplied an explicit SPECIFIC name "<specific-name>" in the CREATE statement for function or procedure "<function-name>", but this name already exists as the SPECIFIC name for a function or procedure in the schema.

User Response: Choose a new SPECIFIC name and try again.

sqlcode: -456

sqlstate: 42710

SQL0457N A function, user-defined data type, or structured data type attribute cannot be called "<name>" since it is reserved for system use.

Explanation: The user-defined function or user-defined data type cannot be created because a specified name is reserved for use by the system. Names that cannot be used for function names, distinct type names, structured type names, or attribute names include:

"=", "<", ">", ">=", "<=", "&=", "&>", "&<",
"!=", "!", ">", "<", "<>", SOME, ANY, ALL, NOT,
AND, OR, BETWEEN, NULL, LIKE, EXISTS, IN,
UNIQUE, OVERLAPS, SIMILAR, and MATCH.

User Response: Select a name for the function, user-defined data type, or structured data type attribute that is not reserved for system use.

sqlcode: -457

sqlstate: 42939

SQL0458N In a reference to function or stored procedure “<function-name>” by signature, a matching function or stored procedure could not be found.

Explanation: In a reference to function or stored procedure “<function-name>” by signature, no matching function or stored procedure could be found. If a data type is used that can accept a parameter (e.g. CHAR(12)), then the type parameter is optional, i.e. you can specify the parameter (CHAR(12) or omit it (CHAR())). If you specify the parameter, then the DBMS will only accept an exact match on the data type AND the data type parameter. If you omit the parameter, then the DBMS will accept a match on data type only. The CHAR() syntax provides a way to say “don’t care about data type parameters in finding a matching function”.

Note also that in the DROP FUNCTION/PROCEDURE and COMMENT ON FUNCTION/PROCEDURE statements, an unqualified reference is qualified with the statement authorization ID, and this is the schema where the problem can be found. In the SOURCE clause of a CREATE function, the qualification comes from the current function path. In this case, there is no matching function in the entire path.

A function cannot be sourced on the COALESCE, NULLIF, NODENUMBER, PARTITION, RAISE_ERROR, TYPE_ID, TYPE_NAME, TYPE_SCHEMA, or VALUE built-in functions.

The statement cannot be processed.

User Response: Possible responses include:

- Changing the function path to include the correct schema.
- Removing parameters from the specifications of data types.
- Using a SPECIFIC name to refer to the function or procedure instead of a signature.

sqlcode: -458

sqlstate: 42883

SQL0461N A value with data type “<source-data-type>” cannot be CAST to type “<target-data-type>”.

Explanation: The statement contains a CAST with the first operand having a data type of “<source-data-type>” to be cast to the data type “<target-data-type>”. This cast is not supported.

User Response: Change the data type of either the source or target so that the cast is supported. For predefined data types these are documented in the SQL Reference. For a cast involving a user-defined distinct type, the cast can be between the base data type and the user-defined distinct type or from a data type that is promotable to the base data type to the user-defined distinct type.

sqlcode: -461

sqlstate: 42846

SQL0462W User defined function “<function-name>” (specific name “<specific-name>”) has returned a warning SQLSTATE, with diagnostic text “<text>”.

Explanation: An SQLSTATE of the form 01Hxx was returned to DB2 by user defined function (UDF) “<function-name>” (with specific name “<specific-name>”), along with message text “<text>”.

User Response: The user will need to understand the meaning of the warning. See your database administrator, or the author of the UDF.

sqlcode: +462

sqlstate: 01Hxx

SQL0463N User defined function “<function-name>” (specific name “<specific-name>”) has returned an invalid SQLSTATE “<state>”, with diagnostic text “<text>”.

Explanation: The valid SQLSTATES that a user defined function (UDF) can return are 38xxx

(error), 38502 (error) and 01Hxx (warning). This user defined function “<function-name>” (specific name “<specific-name>”) returned an invalid SQLSTATE “<state>”, along with message text “<text>”. The UDF is in error.

User Response: The UDF will need to be corrected. See your database administrator, or the author of the UDF. The application significance of the bad SQLSTATE can also be learned from the UDF author.

sqlcode: -463

sqlstate: 39001

SQL0464W Procedure “<proc>” returned “<num>” query result sets, which exceeds the defined limit “<integer>”.

Explanation: The stored procedure named by proc completed normally. However, the stored procedure exceeded the defined limit on the number of query result sets the procedure can return.

num identifies the number of query result sets returned by the stored procedure.

integer identifies the defined limit on the number of query result sets for the stored procedure.

Only the first integer query result sets are returned to the SQL program that issued the SQL CALL statement.

The possible causes are as follows: The stored procedure is unable to return num result sets due to the DRDA limitations imposed by the client. The DRDA client establishes this limit with the MAXRSLCNT DDM code point.

User Response: The SQL statement is successful. The SQLWARN9 field is set to 'Z'.

sqlcode: +464

sqlstate: 0100E

SQL0465N Unable to start, initialize, or communicate with fenced mode process. Reason code “<code>”.

Explanation: There is a system related problem involved with the running of a fenced mode UDF (User Defined Function). The exact nature of the problem is indicated by “<code>”. This is NOT a user problem. Possible reason codes are:

UDF process errors

- 21:** Failure to initialize internal data or application data.
- 22:** Failure to register signal handlers.
- 23:** Failure to grant agent process the access permission for the REQUEST QUEUE.
- 24:** Failure to connect to the UDF process Shared Memory.
- 25:** Failure to open the REPLY QUEUE.
- 26:** Failure to write to the REPLY QUEUE.
- 27:** Failure to create the REQUEST QUEUE.
- 28:** Failure to read from the REQUEST QUEUE.
- 29:** UDF process dies.
- 30:** UDF process catches an USER INTERRUPT signal.
- 31:** Failure to unload UDF module.
- 32:** Failure to allocate storage for control blocks used in module loading/unloading.
- 33:** Failure to send SIGINT from agent process to UDF process.
- 34:** Failure to initialize OLE library.
- 35:** Failure to initialize OLE DB Initialization Service Component.
- 40:** Internal error occurred in UDF process.

Agent process errors

- 41:** Failure to spawn UDF process.
- 42:** Failure to create the REPLY QUEUE.

- 43: Failure to read from the REPLY QUEUE.
- 44: Failure to open the REQUEST QUEUE.
- 45: Failure to write to the REQUEST QUEUE.
- 47: Failure to grant the UDF process the access permission to the UDFP shared memory set.
- 48: Failure to grant the UDF process the access permission to the REPLY QUEUE.
- 49: Failure to allocate storage for control blocks used in module loading/unloading.
- 50: Agent process died while running UDF code or agent code.
- 51: Agent process catches USER INTERRUPT while running un-fenced UDF code.
- 60: Internal error occurred in UDF process.

User Response: Contact your Database or System administrator.

sqlcode: -465

sqlstate: 58032

SQL0466W There is one or more result sets associated with a stored procedure.

Explanation: This message is returned as a result of issuing a CALL SQL statement. It indicates that the stored procedure associated with the CALL SQL statement has one or more result sets associated with it.

User Response: None required.

sqlcode: +466

sqlstate: 01610

SQL0467W Another result set exists for a stored procedure.

Explanation: This message is returned as a result of closing a cursor. It indicates that another result set exists for a stored procedure.

User Response: None required.

sqlcode: +467

sqlstate: 01611

SQL0470N The user defined routine “<routine-name>” (specific name “<specific-name>”) has a null value for argument “<argument>” that could not be passed.

Explanation: A routine has an input argument with a null value but was defined with a parameter style that does not pass null indicators, or the datatype of this parameter does not support null values.

User Response: If the routine is to be called with null values, ensure the parameter style and input types are capable of accepting a null value. For functions, the function could also be created with "RETURNS NULL ON NULL INPUT".

sqlcode: -470

sqlstate: 39004

SQL0473N A user defined data type having the same name as a system predefined type cannot be created.

Explanation: The name of a data type to be created has an unqualified name that is the same as a system-predefined data type or is BOOLEAN. This is not allowed. Adding delimiters does not make the name valid.

The statement could not be processed.

User Response: Correct the statement to use another identifier.

sqlcode: -473

sqlstate: 42918

SQL0475N **The result type “<type-1>” of the SOURCE function cannot be cast to the RETURNS type “<type-2>” of the user defined function “<function-name>”.**

Explanation: In order for the CREATE of a sourced user defined function (UDF) to be valid, the result type (“<type-1>”) of the source function must be castable to the RETURNS type (“<type-2>”) of the function being created. There is no supported cast between these data types. See the *SQL Reference* for details on casting between data types.

User Response: Change the RETURNS data type or the SOURCE function identification so that the result type of the SOURCE function is castable to the RETURNS data type.

sqlcode: -475

sqlstate: 42866

SQL0476N **Reference to function or stored procedure “<function-name>” was made without a signature, but the function or stored procedure is not unique in its schema.**

Explanation: References to a function or stored procedure without a signature is permitted, but the named function or store procedure “<function-name>” must be unique in its schema and is not.

Note that in the DROP FUNCTION / PROCEDURE and COMMENT ON FUNCTION / PROCEDURE statements, an unqualified reference is qualified with the statement authorization ID, and this is the schema where the problem can be found. In the SOURCE clause of a CREATE FUNCTION, the qualification comes from the current function path. In this case, the first schema in the path containing a function with this name had other functions by the same name.

Federated system users: For a pass-through session, if the statement is a CREATE FUNCTION MAPPING statement, this error indicates that an attempt was made to create a

function mapping from one remote function to more than one local function.

User Response: Correct the reference by one of the following:

- completing the signature
- using the SPECIFIC name of the desired function or procedure
- changing the function path

and try again.

sqlcode: -476

sqlstate: 42725

SQL0478N **The object type “<object-type1>” cannot be dropped because there is an object “<object-name>”, of type “<object-type2>”, which depends on it.**

Explanation: The base object, which is an object of type “<object-type1>” cannot be dropped because another object depends on it. There is a restrict dependency defined with objects of type “<object-type2>” (of which object “<object-name>” is an example).

It may be that the dependency is indirect. That is, the named object is dependent on another object which is dependent on the object being dropped.

For example:

- function F1 is sourced on function F2
- table V1 is defined using F1
- an attempt to drop F2 will fail due to the direct dependency of F1 on F2 and the indirect dependency of V1 on F2

User Response: Either do not drop this object or drop the dependent objects first.

sqlcode: -478

sqlstate: 42893

SQL0481N The GROUP BY clause contains “<element 1>” nested within “<element 2>”.

Explanation: The following types of nesting are not allowed within a GROUP BY clause:

- CUBE within CUBE, ROLLUP, or GEL
- ROLLUP within CUBE, ROLLUP, or GEL
- () within CUBE, ROLLUP, or GEL
- GROUPING SET within GROUPING SET, CUBE, ROLLUP, or GEL

where GEL represents the element shown as grouping-expression-list in the syntax diagram of the GROUP BY clause.

In some instances the value “---” will be shown for “<element 2>”. In this case “---” represents one of CUBE, ROLLUP, GROUPING SET, or GEL.

The statement cannot be processed.

User Response: Modify the GROUP BY clause to remove the nesting.

sqlcode: -481

sqlstate: 428B0

SQL0483N In the CREATE for user defined function “<function-name>” statement, the number of parameters does not match the number of parameters of the SOURCE function.

Explanation: An attempt is being made to CREATE a user defined function “<function-name>” which is sourced on another function. One of the following situations has been identified:

- The SOURCE clause uses a function-name (input parameter list) to identify the source function, and the number of types in the list is different from the number of parameters of the function being created.
- The SOURCE clause uses different syntax to identify the source function, and the number

of types of that function is different from the number of parameters of the function being created.

User Response: The number of parameters for the SOURCE function and for the function being created must be the same. The identification of the SOURCE function needs to be changed, to

- fix the input parameter list
- correct the function name or function specific name to identify the proper function.

It is also possible that the function path needs to be corrected in order for correct function resolution to occur.

sqlcode: -483

sqlstate: 42885

SQL0486N The BOOLEAN data type is currently only supported internally.

Explanation: One or more of the data types in the statement is BOOLEAN. This is not supported in the current version of DB2.

User Response: Change the data type(s) then resubmit the statement.

sqlcode: -486

sqlstate: 42991

SQL0487N User defined function or procedure “<function-name>” (specific name “<specific-name>”) attempted to execute an SQL statement.

Explanation: The program used to implement the body of a user defined function or procedure is not allowed to execute SQL statements. This user defined function or stored procedure “<function-name>” (specific name “<specific-name>”) contains SQL statements.

User Response: Remove any SQL statements then recompile the program. For stored procedures, investigate the level of SQL allowed

as specified on the CREATE PROCEDURE statement.

sqlcode: -487

sqlstate: 38001

SQL0489N The function "<function-name>" in a SELECT or VALUES list item has produced a BOOLEAN result.

Explanation: The function "<function-name>" is defined for use as a predicate, returning a boolean result. Such a result is not valid in a select list.

The statement cannot be processed.

User Response: Correct the function name or remove the use of the function.

sqlcode: -489

sqlstate: 42844

SQL0491N The CREATE statement for user defined function "<function-name>" must have a RETURNS clause, and either the EXTERNAL clause (with other required keywords) or the SOURCE clause.

Explanation: A required clause is missing in the CREATE for function "<function-name>". If EXTERNAL was specified, the following must also be specified: LANGUAGE, PARAMETER STYLE, VARIANT or NOT VARIANT, NO SQL, and EXTERNAL ACTION or NO EXTERNAL ACTION.

User Response: Add the missing clause, then try again.

sqlcode: -491

sqlstate: 42601

SQL0492N There is a problem in the CREATE for user defined function "<function-name>", with parameter number "<number>". It may involve a mismatch with a SOURCE function.

Explanation: The parameter in position "<number>" of function "<function-name>" is in error and the CREATE cannot be performed. The parameter in position "<number>" of the source function is not castable to the corresponding parameter of the function being created.

User Response: Possible corrections include:

- Identify a different source function.
- Change the data type of the parameter of the function being created so that the data type of the source function can be cast to this data type.

sqlcode: -492

sqlstate: 42879

SQL0493N User defined function "<function-name>" (specific name "<specific-name>") has returned a date, time or timestamp value which is syntactically or numerically invalid.

Explanation: The body of user defined function (UDF) "<function-name>" (specific name "<specific-name>") has returned an invalid date, time or timestamp value.

An example of a syntactically invalid date value is '1994-12*25': the '*' should be a '-'. An example of a numerically invalid time value is '11.71.22': there is no 71st minute in the hour.

User Response: The UDF needs fixing. See your DBA, or the author of the UDF.

sqlcode: -493

sqlstate: 22007

SQL0495N Estimated processor cost of "**<estimate-amount1>**" processor seconds ("**<estimate-amount2>**" service units) in cost category "**<cost-category>**" exceeds a resource limit error threshold of "**<limit-amount>**" service units.

Explanation:

The prepare of a dynamic INSERT, UPDATE, DELETE, or SELECT SQL statement resulted in a cost estimate that exceeded the error threshold value specified in the resource limit specification table (RLST).

This error is also issued if DB2's cost category value was "B", and the default action specified in the RLF_CATEGORY_B column in the RLST is to issue an error.

estimate_amount1

The cost estimate (in processor seconds) if the prepared INSERT, UPDATE, DELETE or SELECT statement were to be executed.

estimate_amount2

The cost estimate (in service units) if the prepared INSERT, UPDATE, DELETE or SELECT statement were to be executed.

cost-category

DB2's cost-category for this SQL statement. The possible values are A or B.

limit-amount

The error threshold (in service units) specified in the RLFASUERR column of the RLST.

The prepare of the dynamic INSERT, UPDATE, DELETE, or SELECT statement was unsuccessful.

User Response: If this SQLCODE was returned because the cost category value is "B", it might be that the statement is using parameter markers or that some statistics are not available for the

referenced tables and columns. Make sure the administrator has run the utility RUNSTATS on the referenced tables. It might also be that UDFs will be invoked when the statement is executed, or for INSERT, UPDATE, or DELETE statements that triggers are defined on the changed table. Check the DSN_STATEMNT_TABLE or the IFCID 22 record for this statement to find the reasons this SQL statement has been put in cost category "B". If the program cannot be changed, or if statistics cannot be obtained, ask the administrator to change the value in the RLF_CATEGORY_B column in the RLST to "Y" which allows the statement to execute or "W" which returns a warning instead of an error.

If the warning is caused by an SQL statement that is consuming too much processor resource, attempt to rewrite the statement to perform more efficiently. Another option is to ask the administrator to increase the error threshold value in the RLST.

sqlcode: -495

sqlstate: 57051

SQL0499N Cursor "**<cursor-name>**" has already been assigned to this or another result set from procedure "**<procedure-name>**".

Explanation: An attempt was made to assign a cursor to a result set but multiple cursors have been allocated for procedure "**<procedure-name>**".

User Response: Determine if the target result set was previously assigned to a cursor. If multiple cursors have been allocated for procedure "**<procedure-name>**" ensure that only one cursor is used to process the result sets of a stored procedure.

sqlcode: -499

sqlstate: 24516

SQL0500 - SQL0599

SQL0501N The cursor specified in a FETCH or CLOSE statement is not open.

Explanation: The program attempted to either: (1) FETCH using a cursor, or (2) CLOSE a cursor at a time when the specified cursor was not open.

The statement cannot be processed.

User Response: Check for a previous message (SQLCODE) that may have closed the cursor. Note that after the cursor is closed, any fetches or close cursor statements receive SQLCODE -501.

If no previous SQLCODEs have been issued, correct the application program to ensure that the cursor is open when the FETCH or CLOSE statement is executed.

sqlcode: -501

sqlstate: 24501

SQL0502N The cursor specified in an OPEN statement is already open.

Explanation: The program attempted to execute an OPEN statement for an open cursor.

The statement cannot be processed. The cursor was unchanged.

User Response: Correct the application program to ensure it does not attempt to execute an OPEN statement for a cursor already open.

sqlcode: -502

sqlstate: 24502

SQL0503N A column cannot be updated because it is not identified in the FOR UPDATE clause of the SELECT statement of the cursor.

Explanation: Using a cursor, the program attempted to update a value in a table column that was not identified in the FOR UPDATE clause in the cursor declaration or the prepared SELECT statement.

Any column to be updated must be identified in

the FOR UPDATE clause of the cursor declaration.

The statement cannot be processed.

User Response: Correct the application program. If the column requires updating, add its name to the FOR UPDATE clause of the cursor declaration.

sqlcode: -503

sqlstate: 42912

SQL0504N The cursor "<name>" is not defined.

Explanation: An UPDATE or DELETE WHERE CURRENT OF "<name>" was specified, but the cursor "<name>" was not declared in the application program.

The statement cannot be processed.

User Response: Ensure the completeness of the application program and correct spelling errors in the cursor names.

sqlcode: -504

sqlstate: 34000

SQL0505N The cursor "<name>" is already defined.

Explanation: The cursor name specified in the DECLARE statement has already been declared.

The statement cannot be processed.

User Response: Ensure the name is spelled correctly.

SQL0507N The cursor specified in the UPDATE or DELETE statement is not open.

Explanation: The program attempted to execute an UPDATE or DELETE WHERE CURRENT OF cursor statement when the specified cursor was not open.

The statement cannot be processed. No update or delete was performed.

User Response: Check for a previous message (SQLCODE) that may have closed the cursor. Note that after the cursor is closed, any fetches or close cursor statements receive SQLCODE -501 and any updates or deletes receive SQLCODE -507. Correct the logic of the application program to ensure that the specified cursor is open at the time the UPDATE or DELETE statement is executed.

sqlcode: -507

sqlstate: 24501

SQL0508N The cursor specified in the UPDATE or DELETE statement is not positioned on a row.

Explanation: The program attempted to execute an UPDATE or DELETE WHERE CURRENT OF cursor statement when the specified cursor was not positioned on an object table row. The cursor must be positioned on the row to be updated or deleted.

The cursor is no longer positioned on a row if the row is deleted.

Federated system users: the record in a remote data source has been updated and/or deleted by another application (or a different cursor within this application) and the record no longer exists.

The statement cannot be processed. No data is updated or deleted.

User Response: Correct the logic of the application program to ensure that the cursor is correctly positioned on the intended row of the object table before the UPDATE or DELETE statement is executed. Note that the cursor is not positioned on a row if FETCH returned message SQL0100W (SQLCODE = 100).

sqlcode: -508

sqlstate: 24504

SQL0509N The table specified in the UPDATE or DELETE statement is not the same table specified in the SELECT for the cursor.

Explanation: The program attempted to execute an UPDATE or DELETE WHERE CURRENT OF cursor statement where the table named did not match the name of the table specified in the SELECT statement that declared the cursor.

The statement cannot be processed.

User Response: Correct the application program to ensure that the table identified in the UPDATE or DELETE statement is the same table identified in the cursor declaration.

sqlcode: -509

sqlstate: 42827

SQL0510N UPDATE or DELETE is not allowed against the specified cursor.

Explanation: The program attempted to execute an UPDATE or DELETE WHERE CURRENT OF cursor statement against a table or view definition that does not permit the requested update or delete operation. For example, this error can occur in a delete from a read-only view or in an update where the cursor was not defined with the FOR UPDATE clause.

On the database manager the view is read-only if the SELECT statement

- The DISTINCT keyword
- A column function in the SELECT list
- A GROUP BY or HAVING clause
- A FROM clause that identifies one of the following:
 - More than one table or view
 - A read-only view (READONLY column of SYSCAT.SYSVIEWS is set to 'Y')
 - A table or view that is also identified in the FROM clause of a subquery of the SELECT statement. (NOTE: This is a restriction only in releases of DB2 prior to Version 2).
- A set operator (other than UNION ALL).

Note that these conditions do not apply to subqueries of the SELECT statement.

The cursor is declared with a FOR FETCH ONLY or ORDER BY clause.

The cursor is ambiguous and the BLOCKING ALL bind option was specified.

The statement cannot be processed.

User Response: If the database manager is failing the statement and the cursor is based on a read-only SELECT or VALUES statement, do not issue any update or delete statements against it.

If the database manager is failing the statement and the cursor is not based on a read-only SELECT or VALUES statement and is defined with a FOR FETCH ONLY or ORDER BY clause, either remove this clause from the cursor definition or do not issue any update or delete statements.

If the database manager is failing the statement and the cursor cannot be determined to be either fetch only or updateable from its definition or context, rebind the program with either the BLOCKING NO or BLOCKING UNAMBIG bind option.

Federated system users: isolate the problem to the data source failing the request (see the problem determination guide for procedures to follow to identify the failing data source). If a data source is failing the request, examine the restrictions for that data source to determine the cause of the problem and its solution. If the restriction exists on a data source, see the SQL reference manual for that data source to determine why the object is not updatable.

sqlcode: -510

sqlstate: 42828

SQL0511N **The FOR UPDATE clause is not allowed because the table specified by the cursor cannot be modified.**

Explanation: The result table of the SELECT or VALUES statement cannot be updated.

On the database manager, the result table is read-only if the cursor is based on a VALUES statement or the SELECT statement contains any of the following:

- The DISTINCT keyword
- A column function in the SELECT list
- A GROUP BY, HAVING, or ORDER BY clause
- A FROM clause that identifies one of the following:
 - More than one table or view
 - A read-only view
 - An OUTER clause with a typed table or typed view
 - A table or view that is also identified in the FROM clause of a subquery of the SELECT statement. (NOTE: This is only a restriction on version of DB2 prior to Version 2).
- A set operator (other than UNION ALL).

Note that these conditions do not apply to subqueries of the SELECT statement.

The statement cannot be processed.

User Response: Do not perform updates on the result table as specified.

Federated system users: isolate the problem to the data source failing the request (see the problem determination guide for procedures to follow to identify the failing data source). If a data source is failing the request, examine the restrictions for that data source to determine the cause of the problem and its solution. If the restriction exists on a data source, see the SQL reference manual for that data source to determine why the object is not updatable.

sqlcode: -511

sqlstate: 42829

SQL0513W **The SQL statement will modify an entire table or view.**

Explanation: The UPDATE or DELETE statement does not contain a WHERE clause so all rows of the table or view are modified if this statement is executed.

The statement is accepted.

Federated system users: not all data sources report this warning condition. The federated server attempts to issue this warning whenever the condition exists, but there is no guarantee that the federated server can always detect this condition. Do not rely on this warning to preclude UPDATE/DELETE operations from affecting an entire table or view.

User Response: Ensure that you intend to modify the entire table or view.

SQL0514N The cursor “<name>” is not in a prepared state.

Explanation: The application program tried to use a cursor “<name>” that is not in a prepared state. The cursor is associated with a statement that either (1) was never prepared, (2) was made not valid by a ROLLBACK, or (3) was made not valid by either an explicit or implicit rebind of the package.

The statement cannot be processed.

User Response: For case (1), prepare the statement named in the DECLARE CURSOR statement for “<name>” before you try to open the cursor. For case (2), do not issue a ROLLBACK until after you finish using the cursor. For case (3), the prepare for the cursor must be reissued.

sqlcode: -514

sqlstate: 26501

SQL0516N The DESCRIBE statement does not specify a prepared statement.

Explanation: The statement name in the DESCRIBE statement must specify a statement that was prepared in the same database transaction.

The statement cannot be processed.

User Response: Verify that the statement name specifies a statement that has been prepared.

sqlcode: -516

sqlstate: 26501

SQL0517N The cursor “<name>” identifies a prepared statement that is not a SELECT or VALUES statement.

Explanation: The cursor “<name>” could not be used as specified because the prepared statement named in the cursor declaration was not a SELECT or VALUES statement.

The statement cannot be processed.

User Response: Verify that the statement name is specified correctly in the PREPARE and the DECLARE CURSOR for cursor “<name>” statements. Or correct the program to ensure that only prepared SELECT or VALUES statements are used in association with cursor declarations.

sqlcode: -517

sqlstate: 07005

SQL0518N The statement named in the EXECUTE statement is not in a prepared state or is a SELECT or VALUES statement.

Explanation: The application program tried to EXECUTE a statement that (1) was never prepared, (2) was made not valid by a ROLLBACK, (3) is a SELECT or VALUES statement, or (4) was made not valid by either an explicit or implicit rebind of the package.

The statement cannot be processed.

User Response: For case (1), prepare the statement before attempting the EXECUTE. For case (2), either do not issue a ROLLBACK until after you finish using the prepared statement, or prepare the statement again after the ROLLBACK. For case (3), ensure that the statement is not a SELECT or VALUES statement. For case (4), the prepare for the cursor must be reissued.

sqlcode: -518

sqlstate: 07003

SQL0519N The PREPARE statement identifies the SELECT or VALUES statement of the open cursor "<name>".

Explanation: The application program attempted to prepare the SELECT or VALUES statement for the specified cursor when that cursor is already open.

The statement cannot be prepared. The cursor was not affected.

User Response: Correct the application program so it does not attempt to prepare the SELECT or VALUES statement for a cursor that is open.

sqlcode: -519

sqlstate: 24506

SQL0525N The SQL statement cannot be executed because it was in error at bind time for section = "<sectno>" package = "<pkgname>" consistency token = X"<contoken>".

Explanation: One of the following:

- The statement was in error when the package was bound, but the error was ignored then because the option SQLERROR (CONTINUE) was used. Since the statement contains an error, it cannot be executed.
- The statement might not be an executable statement at this location, or might only be executable by a DB2 application requester (for example, DECLARE TABLE in an application running on OS/2 causes this message).

The variables are:

sectno Section number

pkgname
locid.collid.pkgid

contoken
Consistency token in hexadecimal

The statement cannot be executed.

User Response: If the SQL statement is not supposed to execute at the indicated location,

then correct the program so that the statement in error does not execute at that location.

Precompile, compile, and bind replace the package. If the SQL statement is supposed to execute at the indicated location, correct the problem found when it was bound and bind the package over using BIND with ACTION(REPLACE). If multiple versions of the package have been bound, issue the following SELECT statement to determine which version has the error: SELECT VERSION FROM locid.SYSIBM.SYSPACKAGE WHERE LOCATION = ' ' AND COLLID = 'collid' AND NAME = 'pkgid' AND HEX(CONTOKEN) = 'contoken'

Where:

locid Location name

collid Collection id

pkgid Program name

sqlcode: -525

sqlstate: 51015

SQL0526N The requested function does not apply to global temporary tables.

Explanation: The SQL statement being executed refers to a temporary table. A temporary table cannot be used in the given context.

The statement cannot be processed.

User Response: Modify the SQL statement to ensure that the object references are not to temporary tables.

sqlcode: -526

sqlstate: 42995

SQL0528N The table "<tablename>" already has a unique constraint that is a duplicate of constraint "<name>".

Explanation: A UNIQUE clause uses the same column list as the PRIMARY KEY clause, another UNIQUE clause or the PRIMARY KEY or a UNIQUE constraint that already exists for the

table "<tablename>". Duplicate unique constraints are not allowed.

"<name>" is the constraint name, if one was specified or exists. If a constraint name is not specified, "<name>" is the first column name specified in the column list of the UNIQUE clause followed by three periods.

The statement cannot be processed.

User Response: Remove the duplicate UNIQUE clause or change the column list to a set of columns that is not already part of a unique constraint.

sqlcode: -528

sqlstate: 42891

SQL0530N The insert or update value of the FOREIGN KEY "<constraint-name>" is not equal to any value of the parent key of the parent table.

Explanation: A value in a foreign key of the object table is being set, but this value is not equal to any value of the parent key of the parent table.

When a row is inserted into a dependent table, the insert value of a foreign key must be equal to some value of the parent key of any row of the parent table of the associated relationship.

Similarly, when the value of a foreign key is updated, the update value of a foreign key must be equal to the value of the parent key of any row of the parent table of the associated relationship at the completion of the statement.

Federated system users: the constraint can exist on the data source (if the child and parent tables exist on the data source).

Some data sources do not provide the appropriate values for "<constraint name>". In these cases the message token will have the following format: "<data source>:UNKNOWN", indicating that the actual value for the specified data source is unknown.

The statement could not be executed. The contents of the object table are unchanged.

User Response: Examine the insert or update value of the foreign key first, and then compare it with each of the parent key values of the parent table to determine and correct the problem.

sqlcode: -530

sqlstate: 23503

SQL0531N The parent key in a parent row of relationship "<constraint-name>" cannot be updated.

Explanation: An operation attempted to update a parent key in the row of the parent table but the parent key in the specified row has dependent rows in the dependent table associated with it in the "<constraint-name>" constraint.

When the update rule of constraint "<constraint-name>" is NO ACTION, the value of a parent key in a parent row cannot be updated if the parent row has any dependent rows at the completion of the statement.

When the update rule of constraint "<constraint-name>" is RESTRICT, the value of a parent key in a parent row cannot be updated if the parent row has any dependent rows at the time the update of the parent key is attempted.

Federated system users: the constraint can exist on the data source (if the child and parent tables exist on the data source).

Some data sources do not provide the appropriate values for "<constraint name>". In these cases the message token will have the following format: "<data source>:UNKNOWN", indicating that the actual value for the specified data source is unknown.

The statement could not be executed. The contents of the parent table are unchanged.

User Response: Examine the parent key of the object table and the foreign key of the dependent table to determine if the value of the specified row of the parent key should be changed. If this does not show the problem, examine the contents of the object table and the dependent table to determine and correct the problem.

sqlcode: -531

sqlstate: 23001, 23504

SQL0532N **A parent row cannot be deleted because the relationship “<constraint-name>” restricts the deletion.**

Explanation: An operation attempted to delete a specified row of the parent table but the parent key in the specified row has dependent rows in the referential constraint “<constraint-name>” and the delete rule of NO ACTION or RESTRICT is specified for the relationship.

When the delete rule of constraint “<constraint-name>” is NO ACTION, a row of the parent table cannot be deleted if the dependent rows are still dependent on the parent key at the completion of the statement.

When the delete rule of constraint “<constraint-name>” is RESTRICT, a row of the parent table cannot be deleted if the parent row has any dependent rows at the time of the delete.

Note that a delete can cascade to delete other rows in dependent tables that have a delete rule of NO ACTION or RESTRICT. Thus the constraint “<constraint-name>” may be on a different table than the original delete operation.

Federated system users: the constraint can exist on the data source (if the child and parent tables exist on the data source).

Some data sources do not provide the appropriate values for “<constraint name>”. In these cases the appropriate fields contain values (such as “unknown”) that indicate that the actual value is unknown.

The statement could not be executed. The contents of the table are unchanged.

User Response: Examine the delete rule for all descendent tables to determine and correct the problem. The specific tables involved can be determined from the relationship “<constraint-name>”.

sqlcode: -532

sqlstate: 23001, 23504

SQL0533N **The INSERT statement is not valid because a relationship restricts the result of the fullselect to one row.**

Explanation: An INSERT operation with a fullselect attempted to insert multiple rows into a table that is a parent and a dependent in the same relationship of a referential constraint.

The fullselect of the INSERT operation should return no more than one row of data.

The INSERT statement could not be executed. The contents of the object table are unchanged.

Federated system users: the constraint can exist on the data source (if the child and parent tables exist on the data source).

User Response: Examine the search condition of the fullselect to ensure selection of no more than one row of data.

sqlcode: -533

sqlstate: 21501

SQL0534N **Invalid multiple-row update.**

Explanation: An UPDATE operation attempted to perform a multiple-row update of a column included in a primary key or unique index.

Multiple-row updates of columns of a primary key or unique index are not supported.

The UPDATE statement could not be executed. The contents of the table are unchanged.

Federated system users: the constraint can exist on federated server (if the child and parent tables exist as tables on federated server), or it can exist on the data source (if the child and parent tables exist on the data source).

User Response: Ensure the search condition of the UPDATE statement selects only one object table row to update.

sqlcode: -534

sqlstate: 21502

SQL0535N The DELETE statement is not valid because a self-referencing relationship restricts the deletion to one row.

Explanation: A DELETE operation with a WHERE clause attempted to delete multiple rows from a table which is a parent and a dependent in the same relationship of a referential constraint with a RESTRICT or SET NULL delete rule.

The WHERE clause of the DELETE operation should select no more than one row of data.

The DELETE statement could not be executed. The contents of the object table are unchanged.

Federated system users: the constraint can exist on the data source (if the child and parent tables exist on the data source).

User Response: Examine the WHERE clause search condition to ensure no more than one row of data is selected.

NOTE: This is only a restriction in releases of DB2 prior to Version 2.

sqlcode: -535

sqlstate: 21504

SQL0536N The DELETE statement is not valid because table “<name>” can be affected by the operation.

Explanation: A DELETE operation was attempted with the indicated table referenced in a subquery.

The indicated table referenced in a subquery of the DELETE statement can be affected because it is either:

- A dependent of the DELETE object table in a relationship with a CASCADE or SET NULL delete rule.
- A dependent of another table in a relationship with a CASCADE or SET NULL delete rule and deletions from the DELETE object table can cascade to that table.

Federated system users: the constraint can exist on the data source (if the child and parent tables exist on the data source).

Some data sources do not provide the appropriate values for “<name>”. In these cases the appropriate fields contain values (such as “unknown”) that indicate that the actual value is unknown.

The statement could not be processed.

User Response: Do not reference a table in a DELETE statement subquery when the table can be affected by the DELETE statement.

NOTE: This error is only applicable to releases of DB2 prior to Version 2 and hosts accessed through DB2 Connect.

sqlcode: -536

sqlstate: 42914

SQL0537N The PRIMARY KEY clause, a FOREIGN KEY clause, a UNIQUE clause, or a PARTITIONING KEY clause identifies column “<name>” more than once.

Explanation: The column “<name>” appears more than once in a PRIMARY KEY clause, FOREIGN KEY clause, UNIQUE clause or PARTITIONING KEY clause of a CREATE or ALTER statement.

Federated system users: the constraint can exist on the data source (if the child and parent tables exist on the data source).

Some data sources do not provide the appropriate values for “<name>”. In these cases the appropriate fields contain values (such as “unknown”) that indicate that the actual value is unknown.

The statement cannot be processed.

User Response: Specify unique names for each column.

sqlcode: -537

sqlstate: 42709

SQL0538N FOREIGN KEY “<name>” does not conform to the description of the parent key of table “<table-name>”.

Explanation: The definition of the indicated foreign key does not conform to the parent key description of the table “<table-name>”.

Possible errors are:

- The number of columns in the foreign key column list does not match the number of columns in the parent key column list.
- The number of columns in the foreign key column list does not match the number of columns in the primary key of the parent table (a parent key column list is not specified).
- The descriptions of the corresponding columns are not compatible. Column descriptions are compatible if corresponding columns have compatible data types (both columns are numeric, character strings, graphic, date/time, or have the same distinct type).

“<name>” is the constraint name if specified in the FOREIGN KEY clause. If a constraint name was not specified, “<name>” is the first column name specified in the clause followed by three periods.

Federated system users: some data sources do not provide the appropriate values for “<name>” and “<table-name>”. In these cases the appropriate fields contain values (such as “unknown”) that indicate that the actual value is unknown.

The constraint can exist the data source (if the child and parent tables exist on the data source).

The statement cannot be processed.

User Response: Correct the statement so the foreign key description conforms to the parent key description.

sqlcode: -538

sqlstate: 42830

SQL0539N Table “<name>” does not have a “<key-type>” key.

Explanation: One of the following occurred:

- The table “<name>” was specified as a parent in a FOREIGN KEY clause but the table is not defined as a parent because it does not have a primary key.
- The ALTER TABLE statement attempted to drop the primary key for the table “<name>” but the table does not have a primary key.
- The ALTER TABLE statement attempted to drop the partitioning key for the table “<name>” but the table does not have a partitioning key.

Federated system users: the constraint can exist on the data source (if the child and parent tables exist on the data source).

Some data sources do not provide the appropriate values for “<name>” and “<key-type>”. In these cases the appropriate fields contain values (such as “unknown”) that indicate that the actual value is unknown.

The statement cannot be processed. A system catalog cannot be defined as a parent in a referential constraint.

User Response: When creating a referential constraint, specify the primary key before specifying any foreign keys (constraints).

sqlcode: -539

sqlstate: 42888

SQL0540N The definition of table “<table-name>” is incomplete because it lacks a primary index or a required unique index.

Explanation: The table named was defined with a PRIMARY KEY clause or a UNIQUE clause. Its definition is incomplete, and it cannot be used until a unique index is defined for the primary key (the primary index) and for each set of columns in any UNIQUE clause (the required unique indexes). An attempt was made to use

the table in a FOREIGN KEY clause or in an SQL manipulative statement.

The statement cannot be executed.

User Response: Define a primary index or a required unique index on the table before referencing it.

sqlcode: -540

sqlstate: 57001

SQL0541W The referential, primary key, or unique constraint “<name>” is ignored because it is a duplicate constraint.

Explanation: If “<name>” refers to a referential constraint, then a FOREIGN KEY clause uses the same foreign key and parent table as another FOREIGN KEY clause.

If “<name>” refers to a primary key or unique constraint, then one of the following situations exists.

- A PRIMARY KEY clause uses the same set of columns as a UNIQUE clause in the statement.
- A UNIQUE clause uses the same set of columns as the PRIMARY KEY clause or another UNIQUE clause in the statement.
- A PRIMARY KEY or a UNIQUE constraint on the same set of columns already exists for the table “<tablename>”.

“<name>” is the constraint name, if specified. If a constraint name was not specified, “<name>” is the first column name specified in the column list of the FOREIGN KEY or UNIQUE clause followed by three periods.

Federated system users: the constraint can exist on the data source (if the child and parent tables exist on the data source).

Some data sources do not provide the appropriate values for “<name>”. In these cases the appropriate fields contain values (such as “unknown”) that indicate that the actual value is unknown.

The indicated referential constraint or unique constraint was not created. The statement was processed successfully.

User Response: No action is required. Processing can continue.

sqlcode: +541

sqlstate: 01543

SQL0542N “<name>” cannot be a column of a primary key or unique key because it can contain null values.

Explanation: The column “<name>” identified in a PRIMARY KEY clause or UNIQUE clause is defined to allow null values.

Federated system users: some data sources do not provide the appropriate values for “<name>”. In these cases the appropriate fields contain values (such as “unknown”) that indicate that the actual value is unknown.

The statement cannot be processed.

User Response: Correct the column, primary key or unique key definition.

sqlcode: -542

sqlstate: 42831

SQL0543N A row in a parent table cannot be deleted because the check constraint “<constraint-name>” restricts the deletion.

Explanation: The delete operation cannot be executed because the target table is a parent table and is connected with a referential constraint to a dependent table with a delete rule of SET NULL. However, a check constraint defined on the dependent table restricts the column from containing a null value.

The statement cannot be processed.

User Response: Examine the foreign key and its delete rule in the dependent table and the conflicting check constraint. Change either the delete rule or the check constraint so that they do not conflict with each other.

sqlcode: -543

sqlstate: 23511

**SQL0544N The check constraint
 “<constraint-name>” cannot be
 added because the table contains
 a row that violates the constraint.**

Explanation: At least one existing row in the table violates the check constraint that is be added in the ALTER TABLE statement.

The statement cannot be processed.

User Response: Examine the check constraint definition that was specified in the ALTER TABLE statement and the data in the table to determine why there is a violation of the constraint. Change either the check constraint or the data so that the constraint is not violated.

sqlcode: -544

sqlstate: 23512

**SQL0545N The requested operation is not
 allowed because a row does not
 satisfy the check constraint
 “<constraint-name>”.**

Explanation: Check constraint violations can occur on either INSERT or UPDATE operations. The resulting row violated the check constraint definition on that table.

The statement cannot be processed.

User Response: Examine the data and the check constraint definition in the catalog view SYSCAT.CHECKS to determine why the INSERT or UPDATE statement failed. Change the data so that the constraint is not violated.

sqlcode: -545

sqlstate: 23513

**SQL0546N The check constraint
 “<constraint-name>” is invalid.**

Explanation: A check constraint in the CREATE TABLE or ALTER TABLE statement is invalid for one or more of the following reasons:

- the constraint definition contains a subquery
- the constraint definition contains a column function
- the constraint definition contains a host variable
- the constraint definition contains a parameter marker
- the constraint definition contains a special register
- the constraint definition contains a variant user defined function
- the constraint definition contains a user defined function with external action
- the constraint definition contains a user defined function with the scratchpad option
- the check constraint is part of a column definition, and its check-condition contains a reference to a column name other than the column being defined.
- the constraint definition contains a dereference operation or a Deref function.

The statement cannot be processed.

User Response: The user response is one of the following, depending on the cause of the error:

- change the check constraint so that it does not include the listed item.
- move the check constraint definition outside the column definition, so that it becomes a table level constraint definition.

sqlcode: -546

sqlstate: 42621

**SQL0548N A check constraint that is defined
 with “<check-condition-element>”
 is invalid.**

Explanation: A check constraint in the CREATE TABLE or ALTER TABLE statement is invalid for one or more of the following reasons:

- the constraint definition contains a subquery
- the constraint definition contains a column function

- the constraint definition contains a host variable
- the constraint definition contains a parameter marker
- the constraint definition contains a special register
- the constraint definition contains a variant user defined function
- the constraint definition contains a user defined function with external action
- the constraint definition contains a user defined function with the scratchpad option
- the check constraint is part of a column definition, and its check-condition contains a reference to a column name other than the column being defined
- the constraint definition contains a dereference operation or a DEREf function.

The token within the text of the error message lists the invalid item.

The statement cannot be processed.

User Response: The user response is one of the following, depending on the cause of the error:

- change the check constraint so that it does not include the listed item.
- move the check constraint definition outside the column definition, so that it becomes a table level constraint definition.

sqlcode: -548

sqlstate: 42621.

SQL0549N The “<statement>” statement is not allowed for “<object-type1 >” “<object-name1>” because the bind option DYNAMICRULES(BIND) in the “<object-type2>” is in effect.

Explanation: A program attempted to issue the indicated SQL statement that is one of several SQL statements that cannot be issued from a package or plan for which the option

DYNAMICRULES(BIND) is in effect. Those SQL statements are:

- Dynamic GRANT statement
- Dynamic REVOKE statement
- Dynamic ALTER statement
- Dynamic CREATE statement
- Dynamic DROP statement
- Static or dynamic SET CURRENT SCHEMA statement.

“<statement>”

The SQL statement in error

“<object-type1>”

PACKAGE or DBRM. DBRM is valid only in a DRDA connection.

“<object-name1>”

If “<object-type1>” is PACKAGE, “<object-name1>” is the name of the package in the format 'location-id.collection-id.package-id'. If “<object-type1>” is DBRM, “<object-name1>” is the name of the DBRM in the format 'plan-name DBRM-name'.

“<object-type2>”

PACKAGE or PLAN. PLAN is valid only in a DRDA connection. If “<object-type1>” is PACKAGE, “<object-type2>” can be either PACKAGE or PLAN (whichever is bound with DYNAMICRULES(BIND)). If “<object-type1>” is DBRM, “<object-type2>” is PLAN.

The SQL statement cannot be executed.

User Response: Do one of the following to correct the error:

- If the SQL statement is embedded, remove it, precompile and compile the application program again, and reissue the BIND command with the DYNAMICRULES(BIND) option.
- If appropriate, use the SQL statement with a package or plan that is bound with DYNAMICRULES(RUN).

- Issue the REBIND command with the DYNAMICRULES(RUN) option for the plan or package to which the SQL statement is bound.

sqlcode: -549

sqlstate: 42509

SQL0551N “<authorization-ID>” does not have the privilege to perform operation “<operation>” on object “<name>”.

Explanation: Authorization ID “<authorization-ID>” attempted to perform the specified “<operation>” on “<name>” without the proper authorization.

If creating or altering a table with referential constraints, this message (SQLCODE) can indicate that the user does not have the REFERENCES privilege to create or drop a FOREIGN KEY. In this case the “<operation>” is “REFERENCES” and the “<name>” is the object the constraint references.

If attempting to run a DB2 utility or CLI application, the DB2 utility programs may need to be rebound to the database because the userid who created the database no longer exists or no longer has the required privileges.

Federated system users: if this message is returned when the user is changing the remote_pw column of the SYSCAT.USEROPTIONS view, the user is not authorized to change a password for another user. The user performing the alter operation must have either SYSADM authority or an authorization ID (the value in the USER special register) that matches the value of the authid column in the rows being updated. Some data sources do not provide the appropriate values for “<authid>”, “<operation>”, and “<name>”. In these cases the message tokens will have the following format: “<data source> AUTHID:UNKNOWN”, “UNKNOWN”, and “<data source>:TABLE/VIEW”, indicating that the actual values for the authid, operation, and name at the specified data source are not known.

The statement cannot be processed.

User Response: Ensure that “<authorization-ID>” has the authorization necessary to perform the operation.

Federated system users: this authorization can be at the federated server, the data source, or both.

If the DB2 utility programs need to be rebound to the database, the database administrator can accomplish this by issuing one of the following CLP command from the bnd subdirectory of the instance, while connected to the database:

- “DB2 bind @db2ubind.lst blocking all grant public” for the DB2 utilities.
- “DB2 bind @db2cli.lst blocking all grant public” for CLI.

sqlcode: -551

sqlstate: 42501

SQL0552N “<authorization-ID>” does not have the privilege to perform operation “<operation>”.

Explanation: Authorization ID “<authorization-ID>” attempted to perform the specified “<operation>” without the proper authorization.

Federated system users: some data sources do not provide the appropriate values for “<authorization-ID>” and “<operation>”. In these cases the message tokens will have the following format: “<data source> AUTHID:UNKNOWN”, and “UNKNOWN” indicating that the actual values for authid and operation at the specified data source are not known.

The statement cannot be processed.

User Response: Ensure that “<authorization-ID>” has the authorization to perform the operation.

Federated system users: this authorization can be at the federated server, the data source, or both.

sqlcode: -552

sqlstate: 42502

SQL0553N **An object cannot be created with the schema name “<schema-name>”.**

Explanation: The reason the schema name “<schema-name>” is invalid depends on the type of object that is being created.

- Objects of types that existed in releases prior to DB2 Version 2 (tables, views, indexes and packages) cannot be created with the schema name SYSCAT, SYSFUN, SYSSTAT or SYSIBM. It is strongly advised that schema names should not start with SYS since additional schemas starting with these letters may be reserved for exclusive use of DB2 in the future.
- Objects of types that are being introduced starting with DB2 Version 2 (user defined functions, distinct types, triggers, schemata, and aliases) cannot be created with any schema name that starts with the letters SYS.

The statement cannot be processed.

User Response: Use a valid schema name or remove the explicit schema name and rerun the statement.

sqlcode: -553

sqlstate: 42939

SQL0554N **An authorization ID cannot grant a privilege to itself.**

Explanation: An authorization ID attempted to execute a GRANT statement where the authorization ID itself appears as one of the entries in the authorization ID list to which privileges are to be granted.

The statement cannot be processed.

User Response: Remove the authorization ID from the list.

sqlcode: -554

sqlstate: 42502

SQL0555N **An authorization ID cannot revoke a privilege from itself.**

Explanation: An authorization ID attempted to execute a REVOKE statement where the authorization ID itself appears as one of the entries in the authorization ID list from which privileges are to be revoked.

The statement cannot be processed.

User Response: Remove the authorization ID from the list.

sqlcode: -555

sqlstate: 42502

SQL0556N **An attempt to revoke a privilege from “<authorization-ID>” was denied because “<authorization-ID>” does not hold this privilege.**

Explanation: The privilege cannot be revoked because “<authorization-ID>” does not hold the privilege.

The statement cannot be processed.

User Response: Change the REVOKE statement to conform to the REVOKE rules and resubmit the statement. Ensure that when a REVOKE statement lists several privileges to be revoked and a list of authorization IDs that each authorization ID possesses at least one of the specified privileges.

sqlcode: -556

sqlstate: 42504

SQL0557N **The specified combination of privileges cannot be granted or revoked.**

Explanation: One of the following occurred:

- The GRANT or REVOKE statement contains a combination of privileges that are of different classes. The privileges must all be of one class. Examples are DATABASE, PLAN, or TABLE.

- The GRANT statement attempted to grant a privilege for a view that is not allowed. ALTER, INDEX and REFERENCES cannot be granted for a view.

The statement cannot be processed.

User Response: Correct and resubmit the statement.

sqlcode: -557

sqlstate: 42852

SQL0558N An attempt to revoke a privilege from "<authorization-ID>" was denied because "<authorization-ID>" would still hold "<control>" authority.

Explanation: "<authorization-ID>" holds the "<control>" privilege. The privilege to be revoked is implicit in the "<control>" privilege, so it cannot be revoked unless the "<control>" privilege is also revoked.

The valid values for "<control>" are the following:

- DBADM
- CONTROL

The statement cannot be executed. No privileges are revoked.

User Response: Revoke the "<control>" privilege, if desired.

sqlcode: -558

sqlstate: 42504

SQL0562N The specified database privileges cannot be granted to PUBLIC (public).

Explanation: The GRANT statement attempted to grant a database privilege to the reserved authorization ID PUBLIC (public). DBADM authority cannot be granted to PUBLIC (public).

The statement cannot be processed.

User Response: The implied function is not supported.

sqlcode: -562

sqlstate: 42508

SQL0567N "<authorization-ID>" is not a valid authorization ID.

Explanation: The authorization ID specified by "<authorization-ID>" is not valid for one of the following reasons:

- It begins with "SYS", "sys", "IBM", "ibm", "SQL", or "sql".
- It contains characters other than a through z, A through Z, 0 through 9, and the three special characters (#,@,\$).
- It is delimited and contains lower case letters.
- It is GUESTS, ADMINS, USERS, or LOCAL.
- It is PUBLIC preceded by the keyword USER or GROUP in a GRANT or REVOKE statement.

The statement cannot be processed.

User Response: Correct the invalid authorization ID.

sqlcode: -567

sqlstate: 42602

SQL0569N The GRANT/REVOKE statement failed because "<authorization-name>" may identify both a user and a group in the system.

Explanation: The GRANT or REVOKE statement specified an authorization name that may identify both a user and a group in the security namespace, and did not explicitly specify the USER or GROUP keyword in the statement. The statement is therefore ambiguous. Note that when using DCE security, the USER or GROUP keyword is always required.

User Response: Change the statement to explicitly specify the USER or GROUP keyword

to uniquely identify the required authorization id.

sqlcode: -569

sqlstate: 56092

SQL0570W Not all requested privileges on object "<object-name>" of type "<object-type>" were granted.

Explanation: A GRANT operation was attempted on object "<object-name>" of type "<object-type>", but some or all of the privileges were not granted. The authorization ID that issued the statement does not have all of the privileges to be granted with grant option or does not have DBADM authority.

All valid requested privileges were granted.

User Response: Obtain the required authority and try the the operation again.

sqlcode: +570

sqlstate: 01007

SQL0572N Package "<pkgname>" is inoperative.

Explanation: The package "<pkgname>" is marked as inoperative and must be explicitly rebound before it can be used. This package cannot be used because one or more user-defined functions that it depends upon have been dropped.

User Response: Explicitly rebind the named package using either the REBIND or the BIND command.

sqlcode: -572

sqlstate: 51028

SQL0573N A column list specified in the references clause of constraint "<name>" does not identify a unique constraint of the parent table "<table-name>".

Explanation: A list of column names was specified in the references clause for the

constraint identified by "<name>" that does not match the column names of the primary key or any unique key of the referenced table "<table-name>".

"<name>" is the constraint name, if specified. If a constraint name was not specified, "<name>" is the first column name specified in the column list of the FOREIGN KEY clause followed by three periods.

The statement cannot be processed.

User Response: Correct the column list in the references clause or add the unique constraint to the referenced table.

sqlcode: -573

sqlstate: 42890

SQL0574N DEFAULT value is not valid for column "<column-name>" in table "<table-name>". Reason code: "<reason-code>".

Explanation: The DEFAULT value for column "<column-name>" in table "<table-name>" is not valid. The possible reason codes are as follows:

- 1 The value is not assignable to the column because the constant does not conform to the format for a constant of that data type, the value has an incorrect length or precision, or the function returns an incorrect data type.
- 2 A floating-point constant is specified and the column is not a floating point data type
- 3 A decimal constant is specified and non-zero digits would be truncated when assigned to the column
- 4 The value is more than 254 bytes, including quotes for strings, introducer characters such as the X for a hex constant, fully qualified function names, and parentheses. Non-significant blanks in the value are ignored. In an unequal code page environment, the value may

be more than 254 bytes due to expansion of the string in the database code page.

- 5 The USER special register is specified and the length attribute of the character string data type is less than 8.
- 6 A datetime special register (CURRENT DATE, CURRENT TIME, or CURRENT TIMESTAMP) is specified and does not match the data type of the column.
- 7 A function was specified that is not supported. The specified function must be system-generated cast function or one of the built-in functions BLOB, DATE, TIME, or TIMESTAMP.
- 8 The argument to a datetime function was not a character string constant or the corresponding datetime special register.
- 9 A system-generated cast function was specified and the column is not defined with a user-defined distinct type.
- <0 Any reason code that is less than zero is an SQLCODE. The error in the DEFAULT value specification can be determined by checking the error message corresponding to this SQLCODE.

The statement cannot be processed.

User Response: Correct the DEFAULT value based on the reason code that was returned.

sqlcode: -574

sqlstate: 42894

SQL0575N View or summary table “<name>” cannot be used because it has been marked inoperative.

Explanation: The view or summary table “<name>” has been marked inoperative because a table, view, alias, or privilege upon which it is dependent has been removed. The view cannot be used by any SQL statement other than one of the following:

- COMMENT ON
- DROP VIEW or DROP TABLE
- CREATE ALIAS
- CREATE VIEW or CREATE TABLE

The statement cannot be processed.

User Response: If “<name>” is a view, recreate the view by issuing a CREATE VIEW statement using the same view definition as the inoperative view. If “<name>” is a summary table, recreate the summary table by issuing the CREATE TABLE statement using the same summary table definition as in the inoperative summary table.

sqlcode: -575

sqlstate: 51024

SQL0576N Alias “<name>” cannot be created for “<name2>” as it would result in a repetitive alias chain.

Explanation: The alias definition of “<name>” on “<name2>” would have resulted in a repetitive alias chain which could never be resolved. For example, “alias A refers to alias B which refers to alias A” is a repetitive alias chain which could never be resolved.

The statement cannot be processed.

User Response: Change the alias definition for “<name>” or revise the definition of one of the other alias definitions in the alias chain to avoid a repetitive chain.

sqlcode: -576

sqlstate: 42916

SQL0577N User defined function or procedure “<function-name>” (specific name “<specific-name>”) attempted to modify data but was not defined as MODIFIES SQL DATA.

Explanation: The program used to implement the body of a user defined function or procedure is not allowed to modify SQL data.

User Response: Remove any SQL statements

that modify data then recompile the program. For stored procedures, investigate the level of SQL allowed as specified on the CREATE PROCEDURE statement.

sqlcode: -577

sqlstate: 38002

SQL0579N **User defined function or procedure “<function-name>” (specific name “<specific-name>”) attempted to read data but was not defined as READ SQL DATA or MODIFIES SQL DATA.**

Explanation: The program used to implement the body of a user defined function or procedure is not allowed to read SQL data.

User Response: Remove any SQL statements that read data then recompile the program. For stored procedures, investigate the level of SQL allowed as specified on the CREATE PROCEDURE statement.

sqlcode: -579

sqlstate: 38004

SQL0580N **The result-expressions of a CASE expression cannot all be NULL.**

Explanation: There is a CASE expression in the statement that has all the result-expressions (expressions following THEN and ELSE keywords) coded with the keyword NULL.

The statement cannot be processed.

User Response: Change the CASE expression to include at least one result-expression that is other than the keyword NULL.

sqlcode: -580

sqlstate: 42625

SQL0581N **The data types of the result-expressions of a CASE expression are not compatible.**

Explanation: There is a CASE expression in the statement that has result-expressions (expressions

following THEN and ELSE keywords) that are not compatible.

The data type of a CASE expression is determined using the “Rules for Result Data Types” on the result-expressions. The data types of the result-expressions may be incompatible for one of the following reasons:

- they are not all character data types
- they are not all numeric data types
- They are not all date data types
- They are not all time data types
- They are not all timestamp data types
- They are not all the same user-defined distinct data types

The statement cannot be processed.

User Response: Correct the result-expressions so that they are compatible.

sqlcode: -581

sqlstate: 42804

SQL0582N **A CASE expression in a VALUES clause, IN predicate, GROUP BY clause, or ORDER BY clause cannot include a quantified predicate, an IN predicate using a fullselect, or an EXISTS predicate.**

Explanation: A search condition of a CASE expression is:

- a quantified predicate (one using SOME, ANY, or ALL),
- an IN predicate using a fullselect or
- an EXISTS predicate

and the CASE expression is part of:

- a VALUES clause
- an IN predicate
- a GROUP BY clause or
- an ORDER BY clause.

Such CASE expressions are not supported. The CASE expression may be part of a function written in SQL.

The statement cannot be processed.

User Response: Remove the use of the quantified predicate, IN predicate, or EXISTS predicate from the CASE expression. If the CASE expression is part of a function, the query may need to be written without the function that causes the error.

sqlcode: -582

sqlstate: 42625

SQL0583N The use of function “<function-name>” is invalid because it is variant or has an external action.

Explanation: The function “<function-name>” is defined as a variant function or a function with an external action. This type of function is not supported in the context in which it is used. The contexts in which these are not valid are:

- as the first operand of a BETWEEN predicate
- in the expression prior to the first WHEN keyword in a simple-case-expression.
- in an expression of a GROUP BY clause
- in an expression of an ORDER BY clause (external action only)

The statement cannot be processed.

User Response: If the use of a variant or external action function was not intended, substitute a function without these characteristics. If the behaviour associated with the variant or external action function is intentional, use the alternate form of the statements that make that intent explicit.

- Instead of the BETWEEN predicate, use the corresponding statement using the equivalent combination of comparison predicates (a>=b and a<=c instead of a between b and c).
- Instead of a simple-when-clause, use the corresponding searched-when-clause where the function would get specified in each search-condition.
- Remove the variant or external action function from the GROUP BY clause. If grouping is desired on a column of the result that is based

on a variant or external action function use a nested table expression or a common table expression to first provide a result table with the expression as a column of the result.

- Remove the external action function from the ORDER BY clause. If the column is part of the result set of the query, change the expression in the ORDER BY clause to the simple-integer or simple-column-name form of the sort key.

sqlcode: -583

sqlstate: 42845

SQL0584N Invalid use of NULL or DEFAULT.

Explanation: DEFAULT can only be used in a VALUES clause that is part of an INSERT statement.

A VALUES clause that is not part of an INSERT statement must have a value other than NULL in at least one row for each column.

If DEFAULT is used as a column-name in a WHERE or HAVING clause, it must be capitalized and enclosed in double quotes.

Federated system users: DEFAULT can not be used in a VALUES clause of an INSERT statement where the object is a nickname.

User Response: Substitute a value other than NULL or DEFAULT in the VALUES clause. If DEFAULT is used as a column-name, capitalize it and enclose it in double quotes.

sqlcode: -584

sqlstate: 42608

SQL0585N The schema name “<schema-name>” can not appear more than once in the function path.

Explanation: The function path includes “<schema-name>” more than once. The function path can only include one occurrence of each schema name.

The statement cannot be processed.

User Response: Remove duplicate occurrences of "<schema-name>" from the function path.

sqlcode: -585

sqlstate: 42732

SQL0586N The total length of the CURRENT FUNCTION PATH special register cannot exceed 254 characters.

Explanation: The CURRENT FUNCTION PATH special register is defined as a VARCHAR(254). The content of the string includes each schema name delimited with double quotes and separated from the next schema name by a comma. The total length of the string of all schema names in the CURRENT FUNCTION PATH cannot exceed 254 characters. The SET CURRENT FUNCTION PATH statement or the FUNCPATH option of the PREP or BIND command causing this message would exceed this limit.

The statement or command cannot be processed.

User Response: Remove schema names to reduce the total length to fit the 254 character maximum length. If all the schema names are required, it may be necessary to consolidate some user-defined functions so that less schema names are required on the CURRENT FUNCTION PATH.

sqlcode: -586

sqlstate: 42907

SQL0595W Isolation level "<requested-level>" has been escalated to "<escalated-level>".

Explanation: The isolation level specified is not supported by DB2. It has been escalated to the next higher level of isolation supported by DB2.

User Response: To avoid this warning, specify an isolation level which is supported by DB2. DB2 supports isolation levels Repeatable Read

(RR), Read Stability (RS), Cursor Stability (CS), and Uncommitted Read (UR).

sqlcode: +595

sqlstate: 01526

SQL0598W Existing index "<name>" is used as the index for the primary key or a unique key.

Explanation: An index was required for an ALTER TABLE operation that defined a primary key or a unique key, and the indicated index matches the required index.

When creating a primary key or unique key index, an index description matches if it identifies the same set of columns (in any order) as the primary or unique key without regard to ascending or descending specifications, and is specified as unique.

The statement is processed successfully.

User Response: No action is required.

sqlcode: +598

sqlstate: 01550

SQL0599W Comparison functions are not created for a distinct type based on a long string data type.

Explanation: Comparison functions are not created for a distinct type based on a long string data type (BLOB, CLOB, DBCLOB, LONG VARCHAR, or LONG VARGRAPHIC) since the corresponding functions are not available for these built-in data types.

This is a warning situation. The statement is processed successfully.

User Response: No action is required.

sqlcode: +599

sqlstate: 01596

SQL0600 - SQL0699

SQL0600N **A function “<function-name>” could not be generated because of a duplicate signature.**

Explanation: During the CREATE or ALTER operation, a system-generated cast function, observer, mutator, or constructor could not be created because another function with the same name and signature already exists in the schema.

User Response: Choose another name for the user-defined type, attribute, or cast function that causes the conflict, or drop the function with the same name as the function that could not be generated.

sqlcode: -600

sqlstate: 42710

SQL0601N **The name of the object to be created is identical to the existing name “<name>” of type “<type>”.**

Explanation: The CREATE or ALTER statement tried to create or add an object “<name>” when an object of type “<type>” already exists with that name on the application server or in the same statement.

If “<type>” is FOREIGN KEY, PRIMARY KEY, UNIQUE, or CHECK CONSTRAINT, the “<name>” is the constraint name specified in the CREATE or ALTER TABLE statement or generated by the system.

Federated system users: some data sources do not provide the appropriate values for the “<name>” and “<type>” message tokens. In these cases, “<name>” and “<type>” will have the following format: “OBJECT:<data source> TABLE/VIEW”, and “UNKNOWN” indicating that the actual values at the specified data source are not known.

The statement cannot be processed. No new object is created, and the existing object is not altered or modified.

User Response: Either drop the existing object or choose another name for the new object.

Federated system users: if the statement is a CREATE FUNCTION MAPPING or a CREATE

TYPE MAPPING statement, the user can also consider not supplying a type mapping name and the system will automatically generate a unique name for this mapping.

sqlcode: -601

sqlstate: 42710

SQL0602N **The CREATE INDEX statement specifies too many columns (16 is the maximum).**

Explanation: The number of columns for the index that would be generated by the CREATE INDEX statement exceeds the maximum of 16 columns for the database manager. If the index is defined on a typed table, there is additional overhead that reduces the maximum number of specified columns to 15.

Federated system users: the limit for other data sources is different. That limit could have been exceeded. This problem may be detected on the federated server, or it may be detected on the data source.

The statement cannot be processed.

User Response: Change the index definition to conform to the column limit of 16.

Federated system users: change the index definition to conform to the column limit for the data source.

sqlcode: -602

sqlstate: 54008

SQL0603N **A unique index cannot be created because the table contains rows which are duplicates with respect to the values of the identified columns.**

Explanation: The index defined in the CREATE INDEX statement could not be created as unique, because the specified table already contains rows that duplicate the values of the identified columns.

Federated system users: this situation may also be detected by the data source.

The statement cannot be processed. The specified index is not created.

User Response: Examine the data to determine if the duplicate data is permitted. Alternatively, consider creating a non-UNIQUE index.

sqlcode: -603

sqlstate: 23515

SQL0604N The length, precision, or scale attribute for column, distinct type, function, or type mapping "<data-item>" is not valid.

Explanation: There is an error in the data type specification in a CREATE or ALTER statement, or a CAST specification. An invalid length, precision or scale attribute may have been specified, or it may be that the data type itself is incorrect or not permitted in this context. The location of the error is given by "<data-item>" as follows:

- for a CREATE or ALTER TABLE statement, "<data-item>" gives the name of the column containing the error or the data type containing an error.
- for a CREATE FUNCTION statement, "<data-item>" is a token that identifies the area of the problem in the statement. For example, "PARAMETER 2" or "RETURNS" or "CAST FROM". In some cases, it may also be the data type containing the error.
- for a CREATE DISTINCT TYPE statement, "<data-item>" gives the name of the type being defined or the source data type containing the error.
- for CAST(expression AS data-type), "<data-item>" is "CAST" or the data type containing the error.

Federated system users: if the statement is a CREATE TYPE MAPPING statement, an attempt was made to create a type mapping where a type attribute for either the local data type or the remote data type is not valid. Possible reasons include:

- The local length/precision is set to 0 or a negative value.

- The length/precision attribute is specified for data types such as date/time/timestamp, float, or integer.
- The scale attribute is specified for data types such as character, date/time/timestamp, float, or integer.
- The FOR BIT DATA clause is specified for a non-character type.
- The remote precision is set to 0 for remote types other than Informix datetime.
- An invalid field qualifier is being used in a type mapping for an Informix datetime type.
- An ending value is lower than the starting value in a precision/scale range.

The statement cannot be processed.

User Response: Correct the syntax and try again.

sqlcode: -604

sqlstate: 42611

SQL0605W The index was not created because the index "<name>" already exists with the required description.

Explanation: A CREATE INDEX operation attempted to create a new index and the indicated index matches the required index.

For CREATE INDEX, two index descriptions match if they identify the same columns in the same order with the same ascending or descending specifications, and are both specified as unique or the new index is specified as non-unique. Also, two index descriptions match if they identify the same columns in the same order with the same or reverse ascending or descending specifications, and at least one description includes the ALLOW REVERSE SCANS parameter.

The new index was not created.

User Response: No action is required unless the existing index "<name>" is not a suitable index. For example, the existing index "<name>" is not a suitable index if it does not allow reverse

scans, and the required one does (or vice versa). In this case, the index "<name>" must be dropped before the required index can be created.

sqlcode: +605

sqlstate: 01550

SQL0606N **The COMMENT ON or LABEL ON statement failed because the specified table or column is not owned by "<owner>".**

Explanation: An attempt was made to comment or label on a table or column which does not exist or is not owned by the owner specified in the message text.

Processing of the SQL statement has ended.

User Response: Correct the statement. Try again.

sqlcode: -606

sqlstate: 42505

SQL0607N **"<operation>" is not defined for system objects.**

Explanation: The "<operation>" specified in the SQL statement cannot be performed on system objects. One of the following was attempted:

- DROP or ALTER a system owned object such as a system catalog table, built-in function or built-in data type
- COMMENT ON a system owned built-in function.
- INSERT or DELETE on a system catalog table.
- UPDATE directly on a system catalog table. Some columns of a subset of system catalog tables are updateable. For UPDATE operation on these catalog tables, updateable views in SYSSTAT schema should be used. For a description of updateable catalog views (SYSSTAT views), see the *SQL Reference*.
- CREATE or DROP of an index on a system table
- CREATE of a trigger on a system table

- A non-updateable system table was identified in the FROM clause of a SELECT statement containing a FOR UPDATE clause. For a list of updateable system catalogs see the *SQL Reference*.
- DROP or ALTER of a system table space.
- DROP or ALTER of a system nodegroup.
- REDISTRIBUTE of the IBMCATGROUP or IBMTEMPGROUP nodegroups.

The statement cannot be processed.

User Response: Do not attempt to modify any system objects except for those columns of the system catalog tables which are updateable through updateable SYSSTAT views. See the *SQL Reference* for more information.

sqlcode: -607

sqlstate: 42832

SQL0612N **"<name>" is a duplicate column or attribute name.**

Explanation: A statement was issued with the same column name or attribute name appearing more than once where duplicates are not allowed. Where these column or attribute names appear varies depending on the type of statement.

- CREATE TABLE statements cannot have the same column name defined for two columns.
- CREATE VIEW statements or common table expression definitions cannot have the same column name in the column name list. If no column name list is specified, then the column names of the columns in the select list of the view must be unique.
- ALTER TABLE statement cannot add a column to a table using the name of a column that already exists or is the same as another column being added. Furthermore, a column name can only be referenced in one ADD or ALTER COLUMN clause in a single ALTER TABLE statement.
- CREATE INDEX cannot have a column name specified more than once as part of the index key or the INCLUDE columns of the index.

- CREATE TRIGGER cannot have a column name specified more than once in the list of columns that cause an update trigger to be activated.
- CREATE TABLE OF statements cannot have the same name defined for the REF IS column and any attribute of the structured type.
- CREATE TYPE statements cannot have the same name defined for two attributes. Attribute names must be unique with the type and all supertypes.
- ALTER TYPE statements cannot add an attribute to a structured type using the name of an attribute that already exists in the type or any of its subtypes or is the same as another attribute being added. Also, the name of the attribute may not be the same as the REF IS column in any table created from the structured type. Furthermore, an attribute name can only be referenced in one ADD or DROP ATTRIBUTE clause in a single ALTER TYPE statement.

The statement cannot be processed.

User Response: Specify unique names for each column or attribute as appropriate for the type of statement.

sqlcode: -612

sqlstate: 42711

SQL0613N The primary key or a unique key identified by "<name>" is too long or has too many columns.

Explanation: The sum of the internal lengths of columns in the PRIMARY KEY clause or a UNIQUE clause identified by "<name>" exceeds 1024 or the number of columns exceeds the maximum of 16. Also, a primary key or a unique key cannot be defined using a LONG VARCHAR column. If the primary key or unique constraint is defined on a typed table, there is additional index overhead that reduces the maximum number of specified columns to 15 and limits the length to 1020.

"<name>" is the constraint name, if specified, of the primary key or unique constraint. If a

constraint name was not specified, "<name>" is the first column name specified in the primary key or unique constraint clause followed by three periods.

The statement cannot be processed.

User Response: Modify the primary key or a unique key definition by eliminating one or more key columns to conform to the column limit of 16 and the key length limit.

sqlcode: -613

sqlstate: 54008

SQL0614N The index "<indexname>" cannot be created or altered because the combined length of the specified columns is too long.

Explanation: The index could not be created or altered because the sum of the key column internal lengths would exceed 1024. Also, an index cannot be created using a LONG VARCHAR, LONG VARGRAPHIC, or LOB column. If the index is defined on a typed table, there is additional index overhead that reduces the maximum length by 4 bytes. The index may be altered by an ALTER TABLE statement that alters the data type of one or more columns.

The statement cannot be processed. The specified index was not created or table could not be altered.

User Response: To modify the index definition or alter column, eliminate one or more key columns and reduce the key length to the permitted maximum.

sqlcode: -614

sqlstate: 54008

SQL0620N The CREATE TABLE statement failed because "<user-id>" has no private, recoverable dbspaces with less than 255 tables.

Explanation: The dbspace name was not specified in the CREATE TABLE statement, so the database manager tried to find a private dbspace owned by "<user-id>". This message

will appear under one of the following conditions:

1. There were no private dbspaces found in the DB2 for VM database for the “<user-id>”.
2. There were one or more private dbspaces found for the “<user-id>”, but each contained 255 tables.
3. The private dbspaces were located in nonrecoverable storage pools. Only private dbspaces that exist in recoverable storage pools will be available when the CREATE TABLE statement does not specify the dbspace name.

Processing of the SQL statement has ended.

User Response: Suggestions for the three conditions above are:

1. Acquire a private dbspace in a recoverable storage pool. You may require a database administrator’s assistance.
2. Drop a table in a private dbspace residing in a recoverable storage pool to free up an entry, or take the action indicated in (1) above.
3. If you want to create the table in a dbspace existing in a non-recoverable storage pool, then specify the dbspace name on the CREATE TABLE command. Otherwise, take the action indicated in (1) above.

Then rerun the CREATE TABLE statement.

If appropriate, acquire a private dbspace for the user.

sqlcode: -620

sqlstate: 57022

SQL0623N A clustering index already exists on table “<name>”.

Explanation: The CREATE INDEX statement would create a second clustering index on the specified table. A given table can have only one clustering index.

The statement cannot be executed.

User Response: Check to determine the identity and validity of the existing clustering index on table “<name>”. Consider creating the index without the CLUSTER attribute.

sqlcode: -623

sqlstate: 55012

SQL0624N Table “<name>” already has a “<key-type>” key.

Explanation: A primary key or partitioning key cannot be defined in an ALTER TABLE statement because the indicated table already has a key of this type.

The statement cannot be executed.

User Response: A table cannot have more than one primary key or partitioning key.

sqlcode: -624

sqlstate: 42889

SQL0628N Multiple or conflicting keywords involving the “<clause-type>” clause are present.

Explanation: There are several possible reasons why this condition might have been diagnosed for the statement. Exactly which one happened is indicated by the value of “<clause-type>”. The possibilities to consider are:

- The keyword may not be specified in the same statement as some other keyword.
- The keyword may be part of a sequence of keywords where the order in which they are specified is not enforced. A keyword in such a sequence may have been specified with the contradicting keyword also specified.
- The keyword may appear more than once with different associated values.
- The keyword may require the specifying of other particular keywords in the same statement which were not specified.

User Response: Check that the statement conforms to the syntax and rules defined for the statement. Correct any invalid occurrences of duplicate or conflicting keywords.

sqlcode: -628

sqlstate: 42613

SQL0629N SET NULL cannot be specified because FOREIGN KEY “<name>” cannot contain null values.

Explanation: The SET NULL option of the indicated FOREIGN KEY clause is not valid because no column of the key allows null values.

“<name>” is the constraint name, if specified, in the FOREIGN KEY clause. If a constraint name was not specified, “<name>” is the first column name specified in the column list of the FOREIGN KEY clause followed by three periods.

The statement cannot be processed.

User Response: Change either a column of the key to allow null values or change the delete rule.

sqlcode: -629

sqlstate: 42834

SQL0631N FOREIGN KEY “<name>” is too long or has too many columns.

Explanation: The sum of the column internal lengths identified in the FOREIGN KEY clause in a CREATE TABLE statement exceeds 1024, or the number of columns identified exceeds 16. Also, a foreign key cannot be defined using a LONG VARCHAR column.

“<name>” is the constraint name, if specified, in the FOREIGN KEY clause. If a constraint name was not specified, “<name>” is the first column name specified in the column list of the FOREIGN KEY clause followed by three periods.

The statement cannot be processed.

User Response: To modify the foreign key definition, eliminate one or more key columns and conform to the 16 column limit and the key length limit.

sqlcode: -631

sqlstate: 54008

SQL0632N FOREIGN KEY “<name>” is not valid because the table cannot be defined as a dependent of table “<table-name>” because of delete rule restrictions (reason code = “<reason-code>”).

Explanation: A referential constraint cannot be defined because the object table of the CREATE TABLE or ALTER TABLE statement cannot be defined as a dependent of table “<table-name>” for one of the following reason codes:

- (01) The relationship is self-referencing and a self-referencing relationship already exists with the SET NULL delete rule.
- (02) The relationship forms a cycle of two or more tables that cause the table to be delete-connected to itself (all other delete rules in the cycle would be CASCADE).
- (03) The relationship causes the table to be delete-connected to the indicated table through multiple relationships and the delete rule of the existing relationship is SET NULL.

The delete rules of the existing relationships cause an error, not the delete rule specified in the FOREIGN KEY clause of the CREATE TABLE or ALTER TABLE statement.

“<name>” is the constraint name, if specified, in the FOREIGN KEY clause. If a constraint name was not specified, “<name>” is the first column name specified in the column list of the FOREIGN KEY clause followed by three periods.

The statement cannot be processed.

User Response: If possible, eliminate the particular FOREIGN KEY clause from the CREATE TABLE or ALTER TABLE statement.

sqlcode: -632

sqlstate: 42915

SQL0633N The delete rule of FOREIGN KEY “<name>” must be “<delete-rule>” (reason code = “<reason-code>”).

Explanation: The delete rule specified in a FOREIGN KEY clause of the CREATE TABLE or ALTER TABLE statement is not valid. The indicated delete rule is required for one of the following reason codes:

- (01) The referential constraint is self-referencing and an existing self-referencing constraint has the indicated delete rule (NO ACTION, RESTRICT or CASCADE).
- (02) The referential constraint is self-referencing and the table is dependent in a relationship with a delete rule of CASCADE.
- (03) The relationship would cause the table to be delete-connected to the same table through multiple relationships and such relationships must have the same delete rule (NO ACTION, RESTRICT or CASCADE).

“<name>” is the constraint name, if specified, in the FOREIGN KEY clause. If a constraint name was not specified, “<name>” is the first column name specified in the column list of the FOREIGN KEY clause followed by three periods.

The statement cannot be processed.

User Response: If possible, change the delete rule.

sqlcode: -633

sqlstate: 42915

SQL0634N The delete rule of FOREIGN KEY “<name>” must not be CASCADE (reason-code = “<reason-code>”).

Explanation: The CASCADE delete rule specified in the FOREIGN KEY clause of the CREATE TABLE or ALTER TABLE statement is not valid for one of the following reason codes:

- (01) A self-referencing constraint exists with a delete rule of SET NULL, NO ACTION or RESTRICT.

- (02) The relationship would form a cycle that would cause a table to be delete-connected to itself. One of the existing delete rules in the cycle is not CASCADE, so this relationship may be definable if the delete rule is not CASCADE.
- (03) The relationship would cause another table to be delete-connected to the same table through multiple paths with different delete rules or with delete rule equal to SET NULL. “<name>” is the constraint name, if specified, in the FOREIGN KEY clause. If a constraint name was not specified, “<name>” is the first column name specified in the column list of the FOREIGN KEY clause followed by three periods.

The statement cannot be processed.

User Response: If possible, change the delete rule.

sqlcode: -634

sqlstate: 42915

SQL0637N More than one PRIMARY KEY clause or more than one DROP PRIMARY KEY clause was specified.

Explanation: The CREATE TABLE statement contains two or more PRIMARY KEY clauses, or the ALTER TABLE statement contains two or more PRIMARY KEY or DROP PRIMARY KEY clauses.

The statement cannot be processed.

User Response: Correct the statement.

sqlcode: -637

sqlstate: 42614

SQL0638N Table “<name>” cannot be created because no column definitions were specified.

Explanation: The CREATE TABLE statement does not contain any column definitions.

The statement cannot be processed.

User Response: Add one or more column definitions to the statement.

sqlcode: -638

sqlstate: 42601

SQL0644N Invalid value specified for keyword "<keyword>" in statement "<statement-type>".

Explanation: The keyword "<keyword>" is followed by an invalid value as allowed by the description of "<statement-type>". For numeric values, the value may be outside a defined range. For other types, the value is not in the defined set of valid values.

User Response: Determine from reference documentation for the "<statement-type>" what are valid values and make the appropriate change.

sqlcode: -644

sqlstate: 42615

SQL0647N Bufferpool "<bufferpool-name>" is currently not active.

Explanation: The bufferpool "<bufferpool-name>" is not active in the current database environment. An attempt was made to find another bufferpool with the same page size but there are no such bufferpools active in the current database environment. The bufferpool "<bufferpool-name>" was recently defined but has not yet been activated.

The statement cannot be processed.

User Response: The database must be stopped and started again to activate the required bufferpool.

sqlcode: -647

sqlstate: 57003

SQL0648N The foreign key cannot be defined because it will cause table "<owner1.table-name1>" to be delete-connected to table "<owner2.table-name2>" through multiple paths. Reason Code = "<reason-code>".

Explanation: The foreign key cannot be defined because one of the following reason codes = "<reason-code>":

- 01** The relationship will cause table "<owner1.table-name1>" to be delete-connected to table "<owner2.table-name2>" through multiple paths with the same delete rule of SET NULL.
- 02** The relationship will cause table "<owner1.table-name1>" to be delete-connected to table "<owner2.table-name2>" through multiple paths with different delete rules.

Processing of the SQL statement has ended.

User Response: Correct the statement. Try again.

sqlcode: -648

sqlstate: 42915

SQL0658N The object "<name>" cannot be explicitly dropped.

Explanation: The identifier "<name>" identifies a cast function or comparison function that cannot be dropped using the DROP statement because it was created by the system for use with a distinct type.

The statement cannot be processed.

User Response: The function "<name>" can only be dropped by dropping the distinct type that caused the function to be defined. The distinct type name corresponds to either the name of the function or the type of the parameters to the function.

sqlcode: -658

sqlstate: 42917

SQL0659N Maximum size of a table object has been exceeded.

Explanation: One or more of the objects which make up a table has reached its maximum size. The storage objects that make up a table are:

- Data: This is where basic column data is stored
- Index: This is where all indexes on the table are stored
- Long Data: This is where LONG VARCHAR and LONG VARGRAPHIC column data is stored
- Lob/Lob Allocation: This is where BLOB, CLOB, and DBCLOB column data and control information are stored

Once a storage object has grown to its maximum size, it cannot be extended further.

User Response: To make existing space within the object available to store new data, the following actions may be taken:

- Reorganize the table
- Delete unnecessary rows from the table
- Drop an index from the table
- Update rows to reduce the amount of data (a reorg may be required after this action in order to reclaim unused storage)

sqlcode: -659

sqlstate: 54032

SQL0667N The FOREIGN KEY “<name>” cannot be created because the table contains rows with foreign key values that cannot be found in the parent key of the parent table.

Explanation: The definition of the indicated foreign key failed because the table being altered contains at least one row where the foreign key does not match the parent key value in the parent table.

“<name>” is the constraint name, if specified. If a constraint name was not specified, “<name>” is the first column name specified in the column list of the FOREIGN KEY clause followed by three periods.

The statement cannot be processed. The specified table is not altered.

User Response: Remove the erroneous table rows and define the foreign key.

sqlcode: -667

sqlstate: 23520

SQL0668N Operation not allowed when the underlying table (or a dependent table) is in the Check Pending state.

Explanation: When a table is in a check pending state, there may be one or more rows that violate constraints defined on the data. This table cannot be used for the operation. An operation on a parent table that is not in a check pending state may also receive this error if a dependent table is in a check pending state.

User Response: Execute the SET CONSTRAINTS statement with the IMMEDIATE CHECKED option and ensure that the data satisfies all the constraints defined on the table or the table depending on it.

sqlcode: -668

sqlstate: 57016

SQL0669N A system required index cannot be dropped explicitly.

Explanation: The DROP INDEX statement attempted to drop an index required to:

- enforce the primary key constraint on a table
- enforce a unique constraint on a table
- enforce the uniqueness of the object identifier (OID) column of a typed table hierarchy
- maintain a replicated summary table.

A system required index cannot be dropped using the DROP INDEX statement.

The statement cannot be processed. The specified index is not dropped.

User Response: If you do not want to keep the primary or unique constraint, use the DROP PRIMARY KEY clause or the DROP CONSTRAINT clause of the ALTER TABLE statement to remove the primary key or unique constraint. If the index was created only for enforcing the primary or unique key, then the index will be dropped. If not, the DROP INDEX statement could then be processed.

The index for an OID column can only be dropped by dropping the table.

The index required to maintain a replicated summary table can only be dropped by first dropping the replicated summary table.

sqlcode: -669

sqlstate: 42917

SQL0670N The row length of the table exceeded a limit of "<length>" bytes. (Regular table space "<tablespace-name>".)

Explanation: The row length of a table in the database manager cannot exceed:

- 4005 bytes in a table space with a 4K page size
- 8101 bytes in a table space with an 8K page size.
- 16293 bytes in a table space with an 16K page size.
- 32677 bytes in a table space with an 32K page size.

The length is calculated by adding the internal lengths of the columns. Details of internal column lengths can be found under CREATE TABLE in the *SQL Reference*.

One of the following conditions can occur:

- The row length for the table defined in the CREATE TABLE or ALTER TABLE statement exceeds the limit for the page size of the table space. The regular table space name "<tablespace-name>" identifies the table space

from which the page size was used to determine the limit on the row length.

The statement cannot be processed.

User Response: Depending on the cause, do one of the following.

- In the case of CREATE TABLE or ALTER TABLE:
 - specify a table space with a larger pagesize, if possible
 - otherwise, reduce the row length by eliminating one or more columns or reducing the lengths of one or more columns.

sqlcode: -670

sqlstate: 54010

SQL0673N A primary or unique key index cannot be created because the table contains rows which are duplicates with respect to the values of the identified primary or unique key columns of constraint "<name>".

Explanation: The primary or unique key definition of the constraint identified by "<name>" failed because the table being altered already contains rows with duplicate values for the PRIMARY KEY or UNIQUE clause columns.

"<name>" is the constraint name, if specified. If a constraint name was not specified, "<name>" is the first column name specified in the primary key or unique constraint clause followed by three periods.

The statement cannot be processed. The specified table is not altered.

User Response: Remove the erroneous rows from the table before attempting to define the primary or unique key.

sqlcode: -673

sqlstate: 23515

SQL0680N Too many columns are specified for a table, view, or table function.

Explanation: The maximum number of columns permitted for each table is based on the page size of the table space and the data types of the columns. The limits for tables are:

- 4K page size allows a maximum of 500 columns
- 8K, 16K, and 32K page sizes allow a maximum of 1012 columns.

The actual number of columns for a table is determined by the following formula: Total Columns * 8 + Number of LOB Columns * 12 + Number of Datalink Columns * 28 <= row size limits for page size.

The maximum number of columns permitted for each view is 5000.

The maximum number of columns permitted for a table function is 255.

Federated system users: other data sources may have a different maximum column limit. This limit has been exceeded.

The statement cannot be processed.

User Response: Ensure that the number of table or view columns does not exceed the limit. If creating a table where a larger page size would allow the number of columns, specify a table space with the larger page size. Create separate tables or views, as required, to hold additional information beyond the limit.

Federated system users: limit the number of table columns to the maximum supported by the data source. Create separate tables or views, as required, to hold additional information beyond the maximum number of columns supported by the data source.

sqlcode: -680

sqlstate: 54011

SQL0683N The specification for column, attribute, user-defined type or function "<data-item>" contains incompatible clauses.

Explanation: There is an error in a data item specification in a CREATE or ALTER. Incompatible specifications are present, such as: "INTEGER and FOR BIT DATA". The location of the error is given by "<data-item>" as follows:

- for a CREATE or ALTER TABLE statement, "<data-item>" gives the name of the column containing the error.
- for a CREATE FUNCTION statement, "<data-item>" is a token that identifies the area of the problem in the statement. For example, "PARAMETER 3" or "RETURNS" or "CAST FROM".
- for a CREATE DISTINCT TYPE statement, "<data-item>" gives the name of the type being defined.
- for a CREATE or ALTER TYPE statement, "<data-item>" identifies the clause containing the error or gives the name of the attribute containing the error.

The statement cannot be processed.

User Response: Remove the incompatibility and try the statement again.

sqlcode: -683

sqlstate: 42842

SQL0696N The definition of trigger "<trigger-name>" includes an invalid use of correlation name or transition table name "<name>". Reason code="<reason-code>".

Explanation: The trigger definition included an invalid use of "<name>". The value of "<reason-code>" indicates the specific problem as follows.

- 1 NEW correlation name and NEW_TABLE name are not allowed in a DELETE trigger.

- 2 OLD correlation name and OLD_TABLE name are not allowed in an INSERT trigger.
- 3 OLD_TABLE name and NEW_TABLE name are not allowed in a BEFORE trigger.

The statement cannot be processed.

User Response: Remove the invalid correlation name or transition table name along with the preceding keyword.

sqlcode: -696

sqlstate: 42898

SQL0697N OLD or NEW correlation names are not allowed in a trigger defined with the FOR EACH STATEMENT clause.

Explanation: The trigger, as defined, includes a REFERENCING clause with OLD or NEW

correlation names specified (or both) and the FOR EACH STATEMENT clause. These cannot be specified together.

The statement cannot be processed.

User Response: Remove any OLD or NEW correlation names from the REFERENCING clause or replace FOR EACH STATEMENT with FOR EACH ROW.

sqlcode: -697

sqlstate: 42899

SQL0700 - SQL0799

SQL0707N The object "<name>" cannot be created because the first three characters are reserved for system objects.

Explanation: The following is a list of reserved names:

- a table space name cannot start with 'SYS'
- a nodegroup name cannot start with 'SYS' or 'IBM'

User Response: Select a name that does not start with a reserved prefix.

sqlcode: -707

sqlstate: 42939

SQL0713N The replacement value for "<special-register>" is invalid.

Explanation: Either the value specified in the SET <special-register> statement is not a valid value of the indicated special register, or the

value specified is NULL as a result of an indicator variable.

The statement cannot be executed.

User Response: Correct the replacement value and/or any indicator variables. See the *SQL Reference* for an explanation of the valid values of each special register.

sqlcode: -713

sqlstate: 42815

SQL0723N An error occurred in a triggered SQL statement in trigger "<trigger-name>". Information returned for the error includes SQLCODE "<sqlcode>", SQLSTATE "<sqlstate>" and message tokens "<token-list>"

Explanation: An SQL statement in the trigger "<trigger-name>" has failed during execution of the trigger. The sqlcode, sqlstate and message token list (each token is separated by the vertical

bar character) are provided. The message tokens may be truncated. See the corresponding message for the “<sqlcode>” for further explanation of the error.

The trigger and the original SQL statement that caused the trigger to execute cannot be processed.

User Response: Check the message associated with the SQLCODE of the SQL statement that failed. Follow the action suggested by that message.

sqlcode: -723

sqlstate: 09000

SQL0724N The activation of trigger “<trigger-name>” would exceed the maximum level of cascading.

Explanation: Cascading of triggers occurs when a triggered SQL statement in a trigger would result in another trigger being activated or when a referential constraint delete rule causes additional triggers to be activated. The depth of this cascading is limited to 16.

Note that recursive situations where a trigger includes a triggered SQL statement that directly or indirectly causes the same trigger to be activated is a form of cascading that is very likely to cause this error if there are no conditions to prevent cascading from exceeding the limit.

The “<trigger-name>” specified is one of the triggers that would have been activated at the seventeenth level of cascading.

User Response: Start with the triggers that are activated by the UPDATE, INSERT or DELETE statement that received this error. If any of these triggers are recursive, ensure that there is some condition that prevents the trigger from being activated more than the limit allows. If this is not the cause of the problem, follow the chain of triggers that are activated to determine the chain that exceeds the cascading limit.

sqlcode: -724

sqlstate: 54038

SQL0727N An error occurred during implicit system action type “<action-type>”. Information returned for the error includes SQLCODE “<sqlcode>”, SQLSTATE “<sqlstate>” and message tokens “<token-list>”.

Explanation: The processing of a statement or command has caused the database manager to implicitly perform additional processing. During this processing an error was encountered. The action attempted is shown by the “<action-type>”:

- 1 implicit rebind of a package
- 2 implicit prepare of a cached dynamic SQL statement
- 3 implicit regeneration of a view

The sqlcode, sqlstate and message token list (each token is separated by the vertical bar character) are provided. The message tokens may be truncated. See the corresponding message for the “<sqlcode>” for further explanation of the error.

The original SQL statement or command that caused the “<action-type>” cannot be processed and the implicit system action was not successful.

User Response: Check the message associated with the SQLCODE of the SQL statement that failed. Follow the action suggested by that message.

For an invalid package, the REBIND command can be used to recreate the error or to explicitly validate the package once the cause of the error has been resolved.

For a failure while regenerating a view, the name of the view that failed is recorded in the db2diag.log file. The failing view can be dropped or a change made to the statement or command that caused the view regeneration.

sqlcode: -727

sqlstate: 56098

SQL0750N The source table cannot be renamed because it is referenced in a view, summary table, trigger, check constraint or referential constraint.

Explanation: The source table in a RENAME statement cannot be renamed for one or more of the following reasons.

- The table is referenced in one or more existing views.
- The table is referenced in one or more existing summary tables.
- The table is referenced in one or more existing triggers. This includes triggers on the table or references in triggered SQL statements.
- The table has check constraints defined.
- The table is involved in one or more referential constraints as a parent or dependent table.

The statement cannot be processed.

User Response: Drop the views, summary table, triggers, check constraints or referential constraints on the table before issuing the RENAME statement. For views or summary tables dependent on the table, query SYSCAT.VIEWDEP where the table matches BSHEMA and BNAME columns. For triggers dependent on the table, query SYSCAT.TRIGDEP where the table matches BSHEMA and BNAME columns. For check constraints on the table, query SYSCAT.CHECKS where the table matches TABSCHEMA and TABBNAME columns. For referential constraints dependent on the table, query SYSCAT.REFERENCES where the table matches TABSCHEMA and TABNAME columns or REFTABSCHEMA and REFTABNAME columns.

sqlcode: -750

sqlstate: 42986

SQL0751N User defined function or procedure "<function-name>" (specific name "<specific-name>") attempted to execute a statement that is not allowed.

Explanation: The program used to implement the body of a user defined function or procedure is not allowed to execute the statement.

User Response: Remove the statement then recompile the program.

sqlcode: -751

sqlstate: 38003

SQL0752N Connecting to a database is not permitted within a logical unit of work when the CONNECT type 1 connection setting is in use.

Explanation: An attempt was made to connect to either another database or the same database before issuing a COMMIT or ROLLBACK statement. The request cannot be processed within a CONNECT type 1 environment.

User Response:

- Submit a COMMIT or ROLLBACK statement before requesting a connection to another database.
- If multiple databases need to be updated within a unit of work, change the connection settings to SYNCPOINT TWOPHASE and CONNECT 2 by re-precompiling or by issuing the SET CLIENT API from within the application.

sqlcode: -752

sqlstate: 0A001

SQL0797N The trigger "<trigger-name>" is defined with an unsupported triggered SQL statement.

Explanation: The trigger is defined with a triggered SQL statement that does match the following list.

- A BEFORE trigger can include the following triggered SQL statements:
 - a fullselect
 - a SET transition-variable statement (only when FOR EACH ROW is specified).
- An AFTER trigger can include the following triggered SQL statements:
 - an INSERT statement
 - a searched UPDATE statement
 - a searched DELETE statement

- a fullselect

In some cases the “<trigger-name>” is not available for use in the message.

User Response: Check the triggered SQL statements in the trigger for any statement that does not match the above list and remove it.

sqlcode: -797

sqlstate: 42987

SQL0800 - SQL0899

SQL0801N Division by zero was attempted.

Explanation: The processing of a column function or arithmetic expression resulted in division by zero.

The statement cannot be processed. For the INSERT, UPDATE, or DELETE statements, no inserts or updates are performed.

User Response: Examine the SQL statement to determine the cause of the problem. If the problem is data dependent, it is necessary to examine the data processed when the error occurred. Refer to the *SQL Reference* to see the valid ranges for the data types.

Federated system users: examine the SQL statement to determine the cause of the problem. If the problem is data dependent, examine the data being processed at the data sources when the error occurred.

sqlcode: -801

sqlstate: 22012

SQL0802N Arithmetic overflow or other arithmetic exception occurred.

Explanation: The processing of a column function or arithmetic expression has resulted in an arithmetic overflow.

The statement cannot be processed. For the INSERT, UPDATE, or DELETE statements, no inserts or updates are performed.

User Response: Examine the SQL statement to

determine the cause of the problem. If the problem is data dependent, it is necessary to examine the data processed when the error occurred. Refer to the *SQL Reference* to see the valid ranges for the data types.

Federated system users: examine the SQL statement to determine the cause of the problem. If the problem is data dependent, examine the data being processed at the data sources when the error occurred. Refer to the corresponding SQL Reference for the data source to determine the valid ranges for the data types.

sqlcode: -802

sqlstate: 22003

SQL0803N One or more values in the INSERT statement, UPDATE statement, or foreign key update caused by a DELETE statement are not valid because they would produce duplicate rows for a table with a primary key, unique constraint, or unique index.

Explanation: The INSERT or UPDATE object table is constrained by one or more UNIQUE indexes to have unique values in certain columns or groups of columns. Alternatively, a DELETE statement on a parent table caused the update of a foreign key in a dependent table that is constrained by one or more UNIQUE indexes to have unique values in certain columns or groups of columns. The unique index may exist to support a primary key or unique constraint

defined on the table. Completing the requested insert or update results in duplicates of the column values.

Alternatively, if a view is the object of the INSERT or UPDATE statement, it is the table on which the view is defined that is constrained.

The statement cannot be processed. The table remains unchanged.

User Response: Examine the definitions for all UNIQUE indexes defined on the object table to determine the uniqueness constraints those indexes impose.

For an UPDATE statement, ensure that the specified operation is not itself inconsistent with those uniqueness constraints. If this does not show the error, examine the object table content to determine the cause of the problem.

For an INSERT statement, examine the object table content to determine which of the values in the specified value list violates the uniqueness constraint. Alternatively, if the INSERT statement contains a subquery, the object table contents addressed by that subquery must be matched against the object table contents to determine the cause of the problem.

For a DELETE statement, examine the dependent tables for unique constraints on foreign keys that are defined with the rule ON DELETE SET NULL. One such table has a foreign key column included in a unique index that cannot be set to null since there is already a null in the column for that table.

Federated system users: isolate the problem to the data source failing the request (refer to the problem determination guide to determine which data source is failing to process the SQL statement) and examine the index definitions and data for the conditions listed previously.

sqlcode: -803

sqlstate: 23505

SQL0804N The application program input parameters for the current request are not valid. Reason code "<reason-code>". If a host variable or SQLVAR in the SQLDA is invalid then: host variable/SQLVAR number = "<var-number>", SQLTYPE = "<sqltype>", SQLLEN = "<sqllen>", host variable/SQLVAR type = "<input_or_output>".

Explanation: An error occurred while processing the current request.

- The call parameter list, which is created by the precompiler, may not be correct if the application programmer has modified the output of the precompiler or over-written the call parameter list in another way.
- The SQLDA or host variable(s) in the SQL statement are invalid.
- The request being made is not supported or is out of context.

Reason codes are interpreted as follows:

100	The request being made is not supported or is out of context.
101	SQLDA.SQLN is less than SQLDA.SQLD
102	SQLVAR.SQLTYPE is invalid.
103	The length specified in SQLVAR.SQLLEN or SQLVAR2.SQLLONGLEN is incorrect for the SQL type given in SQLVAR.SQLTYPE.
104	A Large Object SQLVAR is present, but the SQLDOUBLED field of SQLDA.SQLDAID is not set to '2'.
105	A double-byte character Large Object has an odd value indicated by the SQLVAR2.SQLDATALEN pointer, which is always in terms of bytes, even for DBCLOBs.
106	The SQLDATA pointer is invalid or points to insufficient storage.

- 107** The SQLIND pointer is invalid or points to insufficient storage.
- 108** The SQLDATALEN pointer is invalid or points to insufficient storage.
- 109** A specific number of input host variables/SQLVARs is expected for the current SQL statement.
- 110** The LOB locator is not associated with a LOB of a compatible type.
- 111** A LOB is indicated by the SQLTYPE of the SQLVAR, but the second SQLVAR is null.

In SQL statements with host variables, use the host variable number to count in from the beginning of the statement (or substatement, in the case of compound SQL) to locate the invalid host variable. For statements using an SQLDA, the SQLVAR number is used to locate the invalid SQLVAR. For an input SQLDA, count only input host variables or SQLVARs; similarly for output. Note that this number is based at 1.

The statement cannot be processed.

User Response: Examine the application program for any errors noted. Note that the programmer should not attempt to modify the precompiler output.

sqlcode: -804

sqlstate: 07002

SQL0805N Package "<package-name>" was not found.

Explanation: Possible causes for this message (SQLCODE) are:

- The specified package or program is not defined in the database.
- The program was not bound or it was dropped.
- The application being run is not bound to the database.
- If attempting to run a DB2 utility or CLI application, the DB2 utilities may need to be rebound to the database.

The statement cannot be processed.

User Response: Specify the correct package name or bind the program. If the application being run is not bound to the database, contact the database administrator to do the necessary binding.

If the DB2 utility programs need to be rebound to the database, the database administrator can accomplish this by issuing one of the following CLP command from the bnd subdirectory of the instance, while connected to the database:

- "DB2 bind @db2ubind.lst blocking all grant public" for the DB2 utilities.
- "DB2 bind @db2cli.lst blocking all grant public" for CLI.

Federated system users: ensure that the packages required for the federated server are bound at the applicable data sources. Refer to the Installation and Configuration Supplement Guide for more information about binding packages to data sources.

sqlcode: -805

sqlstate: 51002

SQL0808N The CONNECT statement semantics are not consistent with those of other existing connections.

Explanation: The CONNECT statement originates from a source file which was precompiled having different connection options (SQLRULES, CONNECT type, SYNCPOINT, or RELEASE type) than that of a source file for which a connection exists.

User Response: Ensure that all source files are precompiled using the same CONNECT options, or if this is not possible, call the SET CLIENT api to set the desired options for the application process before issuing the first CONNECT statement.

sqlcode: -808

sqlstate: 08001

SQL0811N **The result of a scalar fullselect, SELECT INTO statement, or VALUES INTO statement is more than one row.**

Explanation: One of the following caused the error:

- Execution of an embedded SELECT INTO or VALUES INTO statement resulted in a result table of more than one row.
- Execution of a scalar fullselect resulted in a result table of more than one row.

Federated system users: this situation can be detected by federated server or by the data source.

The statement cannot be processed.

User Response: Ensure that the statement contains the proper condition specifications. If it does, there may be a data problem that is causing more than one row to be returned when only one is expected.

Federated system users: isolate the problem to the data source failing the request (refer to the *problem determination guide* to determine which data source is failing to process the SQL statement) and examine the selection criteria and data for that object.

sqlcode: -811

sqlstate: 21000

SQL0817N **The SQL statement cannot be executed because the statement will result in a prohibited update operation.**

Explanation: The application attempted to execute an SQL statement that would result in updates to user data or to the subsystem catalog. This is prohibited for one of the following reasons:

- The application is running as an IMS inquiry-only transaction.

- The application is an IMS or CICS application that is attempting to update data at a remote DBMS that does not support two-phase commit.
- The application is attempting to update data at multiple locations and one of the locations does not support two-phase commit.

These SQL statements include INSERT, UPDATE, DELETE, CREATE, ALTER, DROP, GRANT, and REVOKE.

The statement cannot be executed.

User Response: If the application is running as an IMS inquiry-only transaction, see your IMS system programmer about changing the inquiry-only status of the transaction under which your application is running.

If the IMS or CICS application is attempting a remote update, either the application must be changed to run as a local application on the server DBMS, or the server DBMS must be upgraded to support two-phase commit.

If the application is attempting to update data at multiple locations, either the application must be changed, or all DBMSs involved must be upgraded to support two-phase commit.

sqlcode: -817

sqlstate: 25000

SQL0818N **A timestamp conflict occurred.**

Explanation: The timestamp generated by the precompiler at precompile time is not the same as the timestamp stored with the package at bind time.

This problem can be caused by the following:

- Precompile, compile, and link without doing an application bind.
- Precompile and bind without doing the program compile and link.
- Bind the application using a bind file that resulted from a different precompile of the program than the precompile that produced the object module linked into the application module.

- Bind an application with the same name as an existing plan and execute the existing (old) application.

Federated system users: in addition to the causes listed previously, the problem can also be due to not binding the required packages at all applicable data sources.

The statement cannot be processed.

User Response: Bind the application again, using the bind file for the program that matches the object module. Or, execute the program that corresponds to the package stored in the database.

If installing the sample database, record the number and text of this message and then contact your technical service representative.

Federated system users: in addition to the previously listed actions, ensure that the packages required for the federated server are bound at the applicable data sources. Refer to the Installation and Configuration Supplement for more information on binding packages to data sources.

sqlcode: -818

sqlstate: 51003

SQL0822N The SQLDA contains a data address or indicator variable address which is not valid.

Explanation: The application program placed an address that is not valid in the SQLDA.

The statement cannot be processed.

User Response: Correct the application program so that valid addresses are placed in SQLDA.

sqlcode: -822

sqlstate: 51004

SQL0840N Too many items were returned in a SELECT list.

Explanation: The number of items returned in the SELECT list exceeds the allowable maximum.

The maximum for SELECT lists (other than on common table expressions) is 1012. The maximum for SELECT lists in common table expressions is 5000.

The statement cannot be processed.

User Response: Determine whether all the information is actually needed. (Note that the number of items returned by the SELECT list * in the SQL statement SELECT * from A, B, C is the sum of the number of columns in all three tables.) If possible, rewrite the SQL statement so only the necessary items of information are returned. If all the information is necessary, break the SQL statement into two or more statements.

sqlcode: -840

sqlstate: 54004

SQL0842N A connection to server "<server-name>" already exists.

Explanation: SQLRULES(STD) is in effect and a CONNECT statement identifies an existing SQL connection.

User Response: The correction depends on the error:

- If the server name is not the intended name, correct it.
- If SQLRULES(STD) is in effect and the CONNECT statement identifies an existing SQL connection, replace the CONNECT with SET CONNECTION or change the option to SQLRULES(DB2).

Correct the error in the application and try again.

sqlcode: -842

sqlstate: 08002

SQL0843N The server name does not specify an existing connection.

Explanation: A statement, command, or API specified a server name that does not identify an existing SQL connection of the application process.

This may have occurred using:

- a SET CONNECTION statement
- a RELEASE statement
- a DISCONNECT statement
- SET or QUERY CLIENT INFORMATION

User Response: The correction depends on the error:

- If the server name is not the intended name, correct it.
- Ensure that a connection to the server has been established and is in a current or dormant state before issuing the request for that connection.

Correct the error in the application and try again.

sqlcode: -843

sqlstate: 08003

SQL0859N Access to the Transaction Manager Database failed with SQLCODE "<SQLCODE>".

Explanation: The application was precompiled with SYNCPOINT(TWOPHASE) and requires a Transaction Manager Database to coordinate the two phase commit. Reasons why the Transaction Manager Database is not available might include the following:

- It was not created.
- The *tm_database* field of the database manager configuration file has not been updated and activated with the name of the database.
- The database exists, but communication to the database failed.

User Response: Possible actions:

- Refer to the SQLCODE that was returned with this message, and follow the appropriate action for that SQLCODE.
- Verify that the *tm_database* exists; if not, create a new database or select a database that currently exists for use as the TM database. It is recommended to create a separate database if there are no serious constraints on disk storage.

- Update the database manager configuration for the TM database using the field *tm_database* if that has not already been done.
- Verify that a connection to the *tm_database* can be made. For example, attempt the connection using the Command Line Processor.
- Ensure that the *tm_database* chosen is not a database accessed through DB2 Connect.

sqlcode: -859

sqlstate: 08502

SQL0863W A successful connection was made, but only single byte characters should be used.

Explanation: The server database and client application are using codepages for different language types and any characters outside the 7-bit ASCII range cannot be guaranteed (only the characters in the 7-bit ASCII range exist in all codepages). For example, the connection might be between a Japanese and a Latin-1 codepage, but none of the Japanese characters will be available in the Latin-1 codepage, so all of these characters should be avoided (English characters are fine though).

Federated system users: possible causes are:

- The federated database supports single-byte and double-byte characters but the database client system supports only single-byte characters.
- The data source supports single-byte and double-byte characters but the federated system supports only single-byte characters.

User Response: Do not submit SQL statements or commands that use characters which are not common between the application and database codepages.

Federated system users: do not submit SQL statements or commands that use characters which are not common between the client system, the federated system, and the data source.

sqlcode: +863

sqlstate: 01539

SQL0865N Invalid tm_database value.

Explanation: The database chosen as the *tm_database* in the database manager configuration is not valid. The database must be at level DB2 V2.1 or later, and cannot be a database accessed through DRDA protocol (ie. through DB2 Connect).

The statement cannot be executed.

User Response:

1. Update the database manager configuration to specify a valid database for the *tm_database* parameter.
2. Issue db2stop and db2start to ensure that the change takes effect.

sqlcode: -865

sqlstate: 08001

**SQL0866N Connection redirection failed.
Reason code: "<reason-code>"**

Explanation: Directory cataloging for a database caused a connection to be redirected in a manner which is not supported.

Possible reason codes are:

- 01** A database connection involved more than one redirection from a server to another server; only one connection redirection is supported.
- 02** A connection was attempted which involved both a current version of DB2 client or server and a version 1 client or server. This attempt failed because redirection is not supported with version 1 clients or servers.

User Response: By the reason code, the actions are:

- 01** Recatalog the database so that there is no more than one server redirecting the connection to another server in the path of the connection.
- 02** Recatalog the database so that there is no intermediary server redirecting the connection.

sqlcode: -866

sqlstate: 08001

SQL0868N A CONNECT using a USER/USING clause was attempted to a server for which a connection already exists.

Explanation: A current or dormant connection to a server exists, and an attempt to CONNECT to this server using the USER/USING clause is invalid.

User Response: Possible actions:

- Use the SET CONNECTION statement to make the connection to the DORMANT connection current.
- Use the CONNECT statement without USER/USING if SQLRULES(DB2) are being used by the application.
- Complete the existing unit of work, disconnect, and then reconnect using USER/USING.

sqlcode: -868

sqlstate: 51022

SQL0900 - SQL0999

SQL0900N The application state is in error. A database connection does not exist.

Explanation: A connection to a database does not exist. This may be due to one of the following reasons:

- A serious error in the application state has caused the database connection to be lost.
- The application may have disconnected from a database and not established a new current connection before executing the next SQL statement.

User Response: Reestablish a current connection by either switching to an existing dormant connection (using CONNECT TO or SET CONNECTION) or by establishing a new connection (using CONNECT).

sqlcode: -900

sqlstate: 08003

SQL0901N The SQL statement failed because of a non-severe system error. Subsequent SQL statements can be processed. (Reason "<reason>".)

Explanation: An error has occurred which is due to a system error. Processing of the SQL statement has ended for reason "<reason>" (this is in English only and is useful only to IBM support personnel).

User Response: Record the message number (SQLCODE) and reason "<reason>".

If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Then contact your technical service representative with the following information:

- Problem description
- SQLCODE
- reason "<reason>"
- SQLCA contents if possible

- Trace file if possible.

Federated system users: isolate the problem to the data source failing the request (refer to the problem determination guide to determine which data source is failing to process the SQL statement) and take the necessary diagnostic steps for that data source. The problem determination procedures for data sources vary, so refer to the applicable data source manuals.

sqlcode: -901

sqlstate: 58004

SQL0902C A system error (reason code = "<reason-code>") occurred. Subsequent SQL statements cannot be processed.

Explanation: A system error occurred.

User Response: Record the message number (SQLCODE) and reason code in the message.

If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Then contact your technical service representative with the following information:

- Problem description
- SQLCODE and embedded reason code
- SQLCA contents if possible
- Trace file if possible.

Federated system users: isolate the problem to the data source failing the request (refer to the problem determination guide to determine which data source is failing to process the SQL statement) and take the necessary diagnostic steps for that data source. The problem determination procedures for data sources vary, so refer to the applicable data source manuals.

sqlcode: -902

sqlstate: 58005

SQL0903N COMMIT statement failed, transaction rolled back. Reason code: "<reason-code>"

Explanation: One or more of the servers participating in the current unit of work was unable to prepare the database to be committed. The COMMIT statement has failed and the transaction has been rolled back.

Possible reason codes are:

- 01** A connection to one of the databases participating in the unit of work was lost.
- Federated system users: if the database you connected to is a federated server database where nicknames are used, a connection to one of the data sources required for a nickname within the database was lost.
- 02** One of the databases or nodes participating in the unit of work was accessed, but unable to prepare to commit.
- Federated system users: if the database you connected to is a federated server database where nicknames are used, one of the data sources required for a nickname is unable to prepare to commit.
- 03** A DB2 Data Links Manager participating in the unit of work was unable to prepare to commit.

User Response: If a connection to a database was lost, reestablish the connection. If the failure was not connection related, reference the error diagnostic logs on the remote system to determine the nature of the failure and what action might be required. Rerun the application.

sqlcode: -903

sqlstate: 40504

SQL0904N Unsuccessful execution caused by an unavailable resource. Reason code: "<reason-code>", type of resource: "<resource-type>", and resource name: "<resource-name>".

Explanation: The SQL statement could not be executed because resource "<resource-name>" of type "<resource-type>" was not available at the time for the reason indicated by "<reason-code>". Refer to the Problem Determination documentation of DB2 for MVS for an explanation of resource type codes.

User Response: Verify the identity of the resource that was not available. To determine why the resource was unavailable, refer to the specified "<reason-code>".

sqlcode: -904

sqlstate: 57011

SQL0905N Unsuccessful execution due to resource limit being exceeded. Resource name = "<resource-name>", limit = "<limit-amount1>" CPU seconds ("<limit-amount2>" service units) derived from "<limit-source>".

Explanation: The execution of the SQL statement was terminated because a resource limit was exceeded.

The name of the resource whose limit was exceeded is "<resource-name>". It is also the name of the column in the resource limit specification table from which the limit was derived. The limit that was exceeded in CPU seconds is "<limit-amount1>" and in service units it is "<limit-amount2>". The "<resource-name>" may be ASUTIME, which is the number of CPU seconds permitted for each SQL statement. The maximum number of CPU seconds permitted is "<limit-amount1>". The maximum number in service units is "<limit-amount2>".

The source used to derive the limit-amount is "<limit-source>" and is either the name of a

resource limit specification table or a 'system parameter'. If the source is a system parameter, the resource limit specification table did not contain an applicable entry or an error occurred while accessing the table. In either case, the limit is obtained from an install (system) parameter.

User Response: Determine why this SQL statement took so long and take appropriate action. Consider simplifying the SQL statement, restructuring tables and indexes, or contacting the installation group responsible for maintaining the resource limit specification tables.

An application program that receives this return code can execute additional SQL statements.

sqlcode: -905

sqlstate: 57014

SQL0906N The SQL statement cannot be executed because this function is disabled due to a prior error.

Explanation: Execution of the SQL statement failed because the requested function had been disabled by a prior error. This situation can arise if the application program has intercepted an abend (for instance, by an ON ERROR condition in a PL/I program) and continued to execute SQL statements. This situation may also arise if a DB2 CICS transaction encountered a create thread error yet continued to issue SQL requests without issuing a SYNCPOINT ROLLBACK first.

User Response: In general, an application program should terminate upon receipt of this return code. All subsequent attempts by the application to execute other SQL statements will also fail with the same return code. In the case of a DB2 CICS transaction, if the SQLERRP field in the SQLCA contains the module name DSNCEXT1, the transaction may issue a SYNCPOINT ROLLBACK and continue processing. If the transactions chooses to ROLLBACK and continue processing, it must be capable of correcting the situation that caused the create thread error to occur originally.

sqlcode: -906

sqlstate: 24514, 51005, 58023

SQL0908N "<bind-type>" error using "<auth-id>" authority BIND, REBIND, or AUTO_REBIND operation is not allowed.

Explanation: For BIND and REBIND, the indicated authorization ID is not allowed to perform the indicated "<bind-type>" against a plan or package. An entry in the resource limit specification table (RLST) prohibits binding and rebinding by this authorization ID, or all authorization IDs. For AUTO-REBIND, the system parameter controlling AUTO-REBIND operations is set to disallow AUTO-REBIND.

bind-type

Type of bind operation (BIND, REBIND or AUTO-REBIND).

auth-id Authorization ID of the invoker of the BIND subcommand or primary authorization ID of the invoker of the plan for AUTO-REBIND operations.

User Response: If the indicated authorization id should be allowed to bind, change the entry in the active RLST table. If AUTO-REBIND operations are disabled, rebind the package before reexecuting the package.

sqlcode: -908

sqlstate: 23510

SQL0909N The object has been deleted.

Explanation: The application program has either (1) dropped a table and then attempted to access it, or (2) dropped an index and then tried to access its object table using that index.

User Response: The logic of the application program must be corrected such that it does not attempt to access or use an object after it has been dropped.

Dropping indexes within an application program is especially hazardous, because there is no way of determining whether or not the plan that has been generated for the application (by BIND or REBIND) actually uses a particular index for access to its object table.

sqlcode: -909

sqlstate: 57007

SQL0910N The SQL statement cannot access an object on which a modification is pending.

Explanation: The application program attempted to access an object within the same unit of work in which either:

- The application program issued a DROP against the object or a related object (e.g. an index for a table)
- The application program issued a statement against the object that added or dropped a constraint.
- The application program issued a DROP TRIGGER or CREATE TRIGGER statement that affected the object, either directly or indirectly.

Federated system users: in addition to the previously listed causes, other data source specific restrictions may exist that prevent access to the object.

The SQL statement cannot be processed.

User Response: Modify the application program so there is no attempt to access an object within the same unit of work in which the modification was made. In general, it is better to isolate Data Definition Language (DDL) statements in a different unit of work than Data Manipulation Language (DML) statements that access the same objects.

The unit of work must be committed or rolled back before the statement that failed can be processed successfully. If the committed modification caused an object to be dropped, then the object may have to be recreated in order for the failing SQL statement to be processed successfully.

Federated system users: if the previous action does not solve the problem, isolate the request (refer to the problem determination guide to determine which data source is failing to process the SQL statement) and determine what additional constraints exist on the data source

that are preventing access to the object. Ensure that the application is not violating any of those constraints.

sqlcode: -910

sqlstate: 57007

SQL0911N The current transaction has been rolled back because of a deadlock or timeout. Reason code "<reason-code>".

Explanation: The current unit of work was involved in an unresolved contention for use of an object and had to be rolled back.

The reason codes are as follows:

2	transaction rolled back due to deadlock.
68	transaction rolled back due to lock timeout.
72	transaction rolled back due to an error concerning a DB2 Data Links Manager involved in the transaction.

Note: The changes associated with the unit of work must be entered again.

The application is rolled back to the previous COMMIT.

User Response: To help avoid deadlock or lock timeout, issue frequent COMMIT operations, if possible, for a long-running application, or for an application likely to encounter a deadlock.

Federated system users: the deadlock can occur at the federated server or at the data source. There is no mechanism to detect deadlocks that span data sources and potentially the federated system. It is possible to identify the data source failing the request (refer to the problem determination guide to determine which data source is failing to process the SQL statement).

Deadlocks are often normal or expected while processing certain combinations of SQL statements. It is recommended that you design applications to avoid deadlocks to the extent possible.

sqlcode: -911

sqlstate: 40001

SQL0912N The maximum number of lock requests has been reached for the database.

Explanation: The maximum number of locks for the database was reached because insufficient memory was allocated to the lock list.

The statement cannot be processed.

User Response: The application should submit a COMMIT or ROLLBACK statement before submitting other SQL statements. Consider increasing the database configuration parameter (*locklist*) to allow more lock list space.

sqlcode: -912

sqlstate: 57011

SQL0913N Unsuccessful execution caused by deadlock or timeout. Reason code "<reason-code>".

Explanation: The request issued was involved in an unresolved contention for use of an object and the execution failed.

The reason codes are as follows:

2 transaction branch failed due to deadlock.

68 transaction branch failed due to lock timeout.

72 transaction rolled back due to an error concerning a DB2 Data Links Manager involved in the transaction.

80 statement failed due to timeout.

User Response:

- For reason code 80, you can retry the failed statement without terminating the application. If the application accesses multiple remote databases, it may be better to rollback the transaction to avoid the possibility of a global deadlock.

- For other reason codes, issue a request to rollback the transaction. The transaction cannot be committed due to the failure of the current transaction branch.
- To help avoid deadlock or lock timeout, issue frequent COMMIT operations, if possible, within long-running applications or applications requiring data with high concurrent access.

sqlcode: -913

sqlstate: 57033

SQL0917N Remote bind from a DRDA application requester failed.

Explanation: An error has occurred during a remote bind from a DRDA application requester. This error can be issued during bind or commit processing.

User Response: This problem is usually caused by an SQL statement which did not get bound because of an error. The user should consult the diagnostics facility at the DRDA application requester to determine which statement is causing the error and correct it.

sqlcode: -917

sqlstate: 42969

SQL0918N Application must execute a rollback.

Explanation: The unit of work has already been rolled back in the database but other resource managers involved in this unit of work might not. To ensure integrity of this application, all SQL requests will be rejected until the application issues a rollback.

User Response: All SQL requests will be rejected until the application issues a rollback. For example, in a CICS environment, this would be a CICS SYNCPOINT ROLLBACK command.

sqlcode: -918

sqlstate: 51021

SQL0920N Data on a database client system cannot be accessed from other database client systems.

Explanation: The workstation has been configured as a client or a server with local clients. Any databases created on this system cannot be shared by other workstations.

The function cannot be processed.

User Response: Request data only from server workstations.

sqlcode: -920

sqlstate: 57019

SQL0925N SQL COMMIT invalid for application execution environment.

Explanation: COMMIT is disallowed in the following cases:

- In a Distributed Transaction Processing environment such as CICS, a static SQL COMMIT statement was attempted, but a commit statement specific to the environment is required. For example, in a CICS environment this would be the CICS SYNCPOINT command.
- A DB2 application precompiled or set to use CONNECT 2 in a non-TP Monitor environment has issued a dynamic SQL COMMIT statement, whereas only static SQL COMMITs are allowed.
- When issued from a stored procedure, SQL COMMIT is also not allowed if the calling program is executing in a distributed unit of work or Distributed Transaction Processing environment.

User Response: Correct the problem by doing one of the following:

- Remove the statement issuing the COMMIT and replace it with a statement which does the valid equivalent for the environment
- In the case of a connect type 2 in a non-TP Monitor environment, use only static COMMIT.

- In the case of a stored procedure, remove the COMMIT

sqlcode: -925

sqlstate: 2D521

SQL0926N SQL ROLLBACK invalid for application execution environment.

Explanation: ROLLBACK is disallowed in the following cases:

1. In a Distributed Transaction Processing environment such as CICS, a static SQL ROLLBACK statement was attempted, but a rollback statement specific to the environment is required. For example, in a CICS environment this would be the CICS SYNCPOINT ROLLBACK command.
2. A DB2 application precompiled or set to use CONNECT 2 has issued a dynamic SQL ROLLBACK statement, whereas only static SQL ROLLBACKs are allowed.
3. When issued from a stored procedure, SQL ROLLBACK is also restricted if the calling program is executing in a distributed unit of work (CONNECT type 2) or Distributed Transaction Processing environment.

User Response:

1. Remove the statement issuing the ROLLBACK and replace it with a statement which does the valid equivalent for the environment.
2. In the case of a connect type 2, use only static COMMIT.
3. In the case of a stored procedure, remove it entirely.

sqlcode: -926

sqlstate: 2D521

SQL0930N There is not enough storage available to process the statement.

Explanation: A request was made to the database that required another memory page but no more pages are available to the database manager.

The statement cannot be processed.

User Response: Possible solutions include:

- Verify that your system has sufficient real and virtual memory.
- Remove background processes.
- If the error occurs during DUOW resynchronization, increase the *maxagents* and reduce the *resync_interval* database manager configuration parameter values.

sqlcode: -930

sqlstate: 57011

SQL0931C Operating system file table overflow occurred. Subsequent SQL statements cannot be processed.

Explanation: An Operating system limit has been reached. The application program is not permitted to issue additional SQL statements. The database is marked as needing recovery and all applications using the database are prevented from accessing the database.

User Response: Terminate all the applications using the database. Restart the database.

To help prevent the problem from recurring:

- Change the MAXFILOP database configuration parameter to a smaller value (this will reduce DB2's use of the operating system file table), and/or
- Terminate other applications that are using files, if appropriate, and/or,
- Refer to the operating system documentation for increasing the operating system file table limit. In most UNIX environments this can be accomplished by updating the kernel configuration with a larger value. (On AIX,

this may only be possible by increasing the amount of memory in your machine).

sqlcode: -931

sqlstate: 58005

SQL0950N The table or index cannot be dropped because it is currently in use.

Explanation: A DROP TABLE or DROP INDEX statement cannot be issued when an open cursor is currently using the table or index.

The statement cannot be processed. The table or index is not dropped.

User Response: Close any cursors required and resubmit the statement.

sqlcode: -950

sqlstate: 55006

SQL0951N The table cannot be referenced in a SET CONSTRAINTS statement because it is currently in use.

Explanation: A SET CONSTRAINTS statement cannot be issued for a table that has an open cursor.

The statement cannot be processed.

User Response: Ensure that the SET CONSTRAINTS statement does not reference tables that have open cursors.

sqlcode: -951

sqlstate: 55007

SQL0952N Processing was cancelled due to an interrupt.

Explanation: The user may have pressed the interrupt key sequence.

The statement processing is terminated. Some changes may have been applied to the database, but not committed, before termination occurred.

Federated system users: this situation can also be

detected by the data source.

User Response: Continue the application.

If installing the sample database, drop it and install the sample database again.

sqlcode: -952

sqlstate: 57014

SQL0954C **Not enough storage is available in the application heap to process the statement.**

Explanation: All available memory for the application has been used.

The statement cannot be processed.

User Response: Terminate the application on receipt of this message. Increase the database configuration parameter (*applheapsz*) to allow a larger application heap.

sqlcode: -954

sqlstate: 57011

SQL0955C **Sort memory cannot be allocated to process the statement.**

Explanation: Insufficient virtual memory is available to the database agent for sort processing.

The statement cannot be processed but other SQL statements may be processed.

User Response: Terminate the application on receipt of this message. Decrease the size of the sort heap parameter (*sortheap*) in the corresponding database configuration file.

sqlcode: -955

sqlstate: 57011

SQL0956C **Not enough storage is available in the database heap to process the statement.**

Explanation: All available memory for the database has been used.

The statement cannot be processed.

User Response: Terminate the application on receipt of this message. Increase the database configuration parameter (*dbheap*) to allow a larger database heap. If the number of I/O servers is near the high limit, reducing this number may also help.

sqlcode: -956

sqlstate: 57011

SQL0958C **The maximum number of open files has been reached.**

Explanation: The maximum number of file handles available to the database has been reached.

The statement cannot be processed.

User Response: Increase any parameter that affects the maximum number of open files allowed at the location of the database. This includes increasing the configuration parameter (*maxfilop*) to allow more file handles for the instance and terminating other sessions to reduce the number of file handles being used.

sqlcode: -958

sqlstate: 57009

SQL0959C **Not enough storage is available in the communication heap of the server to process the statement.**

Explanation: All available memory in the server communication heap has been used.

The command or statement cannot be processed.

User Response: Terminate the application on receipt of this message. Increase the size of the communication heap (*comheapsz*) parameter in the server workstation database manager configuration file.

NOTE: This message is applicable only for releases of DB2 prior to Version 2.

sqlcode: -959

sqlstate: 57011

SQL0960C The maximum number of files has been reached in the database.

Explanation: The maximum number of database files has been reached.

The statement cannot be processed.

User Response: Terminate the application on receipt of this message. Have all active applications disconnect from the database and then have them reconnect to the database. If the error continues, drop either tables, indexes, or both from the database, or split the database.

If installing the sample database, drop it and install the sample database again.

sqlcode: -960

sqlstate: 57011

SQL0964C The transaction log for the database is full.

Explanation: All space in the transaction log is being used.

If a circular log with secondary log files is being used, an attempt has been made to allocate and use them. When the file system has no more space, secondary logs cannot be used.

If an archive log is used, then the file system has not provided space to contain a new log file.

The statement cannot be processed.

User Response: Execute a COMMIT or ROLLBACK on receipt of this message (SQLCODE) or retry the operation.

If the database is being updated by concurrent applications, retry the operation. Log space may be freed up when another application finishes a transaction.

Issue more frequent commit operations. If your transactions are not committed, log space may be freed up when the transactions are committed. When designing an application, consider when to commit the update transactions to prevent a log full condition.

If deadlocks are occurring, check for them more frequently. This can be done by decreasing the

database configuration parameter DLCHKTIME. This will cause deadlocks to be detected and resolved sooner (by ROLLBACK) which will then free log space.

If the condition occurs often, increase the database configuration parameter to allow a larger log file. A larger log file requires more space but reduces the need for applications to retry the operation.

If installing the sample database, drop it and install the sample database again.

sqlcode: -964

sqlstate: 57011

SQL0965W There is no message text corresponding to SQL warning "<SQLCODE>" in the message file on this workstation. The warning was returned from module "<name>" with original tokens "<token list>"

Explanation: Database server returned code "<SQLCODE>" to your application. The warning code does not correspond to a message in the DB2 message file on this workstation.

User Response: Refer to the documentation for your database server to determine the cause for specified "<SQLCODE>"

SQL0966N The error mapping file "<name>" specified in the Database Connection Services directory cannot be found or cannot be opened.

Explanation: One of the following conditions is true:

- The error mapping file does not exist.
- The error mapping file is currently opened by another application.
- The error mapping file is not located in the expected path.
- The error mapping file is damaged.

The error mapping data could not be retrieved.

User Response: Release the file from the application in which it is open or reinstall or restore the original file.

sqlcode: -966

sqlstate: 57013

SQL0967N **The format of the error mapping file “<name>” specified in the Database Connection Services directory is not valid.**

Explanation: An error occurred while the program was reading the error mapping file.

The error mapping data could not be retrieved.

User Response: Correct all syntactic errors in the error mapping file.

sqlcode: -967

sqlstate: 55031

SQL0968C **The file system is full.**

Explanation: One of the file systems containing the database is full. This file system may contain the database directory, the database log files, or a table space container.

The statement cannot be processed.

User Response: Refer to the diagnostic log to determine which file system is full. Free system space by erasing unwanted files. Do not erase database files. If additional space is required, it may be necessary to drop tables and indexes identified as not required.

On unix-based systems, this disk full condition may be due to exceeding the maximum file size allowed for the current userid. Use the chuser command to update fsize. A reboot may be necessary.

sqlcode: -968

sqlstate: 57011

SQL0969N **There is no message text corresponding to SQL error “<error>” in the message file on this workstation. The error was returned from module “<name>” with original tokens “<token list>”.**

Explanation: The Database server returned SQLCODE “<error>” to your application. The error code does not correspond to a message in the DB2 message file on this workstation.

User Response: Refer to the documentation for your database server to determine the cause for the specified SQLCODE. Take action specified in the documentation for the database server to fix this problem.

Federated system users: isolate the problem to the data source failing the request (refer to the problem determination guide to determine which data source is failing to process the SQL statement). Find the “<error>” in the applicable manual at the data source. If the problem is data dependent, it may be necessary to examine the data being processed at the data source at the time the error occurred.

SQL0970N **The system attempted to write to a read-only file.**

Explanation: A file used by the database is marked read-only but requires write access.

The statement cannot be processed.

User Response: Terminate the application on receipt of this message (SQLCODE). Ensure that all database files are allowed both read and write access.

sqlcode: -970

sqlstate: 55009

SQL0972N **The database drive does not contain the correct diskette.**

Explanation: The diskette in the drive is not the database diskette.

The statement cannot be processed.

User Response: Place the required diskette into the drive. Do not remove a diskette if the application starts using a database that resides in it.

sqlcode: -972

sqlstate: 57019

SQL0973N **Not enough storage is available in the "<heap-name>" heap to process the statement.**

Explanation: All available memory for this heap has been used. The statement cannot be processed.

User Response: Terminate the application on receipt of this message (SQLCODE). Increase the configuration parameter for "<heap-name>" to increase the heap size.

sqlcode: -973

sqlstate: 57011

SQL0974N **The drive containing the database is locked.**

Explanation: The system reported that the drive containing the database is locked.

The statement cannot be processed.

User Response: Ensure no other processing (for example, CHKDSK) that can lock the drive is occurring on the system. Retry the operation.

If installing the sample database, drop it and install the sample database again.

sqlcode: -974

sqlstate: 57020

SQL0975N **A new transaction could not be started because database or instance "<name>" is quiesced by user "<username>". Quiesce type: "<type>".**

Explanation: Another user has quiesced the instance or database that you are attempting to use, and no new transactions are allowed until

the instance or database is no longer in the quiesced state.

Quiesce type "<type>" refers to the instance or database already quiesced and is a '1' for an instance and a '2' for a database.

User Response: Contact the user who currently has the instance or database quiesced to determine when DB2 will no longer be quiesced, and retry the request at that time.

sqlcode: -975

sqlstate: 57046

SQL0976N **The diskette drive door is open.**

Explanation: The drive door for the database is open.

The statement cannot be processed.

User Response: Close the drive door and retry the operation.

sqlcode: -976

sqlstate: 57021

SQL0977N **COMMIT state unknown.**

Explanation: The *tm_database* has become unavailable during COMMIT processing, and this has caused the result of the COMMIT to be unknown. Resynchronization of the databases will occur when the *tm_database* becomes available. Note that the transaction may be rolled back during resynchronization. Further execution of SQL statements can safely occur, however locks might be held until the resynchronization process is complete.

User Response: Verify that the connection to the *tm_database* can be made, for example by using CLP. If it cannot be made, follow the necessary actions for the SQLCODE returned to ensure that a connection can be established.

sqlcode: -977

sqlstate: 40003

SQL0978N The diskette is write-protected.

Explanation: A write operation was attempted to the database but the database diskette is write protected.

The statement cannot be processed.

User Response: Verify that you are using the correct diskette. Remove protection from the diskette, if necessary.

sqlcode: -978

sqlstate: 55009

SQL0979N COMMIT has failed against "<num>" databases for an application process running with SYNCPOINT of NONE. The failures include the following database alias and SQLSTATE pairs (a maximum of four can be returned): "<alias/SQLSTATE1>", "<alias/SQLSTATE2>", "<alias/SQLSTATE3>", "<alias/SQLSTATE4>".

Explanation: An application was connected to multiple databases, and a COMMIT was issued which failed for one or more of these connections.

Federated system users: if one of the failed connections is a federated server database where nicknames are used, then a commit against one of the data sources required for a nickname has failed.

User Response: Depending upon the nature of the application and the data being updated, the user might wish to discontinue the processing being done, log the failure, and issue the appropriate SQL to ensure that the changes intended by the application are consistently reflected across all databases involved.

If a full list of databases affected by COMMIT errors could not be returned please refer to the diagnostic log for a full list.

sqlcode: -979

sqlstate: 40003

SQL0980C A disk error occurred. Subsequent SQL statements cannot be processed.

Explanation: A disk error occurred that prevented successful execution of the current and subsequent SQL statements. The application program is not permitted to issue additional SQL statements. For example, a recovery routine associated with the application program cannot issue additional SQL statements. The database is marked as needing recovery and all applications using the database are prevented from accessing the database.

The statement cannot be processed.

User Response: Record all error information from the SQLCA, if possible. Terminate all applications using the database. Determine if the error is a hardware error and take the appropriate action as specified in the *Troubleshooting Guide* for hardware problems. Restart the database. If recovery is not possible, restore the database from a backup copy.

If installing the sample database, drop it and install the sample database again.

sqlcode: -980

sqlstate: 58005

SQL0982N A disk error occurred. However, subsequent SQL statements can be processed.

Explanation: A disk error occurred during processing of a temporary system file that prevented successful execution of the current SQL statement. However, subsequent SQL statements can be processed.

The statement cannot be processed.

User Response: Terminate the application on receipt of this message (SQLCODE).

sqlcode: -982

sqlstate: 58004

SQL0983N The transaction log does not belong to the current database.

Explanation: The signature stored in the log file does not match the database dependent signature. This error usually occurs when the user specified that the log file be stored in a directory different from where the database is stored. File redirection can be involved.

The statement cannot be processed.

User Response: Resubmit the command with the proper access to the log file.

sqlcode: -983

sqlstate: 57036

SQL0984C COMMIT or ROLLBACK was not successful. Subsequent SQL statements cannot be processed.

Explanation: A commit or rollback operation could not be processed successfully because of a system error. The application program is not permitted to issue additional SQL statements. For example, a recovery routine associated with the application program may not issue additional SQL statements. The database is marked as needing recovery and all applications using the database are prevented from accessing the database.

The statement cannot be processed.

User Response: Record the message number (SQLCODE) and all SQLCA error information, if possible. Terminate all applications using the database. Restart the database. If installing the sample database, drop it and install the sample database again.

If recovery is not possible, restore the database from a backup copy.

If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Contact your technical service representative with the following information:

Information required:

- Problem description
- SQLCODE
- SQLCA contents if possible
- Trace file if possible.

Federated system users: isolate the problem to the data source failing the request (refer to the *problem determination guide* to determine which data source is failing to process the SQL statement) and take the necessary diagnostic steps and database recovery procedures for that data source. The problem determination procedures and database recovery procedures for data sources vary, so refer to the applicable data source manuals.

sqlcode: -984

sqlstate: 58005

SQL0985C A file error occurred while processing the database catalogs. The database is not usable.

Explanation: The system is unable to recover from an I/O error on a catalog file.

The system cannot process any statements using the database.

User Response: Restore the database from a backup copy.

If installing the sample database, drop it and install the sample database again.

sqlcode: -985

sqlstate: 58005

SQL0986N A file error occurred while processing a user table. The table is not usable.

Explanation: The data in the table is no longer valid.

The system cannot process any statements using the table.

User Response: Restore the database from a

backup version if the database is inconsistent.

If installing the sample database, drop it and install the sample database again.

sqlcode: -986

sqlstate: 58004

SQL0987C The application control shared memory set cannot be allocated.

Explanation: The application control shared memory set cannot be allocated. This error is caused by insufficient memory resources for either the database manager or the environment in which its operations are being attempted. Memory resources that can cause this error include:

- The number of shared memory identifiers allocated in the system.
- The amount of paging or swapping space available in the system.
- The amount of physical memory available in the system.

User Response: One or more of the following:

- Ensure that sufficient memory resources are available to satisfy the database manager requirements and those of the other programs running on the system.
- Reduce the database manager memory requirement for this memory set by reducing the database configuration parameter, `app_ctl_heap_sz`, which affects it.
- Where appropriate, stop other programs using the system.

sqlcode: -987

sqlstate: 57011

**SQL0990C An index error occurred.
Reorganize the table.**

Explanation: An index has had considerable activity that used all the free space for indexes.

Federated system users: this situation can also be detected by the data source.

The statement cannot be processed.

User Response: Commit your work and retry the command. If the error continues, roll back your work. If errors still persist, reorganize the table, if possible.

Federated system users: isolate the problem to the data source failing the request (refer to the problem determination guide to determine which data source is failing to process the SQL statement) and follow the index re-creation procedures for that data source.

SQL0992C The release number of the precompiled program is not valid.

Explanation: The release number of the precompiled program (package) is not compatible with the release number of the installed version of the database manager.

The precompiled program (package) cannot be used with the current version of the database manager. The command cannot be processed.

User Response: Use only programs that are precompiled with a compatible release level of the database manager.

sqlcode: -992

sqlstate: 51008

SQL0993W The new path to the log (newlogpath) in the database configuration file is not valid.

Explanation: The path to the log file is not valid for one of the following reasons:

- The path does not exist.
- A file with the correct name was found in the specified path, but it is not a log file for this database.
- The database manager instance id does not have permission to access the path or a log file.

The requested change is not made.

User Response: To change the path to the log

file, submit a database configuration command with a valid value.

sqlcode: +993

sqlstate: 01562

SQL0994N Invalid usage of the application savepoint.

Explanation: The application savepoint function has been used inconsistently. The program attempted to perform one of the following:

- Request more than one active savepoint.
- Issue an end savepoint call without an active savepoint.
- Issue a rollback savepoint call without an active savepoint.

The function cannot be processed.

User Response: Correct the savepoint usage in the program.

SQL0995W The current path to the log file (logpath) is not valid. The log file path is reset to the default.

Explanation: The path to the log file is not valid for one of the following reasons:

- The path does not exist.
- A file with the correct name was found in the specified path, but it is not a log file for this database.
- The database manager instance id does not have permission to access the path or log file.

For circular logging, the log file is created in the default log path. For archive logging, the next log file is created in the default log path. The requested change is not made.

User Response: To change the path to the log file, submit a configuration command with a valid value.

sqlcode: +995

sqlstate: 01563

SQL0996N Cannot free pages for an object in a table space.

Explanation: There are corrupted internal database pages or internal logic errors in a table space. Details can be found in the system error log and/or the database manager error log.

User Response: Discontinue use of the object or table space. Contact IBM service to inspect the object and the table space.

sqlcode: -996

sqlstate: 58035

SQL0997W General informational message for transaction processing. Reason Code = "<XA-reason-code>".

Explanation: The SQLCODE 997 is only passed between components of the database manager and will not be returned to an application. It is used to carry XA return codes for non-error situations. The possible reason codes are:

- XA_RDONLY (3) - the transaction branch was read-only and has been committed.
- 64 - TM database indicates transaction to be committed on DUOW resynchronization
- 65 - TM database indicates transaction to be rolled back on DUOW resynchronization

User Response: No action required.

SQL0998N Error occurred during transaction or heuristic processing. Reason Code = "<reason-code>" Subcode = "<subcode>".

Explanation: An error is detected when processing a distributed transaction. The transaction is:

- Running under a Distributed Transaction Processing environment (such as those from CICS or other transaction managers).
- Performing heuristic operations.
- Updating multiple nicknames within a federated database, where each updated nickname represents a different data source. In this case, one of the data sources has failed

during transaction processing. The reason code returned in this case is the reason for the failure at the data source, not the federated database.

The possible reason codes (corresponding X/Open XA reason codes are shown in parenthesis) are:

- 01 - (XAER_ASYNC) asynchronous operation already outstanding.
- 02 - (XAER_RMERR) a resource manager error occurred in the transaction branch.
- 03 - (XAER_NOTA) the XID is not valid.
- 04 - (XAER_INVAL) invalid arguments were given. Possible subcodes are:
 - 01 - xa_info pointer is invalid, eg. the XAOpen string is null.
 - 02 - database name exceeds maximum length.
 - 03 - username exceeds maximum length.
 - 04 - password exceeds maximum length.
 - 05 - username specified but not a password.
 - 06 - password specified but not a username.
 - 07 - too many parameters in the xa_info string.
 - 08 - multiple xa_opens generate different RM ids for the same database name.
 - 09 - database name not specified.
 - 10 - invalid exe_type.
- 05 - (XAER_PROTO) routine invoked in improper context.
- 06 - (XAER_RMFAIL) resource manager unavailable.
- 07 - (XAER_DUPID) the XID already exists.
- 08 - (XAER_OUTSIDE) RM doing work outside global transaction.
- 09 - registration (ax_reg) with the transaction manager failed. Possible subcodes are:
 - 01 - Joining XID not found
 - 02 - dynamic library specified in the tp_mon_name configuration parameter could not be loaded.
- 10 - attempted to start a different transaction while suspended.

- 12 - unregistering (ax_unreg) with the transaction manager failed.
- 13 - ax interface failure: ax_reg() and ax_unreg() not found.
- 14 - The enlistment for DB2 with the Microsoft Distributed Transaction Coordinator has failed. MSDTC service may be down. You must terminate the current transaction.
- 35 - Heuristic operations are invalid for non-XA database.
- 36 - The XID is not known by the database manager.
- 37 - The transaction has already been heuristically committed.
- 38 - The transaction has already been heuristically rolled back.
- 39 - The transaction is not an indoubt transaction.
- 40 - Only rollbacks are allowed for this transaction.
- 41 - Transaction is not heuristically committed on some MPP subordinator nodes because of node failure.
- 69 - Database log ID mismatch during DUOW resynchronization.
- 85 - As a result of heuristic processing, the transaction has partially committed and rolled back.
- 210 - Only heuristic commits are allowed for this transaction. Some nodes are already in commit state.

User Response: For reason codes 1 through 8, an entry will be made in the system log because sometimes the SQLCA cannot be returned to the caller.

If the error is due to a failed data source associated with a nickname, the location of the failed data source will always appear in federated server's system log.

For reason code 4, verify the content of the xa open string and make necessary corrections.

For reason code 9, subcode 02, ensure that the tp_mon_name configuration parameter contains the name of the dynamic library in the external product which has the ax_reg() function used for

dynamic registration of transactions.

For reason code 14, ensure that the MSDTC service is active.

For reason code 35, you attempted to perform a heuristic operation against a database that only participates as a read-only resource manager in a global transaction. Examples are any DRDA databases such as DB2 on MVS. These type of non-XA databases would not have any XA indoubt transactions.

For reason codes 36, 37, and 38, you attempted to perform an invalid heuristic operation on an indoubt transaction. Either you specified the wrong XID, or a heuristic or resync operation had taken place since you recorded this XID. Perform a Heuristic Query request to get the current list of indoubt transactions to verify if you still need to perform your heuristic operation.

For reason code 39, the XID specified is for a transaction that has ended and is waiting for the two-phase commit process to begin. You can only perform heuristic operations on transactions that have entered the two-phase commit process and become indoubt transactions.

For reason code 40, an SQL statement was attempted under a transaction which has failed. An example of this is to attempt an SQL statement in a transaction thread that has successfully registered after a tightly coupled thread participating in the same transaction has abnormally terminated.

For reason code 41, you can find more information about the problem in the db2diag.log file. You need to restart DB2 on the failed nodes. It may be necessary to contact the system administrator for assistance.

For reason code 69, either the transaction manager (TM) database or the resource manager (RM) database or both are different from the ones when the indoubt transaction was generated. In other words, the TM database or RM database names could be referencing different database instances. The log ID mismatch may be caused by the following reasons:

- The database directory for the TM database at the RM instance is incorrect.
- The configuration may have been changed after the indoubt transaction was generated.
- The database may have been dropped and recreated. In that case, you can only commit or rollback the indoubt transaction heuristically.

For reason code 85, you are updating multiple data sources, and some of the data sources have been heuristically rolled back or committed, resulting in the transaction having partially committed and rolled back. With this reason code data is now in an inconsistent state, you must manually check every data source updated by the transaction to correct the data.

For reason code 210, some of the nodes are already in commit state. You have to perform heuristic commit to resolve the indoubt transaction.

General information collection procedure:

If you cannot resolve the problem identified by the reason codes, record the message number (SQLCODE), reason code, and the optional subcode in the message or the SQLCA in the system log.

If the failure is from a federated database, you should also record the location of the failed data source found in the federated server's system log.

If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Then, contact your technical service representative with the following information:

- Problem description
- SQLCODE, embedded reason code, and subcode
- SQLCA contents (if possible)
- Trace file (if possible)

- Location of the failed data source if the failure is from a federated server.

There might be additional information in the console or message logs of the transaction manager and the database manager.

sqlcode: -998

sqlstate: 58005

SQL1000 - SQL1099

SQL1000N “<alias>” is not a valid database alias name.

Explanation: The alias specified in the command or api is not valid. The alias must contain 1 to 8 characters (bytes in MBCS countries) and all the characters must be from the database manager base character set.

The command cannot be processed.

User Response: Resubmit the command with the correct alias.

SQL1001N “<name>” is not a valid database name.

Explanation: The syntax of the database name specified in the command is not valid. The database name must contain 1 to 8 characters and all the characters must be from the database manager base character set.

The command cannot be processed.

User Response: Resubmit the command with the correct database name.

sqlcode: -1001

sqlstate: 2E000

SQL1002N “<drive>” is not a valid drive.

Explanation: The drive specified in the command is not valid. The drive is a single character (A to Z) indicating the diskette drive or fixed-disk partition where the database or database directory is located.

The command cannot be processed.

User Response: Resubmit the command with the correct drive.

SQL1003N The password is not valid because the syntax is not correct or the password does not match the password of the specified database.

Explanation: The length of the password is expected to be 18 characters or less. However, if the password is to be verified for an APPC conversation, it must be 8 characters or less.

User Response: Ensure that the password is not longer than the limit allowed.

sqlcode: -1003

sqlstate: 28000

SQL1004C There is not enough storage on the file system to process the command.

Explanation: There is not enough storage on the specified file system to process the command.

In a partitioned database environment on OS/2 and Windows environments, each node in the partitioned database group must have the exact same physical hard drive specification (letter) available and useable (must contain useable space) for the CREATE DATABASE command to succeed. The physical hard drive letter is specified in the database manager configuration. If this field is left blank the default will be the hard drive where DB2 is installed on the instance owning machine (sqllib path).

The command cannot be processed.

User Response: Choose a different file system or erase some non-database files from the specified file system to make space for the database manager functions.

In a partitioned database environment on OS/2 and Windows environments, follow the following steps:

- Determine which hard drive specification (letter) is required. The drive letter is specified in the error message.
- Determine which node/s of the database partition are experiencing the problem. You can usually find this information in the db2diag.log file of the instance owning node.
- Correct the drive problem on the individual node that is experiencing the problem or change the drive specification in the database manager configuration so that the same drive is available (and has sufficient space) on each and every node of the partitioned database group.
- re-issue the command.

SQL1005N **The database alias "<name>" already exists in either the local database directory or the system database directory.**

Explanation: The alias name specified has already been used. If no alias is specified in the catalog database command, the database name is used as the alias. When a database is created, the alias name is the same as the database name.

This error may occur on the catalog database command when the alias already exists in the system database directory.

On the create database command this error may occur in one of the following situations:

- The alias already exists in the system database directory and local database directory.
- The alias already exists in the system database directory but not in the local database directory.
- The alias already exists in the local database directory but not in the system database directory.

User Response: For the catalog database command, uncatalog the alias from the system database directory and resubmit your original command or catalog the database with a different alias name.

For the create database command, do the following operations with respect to the above 3 situations:

- Drop the database using the alias name. Resubmit your original command.
- Uncatalog the alias. Resubmit your original command.
- Catalog the alias into the system database directory. Drop the database using the same alias. Resubmit your original command.

SQL1006N **The code page "<code page>" of the application does not match the code page "<code page>" of the database.**

Explanation: The application could not connect to the database because the active codepage is different from the one that was active when the database was created.

The command cannot be processed.

User Response: Exit the current application program and return to the operating system. Change the code page for the process and restart the application program.

SQL1007N **Error in finding pages for an object in a table space.**

Explanation: There are corrupted internal database pages or internal logic error for a table space. Details can be found in the system error log and/or the database manager error log.

User Response: Discontinue use of the object or table space. Contact IBM service to inspect the object and the table space.

sqlcode: -1007

sqlstate: 58034

SQL1008N **Invalid table space ID.**

Explanation: The table space ID specified does not exist. It is either larger than the current maximum table space ID, or the table space has been dropped.

User Response: Discontinue use of the

database. Save the diagnostic information in the error log and contact IBM service.

sqlcode: -1008

sqlstate: 58036

SQL1009N The command is not valid.

Explanation: The command is not supported when issued on a client-only workstation or against remote databases. An example of such a command is cataloging a local database.

The command cannot be processed.

User Response: Possible solutions include:

- Issue the specified command from a non client-only workstation or from the workstation where the database resides.
- Verify that the database is cataloged correctly.
- Issue a different command.

SQL1010N "<type>" is not a valid type parameter.

Explanation: The type specified in the Database Environment command is not valid. It must be '0' for an indirect database or '1' for a remote database.

In addition, on the Unix, OS/2, Windows NT, and Windows 95 platforms, the type can be '3' for a database that has a DCE global name.

The command cannot be processed.

User Response: Resubmit the command with a valid type.

SQL1011N No path was specified in the CATALOG DATABASE command for an indirect entry.

Explanation: A CATALOG DATABASE command was issued for an indirect entry but no path was specified. Indirect entries must specify the path where the database resides.

The command cannot be processed.

User Response: Resubmit the command with the required path or change the type.

SQL1012N No node name was specified in the CATALOG DATABASE command for a remote entry.

Explanation: There was no *nodename* parameter specified in the CATALOG DATABASE command for a remote entry. Remote entries must specify the node name of the database.

The command cannot be processed.

User Response: Resubmit the command with the *nodename* parameter or a different type.

SQL1013N The database alias name or database name "<name>" could not be found.

Explanation: The database name or alias specified in the command is not an existing database or the database could not be found in the (client or server) database directories.

User Response: Ensure that the specified database name exists in the system database directory. If the database name does not exist in the system database directory, then the database either does not exist or the database name has not been cataloged.

If the database name appears in the system database directory and the entry type is INDIRECT, ensure that the database exists in the specified local database directory. If the entry type is REMOTE, then ensure that the database exists and is cataloged on the database directories of the server node.

For CREATE DATABASE with the AT NODE clause, ensure that the database name is in the system database directory with an entry type of INDIRECT and with a catalog node number that does not equal -1.

Federated system users: in addition to the above, verify that the database names specified in SYSCAT.SERVERS are all valid. Correct any SYSCAT.SERVERS entry for which the database specified in that entry does not exist.

sqlcode: -1013

sqlstate: 42705

SQL1014W There are no more entries in the directory, file, or list being scanned.

Explanation: The scan of the directory, file, or list is finished.

User Response: No action is required.

SQL1015N The database must be restarted because the previous session did not conclude normally.

Explanation: The database must be restarted because of an abnormal termination of the previous session (for example, a power failure).

The command cannot be processed.

User Response: On receipt of this message (SQLCODE), an application can post a message warning the user that it takes time to recover the database. To restart the database, issue the RESTART DATABASE command. In a partitioned database server environment, the command must be issued on all nodes.

sqlcode: -1015

sqlstate: 55025

SQL1016N The local_lu alias "<name>" specified in the CATALOG NODE command is not valid.

Explanation: The local logical unit (*local_lu*) alias specified in the CATALOG NODE command is not permitted. The local logical unit alias is the local SNA logical unit alias and must be 1 to 8 characters and cannot contain blank characters.

The command cannot be processed.

User Response: Verify that the alias is a permitted logical unit name. Verify the characters used in the name. Resubmit the command with a valid logical unit name.

SQL1017N The mode parameter "<mode>" specified in the CATALOG NODE command is not valid.

Explanation: The *mode* specified in the CATALOG NODE command is not permitted.

The *mode* parameter identifies the communications profile the Communications Manager uses to set up a session. The mode must be 1 to 8 characters. Valid characters are uppercase or lowercase A through Z, 0 through 9, #, @, and \$. The first character must be alphabetic. The system changes lowercase characters to uppercase.

The command cannot be processed.

User Response: Verify that the name is a permitted mode name. Verify the characters used in the name. Resubmit the command with a correct mode.

SQL1018N The node name "<name>" specified in the CATALOG NODE command already exists.

Explanation: The node name specified in the *nodename* parameter of the CATALOG NODE command is already cataloged in the node directory on this file system.

The command cannot be processed.

User Response: If the *nodename* parameter is typed correctly, continue processing.

Uncatalog the cataloged node in the node directory if the node cataloged information is no longer valid and resubmit the command. If the node cataloged information is valid, define a new node name and resubmit the command using the new node name.

SQL1019N The node name "<name>" specified in the command is not valid.

Explanation: The node name specified in the command is not valid. The node name may be 1 to 8 characters and all of the characters must be from the database manager base character set.

The command cannot be processed.

User Response: Resubmit the command with the correct node name.

SQL1020C The node directory is full.

Explanation: The node directory cannot hold any more entries.

The command cannot be processed.

User Response: Uncatalog any unnecessary entries in the node directory.

SQL1021N The node name "<name>" specified in the UNCATALOG NODE command was not found.

Explanation: The *nodename* specified in the command could not be found in the node directory.

The command cannot be processed.

User Response: If the *nodename* parameter is correct, the node may already have been uncataloged, and processing can continue. Otherwise, resubmit the command with the correct node name.

SQL1022C There is not enough memory available to process the command.

Explanation: Not enough random access memory (RAM) is available to process the command.

If a remote procedure was invoked, the remote procedure may use a local variable space that is larger than the allowable maximum (4K).

If the statement involves a user-defined function (UDF), the memory set controlled by the *udf_mem_sz* database manager configuration parameter may be larger than the memory available.

The command cannot be processed.

User Response: Stop the application. Possible solutions include:

- Change the MEMMAN NO SWAP, NO MOVE option in the CONFIG.SYS file to SWAP, MOVE.
 - Remove background processes.
 - Decrease the values of the configuration parameters that define allocation of memory, including *udf_mem_sz* if UDFs are involved in the failing statement.
 - Install more random access memory (RAM).
 - If a remote procedure was invoked, ensure that the remote procedure uses a local variable space that is less than or equal to 4K.
 - If you are using Remote Data Services, increase the Remote Data Services heap size (*rsheapsz*) in the server and client configuration because at least one block is used per application.
 - On OS/2 systems, change PROTECT to NOPROTECT in the MEMMAN statement of the CONFIG.SYS file. This will make more memory space available to applications, but disables certain protection features of OS/2. Refer to the OS/2 documentation for more information and to determine if this will be appropriate for your environment.
 - On OS/2 systems, increase the value of the *min_priv_mem* database manager configuration parameter. This will cause the database manager to reserve more private memory space at db2start time.
- NOTE: This is applicable only for releases of DB2 prior to Version 2.

sqlcode: -1022

sqlstate: 57011

SQL1023C The communications conversation failed.

Explanation: An error occurred in the communications conversation.

The command cannot be processed.

User Response: Retry the original command. If the error persists, contact your communications administrator.

Federated system users: this situation can also be detected by the data source.

sqlcode: -1023

sqlstate: 08001

SQL1024N A database connection does not exist.

Explanation: There is no connection to a database. Other SQL statements cannot be processed unless an SQL CONNECT was previously executed.

The command cannot be processed.

User Response: If the error occurred when disconnecting from the database, continue processing. If the error occurred on another SQL statement, issue an SQL CONNECT statement and resubmit the command or statement.

sqlcode: -1024

sqlstate: 08003

SQL1025N The database manager was not stopped because databases are still active.

Explanation: The stop database manager command cannot be processed if there are any applications connected to databases under control of the database manager, or if any databases have been activated.

No action is taken.

User Response: Usually no action is required. To stop the database manager, all active applications must disconnect from all the databases they are using. Alternatively, the user can use the FORCE command to force applications to disconnect, and the DEACTIVATE command to deactivate the database.

SQL1026N The database manager is already active.

Explanation: A start database manager command is already processed.

The command cannot be processed.

User Response: Because the command is already processed, the application may continue processing.

SQL1027N The node directory cannot be found.

Explanation: The list node directory command cannot be processed because the node directory could not be found.

The command cannot be processed.

User Response: Issue a CATALOG NODE command with the appropriate parameters and resubmit the current command.

SQL1029N The partner_lu alias "<name>" specified in the CATALOG NODE command is not valid.

Explanation: The *partner_lu* alias specified in the CATALOG NODE command was not specified or contains characters that are not valid. The *partner_lu* alias is the partner SNA logical unit alias and must be 1 to 8 characters and must not contain blank characters.

The command cannot be processed.

User Response: Examine the *partner_lu* for a typing error. Verify that the alias is a permitted logical unit name. Verify the characters used in the alias. Resubmit the command with a correct *partner_lu*.

SQL1030C The database directory is full.

Explanation: Either the system database directory or the local database directory cannot hold any more entries.

The command cannot be processed.

User Response: Uncatalog any unnecessary entries in the directory. Create new databases on another file system if the local database directory is full.

SQL1031N The database directory cannot be found on the indicated file system.

Explanation: The system database directory or local database directory could not be found. A database has not been created or it was not cataloged correctly.

The command cannot be processed.

User Response: Verify that the database is created with the correct path specification. The Catalog Database command has a path parameter which specifies the directory where the database resides.

sqlcode: -1031

sqlstate: 58031

SQL1032N No start database manager command was issued.

Explanation: The start database manager command has not been processed. It must be processed before a stop database manager, any SQL statement, or utility can be issued.

The command cannot be processed.

User Response: Issue a start database manager command and resubmit the current command.

If using multiple logical nodes, ensure the DB2NODE environment variable is set correctly. The DB2NODE environment variable indicates the node the application will attempt to connect to. DB2NODE must be set to the node number of one of the nodes defined on the same host as the application.

sqlcode: -1032

sqlstate: 57019

SQL1033N The database directory cannot be accessed because it is being used.

Explanation: The database directory cannot be accessed if it is currently being updated. Also, the directory cannot be accessed for update if it is already being accessed for any reason. This situation could exist with either the system

database directory or the local database directory.

The command cannot be processed.

User Response: Wait until the access has completed, then resubmit the command.

sqlcode: -1033

sqlstate: 57019

SQL1034C The database is damaged. The application has been disconnected from the database. All applications processing the database have been stopped.

Explanation: Damage has occurred to the database. It cannot be used until it is recovered. All applications connected to the database have been disconnected and all processes running applications on the database have been stopped.

The command cannot be processed.

User Response: Issue a RESTART DATABASE command to recover the database. If the RESTART command consistently fails, you may want to restore the database from a backup. In a partitioned database server environment, check the syslog to find out if the RESTART command fails because of node or communication failures before restoring the database from a backup. If so, ensure the database manager is up and running and communication is available among all the nodes, then resubmit the restart command.

If you encountered this error during roll-forward processing, you must restore the database from a backup and perform roll-forward again.

Note that in a partitioned database environment, the RESTART database command is run on a per-node basis. To ensure that the database is restarted on all nodes, use the command:

```
db2_all db2 restart database <database_name>
```

This command may have to be run several times to ensure that all in-doubt transactions have been resolved.

If you are installing the sample database, drop it and install the sample database again.

sqlcode: -1034

sqlstate: 58031

SQL1035N The database is currently in use.

Explanation: One of the following conditions exists:

- Exclusive use was requested, but the database is already in use as a shared database by another user (in the same process).
- Exclusive use was requested, but the database is already in use as an exclusive database. (Two different processes are trying to access the same database.)
- The maximum number of connections to the database has been reached.
- The database is being used by another user on another system.
- Activate/Deactivate database is in progress.

The command cannot be processed.

User Response: Possible solutions include:

- Resubmit the command later when the database is not in use.
- Change the authorization to match the current user or wait until the database is not in use.
- Wait until the database is not in exclusive use.
- Wait until other users on another system have disconnected from the database.

sqlcode: -1035

sqlstate: 57019

SQL1036C An I/O error occurred while accessing the database.

Explanation: At least one database file has an I/O error:

- The system cannot open, read from, or write to a database file.

- The system cannot create the database because an error occurred while the system was creating a database file or a directory for the database.
- The system cannot drop the database because an error occurred while the system was deleting a database file or a directory for the database.
- The system cannot create the database because an interrupt was received while the system was creating or deleting a database file or a directory for the database.
- The system cannot locate the database subdirectory or database configuration file during connect.

The database cannot be used.

User Response: If the error occurred during the processing of a database, resubmit the command. If the error continues, restore the database from a backup version.

If the error occurred during CREATE DATABASE or DROP DATABASE, a subsequent CREATE DATABASE or DROP DATABASE command attempts to erase files and directories left from the unsuccessful CREATE DATABASE or DROP DATABASE command.

If installing the sample database, drop it and install the sample database again.

If the error occurred while trying to connect to a database, get a trace and call IBM support for the possibility of recovering the database.

sqlcode: -1036

sqlstate: 58030

SQL1037W The Node directory is empty.

Explanation: An attempt was made to read the contents of the node directory, but no entries existed.

User Response: No action is required.

sqlcode: +1037

sqlstate: 01606

SQL1038C An I/O error occurred while accessing the node directory.

Explanation: The node directory could not be accessed because of an I/O error.

The command cannot be processed.

User Response: Resubmit the command. If the error continues, remove the node directory (sqlnodir under the sqllib directory) and recatalog the node names on the network.

sqlcode: -1038

sqlstate: 58031

SQL1039C An I/O error occurred while accessing the database directory.

Explanation: Either the system database directory or the local database directory cannot be accessed. This error may occur not only when the system is cataloging or uncataloging a database but also when the system is accessing a database that is cataloged in the directory.

The command cannot be processed.

User Response: Possible solutions include:

- If the error occurred on a diskette system, verify that the correct diskette is in the drive and ready to use. Verify that it is not write-protected.
- If the database directory is damaged, restore the databases that were cataloged there from backup versions and catalog them.

If installing the sample database, drop it and install the sample database again.

sqlcode: -1039

sqlstate: 58031

SQL1040N The maximum number of applications is already connected to the database.

Explanation: The number of applications connected to the database is equal to the

maximum value defined in the configuration file for the database.

The command cannot be processed.

User Response: Wait for other applications to disconnect from the database. If more applications are required to run concurrently, increase the value for *maxappls*. After all applications disconnect from the database and the database is restarted, the new value takes effect.

sqlcode: -1040

sqlstate: 57030

SQL1041N The maximum number of concurrent databases have already been started.

Explanation: The application attempted to start an inactive database but the number of active databases already equals the maximum value defined in the system configuration file.

The command cannot be processed.

User Response: Wait for one of the databases to become inactive. If more databases are required to be active at the same time, increase the value for *numdb*. The new value takes effect after the next successful database manager start.

sqlcode: -1041

sqlstate: 57032

SQL1042C An unexpected system error occurred.

Explanation: A system error occurred. One possible reason for this error is that the database manager is not installed correctly or the environment is not set up correctly.

On OS/2, while trying to start the database manager, a very common reason for this error is a corrupted NET.ACC file.

The command cannot be processed.

User Response: If the error occurred on OS/2 while trying to start the database manager, and the NET.ACC file is suspected, replace the

NET.ACC files on the system with those on diskette 1 of the DB2 for OS/2 installation diskettes.

If the error occurred while trying to connect to a database, get a trace (instructions below) and call IBM support.

If the problem falls outside of the above suggestions, ensure that the system time and date is correctly set, and make sure your system has enough memory and swapping/paging space available.

Resubmit the current command.

If the error continues, stop the database manager and restart it.

If the error still continues, reinstall the database manager.

If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Contact your technical service representative with the following information:

Required information:

- Problem description
- SQLCODE or message number
- SQLCA contents if possible
- Trace file if possible.

Federated system users: if necessary isolate the problem to the data source rejecting the request (see the problem determination guide for procedures to follow to identify the failing data source). If the problem is with a data source follow the problem determination procedures for that data source.

sqlcode: -1042

sqlstate: 58004

**SQL1043C The database manager could not initialize the system catalogs.
Error "<error>" was returned.**

Explanation: The CREATE DATABASE command failed while initializing the system catalogs.

User Response: Record the message number (SQLCODE) and error in this message.

If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Then contact your technical service representative with the following information:

- Environment: Application
- Required information:
 - Problem description
 - SQLCODE or message number and error identifier
 - SQLCA contents if possible
 - Trace file if possible.

SQL1044N Processing was cancelled due to an interrupt.

Explanation: The user may have pressed the interrupt key sequence.

Processing is stopped.

Federated system users: this situation can also be detected by the data source.

User Response: Continue processing to handle the interrupt.

If installing the sample database, drop it and install the sample database again.

If starting the database manager, issue a db2stop before issuing any db2 commands.

sqlcode: -1044

sqlstate: 57014

SQL1045N The database was not found because it was not cataloged correctly.

Explanation: An indirect entry in the database directory points to another non-HOME entry.

The command cannot be processed.

User Response: Verify the entries in all the associated database directories with the directory scan commands.

sqlcode: -1045

sqlstate: 58031

SQL1046N The authorization ID is not valid.

Explanation: The authorization specified at logon is not valid for either the data source or the database manager. One of the following occurred:

- The authorization contains more than 8 characters.
- The authorization contains characters not valid for an authorization. Valid characters are A through Z, a through z, 0 through 9, #, @ and \$.
- The authorization is PUBLIC or public.
- The authorization begins with SYS, sys, IBM, ibm, SQL or sql.
- The authorization violates some data source-specific naming convention.

The command cannot be processed.

User Response: Log on with a valid authorization ID.

Federated system users: if necessary isolate the problem to the data source rejecting the request (see the problem determination guide for procedures to follow to identify the failing data source) and use an authorization ID valid for that data source.

sqlcode: -1046

sqlstate: 28000

SQL1047N The application is already connected to another database.

Explanation: An application cannot create a database while connected to another database.

Binding a bind file to one database while already connected to another database is not permitted.

The command cannot be processed.

User Response: Disconnect from the active database and resubmit the command.

SQL1048N The use parameter "<parameter>" in the START USING DATABASE or CONNECT TO command is not valid. it must be an S for shared access, an X for exclusive use or an N for exclusive use at single node. For DB2 Connect connections, only S is supported. N is only supported in MPP configuration.

Explanation: The *use* parameter in the START USING DATABASE or CONNECT TO command must be either an S for shared or an X for exclusive use. If connecting to a database using DB2 Connect, only shared access is allowed. Mnemonic equates for these values are provided in the SQLENV.H file.

The command cannot be processed.

User Response: Resubmit the command with a valid *use* parameter (preferably from the mnemonic equates).

SQL1049C The application state is in error. The database connection has been lost.

Explanation: The connection to the database has been lost.

The command cannot be processed.

User Response: Issue a CONNECT RESET statement.

SQL1050N The database cannot be uncataloged because it is a home database.

Explanation: The database specified in the UNCATALOG DATABASE command is a home database. Home databases cannot be uncataloged because their directory entries are deleted when the database is dropped.

The command cannot be processed.

User Response: Continue processing if the database name was specified correctly.

SQL1051N The path "<path>" for the database directory does not exist.

Explanation: The path specified in the database directory parameter of the command or in the database directory entry is not valid. There is no file system with that name.

The command cannot be processed.

User Response: Resubmit the command with the correct path for the database directory.

sqlcode: -1051

sqlstate: 57019

SQL1052N The database path "<path>" does not exist.

Explanation: The path specified in the *path* parameter of the command is not valid. There is no path with that name.

In a partitioned database environment on OS/2 and Windows environments, each node in the partitioned database group must have the exact same physical hard drive specification (letter) available and useable (must contain useable space) for the CREATE DATABASE command to succeed. The physical hard drive letter is specified in the database manager configuration. If this field is left blank the default will be the hard drive where DB2 is installed on the instance owning machine (sqllib path).

The command cannot be processed.

User Response: Resubmit the command with

the correct database path.

In a partitioned database environment on OS/2 and Windows environments, follow the following steps:

- Determine which hard drive specification (letter) is required. The drive letter is specified in the error message.
- Determine which node/s of the database partition are experiencing the problem. You can usually find this information in the db2diag.log file of the instance owning node.
- Correct the drive problem on the individual node that is experiencing the problem or change the drive specification in the database manager configuration so that the same drive is available (and has sufficient space) on each and every node of the partitioned database group.
- re-issue the command.

SQL1053N An interrupt is already being processed.

Explanation: The system is currently processing an interrupt so another interrupt is not honored.

The interrupt request is ignored.

User Response: Wait until the current interrupt processing finishes and resubmit the command.

SQL1054N A COMMIT is in progress and cannot be interrupted.

Explanation: The system is currently processing a COMMIT. The user entered an interrupt key sequence.

The interrupt request is ignored.

Federated system users: this situation can also be detected by the data source.

User Response: Wait until COMMIT is finished and resubmit the request.

SQL1055N A ROLLBACK is in progress and cannot be interrupted.

Explanation: The system is currently processing a ROLLBACK. The user entered an interrupt key sequence.

The interrupt request is ignored.

Federated system users: this situation can also be detected by the data source.

User Response: Wait until ROLLBACK is finished and resubmit the request.

SQL1056N There are already eight database directory scans open.

Explanation: Eight database directory scans in this process are already open. No more than eight open scans are allowed.

The command cannot be processed.

User Response: Issue one or more CLOSE DIRECTORY SCAN commands and resubmit the command.

sqlcode: -1056

sqlstate: 54029

SQL1057W The system database directory is empty.

Explanation: An attempt was made to read the contents of the system database directory, but no entries existed.

User Response: No action is required.

sqlcode: +1057

sqlstate: 01606

SQL1058N The handle parameter in the Directory Scan command is not valid.

Explanation: The *handle* parameter specified in the Directory Scan command is not valid. The *handle* must be the one returned from the OPEN DIRECTORY SCAN or the OPEN NODE DIRECTORY SCAN command.

The command cannot be processed.

User Response: Resubmit the command with a valid *handle* parameter.

SQL1059N A Get Next command cannot be processed because no Open Scan command was issued.

Explanation: A directory scan command was issued before the scan was opened.

The command cannot be processed.

User Response: Issue an OPEN DIRECTORY SCAN or OPEN NODE DIRECTORY SCAN command and resubmit the current command.

SQL1060N User “<authorization-ID>” does not have the CONNECT privilege.

Explanation: The specified authorization does not have the CONNECT privilege to access the database. The CONNECT privilege must be granted before the user can connect to a database.

Federated system users: this situation can also be detected by the data source.

The command cannot be processed.

User Response: Contact the system administrator or database administrator for the database and request a GRANT CONNECT for the authorization ID. Resubmit the command.

Federated system users: if necessary isolate the problem to the data source rejecting the request (see the problem determination guide for procedures to follow to identify the failing data source) and ensure that correct privileges have been granted for that data source.

sqlcode: -1060

sqlstate: 08004

SQL1061W RESTART completed successfully, but indoubt transactions exist against the database.

Explanation: A RESTART was successfully completed, except indoubt transactions were

discovered. The database is usable, but if the indoubt transactions are not resolved before the last connection to the database is dropped, then the database will again require a RESTART before it can be used.

User Response: Either resolve the indoubt transactions, or be prepared to RESTART the database whenever you wish to use it. If the transaction manager (TM) that was using the database (in an XA/DTP environment) is available, then the administrator should instruct the TM to resolve the indoubt transactions. Alternatively, with great caution, the administrator can use the CLP to heuristically complete the transactions.

Note that in a partitioned database server environment, the RESTART database command is run on a per-node basis. In order to ensure that the database is restarted on all nodes, use the following command:

```
db2_all db2 restart database <database_name>
```

Issuing the above command will resolve any in-doubt transactions if all nodes are operational.

This command may have to be run several times to ensure that all in-doubt transactions have been resolved.

SQL1062N The database path "<path>" was not found.

Explanation: The database *path* parameter specified in the command does not exist. If the path is not specified, the default path defined in the system configuration file is used, and it does not exist.

In a partitioned database environment on OS/2 and Windows environments, each node in the partitioned database group must have the exact same physical hard drive specification (letter) available and useable (must contain useable space) for the CREATE DATABASE command to succeed. The physical hard drive letter is specified in the database manager configuration. If this field is left blank the default will be the hard drive where DB2 is installed on the instance owning machine (sqllib path).

The command cannot be processed.

User Response: Verify the path or the default path and make sure they exist in the system. Resubmit the command.

In a partitioned database environment on OS/2 and Windows environments, follow the following steps:

- Determine which hard drive specification (letter) is required. The drive letter is specified in the error message.
- Determine which node/s of the database partition are experiencing the problem. You can usually find this information in the db2diag.log file of the instance owning node.
- Correct the drive problem on the individual node that is experiencing the problem or change the drive specification in the database manager configuration so that the same drive is available (and has sufficient space) on each and every node of the partitioned database group.
- re-issue the command.

SQL1063N The start database manager processing was successful.

Explanation: The command to start the database manager completed successfully.

SQL1064N The stop database manager processing was successful.

Explanation: The command to stop the database manager completed successfully.

SQL1065W The database was created, but an error occurred on one or more bind files in list "<list-name>". The following files were not bound: "<list>".

Explanation: One or more utilities were not bound to the database. The list file "<list-name>" contains a list of the bind files. The numbers in "<list>" indicate the relative positions of the unbound files in the list file.

The listed utility bind files are not bound to the newly created database.

User Response: The user may bind the indicated utilities to the database. The format option must not be used on the binder call.

SQL1066N DB2START processing was successful. IPX/SPX protocol support was not successfully started.

Explanation: The IPX/SPX protocol support was not successfully started. Remote clients cannot use IPX/SPX to connect to the server. Possible causes are:

- The workstation is not logged in to the NetWare file server.
- The workstation does not have authority to create an object in the NetWare file server bindery.
- Another database manager on the network is using the same object name specified in the database manager configuration file.

User Response: Ensure that the workstation is logged in to the NetWare file server, and has sufficient authority to create an object in the bindery at the file server. The user must be logged in as SUPERVISOR or equivalent. Also ensure that the object name specified in the database manager configuration file is unique for all database managers in the network. Make any corrections, run DB2STOP, and then run DB2START again.

If the problem continues, at the operating system command prompt type DB2TRC ON -L 0X100000. Run DB2START again, then at the command prompt, type DB2TRC DUMP filename to save the trace information. To turn trace off, type DB2TRC OFF. Contact your service coordinator with the trace information.

SQL1067N DB2STOP processing was not successful. IPX/SPX protocol support was not successfully stopped.

Explanation: The IPX/SPX protocol support was not successfully stopped. Possible causes are:

- The workstation is not logged in to the NetWare file server.
- The workstation does not have authority to delete an object in the NetWare file server bindery.

User Response: Ensure that the workstation is logged in to the NetWare file server, and has sufficient authority to delete an object in the bindery at the file server. The user must be logged in as SUPERVISOR or equivalent. Make any corrections, and run DB2STOP again.

If the problem continues, at the operating system command prompt type DB2TRC ON -L 0X100000. Run DB2STOP again, then at the command prompt, type DB2TRC DUMP filename to save the trace information. To turn trace off, type DB2TRC OFF. Contact your service coordinator with the trace information.

SQL1069N The database "<name>" is not a home database.

Explanation: The database is not a local database. A local database is cataloged as indirect in the system database directory and this entry references a home entry in the local database directory on the same node. Remote databases cannot be dropped.

The command cannot be processed.

User Response: If the specified database name was incorrect, resubmit the command with the correct database name. If the specified database name was correct and the intent is to remove the database name from the database directory, use the UNCATALOG DATABASE command.

SQL1070N The address of the database name parameter is not valid.

Explanation: The application program used an address that is not valid for the database name parameter. Either the address points to an unallocated buffer or the character string in the buffer does not have a null terminator.

The command cannot be processed.

User Response: Correct the application program so a correct address is used and the input string is null terminated.

SQL1071N The address of the database alias name parameter is not valid.

Explanation: The application program used an address that is not valid for this parameter. Either the address points to an unallocated buffer or the character string in the buffer does not have a null terminator.

The command cannot be processed.

User Response: Ensure that a valid address is used in the application program and the input string is null terminated.

SQL1072C The database manager resources are in an inconsistent state. the database manager may have been incorrectly terminated, or another application may be using system resources in a way which conflicts with the way the database manager uses system resources. System resource cleanup may be required.

Explanation: The request failed because the database manager resources are in an inconsistent state. This can occur if:

- DB2 was incorrectly terminated (on UNIX-based systems, for example, this may occur if the processes were terminated with the "kill" command, rather than the stop database manager command).
- Another application or user may have removed the database manager resources (on

UNIX-based systems, for example, a user with sufficient privilege may have accidentally removed an Interprocess Communication (IPC) resource owned by the database manager, using the "ipcrm" command).

- Another application's use of system resources conflicts with the database manager's use of system resources (on UNIX-based systems, for example, another application may be using the same keys that the database manager uses for creating IPC resources).
- Another instance of the database manager may be using the same resources. This could occur on UNIX-based systems if the two instances are on different file systems and the sqllib directories happen to have the same i-node (i-nodes are used to get the IPC keys).

User Response: Resource cleanup may be required:

- Remove all the database manager processes running under the instance id (on UNIX-based systems, you can use "ps -eaf -u <instance id> | grep db2" to list all the database manager processes running under the instance id, and the "kill -9 <process id>" command to remove them).
- Ensure that no other application is running under the instance id, and then remove all resources owned by the instance id (on UNIX-based systems, you can use the "ipcs | grep <instance id>" command to list all IPC resources owned by the instance id, and the "ipcrm -[q|m|s] <id>" command to remove them).
- If there is another instance of the database manager running, and it is on a different filesystem, and an i-node conflict is suspected, then change the i-node by the following steps:
 - create another directory at the same level as sqllib
 - move everything from under sqllib to the new directory
 - delete sqllib
 - rename the new directory to sqllib
- Restart the database manager instance.

SQL1073N The node directory release number is not correct.

Explanation: The node directory release number does not match the product expected release number. The node directory could be from a previous release.

User Response: Re-catalog all the node entries and try the command again.

SQL1074N The address of the password parameter is not valid.

Explanation: The application program used an address that is not valid for this parameter. Either the address points to an unallocated buffer or the character string in the buffer does not have a null terminator.

The command cannot be processed.

User Response: Ensure that a valid address is used in the application program and the input string is null terminated.

SQL1075N The address of the database comment parameter is not valid.

Explanation: The application program used an address that is not valid for this parameter. Either the address points to an unallocated buffer or the character string in the buffer does not have a null terminator.

The command cannot be processed.

User Response: Ensure that a valid address is used in the application program and the input string is null terminated.

SQL1076N The address of the count parameter is not valid.

Explanation: The application program used an address that is not valid for the *count* parameter.

The command cannot be processed.

User Response: Ensure that a valid address is used in the application program.

SQL1077N The address of the handle parameter is not valid.

Explanation: The application program used an address that is not valid for the *handle* parameter.

The command cannot be processed.

User Response: Ensure that a valid address is used in the application program.

SQL1078N The address of the buffer parameter is not valid.

Explanation: The application program used an address that is not valid for the *buffer* parameter.

The command cannot be processed.

User Response: Ensure that a valid address is used in the application program.

SQL1079N The address of the nodename parameter is not valid.

Explanation: The application program used a *nname* parameter address that is invalid. Either the address points to an unallocated buffer or the character string in the buffer does not have a null terminator.

The command cannot be processed.

User Response: Ensure that a valid address is used in the application program and the input string is null terminated.

SQL1080N The address of the local_lu name parameter is not valid.

Explanation: The application program used an address that is not valid for the *local_lu* name parameter. Either the address points to an unallocated buffer or the character string in the buffer does not have a null terminator.

The command cannot be processed.

User Response: Ensure that a valid address is used in the application program and the input string is null terminated.

SQL1081N The address of the partner_lu parameter is not valid.

Explanation: The application program has used an address that is not valid for the *partner_lu* parameter. Either the address points to an unallocated buffer or the character string in the buffer does not have a null terminator.

The command cannot be processed.

User Response: Ensure that a valid address is used in the application program and the input string is null terminated.

SQL1082N The address of the mode parameter is not valid.

Explanation: The application program has used an address that is not valid for the *mode* parameter. Either the address points to an unallocated buffer or the character string in the buffer does not have a null terminator.

The command cannot be processed.

User Response: Ensure that a valid address is used in the application program and the input string is null terminated.

SQL1083N The database description block cannot be processed, reason code=“<reason-code>”.

Explanation: The application issued a CREATE DATABASE command, but the database descriptor block (DBDB) could not be processed for one of the following reason codes:

- The address of the DBDB is not valid (reason code 01).
- The value of the SQLDBDID field of the DBDB is not valid (reason code 02). It should be set to the value SQLDBDB1.
- The value of the SQLDBCSS field of the DBDB is not valid (reason code 04).

The command cannot be processed.

User Response: Correct the error and resubmit the command.

SQL1084C Shared memory segments cannot be allocated.

Explanation: The database manager could not allocate segments while processing a Database Environment command or an SQL CONNECT statement.

The dbheap parameter may be too small.

User Response: Record the message number (SQLCODE). The cause of this error may be insufficient memory resources either for the database manager or the environment where operation of the database manager is being attempted. Validate that sufficient memory resources are available to satisfy the database manager requirements. You may also close any background processes that do not need to be active.

If sufficient memory resources exist and the problem continues, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Contact your technical service representative with the following information:

Required information:

- Problem description
- SQLCODE or message number
- SQLCA contents if possible
- Trace file if possible.

sqlcode: -1084

sqlstate: 57019

SQL1085N The application heap cannot be allocated.

Explanation: The application could not connect to the database because the database manager could not allocate the number of application heap 4K pages specified in the database configuration file. The system is out of 4K pages. The command cannot be processed.

User Response: Possible solutions are:

- Lower the size of the application heap (applheapsz) in the database configuration file.
- Reduce the maximum number of applications in the database configuration file.
- Remove background processes.
- Install more memory.

sqlcode: -1085

sqlstate: 57019

SQL1086C An operating system error “<error>” occurred.

Explanation: The command received an error from the operating system that prevents further processing.

The command cannot be processed.

User Response: Refer to the operating system user publications to determine the nature of the error.

SQL1087W The database was created, but an error occurred while opening the list file “<name>”. The utilities are not bound to the database.

Explanation: CREATE DATABASE could not open the list file containing the list of utility bind files. The list file should be located in the *bnd* subdirectory of the *sqllib* subdirectory.

The utility bind files are not bound to the newly created database.

User Response: Bind the utilities to the database. Do not use the format option on the binder call.

SQL1088W The database was created, but an error occurred while binding the utilities. The utilities are not bound to the database.

Explanation: CREATE DATABASE or MIGRATE DATABASE could not bind the utility bind files to the database.

The utility bind files are not bound to the newly

created or migrated database.

User Response: Bind the utilities to the database. Do not use the format option on the binder call.

SQL1089W The database was created, but the binding of the utilities was interrupted. The utilities are not bound to the database.

Explanation: CREATE DATABASE was interrupted while binding the utilities to the database. The interrupt key sequence may have been pressed.

The utility bind files are not bound to the newly created database.

User Response: Bind the utilities to the database. Do not use the format option on the binder call.

SQL1090C The release number of the precompiled application program or utility is not valid.

Explanation: The release number of the precompiled application program or utility is not compatible with the release number of the installed version of the database manager.

The error will also occur if the application program is using down-level database manager libraries or DLLs while accessing the installed version of the database manager configuration file.

The command cannot be processed.

User Response: Verify that there is no older version of the database manager libraries or DLLs that will be picked up for your application processing.

If the problem persists, repeat the precompile process, if possible, with the current database manager and use only application programs precompiled with a compatible release level of database manager.

SQL1091C The release number of the database is not valid.

Explanation: The release number of the database is not compatible with the release number of the installed version of the database manager. This can be the release number when the database was created, the release number when the database was last migrated, or the highest version, release, modification, and fixpak level defined in the catalog.

The command cannot be processed. If the error occurred during a Migrate or Restore, you are attempting to migrate or restore an incompatible release of database. If the error occurred on the first connection after removing a fixpak, you are attempting to connect to a database that is defined to use a higher level of database manager code.

User Response: Use only databases created with a compatible release of database manager. If the error occurred during a Migrate or Restore, you must first migrate the database to a release which can be migrated by the current release of the database manager. If the error occurred on the first connection after removing a fixpak, the database should be restored from a backup prior to using the utility to update the database to the fixpak level.

sqlcode: -1091

sqlstate: 08004

SQL1092N “<authorization-ID>” does not have the authority to perform the requested command.

Explanation: The user attempted to execute a command or operation without having the proper authority for that command or operation.

The command cannot be processed.

Federated system users: this situation can also be detected by the data source.

User Response: Log on as a user with the correct authority and retry the failed command or operation. Correct authorities may include SYSADM, SYSCTRL, SYSMAINT, and DBADM.

DBADM is granted on databases and all other authorities are determined by membership in the groups defined in the database manager configuration (eg. if *sysctrl_group* in the database manager configuration file is defined as 'beatles', then you must belong to the group 'beatles' to have SYSCTRL authority). Refer to the *Command Reference* or the *SQL Reference* for the listing of required authorities for the attempted command or operation.

Federated system users: if necessary isolate the problem to the data source rejecting the request (see the problem determination guide for procedures to follow to identify the failing data source) and ensure that the authorization id specified has the proper authority on that data source.

Contact the System Administrator for authority request assistance. Do not attempt to execute the command without appropriate authorization.

SQL1093N The user is not logged on.

Explanation: A user must be logged on before any command requiring authorization can be processed. Possible causes for this error include:

- Unable to get a user ID.
- An unexpected operating system error occurred when attempting to log on.
- The application is running in a background process.
- The user cancelled an attempted logon.

The command cannot be processed.

User Response: Log on with a valid user ID and resubmit the command. If several concurrent processes are attempting to log on, wait a few seconds and retry the logon procedure.

sqlcode: -1093

sqlstate: 51017

SQL1094N The node directory cannot be accessed because it is being updated.

Explanation: The node directory cannot be scanned or used while it is being updated. Also, the directory cannot be accessed for update if it is already being accessed for any reason.

The command cannot be processed.

User Response: Resubmit the command after the update is finished.

sqlcode: -1094

sqlstate: 57009

SQL1095N There are already eight node directory scans open.

Explanation: Eight node directory scans are already open in this process and no more than eight are allowed.

The command cannot be processed.

User Response: Issue one or more CLOSE NODE DIRECTORY SCAN commands. Resubmit the command.

sqlcode: -1095

sqlstate: 54029

SQL1096N The command is not valid for this node type.

Explanation: A command was issued on a node that does not support the command, or the system environment was found to be set up incorrectly for this node type. For example, a database was cataloged as LOCAL on a client node.

The command cannot be processed.

User Response: Verify that the command and parameters are correct for the node type. Also verify that the environment where the command is to be processed is correct. Resubmit the command.

SQL1097N The node name was not found in the node directory.

Explanation: Either the node name listed in the database directory for a remote database or the node name specified on an attach command was not cataloged in the node directory.

The command cannot be processed.

Federated system users: this situation can also be detected by the data source.

User Response: Verify that the node name listed in the database directory or as the object of the attach command is cataloged in the node directory. If the node is not listed in the node directory, submit a CATALOG NODE command.

Federated system users: in addition to the actions listed above, also verify that the node names listed in all the SYSCAT.SERVERS entries are correct. If the node is not listed in the node directory and the server is a member of the DB2 family, issue a CATALOG NODE command for that node.

sqlcode: -1097

sqlstate: 42720

SQL1098N The application is already connected to this database.

Explanation: A connection to a database was requested but the application is already connected to the specified database.

The command cannot be processed.

User Response: No action is necessary.

sqlcode: -1098

sqlstate: 53056

SQL1099N The diskette is write-protected.

Explanation: A write operation was attempted to a database residing on a write-protected diskette.

The statement cannot be processed.

User Response: Verify you are using the correct

diskette. Remove protection from the diskette, if necessary.

SQL1100 - SQL1199

SQL1100W **The node name "<name>" specified in the Catalog Database command has not been cataloged in the Node Directory.**

Explanation: The Catalog Database command specified node name "<name>" but that is not cataloged in the node directory. The node name must be cataloged before the remote database can be used.

The CATALOG DATABASE command completed successfully.

User Response: Issue a CATALOG NODE command.

SQL1101N **Remote database "<name>" on node "<node-name>" could not be accessed with the specified authorization id and password.**

Explanation: A connection to the remote database "<name>" on node "<node-name>" was requested, and the remote node does not accept the authorization ID and password combination specified for this node (either in the remote authorization tables or at runtime).

The request cannot be processed.

User Response: Resubmit the request with a valid authorization ID and password combination for the remote system.

SQL1102N **A database name was not specified.**

Explanation: No database name was provided to proceed with migration.

The statement cannot be processed.

User Response: Specify a database name for migration.

SQL1103W **The Migrate Database command processing was successful.**

Explanation: The Migrate command completed successfully.

Note that this message will also be returned if the database was already at the current level and did not need to be migrated.

Processing continues.

User Response: No action is required.

SQL1104N **The address of the program name parameter is not valid.**

Explanation: The application program has used an address for the program name that is not valid.

The command cannot be processed.

User Response: Use a correct address in the application program.

SQL1105N **The SQL CONNECT RESET statement is not allowed in a Remote Application Interface Procedure.**

Explanation: The remote application procedure contains an SQL CONNECT RESET statement.

The remote procedure is not allowed to continue.

User Response: Remove the SQL CONNECT RESET statement and retry the remote procedure.

sqlcode: -1105

sqlstate: 38003

SQL1106N **The specified DLL “<name>” module was loaded, but the function “<function>” could not be executed.**

Explanation: The function within the DLL (dynamic link library) cannot be found.

The command cannot be processed.

User Response: Ensure that the DLL module is built correctly. Reference the module in the definition file.

sqlcode: -1106

sqlstate: 42724

SQL1107N **An interrupt was received while loading the specified DLL “<name>”.**

Explanation: When loading the DLL (dynamic link library) module, the command was interrupted, perhaps by Ctrl+Break.

Processing is stopped.

User Response: Resubmit the command.

sqlcode: -1107

sqlstate: 42724

SQL1108N **An unexpected I/O error or operating system error was received while loading the specified DLL “<name>”.**

Explanation: An unexpected error occurred when trying to load the DLL (dynamic link library) module specified in the program name field.

The command cannot be processed.

User Response: Resubmit the current command. If the error continues, reinstall the database manager.

If reinstallation does not correct the error, record the message number (SQLCODE) and all information in the SQLCA if possible.

If trace was active, invoke the Independent Trace

Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Then contact your technical service representative.

sqlcode: -1108

sqlstate: 42724

SQL1109N **The specified DLL “<name>” could not be loaded.**

Explanation: The DLL (dynamic link library) module specified could not be found.

The command cannot be processed.

User Response: Ensure that the specified file is in a subdirectory identified in the system LIBPATH.

sqlcode: -1109

sqlstate: 42724

SQL1110N **A supplied data area was invalid and could not be used.**

Explanation: The data area is not initialized correctly.

The command cannot be processed.

User Response: Ensure that the user-supplied input SQLDA or output SQLDA fields are initialized correctly.

SQL1111N **The program name “<name>” specified was not valid.**

Explanation: The DLL (dynamic link library) module or program name syntax is not correct.

The command cannot be processed.

User Response: Ensure that the DLL or program name is specified correctly.

sqlcode: -1111

sqlstate: 42724

SQL1112N **There are not enough system resources to load the specified DLL “<name>”.**

Explanation: There is not enough random access memory (RAM) to load the specified DLL (dynamic link library) module.

The command cannot be processed.

User Response: Stop the application. Possible solutions are:

- Change the MEMMAN NO SWAP, NO MOVE option in the CONFIG.SYS file to SWAP, MOVE.
- Remove background processes.
- Decrease the values of the configuration parameters that define the allocation of memory.
- Install more random access memory (RAM).

sqlcode: -1112

sqlstate: 42724

SQL1113N **The data type for sqlvar “<n>” in the output SQLDA was changed from “<type 1>” to “<type 2>”.**

Explanation: The remote stored procedure changed the data type of the *n*th sqlvar in the output SQLDA; *n* is the sequence number of the first mismatched sqlvar.

The stored procedure does not return any data.

User Response: Correct the remote stored procedure so the data type information in the output SQLDA is not changed.

sqlcode: -1113

sqlstate: 39502

SQL1114N **The data length for the sqlvar “<n>” in the output SQLDA was changed from “<length 1>” to “<length 2>”.**

Explanation: The remote stored procedure changed the data length of the *n*th sqlvar in the

output SQLDA; *n* is the sequence number of the first mismatched sqlvar.

The stored procedure does not return any data.

User Response: Correct the remote stored procedure so the data length information in the output SQLDA is not changed.

sqlcode: -1114

sqlstate: 39502

SQL1115N **The number of sqlvars in the output SQLDA was changed from “<count 1>” to “<count 2>”.**

Explanation: The remote procedure changed the sqld field in the output SQLDA; sqld is the number of used sqlvars in the SQLDA.

The stored procedure does not return any data.

User Response: Correct the remote stored procedure so the sqld field in the output SQLDA is not changed.

sqlcode: -1115

sqlstate: 39502

SQL1116N **A connection to or activation for database “<name>” cannot be made because of BACKUP PENDING.**

Explanation: The specified database requires a backup to be taken to provide a starting point for roll-forward recovery.

No connection was made.

User Response: Back up the database by calling the BACKUP routine or, if roll-recovery is not required, set the log retain and user exit database configuration parameters off.

sqlcode: -1116

sqlstate: 57019

SQL1117N A connection to or activation for database "<name>" cannot be made because of ROLL-FORWARD PENDING.

Explanation: The specified database is enabled for roll-forward recovery and it has been restored but not rolled forward.

No connection was made.

Federated system users: this situation can also be detected by the data source.

User Response: Roll forward the database or indicate that you do not wish to roll forward by using the ROLLFORWARD command. Note that if you do not roll forward the database, the records written since the last backup of the database will not be applied to the database.

Federated system users: if necessary isolate the problem to the data source rejecting the request (see the problem determination guide for procedures to follow to identify the failing data source) and take recovery action appropriate to that data source to bring the data source to a point of consistency.

sqlcode: -1117

sqlstate: 57019

SQL1118N A connection to or activation of database "<name>" cannot be made because a previous backup is incomplete.

Explanation: The database is in an inconsistent state because a system error occurred during a backup function.

No connection was made.

Federated system users: this situation can also be detected by the data source.

User Response: Issue the BACKUP command and then try the command again.

Federated system users: if necessary isolate the problem to the data source rejecting the request (see the problem determination guide for procedures to follow to identify the failing data source) and issue the BACKUP command against

that data source prior to trying the command again.

sqlcode: -1118

sqlstate: 57019

SQL1119N A connection to or activation of database "<name>" cannot be made because a previous restore is incomplete.

Explanation: The database is in an inconsistent state because a system error occurred during a restore function.

No connection was made.

Federated system users: this situation can be detected by the data source.

User Response: Issue the RESTORE command and then try the command again.

Federated system users: if necessary isolate the problem to the data source rejecting the request (see the problem determination guide for procedures to follow to identify the failing data source) and issue the RESTORE command against that data source prior to trying the command again.

sqlcode: -1119

sqlstate: 57019

SQL1120N A connection to or activation of database "<name>" cannot be made because a previous backup or restore is incomplete.

Explanation: The database is in an inconsistent state because a system error occurred during a backup or restore function. It cannot be determined if backup or restore was being processed.

No connection was made.

Federated system users: this situation can also be detected by the data source.

User Response: Issue the BACKUP or RESTORE command, and then try the command again.

Federated system users: if necessary isolate the problem to the data source rejecting the request (see the problem determination guide for procedures to follow to identify the failing data source) and issue the BACKUP or RESTORE command against that data source prior to trying the command again.

sqlcode: -1120

sqlstate: 57019

SQL1121N The address of the node structure parameter is not valid.

Explanation: The application used an address for the node structure parameter that is not valid. Either the address points to an unallocated buffer or the buffer is not large enough to contain the required input.

The command cannot be processed.

User Response: Verify that the program allocates the required buffer area and resubmit the command.

SQL1122N The address of the protocol structure parameter is not valid.

Explanation: The application used an address for the protocol structure parameter that is not valid. Either the address points to an unallocated buffer or the address points to the incorrect protocol buffer.

The command cannot be processed.

User Response: Verify that the program allocates the required buffer area based on the protocol field in the node structure and resubmit the command.

SQL1123N The protocol "<type>" is not valid.

Explanation: The protocol type specified in the node structure for the Catalog command does not represent a recognized value. The valid protocol types are defined in the *sqlenv* header files.

The command cannot be processed.

User Response: Verify the protocol type in the node structure and resubmit the command.

SQL1124N The remote workstation name "<name>" is not valid.

Explanation: The remote workstation name specified in the NETBIOS protocol structure for the Catalog command is not specified or contains characters that are not valid. The workstation name must be 1 to 8 characters. Valid characters are A through Z, a through z, 0 through 9, #, @, and \$. The first character must be alphabetic or a special character: #, @, or \$. Lowercase characters are changed to uppercase by the system.

The command cannot be processed.

User Response: Verify the characters specified in the remote workstation name. Resubmit the command with a valid workstation name.

SQL1125N The adapter number "<number>" is not valid.

Explanation: The adapter number specified in the NETBIOS protocol structure for the Catalog command is not valid.

The command cannot be processed.

User Response: Verify that the adapter number is valid and resubmit the command.

SQL1126N The network ID "<ID>" is not valid.

Explanation: The network ID specified in the APPN protocol structure for the Catalog command is not valid. The network ID identifies the SNA network where the remote logical unit (LU) resides. The network ID must be 1 to 8 characters. Valid characters are A through Z, a through z, 0 through 9, #, @, and \$. The first character must be alphabetic or a special character: #, @, or \$. Lowercase characters are changed to uppercase by the system.

The command cannot be processed.

User Response: Verify the characters specified in the network ID. Resubmit the command with a valid network ID.

SQL1127N The remote LU name "<name>" is not valid.

Explanation: The remote logical unit (LU) name specified in the APPN protocol structure for the Catalog command is not valid. The remote LU name is the remote SNA logical unit name and must be 1 to 8 characters. Valid characters are A through Z, a through z, 0 through 9, #, @, and \$. The first character must be alphabetic or a special character: #, @, or \$. Lowercase characters are changed to uppercase by the system.

The command cannot be processed.

User Response: Verify the characters specified in the remote LU name. Resubmit the command with a remote LU name.

SQL1129N New DARI (Stored Procedure) process could not be started because there are insufficient resources for a new process to be created.

Explanation: New DARI (Stored Procedure) process could not be started because there are insufficient resources for a new process to be created.

User Response: Do one of the following:

- Reduce the number of users using DB2
- Increase the system process limit.

sqlcode: -1129

sqlstate: 42724

SQL1130N New DARI (Stored Procedure) process could not be started because the maximum number of DARI processes allowed to be present at the server at the same time has been reached.

Explanation: New DARI (Stored Procedure) process could not be started because the maximum number of DARI processes allowed to be present at the server at the same time has been reached.

User Response: Increase the maximum number of DARI processes, *maxdari*, configuration parameter. See the database configuration parameter *maxdari* for more details.

sqlcode: -1130

sqlstate: 42724

SQL1131N DARI (Stored Procedure) process has been terminated abnormally.

Explanation: The cause of this error may be:

- There was a coding error (e.g. segmentation violation) within the DARI routine.
- The DARI process has been terminated by another process through the use of a signal.

User Response: Reinitiate the DARI request after doing the following :

- Ensure that the DARI procedure is free from programming errors.
- Make sure that no user is sending a termination signal to the DARI process.

sqlcode: -1131

sqlstate: 38503

SQL1132N The command is not allowed to execute within a DARI (Stored Procedure).

Explanation: An illegal command has been made within the scope of DARI (Stored Procedure).

The DARI procedure is not allowed to continue.

User Response: Remove the illegal command in the DARI procedure and retry.

sqlcode: -1132

sqlstate: 38003

SQL1133N A pointer address inside an sqlvar (index = "<n>") of the output SQLDA was modified within the DARI (Stored Procedure) function.

Explanation: The "sqlind" or the "sqldata" pointer within the sqlvar of the output SQLDA has been altered within the user prepared DARI function.

The stored procedure does not return any data.

User Response: Correct the usage of the indicated sqlvar within the output SQLDA so that pointer addresses are not changed within the DARI (Stored Procedure) function routine.

sqlcode: -1133

sqlstate: 39502

SQL1134N For database authentication type CLIENT, the command is not allowed within the scope of DARI (Stored Procedure).

Explanation: All SYSADM commands are not allowed to execute within DARI (Stored Procedure) when the database authentication type is CLIENT.

The stored procedure does not return any data.

The DARI procedure is not allowed to continue.

User Response: Remove the illegal command in the DARI procedure and retry.

sqlcode: -1134

sqlstate: 38003

SQL1135N An invalid value was specified for the number of segments when creating a database.

Explanation: The value that was specified for the number of segments was out of range. The valid range is from 1 to 256.

User Response: Respecify the number of segments and try to create the database again.

SQL1136N An invalid value was specified for the default table space extent size (dft_extentsize) when creating a database.

Explanation: The value that was specified for the default table space extent size (dft_extentsize) is out of range. The valid range is from 2 to 256.

User Response: Correct the table space extent size and try again.

SQL1137W The database manager was unable to remove the database path or some of the containers when dropping database "<dbalias>". Cleanup is required.

Explanation: Either the list of containers could not be accessed or some failure occurred while attempting to remove them or the database directory.

User Response: System managed containers (directories) and database managed file containers may be manually removed using operating system commands. To release device containers, please call your IBM service representative for assistance.

If the log directory has been changed via the New Log Path configuration parameter, then manually unmount the log directory file system and remove the log and database directories.

SQL1138W The unique index "<name>" was migrated to support deferred uniqueness checking. A new index was not created.

Explanation: A CREATE INDEX operation was attempted on an existing index. Since the index had not yet been migrated to support deferred uniqueness checking, this migration was performed.

The migrated format of the unique index will allow multiple row updates to check the uniqueness of the columns of the index at the end of the update statement instead of when each row is updated.

User Response: No action is required.

sqlcode: +1138

sqlstate: 01550

SQL1139N The total size of the table space is too big.

Explanation: The size of the current table space is too big. The size of a REGULAR table space is limited to 0xFFFFF (16777215) pages while the size of a TEMPORARY/LONG table space is limited to 2 tera bytes (2 TB).

User Response: Check the diagnostic log file db2diag.log for details. Reduce the size of the table space and correct the SQL statement.

sqlcode: -1139

sqlstate: 54047

SQL1140W Estimated processor cost of "<estimate-amount1>" processor seconds ("<estimate-amount2>" service units) in cost category "<cost-category>" exceeds a resource limit warning threshold of "<limit-amount>" service units.

Explanation: The prepare of a dynamic INSERT, UPDATE, DELETE, or SELECT SQL statement resulted in a cost estimate that exceeded the warning threshold value specified in the resource limit specification table (RLST).

This warning is also issued if DB2's cost category value was "B", and the default action specified in the RLF_CATEGORY_B column in the RLST is to issue a warning.

estimate_amount1

The cost estimate (in processor seconds) if the prepared INSERT, UPDATE, DELETE or SELECT statement were to be executed.

estimate_amount2

The cost estimate (in service units) if the prepared INSERT, UPDATE, DELETE or SELECT statement were to be executed.

cost-category

DB2's cost-category for this SQL statement. The possible values are A or B.

limit-amount

The warning threshold (in service units) specified in the RLFASUWARN column of the RLST.

The prepare of the dynamic INSERT, UPDATE, DELETE, or SELECT statement was successful. An SQLCODE -905 might be issued if the execution of the prepared statement exceeds the ASUTIME value specified in the RLST.

User Response: Ensure that there is application logic to handle the warning to either allow the statement to execute or to stop the statement from being executed. If this SQLCODE was returned because the cost category value is "B", it might be that the statement is using parameter markers or that some statistics are not available for the referenced tables and columns. Make sure the administrator has run the utility RUNSTATS on the referenced tables. It might also be that UDFs will be invoked when the statement is executed, or for INSERT, UPDATE, or DELETE statements that triggers are defined on the changed table. Check the DSN_STATEMNT_TABLE or the IFCID 22 record for this statement to find the reasons this SQL statement has been put in cost category "B".

If the warning is caused by an SQL statement that is consuming too much processor resource, attempt to rewrite the statement to perform more efficiently. Another option is to ask the administrator to increase the warning threshold value in the RLST.

sqlcode: +1140

sqlstate: 01616

SQL1150N The address of the user id parameter is not valid.

Explanation: The application program used an address that is not valid for this parameter. Either the address points to an unallocated buffer

or the character string in the buffer does not have a null terminator.

The command cannot be processed.

User Response: Ensure that a valid address is used in the application program and the input string is null terminated.

SQL1160N The DOS "<network protocol>" TSR has not been loaded.

Explanation: The Terminate and Stay Resident (TSR) network driver for the specified communications protocol has not been loaded. The TSR must be loaded before attempting to use network communications.

User Response: Ensure that the TSR for the specified communications protocol has been successfully loaded, then run your application again.

SQL1163N The table cannot be enabled for data capture as the identifier name "<ident-name>" of type "<ident-type>" is too long.

Explanation: Data capture is not supported with certain identifier types exceeding specific lengths. In processing the attempted change, it was found that the identifier "<ident-name>" of type "<ident-type>" is too long. The identifier types and the maximum lengths allowed for data capture enablement are as follows:

- 1. column. Column names cannot be longer than 18 bytes for data capture to be enabled.
- 2. table. Table names cannot be longer than 18 bytes for data capture to be enabled.

User Response: If data capture is to be enabled for this table then ensure that the identifiers in question do not exceed the maximum sizes stated above. Otherwise disable data capture for the table in order to use longer identifier names.

sqlcode: -1163

sqlstate: 42997

SQL1164N The SQLDA or host variables, of type "<type>", used in the SQL statement are not valid. Reason code "<reason-code>", host variable/SQLVAR number "<var-number>"

Explanation: An error occurred while processing the SQLDA or host variable(s) in the SQL statement.

The call parameter list, which is created by the precompiler, may not be correct if the application programmer has modified the output of the precompiler, used a variable name beginning with SQL in the application program, or over-written the call parameter list in another way.

Also, if an SQLDA is passed directly by the application, it may not be initialized correctly.

Host variable/SQLDA types:

- 1 input host variable(s) or SQLDA
- 2 output host variable(s) or SQLDA

In SQL statements with host variables, use the host variable number to count in from the beginning of the statement (or substatement, in the case of compound SQL) to locate the invalid host variable. For statements using an SQLDA, the SQLVAR number is used to locate the invalid SQLVAR. For an input SQLDA, count only input host variables or SQLVARs; similarly for output. Note that this number is based at 1, and may not be applicable to all reason codes. Reason codes are interpreted as follows:

- 1 SQLDA.SQLN is less than SQLDA.SQLD
- 2 SQLVAR.SQLTYPE is invalid.
- 3 The length specified in SQLVAR.SQLLEN or SQLVAR2.SQLLONGLEN is incorrect for the SQL type given in SQLVAR.SQLTYPE.
- 4 A Large Object SQLVAR is present, but the SQLDOUBLED field of SQLDA.SQLDAID is not set to '2'.

- 5 An input varchar is supplied whose current length (from the length field of the varchar itself) is greater than the maximum length. The maximum length is determined by the declaration (in the case of a host variable) or by the setting of SQLVAR.SQLLEN (in the case of a user-defined SQLDA).
- 6 An input Large Object is passed in whose current length (either in the length field of the LOB itself, or as indicated by the SQLVAR2.SQLDATALEN pointer) is greater than the maximum length. The maximum length is determined by the declaration (in the case of a host variable) or by the setting of SQLVAR2.SQLLONGLEN (in the case of a user-defined SQLDA).
- 7 A double-byte character Large Object has an odd value indicated by the SQLVAR2.SQLDATALEN pointer, which is always in terms of bytes, even for DBCLOBs.
- 8 The SQLDATA pointer is invalid or points to insufficient storage.
- 9 The SQLIND pointer is invalid or points to insufficient storage.
- 10 The SQLDATALEN pointer is invalid or points to insufficient storage.
- 11 A specific number of input host variables/SQLVARS is expected for the current SQL statement.

The statement cannot be processed.

User Response: Examine the application program for any errors noted. Note that the programmer should not attempt to modify the precompiler output.

sqlcode: -1164

sqlstate: 07002

SQL1165W A value cannot be assigned to a host variable because the value is not within the range of the host variable's data type.

Explanation: A FETCH, VALUES, or SELECT into a host variable list failed because the host variable was not large enough to hold the retrieved value.

The statement processing continued returning a null indicator of -2.

User Response: Verify that table definitions are current and that the host variable has the correct data type. For the ranges of SQL data types, refer to the *SQL Reference*.

sqlcode: +1165

sqlstate: 01515

SQL1166W Division by zero was attempted.

Explanation: The processing of an arithmetic expression resulted in division by zero. This warning may be returned with a row other than the row which caused the warning. For example, this occurs with arithmetic expressions in predicates or when the query is processed using temporary tables. The warning may be issued again since it is also returned whenever a null indicator variable is set to -2.

The statement processing continued, using null as the result of the division expression and possibly returning a null indicator of -2.

User Response: Examine the SQL statement to determine the cause of the problem. If the problem is data dependent, it is necessary to examine the data processed when the error occurred.

sqlcode: +1166

sqlstate: 01564

SQL1167W Arithmetic overflow or other arithmetic exception occurred.

Explanation: The processing of an arithmetic expression has resulted in an arithmetic overflow, underflow or other arithmetic exception. This

warning may be returned with a row other than the row which caused the warning. For example, this occurs with arithmetic expressions in predicates or when the query is processed using temporary tables. The warning may be issued again since it is also returned whenever a null indicator variable is set to -2.

The statement processing continued, using null as the result of the arithmetic expression and possibly returning a null indicator of -2.

User Response: Examine the SQL statement to determine the cause of the problem. If the problem is data dependent, it is necessary to examine the data processed when the error occurred. Refer to the *SQL Reference* to see the valid ranges for the data types.

sqlcode: +1167

sqlstate: 01519

SQL1180N User defined function
"**<function-name>**" (specific name
"**<specific-name>**") has caused an
OLE error. HRESULT="**<hresult>**".
Diagnostic text: "**<message text>**".

Explanation: DB2 received an OLE error code while trying to communicate with the OLE automation server of user defined function (UDF) "**<function-name>**" (specific name "**<specific-name>**"). HRESULT "**<hresult>**" is the returned OLE error code, and "**<message text>**" is the retrieved error message.

The following shows a partial list of error messages, HRESULTS, and possible causes. The error message text may be changed by OLE, and new error codes may be added by OLE.

Unknown interface (0x80020001):
The specified OLE object does not support the IDispatch interface.

Type mismatch (0x80020005):
One or more of the SQL data types do not match the data types of the method arguments.

Unknown name (0x80020006):
The specified method name was not found for the specified OLE object.

Invalid number of parameters (0x8002000E):
The number of arguments passed to the method is different from the number of arguments accepted by the method.

Invalid class string (0x800401F3):
The specified ProgID or CLSID is invalid.

Class not registered (0x80040154):
CLSID is not properly registered.

Application not found (0x800401F5):
Local server EXE not found.

DLL for class not found (0x800401F8):
In-process DLL not found.

Server execution failed (0x80080005):
Creation of the OLE object failed.

User Response: Consult the *OLE Programmer's Reference Guide* for a complete documentation, including the meaning of the special terminology.

sqlcode: -1180

sqlstate: 42724

SQL1181N User defined function
"**<function-name>**" (specific name
"**<specific-name>**") has raised an
exception with description
"**<message text>**".

Explanation: The user defined function (UDF) "**<function-name>**" (specific name "**<specific-name>**") has raised an exception. The message text shows the textual description of the exception returned by the UDF.

User Response: The user will need to understand the meaning of the exception. See the author of the UDF.

sqlcode: -1181

sqlstate: 38501

SQL1182N **User defined function “<function-name>” could not initialize data source object of specified OLE DB provider. HRESULT=“<hresult>”. Diagnostic text: “<message-text>”.**

Explanation: The OLE DB data source object of the specified OLE DB provider could not be instantiated or initialized. “<hresult>” is the returned OLE DB error code, and “<message-text>” is the retrieved error message.

The following shows a partial list of HRESULTS and possible causes.

0x80040154
Class (OLE DB provider) not registered.

0x80040E73
The initialization string specified does not conform to specification.

0x80004005
Unspecified error (during initialization).

User Response: Verify proper registration of the OLE DB provider and correct initialization of the parameters in the connection string. Consult Microsoft OLE DB Programmer’s Reference and Data Access SDK for a complete documentation of HRESULT codes and Data Link API connection string syntax in OLE DB Core Components.

sqlcode: -1182

sqlstate: 38506

SQL1183N **User defined function “<function-name>” received an OLE DB error from specified OLE DB provider. HRESULT=“<hresult>”. Diagnostic text: “<message-text>”.**

Explanation: The specified OLE DB provider returned an OLE DB error code. “<hresult>” is

the returned OLE DB error code, and “<message-text>” is the retrieved error message.

The following shows a partial list of HRESULTS and possible causes.

0x80040E14
The command contained one or more errors, e.g. syntax error in pass-through command text.

0x80040E21
Errors occurred, e.g. the supplied columnID was invalid (DB_INVALIDCOLUMN).

0x80040E37
The specified table does not exist.

User Response: Consult Microsoft OLE DB Programmer’s Reference and Data Access SDK for a complete documentation of HRESULT codes.

sqlcode: -1183

sqlstate: 38506

SQL1184N **One or more EXPLAIN tables were created using an earlier version of EXPLAIN.DDL than DB2 V6.**

Explanation: EXPLAIN will not be able to insert into these tables until they are migrated using DB2EXMIG, or dropped and created with the current EXPLAIN.DDL for DB2 V6.

User Response: Either migrate the tables using DB2EXMIG, or drop and re-create them with the current EXPLAIN.DDL for DB2 V6. Re-issue the command.

sqlcode: -1184

sqlstate: 55002

SQL1200 - SQL1299

SQL1200N The object parameter is not valid.

Explanation: The value specified for the object parameter in the COLLECT DATABASE STATUS function call is not valid. Valid values are:

SQL_DATABASE

Status is to be collected for a single database.

SQL_DRIVE

Status is to be collected for all LOCAL databases on a single path.

SQL_LOCAL

Status is to be collected for all LOCAL databases.

The command cannot be processed.

User Response: Correct the object parameter and resubmit the COLLECT DATABASE STATUS function call.

SQL1201N The status parameter is not valid.

Explanation: The value specified for the status parameter in the COLLECT DATABASE STATUS function call is not valid. Valid values are:

SQL_SYSTEM

System status is to be collected.

SQL_DATABASE

System status and database status is to be collected.

SQL_ALL

System status, database status and user status is to be collected.

The command cannot be processed.

User Response: Correct the status parameter and resubmit the COLLECT DATABASE STATUS function call.

SQL1202N Status has not been collected.

Explanation: The value specified for the *handle* parameter in the GET NEXT DATABASE STATUS BLOCK or the FREE DATABASE STATUS RESOURCES function calls is not valid.

The handle must be the one returned as the positive function value from the COLLECT DATABASE STATUS function call.

This is the second COLLECT DATABASE STATUS call made from the process. The first COLLECT DATABASE STATUS call terminates and its handle can no longer be used.

The command cannot be processed.

User Response: Correct the *handle* parameter and resubmit the COLLECT DATABASE STATUS function call.

SQL1203N The database has no users connected.

Explanation: A request was made for user status on a database, but the database has no users connected.

The command cannot be processed.

User Response: Verify the database name and the connection status. Resubmit the command with a database currently being used.

SQL1204N The code page "<code page>" and/or country code "<country code>" is not supported by the installed version of the database manager.

Explanation: This version of the database manager does not support the active code page or country code or both.

The command cannot be processed.

Choose an active code page and country code supported by this version of the database manager.

Federated system users: if necessary isolate the problem to the data source rejecting the request (see the problem determination guide for procedures to follow to identify the failing data source) and choose an active code page and country code supported by both the federated server and the data source.

User Response: Exit the current program and return to the operating system.

sqlcode: -1204

sqlstate: 22522

SQL1205N The code page "<code page>" and/or country code "<country>" that has been specified is not valid.

Explanation: This version of DB2 does not support the active code page or country code or both, as specified by the Create Database command.

The command cannot be processed.

User Response: Refer to the Create Database command in the *Command Reference* for details of valid code page and country code pairs supported by DB2/2.

SQL1206N PRUNE LOGFILE is not supported in this database configuration.

Explanation: The PRUNE LOGFILE request is not supported if:

1. both LOGRETAIN and USEREXIT are set to NO, or
2. the active logfile path is set to a raw device.

User Response: Do not issue the PRUNE LOGFILE command for this database.

SQL1207N Communication Manager configuration file "<name>" cannot be found.

Explanation: The Communication Manager configuration file name specified on the CATALOG NODE command was not found either in the path specified or in the CMLIB directory on the default drive.

The command cannot be processed.

User Response: Resubmit the command with the correct configuration file name and path.

SQL1209W The partner_lu name "<name>" specified in the CATALOG NODE function does not exist. One was created.

Explanation: The logical partner unit name specified in the CATALOG NODE function does not exist in the Communications Manager configuration file located in the CMLIB directory on the default drive.

A logical unit profile of the specified name was created.

User Response: No action is required.

SQL1210W Default values were returned for one or more DOS Requester/WINDOWS Requester configuration file parameters.

Explanation: One or more of the DOS Requester/WINDOWS Requester configuration values returned was defaulted. The parameter may not be defined in the DOS Requester/WINDOWS Requester configuration file or the configuration file could not be opened or an error occurred reading the file.

User Response: Ensure that the DOS Requester/WINDOWS Requester configuration file exists in the appropriate path and that the parameters are explicitly defined.

SQL1211N The computer name "<name>" is not valid.

Explanation: The computer name specified in the NPIPE protocol structure for the Catalog command is not valid. The size of the computer name must be 15 characters or less.

The command cannot be processed.

User Response: Verify that the computer name is valid and resubmit the command.

SQL1212N The instance name "<name>" is not valid.

Explanation: The instance name specified for the Catalog command is not valid. The size of

the instance name must be 8 characters or less.

The command cannot be processed.

User Response: Verify that the instance name is valid and resubmit the command.

SQL1213N The change password LU name “<name>” is not valid.

Explanation: The change password logical unit (LU) name specified in the APPN protocol structure for the CATALOG command is not valid.

The change password LU name is the remote SNA LU name and must be 1 to 8 characters. Valid characters are A through Z, a through z, 0 through 9, #, @, and \$. The first character must be alphabetic or a special character: #, @, or \$. Lowercase characters are changed to uppercase by the system.

The command cannot be processed.

User Response: Verify the characters specified in the change password LU name.

Resubmit the command with a valid change password LU name.

SQL1214N The transaction program name “<name>” is not valid.

Explanation: The transaction program (TP) name specified in the APPN protocol structure for the CATALOG command is not valid.

The TP name is the remote SNA Application TP name and must be 1 to 64 characters. Valid characters are A through Z, a through z, 0 through 9, #, @, and \$. The first character must be alphabetic or a special character: #, @, or \$.

The command cannot be processed.

User Response: Verify the characters specified in the TP name.

Resubmit the command with a TP name.

SQL1215N The LAN adapter address “<address>” is not valid.

Explanation: The LAN adapter address specified in the APPN protocol structure for the CATALOG command is not valid.

The LAN adapter address is the remote SNA LAN adapter address and must be a 12-hexadecimal number.

The command cannot be processed.

User Response: Verify the LAN adapter address.

Resubmit the command with a valid LAN adapter address.

SQL1216N Graphic data and graphic functions are not supported for this database.

Explanation: The code page of the database does not support graphic data. The data types GRAPHIC, VARGRAPHIC, and LONG VARGRAPHIC are not valid for this database. The GRAPHIC literal and the VARGRAPHIC scalar functions are not valid for this database.

The statement cannot be processed.

Federated system users: this situation can also be detected by the data source.

User Response: Resubmit the command with valid data types.

sqlcode: -1216

sqlstate: 56031

SQL1217N The REAL data type is not supported by the target database.

Explanation: An SQL operation is using a data type of REAL (single-precision floating point number) as an input or output variable. The REAL data type is not supported on the target database for this request.

The statement is not processed.

User Response: Replace the declaration of any host variable that corresponds to the SQL data

type of REAL with a declaration that corresponds to an SQL data type of DOUBLE in your application.

sqlcode: -1217

sqlstate: 56099

SQL1218N **There are no pages currently available in bufferpool "<buffpool-num>".**

Explanation: All of the pages in the bufferpool are currently being used. A request to use another page failed.

The statement cannot be processed.

User Response: The bufferpool is not large enough to provide pages to all database processes or threads at this time. The bufferpool is too small or there are too many active processes or threads.

The statement may be successful if executed again. If this error occurs frequently, some or all of the following actions may prevent further failures:

1. increase the bufferpool size
2. decrease the maximum number of database agents and/or connections
3. decrease the maximum degree of parallelism
4. decrease the prefetch size for table spaces that are in this bufferpool
5. move some table spaces into other bufferpools.

sqlcode: -1218

sqlstate: 57011

SQL1219N **The request failed because private virtual memory could not be allocated.**

Explanation: The instance was unable to allocate enough private virtual memory to process the request. This may be a result of shared memory allocations made in other (unrelated) processes.

User Response: The problem may be corrected by:

- On OS/2, increasing the *min_priv_mem* configuration parameter. This will result in more private virtual memory being reserved when the instance is started.
- Stopping other applications running on the machine, especially those that use large amounts of shared memory.

sqlcode: -1219

sqlstate: 57011

SQL1220N **The database manager shared memory set cannot be allocated.**

Explanation: The database manager could not allocate its shared memory set. The cause of this error may be insufficient memory resources either for the database manager or the environment in which its operation is being attempted. Memory resources that can cause this error include:

- The number of shared memory identifiers allocated in the system
- The amount of paging or swapping space available in the system
- The amount of physical memory available in the system

User Response: One or more of the following:

- Validate that sufficient memory resources are available to satisfy the database manager's requirements, and those of the other programs running on the system.
- Reduce database manager's memory requirement for this memory set by reducing the database manager configuration parameters which affect it. These are: *maxagents*, *maxdari* and, *numdb*.
- Where appropriate, stop other programs using the system.

SQL1221N The Application Support Layer heap cannot be allocated.

Explanation: The Application Support Layer heap could not be allocated. The cause of this error may be insufficient memory resources either for the database manager or the environment in which its operations are being attempted. Memory resources that can cause this error include:

- The number of shared memory identifiers allocated in the system
- The amount of paging or swapping space available in the system
- The amount of physical memory available in the system

User Response: One or more of the following:

- Validate that sufficient memory resources are available to satisfy the database manager's requirements, and those of the other programs running on the system.
- Reduce the *aslheapsz* configuration parameter.
- Where appropriate, stop other programs using the system.

sqlcode: -1221

sqlstate: 57011

SQL1222N Not enough storage is available in the Application Support Layer heap to process the request.

Explanation: All available memory in the Application Support Layer heap has been used.

User Response: Increase the *aslheapsz* configuration parameter.

sqlcode: -1222

sqlstate: 57011

SQL1223N An agent could not be started to service this request.

Explanation: The request failed because the *maxagents* configuration parameter limit would be exceeded.

User Response: Increase the *maxagents* configuration parameter, and/or reduce the number of users using the database.

sqlcode: -1223

sqlstate: 57019

SQL1224N A database agent could not be started to service a request, or was terminated as a result of a database system shutdown or a force command.

Explanation: The message may be attributed to any of the following cases.

- The database manager has not been started on the database server
- The database manager was stopped
- The database manager has already allocated the maximum number of agents
- The database agent was forced off by the system administrator
- The database agent was terminated due to an abnormal termination of a key database manager process
- The application is using multiple contexts with local protocol. In this case the number of connections is limited by the number of shared memory segments to which a single process can be attached. For example, on AIX, the limit is ten shared memory segments per process.

Additional federated server cases are:

- The maximum number of processes per user (maxuproc on AIX) at the operating system level has been exceeded.
- In the client/server environment using the TCP/IP protocol, the port number assigned to the TCP/IP service name on the client is not the same as the port number on the server.

This situation can be detected by federated server or by the data source.

User Response: Reissue the database request. If a connection cannot be established, then ensure that the database manager has been started successfully. Additionally, ensure that the

maxagents database manager configuration parameter is appropriately configured.

Federated system users, should also:

- Isolate the problem to the data source rejecting the request (see the *problem determination guide* for procedures to follow to identify the failing data source) and ensure that the communication subsystem is active and that the database manager and required communication protocol server processes have been started on the database server.
- For AIX operating systems, check the setting of maxuproc and change it if needed. maxuproc restricts the number of processes that can run under a given federated server. The default setting is 40.

You can check the current setting of maxuproc with the command:

```
lsattr -E -l sys0
```

To view the number of processes currently running under a given federated server, use the command:

```
ps -ef | grep instdj1 | wc -l
```

where “instdj1” is the instance name of the federated server.

To change maxuproc, use the command:

```
chdev -l sys0 -a maxuproc='nn'
```

where **nn** is the new integer value of maxuproc.

If the application is using multiple contexts with local protocol, then either reduce the number of connections in the application, or switch to another protocol (for example, TCP/IP). For users on AIX version 4.2.1 or newer, the environment variable EXTSHM can be set to ON to increase the number of shared memory segments to which a single process can be attached.

sqlcode: -1224

sqlstate: 55032

SQL1225N **The request failed because an operating system process, thread, or swap space limit was reached.**

Explanation: An operating system process, thread, or swap space limit was reached. On UNIX-based systems, this may mean that the maxuproc value is too low. On OS/2-based systems, this may mean that the THREADS CONFIG.SYS value is too low.

User Response: Increase the limit which was reached (or have your system administrator increase it). On UNIX-based systems, the maxuproc limit can be changed with the chdev command.

sqlcode: -1225

sqlstate: 57049

SQL1226N **The maximum number of coordinating agents are already started.**

Explanation: The number of coordinating agents started is already equal to the maximum value defined in the system configuration file.

The statement cannot be processed.

User Response: Wait for other applications to disconnect from the database. If one or more applications are required to run concurrently, increase the value for max_coordagents. The new value takes effect after the next successful database manager start.

sqlcode: -1226

sqlstate: 57030

SQL1227N **The catalog statistic "<value>" for column "<column>" is out of range for its target column, has an invalid format, or is inconsistent in relation to some other statistic. Reason Code = "<code>"**

Explanation: The value or format of a statistic provided for an updateable catalog is either

invalid, out of range, or inconsistent. The most common checks for value, range and format are (corresponding to "<code>"):

- 1 Numeric statistics must be -1 or ≥ 0 .
- 2 Numeric statistics representing percentages (eg. CLUSTERRATIO) must be between 0 and 100.
- 3 HIGH2KEY, LOW2KEY related rules :
 - The datatype of any HIGH2KEY, LOW2KEY value must be the same as the datatype of the corresponding user column.
 - The length of HIGH2KEY, LOW2KEY value must be the smaller of 33 or the target column's datatype's maximum length.
 - HIGH2KEY must be $>$ LOW2KEY whenever there are 3 or more distinct values in the corresponding column. In the case of less than 3 distinct values in the column, HIGH2KEY can be equal to LOW2KEY.
- 4 PAGE_FETCH_PAIRS related rules :
 - Individual values in the PAGE_FETCH_PAIRS statistic must be separated by a series of blank delimiters.
 - Individual values in PAGE_FETCH_PAIRS statistics must not be longer than 10 digits and must be less than the maximum integer value (MAXINT = 2147483647).
 - There must always be a valid PAGE_FETCH_PAIRS value if the CLUSTERFACTOR is > 0 .
 - There must be exactly 11 pairs in a single PAGE_FETCH_PAIR statistic
 - buffer size entries of PAGE_FETCH_PAIRS must be ascending in value. Also, any buffer size value in a PAGE_FETCH_PAIRS entry cannot be greater than MIN(NPAGES, 524287) where NPAGES is the number of pages in the corresponding table.

- "fetches" entries of PAGE_FETCH_PAIRS must be descending in value, with no individual fetches entry being less than NPAGES. Also, any "fetch" size value in a PAGE_FETCH_PAIRS entry must not be greater than CARD (cardinality) statistic of the corresponding table.
 - If buffer size value is the same in two consecutive pairs, then page fetch value must also be the same in both the pairs.
- 5 CLUSTERRATIO and CLUSTERFACTOR related rules :
 - Valid values for CLUSTERRATIO are -1 or between 0 and 100
 - Valid values for CLUSTERFACTOR are -1 or between 0 and 1
 - Either CLUSTERRATIO or CLUSTERFACTOR must be -1 at all times.
 - If CLUSTERFACTOR is a positive value, it must be accompanied by a valid PAGE_FETCH_PAIR statistic.
 - 6 The cardinality of a column (COLCARD statistic in SYSCOLUMNS) cannot be greater than the cardinality of its corresponding table (CARD statistic in SYSTABLES).
 - 7 No statistics are supported for columns with datatype: LONG VARCHAR, LONG VARGRAPHIC, BLOB, CLOB, DBCLOB.
 - 8 A statistic is inconsistent with other related statistics for this entity or is invalid in this context.

User Response: Make sure the new catalog statistic satisfies the above range/length/format checks.

Make sure that any updates to statistics are consistent in their inter-relationships (eg. cardinality).

sqlcode: -1227

sqlstate: 23521

SQL1228W DROP DATABASE has completed but the database alias name or database name "<name>" could not be found on "<num>" nodes.

Explanation: The drop database command has completed successfully, however, there are some nodes where the database alias or database name was not found. It is possible that DROP DATABASE AT NODE was already performed on these nodes.

User Response: This is a warning message only. No response is necessary.

SQL1229N The current transaction has been rolled back because of a system error.

Explanation: One of the following has occurred:

1. A system error, such as node failure or connection failure, has occurred. The application is rolled back to the previous COMMIT.

Note that in the case of DB2 utility functions, the behavior is described below:

Import The application is rolled back. If the COMMITCOUNT parameter was used, the operation is rolled back to a previous committed point.

Reorg The operation is aborted and must be resubmitted.

Redistribute

The operation is aborted, however, some of the operation may have been successful. Issuing the request again with the "continue" option will restart the operation from the point of failure.

Rollforward

The operation is aborted and the database is still in rollforward pending state. The command must be resubmitted.

Backup/Restore

The operation is aborted and must be resubmitted.

2. The service port numbers assigned for FCM (Fast Communication Manager) communications are not the same on all nodes in the DB2 instance. Check the services file being used on all nodes to ensure that the ports are the same. The ports are defined using the format:

```
DB2_<instance>      xxxx/tcp
DB2_<instance>_END   xxxx/tcp
```

where <instance> is the DB2 instance name and xxxx is the port number. Ensure that these port numbers are not being used for DB2 remote client support.

User Response:

1. Try the request again. If the error persists, you can find more information about the problem in the db2diag.log file. It may be necessary to contact the system administrator for assistance since the most common reason for this error is that a node has failed.

Note that in an SP environment where the high speed switch is used, this error can be a symptom of a failure in the high speed switch.

2. Update the service ports to be the same on all nodes and try the request again.

The sixth sqlerrd field of the SQLCA will indicate the node number that detected the node failure. On the node that detected the failure a message will be placed in the db2diag.log that identifies the failed node.

sqlcode: -1229

sqlstate: 40504

SQL1230W At least one agent id specified could not be forced.

Explanation: At least one agent id specified on the Force command could not be forced. Causes of this warning may be:

- A nonexistent or invalid agent id was specified.
- The agent disconnected from the database manager between the time that the agent ids were collected and the Force command was issued.
- The agent id specified was for a parallel agent (exists on DB2 Enterprise - Extended Edition only) which cannot be forced.

User Response: If a nonexistent or invalid agent id was specified, retry the command using the valid agent id.

SQL1231N Invalid Force count specified.

Explanation: The value specified for the count parameter of the Force command is not valid. The value specified must either be a positive integer or SQL_ALL_USERS. A value of 0 will result in an error.

User Response: Correct the value of count and resubmit the command.

SQL1232N Invalid Force mode specified.

Explanation: The value specified for the mode parameter of the Force command is not valid. Only asynchronous mode is supported for the Force command. The parameter must be set to the value SQL_ASYNC.

User Response: Set the mode to SQL_ASYNC and resubmit the command.

SQL1233N The use of this clause or scalar function is supported only for graphic data that is UCS-2.

Explanation: UCS-2 is not supported for this database. The support of UCS-2 is required for the following:

- Specifying a graphic string expression as the first argument of the VARCHAR scalar function
- Specifying a character string expression as the first argument of the VARGRAPHIC scalar function when a second argument is specified

- Specifying a UCS-2 hexadecimal constant using the format UX'hex-digits'

The statement cannot be processed.

User Response: Resubmit the command with valid data types.

sqlcode: -1233

sqlstate: 560AA

SQL1240N The maximum number of quiescers has been reached.

Explanation: An attempt was made to acquire a quiesce state on a table space which has already been quiesced by 5 processes.

User Response: Wait for one of the processes to release its quiesce state and try again.

SQL1241N An invalid value was specified for the "<tbs-name>" table space definition when creating a database. Attribute is "<string>".

Explanation: The value for a table space attribute was out of range. See the Data Structures section of Application Development Guide for the format of the sqletsdesc structure used for the create database api. The identified attribute is the field name of this structure.

User Response: Correct the create database request.

SQL1244W Disconnect for transaction manager database "<database-name>" will occur at next COMMIT.

Explanation: A disconnect has been issued against a database which is acting as the TM database. The disconnect cannot be completed until the next COMMIT is processed.

User Response: If it is necessary that the database which is acting as the TM database be disconnected immediately, issue a COMMIT statement before execution continues.

sqlcode: +1244

sqlstate: 01002

SQL1245N Connection limit has been reached. No more connections are allowed from this client.

Explanation: The maximum number of concurrent database connections has been reached for an environment where the number of connections is restricted or must be predefined. The primary example of where this would occur is when the NETBIOS protocol is being used.

User Response: Possible actions:

- Use the SET CLIENT command or API to set the MAX NETBIOS CONNECTIONS field to the maximum number of concurrent connections required. This must be done before any connections are made.

sqlcode: -1245

sqlstate: 08001

SQL1246N Connection settings cannot be changed while connections exist.

Explanation: One of the following occurred:

- An attempt was made to change the connection settings for an application using the SET CLIENT API. This was rejected because one or more connections exist.
- The application contains both DB2 Call Level Interface API calls and calls to functions containing embedded SQL, and the connection management was not invoked using the CLI APIs.

User Response: Possible actions:

- Ensure that the application disconnects from all servers before attempting to issue the SET CLIENT API (sqlesetc or sqlgsetc) or CLP command.
- Ensure that all connection management requests are issued via the DB2 Call Level Interface APIs if CLI is being used by the application.

SQL1247N Applications running in an XA transaction processing environment must use the SYNCPOINT TWOPHASE connection setting.

Explanation: The application was precompiled with the option SYNCPOINT ONEPHASE or SYNCPOINT NONE, or the SYNCPOINT connection setting was changed to one of these values using the SET CLIENT API. These settings are invalid for applications which cause transaction processing syncpoint commands (for example CICS SYNCPOINT) to be executed. Note that SYNCPOINT ONEPHASE is the default precompiler option.

User Response: Possible actions:

- Re-compile the application using the precompiler option SYNCPOINT TWOPHASE.
- Modify the program such that the SET CLIENT API is called to set the connection option to SYNCPOINT TWOPHASE prior to any other processing.

sqlcode: -1247

sqlstate: 51025

SQL1248N Database "<database alias>" not defined with the transaction manager.

Explanation: You attempted to access a database that had not been opened by the transaction manager. A database must be defined to the transaction manager in order to participate in the two-phase commit process.

User Response: Define the database as a resource manager to the transaction manager of your Distributed Transaction Processing environment. For example, in a CICS environment this requires adding the database to the XAD file and provides the database alias name in the XAOpen string of the XAD entry.

sqlcode: -1248

sqlstate: 42705

SQL1251W No data returned for heuristic query.

Explanation: There are no in-doubt transactions in the database, nor any transactions that have ended and are waiting to enter the syncpoint process.

User Response: No action is required.

SQL1260N Database "<name>" is not configured for roll-forward recovery on node(s) "<node-list>".

Explanation: The specified database is not configured for roll-forward recovery on the specified node(s). If "... " is displayed at the end of the node list, see the diagnostic log for the complete list of nodes.

The database is not rolled forward on the specified node(s).

(Note : if you are using a partitioned database server, the node number(s) indicate which node(s) the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: Ensure that recovery is required on the specified node(s), then restore the most recent backup version of the database on these nodes.

SQL1261N Database "<name>" is not in rollforward pending state on node(s) "<node-list>", so it does not need to be rolled forward on these nodes.

Explanation: The specified database is not in roll-forward pending state on the specified node(s). This may be because the database has not been restored, or was restored with the WITHOUT ROLLING FORWARD option, or roll-forward recovery is complete on these nodes.

If "... " is displayed at the end of the node list, see the diagnostic log for the complete list of nodes.

The database is not rolled forward.

(Note : if you are using a partitioned database

server, the node number(s) indicate which node(s) the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: Do the following:

1. Ensure that recovery is required on the specified node(s).
 2. Restore a backup version of the database on these nodes.
 3. Issue the ROLLFORWARD DATABASE command.
-

SQL1262N The point-in-time specified for rolling forward database "<name>" is not valid.

Explanation: The timestamp parameter specified for the point-in-time stopping value is not valid. The timestamp must be entered in ISO format (YYYY-MM-DD-hh.mm.ss.<sssss> where YYYY represents year, MM represents month, DD represents day, hh represents hours, mm represents minutes, ss represents seconds, and sssss represents optional microseconds).

The database is not rolled forward.

User Response: Ensure that the timestamp is entered in the correct format.

When you issue a ROLLFORWARD DATABASE command, ensure that you are not specifying a year greater than 2105.

SQL1263N The archive file "<name>" is not a valid log file for database "<name>" on node "<node-number>".

Explanation: The specified archive log file exists in the database log directory or the overflow log directory on the specified node, but the file is not valid.

Roll-forward recovery processing stops.

(Note : if you are using a partitioned database server, the node number indicates which node the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: To determine the correct

archive log file, issue the ROLLFORWARD DATABASE command with the QUERY STATUS option. Move the correct archive log file into the database log directory or, if the database is in a consistent state, change the log path to point to the correct archive file, and issue the ROLLFORWARD DATABASE command again. Alternatively, resubmit the command with the overflow log path pointing to the correct archive file.

SQL1264N The archive file “<name>” does not belong to database “<database-name>” on node “<node-number>”.

Explanation: The archive log file specified was found in the log directory or the overflow log directory but does not belong to the specified database.

Roll-forward recovery processing stops.

(Note : if you are using a partitioned database server, the node number indicates which node the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: To determine the correct archive log file, issue the ROLLFORWARD DATABASE command with the QUERY STATUS option. Move the correct archive log file into the database log directory or, if the database is in a consistent state, change the log path to point to the correct archive file and issue the ROLLFORWARD DATABASE command again. Alternatively, resubmit the command with the overflow log path pointing to the correct archive file.

SQL1265N The archive log file “<name>” is not associated with the current log sequence for database “<name>” on node “<node-number>”.

Explanation: For roll-forward recovery, the log files need to be processed in correct sequence. The log file sequence is determined by the database that has been restored or the log files that have been processed. In addition to this, for table space level roll-forward recovery, the log

files must be processed in the sequence through which the current state of the database has been reached. The specified archive log file was found in the log directory or the overflow log path for the database on the specified node but the log file is not in the correct log sequence.

Roll-forward recovery processing stops.

(Note : if you are using a partitioned database server, the node number indicates which node the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: To determine the correct archive log file, issue the ROLLFORWARD DATABASE command with the QUERY STATUS option. Move the correct archive log file into the database log directory or, if the database is in a consistent state, change the log path to point to the correct archive file and issue the ROLLFORWARD DATABASE command again. Alternatively, resubmit the command with the overflow log path pointing to the correct archive file.

SQL1266N Database “<name>” has been rolled forward to “<timestamp>”, which is past the specified point-in-time.

Explanation: Roll-forward is requested to stop at a timestamp that is before the current point in time in the specified database log file. This can happen when rolling forward either the database or a subset of table spaces to a point in time.

Database roll-forward processing stops.

User Response: Specify the correct point in time or restore the database or table space subset from a backup version and resubmit the ROLLFORWARD command.

SQL1267N The system could not find db2uexit in the current PATH environment variable.

Explanation: The user-supplied file *db2uexit* cannot be found, either because it is not in the current PATH environment variable or it does not exist.

The command cannot be processed.

User Response: Update the current PATH environment variable to include the path to *db2uexit* or create a *db2uexit* file and update the current PATH environment variable if necessary.

SQL1268N Roll-forward recovery stopped due to error “<error>” while retrieving log file “<logfile>” for database “<name>” on node “<node-number>”.

Explanation: Roll-forward processing invokes *db2uext2* to retrieve the log file. The error may have occurred in *db2uext2*.

Roll-forward processing stopped. The database is still in a roll forward pending state on the specified node.

(Note : if you are using a partitioned database server, the node number indicates which node the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: See the user exit documentation in the *Administration Guide* for a description of the error and resume or terminate roll-forward recovery.

SQL1269N Table space level roll-forward recovery is already running.

Explanation: An attempt has been made to use table space level roll-forward recovery but it is already running. Only one agent can be executing roll-forward recovery at any given time.

User Response: Wait until table space level roll-forward recovery is complete. If more table spaces need recovery, initiate table space level roll-forward recovery again.

SQL1270C The LANG environmental variable is set to “<string>”. This language is not supported.

Explanation: The LANG environmental variable is set to a language that is not supported by the database manager. Processing cannot continue.

User Response: Set the LANG environmental variable to a language that is supported. For more information please refer to “National Language Support” appendix in the *Administration Guide*.

Federated system users: see the *Installation and Configuration Supplement* for NLS information.

SQL1271W Database “<name>” is recovered but one or more table spaces are off-line on node(s) “<node-list>”.

Explanation: This message can occur after crash recovery, database level roll-forward recovery, or table space level roll-forward recovery. For database level roll-forward recovery, the database is available for use if the STOP option was specified. One or more table spaces on the specified node(s) are not available. This could happen if:

- the STOP option is not specified for a table space level roll-forward recovery to a point in time.
- one or more table spaces receive errors during recovery.
- additional table spaces are restored while a table space level roll-forward recovery is already in progress.
- the database is rolled forward past a previous point-in-time table space roll-forward, causing all table spaces involved to be placed in restore pending state.

The table spaces that are off-line can be identified on the specified node(s) by the LIST TABLESPACES command or the db2dart utility. The diagnostic log will provide more information on specific table spaces.

If “,...” is displayed at the end of the node list, see the diagnostic log for the complete list of nodes.

(Note : if you are using a partitioned database server, the node number(s) indicate which node(s) the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: Repair or restore the table

spaces if necessary and run roll-forward recovery. If the same error occurs, try running table space level roll-forward recovery offline.

SQL1272N **Table space level roll-forward recovery for database "<name>" has stopped before completion on node(s) "<node-list>".**

Explanation: Table space level roll-forward recovery has stopped on the specified node(s) before all qualifying table spaces could be rolled forward. This can be caused by one of the following:

- The transaction table is full.
- All table spaces being rolled forward received I/O errors.
- Point-in-time table space level roll-forward encountered an I/O error on one of the table spaces being rolled forward.
- Point-in-time table space level roll-forward encountered an active transaction that made changes to one of the table spaces being rolled forward. This transaction could be an indoubt transaction.
- The table space level roll-forward was interrupted and, before it was resumed, all table spaces that were being rolled forward are restored again.

If "... " is displayed at the end of the node list, see the diagnostic log for the complete list of nodes.

(Note : if you are using a partitioned database server, the node number(s) indicate which node(s) the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: Check the diagnostic log for the cause. Do one of the following depending on the cause:

- Use the LIST TABLESPACES command to determine if the table spaces received I/O errors. If so, repair them.

- If the transaction table became full, include the MAXAPPLS database configuration parameter or try running table space level roll-forward recovery offline.
- If the cause is an active or indoubt transaction, complete the transaction.
- If the table spaces were restored after a previous table space level roll forward was interrupted, the previous table space level roll-forward is now canceled. The next table space level roll-forward command will check for table spaces in rollforward pending state.

Run table space level roll-forward recovery again.

SQL1273N **Roll-forward recovery on database "<name>" cannot reach the specified stop point (end-of-log or point-in-time) because of missing log file "<name>" on node "<node-number>".**

Explanation: The Rollforward Database utility cannot find the specified archive log file in the database log directory or the overflow log directory on the specified node.

Roll-forward recovery has stopped.

(Note : if you are using a partitioned database server, the node number indicates which node the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: Do one of the following:

- Move the specified archive log file into the database log directory or, if the database is in a consistent state, change the log path to point to the correct archive file, and issue the ROLLFORWARD DATABASE command again. Alternatively, resubmit the command with the overflow log path pointing to the correct archive file.
- If you cannot find the missing log files, restore the database/table space on all nodes, then do point-in-time recovery using a timestamp that is earlier than that of the missing log file.

SQL1274N The database “<name>” requires roll-forward recovery and the point-in-time must be to the end of logs.

Explanation: The database needs to be rolled forward. For database level roll-forward recovery, the point-in-time must be to the end of logs because a database level roll-forward to end of logs is already in progress. To continue the roll forward, the same stoptime must be specified.

For table space level roll-forward recovery, the point-in-time must be to the end of logs for one of the following reasons:

- The system catalogs require roll-forward recovery. System catalogs must always be rolled forward to the end of logs to remain consistent with all other table spaces.
- A table space level roll-forward to the end of logs is already in progress. To continue the roll forward, the same stoptime must be specified.

The database is not rolled forward.

User Response: Resubmit the ROLLFORWARD command specifying ROLLFORWARD TO END OF LOGS.

SQL1275N The stoptime passed to roll-forward must be greater than or equal to “<timestamp>”, because database “<name>” on node(s) “<node-list>” contains information later than the specified time.

Explanation: The database or at least one of the table spaces to be rolled forward were backed up online. An advanced virtual timestamp is in the database or table space backup. The stoptime passed to roll-forward must be greater than or equal to the time the online backup ended on the specified node.

If “,...” is displayed at the end of the node list, see the diagnostic log for the complete list of nodes.

(Note : if you are using a partitioned database server, the node number(s) indicate which

node(s) the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: Do one of the following:

- Resubmit the command with a stoptime greater than or equal to “<timestamp>”. Time must be specified in CUT (Coordinated Universal Time).
- Restore an earlier backup on node(s), then issue the ROLLFORWARD DATABASE command again.

SQL1276N Database “<name>” cannot be brought out of rollforward pending state until roll-forward has passed a point in time greater than or equal to “<timestamp>”, because node “<node-number>” contains information later than the specified time.

Explanation: A request was made to bring the database or subset of table spaces out of rollforward pending state by specifying caller action SQLUM_ROLLFWD_STOP, SQLUM_STOP, SQLUM_ROLLFWD_COMPLETE, or SQLUM_COMPLETE. However, the database or at least one of the table spaces to be rolled forward was backed up online. The request cannot be granted until the database or all table spaces have been rolled forward to the end of the online backup timestamp on the specified node.

This error can also occur if not all the log files are provided to perform the requested recovery.

(Note : if you are using a partitioned database server, the node number indicates which node the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: If the stoptime specified on the ROLLFORWARD command is smaller than “<timestamp>”, resubmit the command with a stoptime greater than or equal to “<timestamp>”.

Verify that all the log files were provided. the ROLLFORWARD QUERY STATUS command shows which log file is to be processed next. Some of the reasons for missing log files include:

- the log path has changed. The file can be found in the old log path.
- the userexit program is not able to retrieve the log file, because it may have been archived to a different location.

If the missing log file is found, copy it to the log path and resubmit the command.

SQL1277N **Restore has detected that one or more table space containers are inaccessible, or has set their state to "storage must be defined".**

Explanation: Restore validates that the containers needed by each table space being restored are currently accessible on the system. Where possible, restore will create the containers if they do not exist. If they cannot be created, or are currently in use by another table space, or are inaccessible for any other reason, then the list of containers needed must be corrected before the restore can continue.

If this is a redirected restore, the state of each container of the table spaces being restored is set to "storage must be defined". This makes it possible to use the SET TABLESPACE CONTAINERS api or command against the containers to redefine their storage.

User Response: To determine the list of containers for each table space being restored, use the TABLESPACE CONTAINER QUERY api or the LIST TABLESPACE CONTAINERS command. To specify an updated list for each table space, use the SET TABLESPACE CONTAINERS api or command. This api or command lets you specify whether this should be the initial list of containers (i.e. a subsequent rollforward will redo any "add container" operations described in the database log) or the final list (rollforward will not redo "add container" operations).

It is also possible that the container(s) are read-only, in which case the only action required before continuing with the restore is to give read/write access to the container.

SQL1278W **Roll-forward operation has completed successfully. Active or indoubt transactions required rollback on node(s) "<node-list>".**

Explanation: The roll-forward of a table space subset to a point in time was completed successfully, however one or both of the following situations occurred:

1. There was one or more active transactions at the point in time specified. Each transaction was rolled back from the table spaces in the table space subset.
2. There was one or more indoubt transactions at the point in time specified. Each indoubt transaction was rolled back from the table spaces in the table space subset.

Transactions that were rolled back from the table spaces in the table space subset may still be committed in other table spaces not involved in the roll-forward.

If "... " is displayed at the end of the node list, see the diagnostic log for the complete list of nodes.

(Note : if you are using a partitioned database server, the node number(s) indicate which node(s) the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: The diagnostic log will contain details on the transactions that were rolled back by roll-forward recovery.

SQL1279W **Some indexes may not have been recreated.**

Explanation: An error occurred during index recreation while performing a database restart or following a table reorganization which prevented some of the indexes from being recreated successfully. Details can be found in the system error log and/or the database manager error log.

Database restart or Reorg table was successful.

User Response: Examine the error log(s) to determine why the index(es) could not be recreated and correct the problem. The invalid

indexes for a table will be recreated when the table is first accessed.

SQL1280N The stoptime passed to roll-forward must be less than or equal to “<timestamp>” for database “<name>” because at least one of the table spaces was already rolled forward to this point in time.

Explanation: At least one of the table spaces specified by the roll-forward to point in time has already been rolled forward to an earlier point in time. It cannot be rolled forward any further.

User Response: Do one of the following:

- Resubmit the command with stoptime “<timestamp>”.
- Restore all table spaces again, and resubmit the command with a stoptime less than “<timestamp>”.
- Restore the table space backup(s) taken following the earlier table space roll-forward to point in time and resubmit the command with the same stoptime.

Time must be specified in CUT (Coordinated Universal Time).

SQL1281N The connection to database “<database-alias>” has been severed because the pipe “<pipe-name>” has been broken.

Explanation: The connection was lost because the DB2 server broke the pipe. The current transaction has been rolled back.

User Response: Resubmit the current command. If the error continues, contact your technical service representative.

If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Contact your technical service representative with the following information:

Required information:

- Problem description
- SQLCODE or message number
- SQLCA contents, if possible
- Trace file, if possible.

sqlcode: -1281

sqlstate: 40504

SQL1282N The attempt to connect to database “<database-alias>” failed because all the pipe instances on “<pipe-name>” are busy.

Explanation: Attempts to connect to the named pipe failed because the connection was refused by DB2. There is a limit to the number of connections that are allowed on the named pipe.

User Response: Increase the connection limit on the DB2 server, or terminate some of the applications using named pipe to free up connection resources.

sqlcode: -1282

sqlstate: 08001

SQL1283N The attempt to connect to database “<database-alias>” failed because the pipe “<pipe-name>” is in use by another process.

Explanation: The name of the named pipe is already in used by another process. Named pipe support did not start.

User Response: Choose a different name by setting the environment variable DB2PIPENAME, or have the other programs which use named pipe use a different pipe name.

SQL1284N The attempt to connect to database “<database-alias>” failed because the pipe “<pipe-name>” cannot be found.

Explanation: The server has not started its named pipe support, or the server is using a

different name for the named pipe.

User Response: Start the database manager and ensure the named pipe support starts. If the named pipe support has been started, then ensure the name of the named pipe is the same between the client and server by setting the environment variable DB2PIPENAME to the same value.

sqlcode: -1284

sqlstate: 08001

SQL1285N **The attempt to connect to database "<database-alias>" failed because the pipe "<pipe-name>" is invalid.**

Explanation: The alternate pipe name set by the environment variable DB2PIPENAME is invalid.

User Response: The value of the environment variable DB2PIPENAME must be a valid pipe name. The pipe name must be no longer than eight characters, and has the same syntactical restrictions as a normal file name.

sqlcode: -1285

sqlstate: 08001

SQL1286N **The connection to database "<database-alias>" has been severed because the operating system ran out of resources for pipe "<pipe-name>".**

Explanation: Named pipe failed because the operating system ran out of resources (swapping space, disk space, file handles). The current transaction has been rolled back.

User Response: Free up the system resources and try again.

sqlcode: -1286

sqlstate: 40504

SQL1287N **ATTACH to instance "<instance>" failed because the named pipe "<pipe>" cannot be found.**

Explanation: The server has not started its named pipe support, or the instance name is incorrect.

User Response: Ensure that the database manager is started at the server and that the named pipe support is started. Ensure that the instance name is correct.

SQL1290N **The value of either the DFT_CLIENT_COMM database manager configuration parameter or the DB2CLIENTCOMM environment variable is not valid.**

Explanation: Either an incorrect value was specified or the protocol(s) specified are not supported by the target database. The acceptable values are:

- Unix platforms: TCPIP and APPC
- OS/2: TCPIP, APPC, IPXSPX, and NETBIOS
- Windows NT and Windows 95: TCPIP, APPC, IPXSPX, NETBIOS, and NPIPE

If more than one value is specified, then they must be delimited by a comma.

Note that this message may be returned from an intermediate node involved in your connection. For example, if you are trying to connect to a DRDA server via a DB2 Connect gateway and your client workstation does not use global directory services, this message may be returned from the DB2 Connect gateway.

User Response: Correct the value and try again.

sqlcode: -1290

sqlstate: 08001

SQL1291N A directory services error has been detected. Service: "**<directory-services-type>**", API: "**<API>**", function: "**<function>**", error code: "**<rc>**".

Explanation: An error has been detected by the directory services subsystem. Refer to the token values for details. The following is the explanation of the token values:

"**<directory-services-type>**"

The type of the directory services being used. Valid tokens include:

- DCE

"**<API>**"

The application programming interface used to access the above directory services. Valid tokens include:

- XDS/XOM

"**<function>**"

The name of the directory services subsystem function that returned the error code.

"**<rc>**" The error code returned from the above function. The meaning of the value is specific to the API being used.

For XDS functions such as ds_read, the return code values can be found in the DCE include file xds.h.

For XOM functions such as om_get, the return code values can be found in the DCE include file xom.h.

Note that this message may be returned from an intermediate node involved in your connection. For example, if you are trying to connect to a DRDA server via a DB2 Connect gateway and your client workstation does not use global directory services, this message may be returned from the DB2 Connect gateway.

User Response: Ensure that:

- The product providing the directory services is properly installed and operational.
- You are logged in to the directory services with the appropriate authorization to access

the directory entries, if login is required by the directory services provider, for example, DCE.

If the problem persists, consult with your system administrator and/or database administrator to determine the cause of the problem using the set of tokens provided.

sqlcode: -1291

sqlstate: 08001

SQL1292N The global name of the database or database manager instance is invalid.

Explanation: The global name of the database or database manager instance cannot be NULL and cannot be longer than 255 characters. It must start with either "/".../" or "/./".

Note that this message may be returned from an intermediate node involved in your connection. For example, if you are trying to connect to a DRDA server via a DB2 Connect gateway and your client workstation does not use global directory services, this message may be returned from the DB2 Connect gateway.

User Response: Correct the global name and try again.

SQL1293N An error was found in a global directory entry. Error code: "**<error-code>**".

Explanation: An error has been detected in one of the global database directory entries used. Refer to the following error codes for details:

1	The database object does not contain authentication information
2	Both the database object and the database locator object do not contain communication protocol information
10	Entry not a database object
11	Native database name in the database object is either not found or too long

- 12 Database protocol in the database object is either not found or too long
- 13 Invalid authentication value found in the database object
- 14 Insufficient or invalid communication protocol information in the database object
- 15 Database locator object name not found in the database object
- 16 Database locator object name in the database object invalid
- 20 Entry not a database locator object
- 22 Insufficient or invalid communication protocol information in the database locator object
- 30 Entry not a routing information object
- 31 Target database information not found in the routing information object
- 32 Insufficient information for the target database in the routing information object
- 33 No appropriate gateway found in the routing information object
- 34 Invalid flag for authentication at gateway
- 35 Database locator object name for the gateway invalid
- 36 Database name in the target database information attribute of the routing information object is either not found or too long
- 37 Database protocol in the target database information attribute of the routing information object is either not found or too long

Note that you may also see this message if the DCE subsystem is not operational, or if you do not have sufficient privilege to read the DCE directory entry.

Note that this message may be returned from an intermediate node involved in your connection. For example, if you are trying to connect to a DRDA server via a DB2 Connect gateway and your client workstation does not use global directory services, this message may be returned from the DB2 Connect gateway.

User Response: Make sure the DCE subsystem is operational and that you have the appropriate privilege to read the directory entry. If the problem persists, inform the database administrator to correct the error in the directory entry. Refer to the *Administration Guide* for the format of these directory objects.

sqlcode: -1293

sqlstate: 08001

SQL1294N The directory path name being used for global directory access is not specified or not valid.

Explanation: In order to use global directory services, a directory path name must be specified either in the *dir_path_name* database manager configuration parameter, or in the DB2DIRPATHNAME environment variable. You either did not specify it, or the name you specified is not valid.

Note that this message may be returned from an intermediate node involved in your connection. For example, if you are trying to connect to a DRDA server via a DB2 Connect gateway and your client workstation does not use global directory services, this message may be returned from the DB2 Connect gateway.

User Response: Consult your database administrator for the correct name to use, specify it, and try again.

sqlcode: -1294

sqlstate: 08001

SQL1295N The routing information object name being used for global directory access is not specified or not valid.

Explanation: In order to use global directory services to access a remote database with a database protocol that is not native to this client, the name of a routing information object must be specified either in the *route_obj_name* database manager configuration parameter, or in the DB2ROUTE environment variable. You either did not specify it, or the name you specified is not valid.

Note that this message may be returned from an intermediate node involved in your connection. For example, if you are trying to connect to a DRDA server via a DB2 Connect gateway and your client workstation does not use global directory services, this message may be returned from the DB2 Connect gateway.

User Response: Consult with your database administrator for the correct object name to use, specify it and try again.

sqlcode: -1295

sqlstate: 08001

SQL1296N Valid values must be specified for the DIR_PATH_NAME and DIR_OBJ_NAME database manager configuration parameters if the DIR_TYPE parameter has a value other than NONE.

Explanation: These three parameters are interrelated. If the DIR_TYPE value is NONE,

then the other two are ignored. If the DIR_TYPE value is not NONE, then the other two must both contain valid values. The following rules apply when the DIR_TYPE value is not NONE:

1. The DIR_PATH_NAME and DIR_OBJ_NAME values cannot be NULL (or blanks).
2. If the DIR_TYPE value is DCE, then the DIR_PATH_NAME value must start with either of the special DCE strings enclosed in the following quotes: "/.../" or "/:./".

User Response: If you want to change the DIR_TYPE value, make sure the DIR_PATH_NAME and DIR_OBJ_NAME parameters have been specified with the valid values first. If you want to blank out either the DIR_PATH_NAME or the DIR_OBJ_NAME parameter, make sure you set DIR_TYPE to NONE first.

SQL1297N This command is currently not supported on this platform.

Explanation: The function requested using this command is not supported on this platform.

User Response: Do not use this command.

SQL1300 - SQL1399

SQL1300N Invalid DCE principal name in catalog statement.

Explanation: The DCE principal name in the catalog database operation was invalid. DCE principal names are subject to the following conditions:

- If AUTHENTICATION is specified as DCE, a principal name must be included in the catalog statement.
- If AUTHENTICATION is not specified as DCE, a principal name can not be included in the catalog statement.
- The maximum length of the principal name is 1024 bytes.

User Response: Ensure that the principal name conforms to the conditions above, and resubmit the catalog command.

SQL1301N An error occurred when accessing the server's DCE keytab file.

Explanation: An error occurred when accessing the server's DCE keytab file. For a keytab file to be valid, the following conditions must be satisfied:

- The server's keytab file exists, has the name keytab.db2, and is in the sqllib/security directory.
- There is only a single entry in the keytab file.

User Response: Make sure that DCE is started. Next, check that the keytab file exists, and contains a single entry (with rgy_edit). Retry the operation.

SQL1302N DCE principal to DB2 authorization id mapping error.
Reason code: "<reason-code>".

Explanation: An error occurred when mapping a DCE principal to a DB2 authorization id. Refer to the reason code below.

- 1. Missing or invalid DCE user to DB2 authorization id mapping
- 2. Missing or invalid DCE group to DB2 authorization id mapping

User Response: The DCE principal must have an ERA mapping to a DB2 authorization id. Add the missing entry to the DCE registry, and retry the operation.

sqlcode: -1302

sqlstate: 08001

SQL1303N Security daemon could not be restarted.

Explanation: An attempt to restart the security daemon has failed after communication between the agents and the security daemon was severed or the security daemon terminated abnormally. All new connections to the database manager will be rejected, as authentication is not possible.

User Response: Stop the database manager and start it again. If the db2start command fails, follow the user response for that sqlcode. Check the First Failure Service Log(db2diag.log) to determine what errors have occurred.

sqlcode: -1303

sqlstate: 58004

SQL1304N The TCP/IP security type SOCKS is not valid.

Explanation: The TCP/IP security type SOCKS in the TCP/IP protocol structure of the Catalog Node command is invalid with authentication type DCE.

User Response: Make sure you do not use the combination of TCP/IP protocol with security type SOCKS and authentication type DCE.

sqlcode: -1304

sqlstate: 08001

SQL1305N An internal DCE error occurred.

Explanation: DB2 processing failed due to an internal DCE error.

User Response: Make sure DCE is started. If the problem persists, contact a service representative for assistance.

sqlcode: -1305

sqlstate: 58004

SQL1306N An invalid parameter was specified during invocation of the security audit facility. Reason Code: "<reason-code>".

Explanation: One of the parameters of the security audit API is incorrect. Reasons:

- 1 An invalid audit option was specified.
- 2 Invalid pointer to Configure/Describe sqleaucfg structure.
- 3 Invalid Configure/Describe parameter token.

- 4 Invalid Configure/Describe parameter value. The value is incorrect or outside the valid range for the parameter.
- 5 Invalid count specification for Configure/Describe parameter.
- 6 Insufficient length allocated for Configure/Describe parameter.
- 7 Invalid pointer to Extract sqleauextract structure.
- 8 Invalid Extract parameter token.
- 9 Invalid Extract parameter value. The value is incorrect or outside the valid range.
- 10 Invalid count specification for Extract parameter.
- 11 Invalid length for Extract parameter.

User Response: The system administrator should take specific actions for each of the reasons.

- 1 Provide the right option value for the audit API call by looking at the sqlutil.h include file.
- 2 Check to see if a valid pointer has been provided to a Configure/Describe structure.
- 3 The correct parameter should be specified by looking up the audit facility reference section for the sqleaucfg parameter tokens.
- 4 Correct the parameter value by looking up the valid values in the audit facility reference.
- 5 Specify the correct count and allocate/initialize the appropriate length for variable length parameters.
- 6 Correct the length allocated for Configure/Describe parameter based on the error token that is returned in the SQLCA.
- 7 Check to see if a valid pointer has been provided to a Extract structure.

- 8 The correct parameter should be specified by looking up the audit facility reference section for the sqleauextract parameter tokens.
- 9 Correct the parameter value by looking up the valid values in the audit facility reference.
- 10 Specify the correct count and allocate/initialize the appropriate length for variable length parameters.
- 11 Correct the length allocated for Extract parameter based on the error token that is returned in the SQLCA.

SQL1307N **An error occurred during invocation of the security audit facility. Reason Code:**
 "<reason-code>".

Explanation: The invocation of the security audit API caused an error to occur. Reasons:

- 1. Audit is already started.
- 2. Audit is already stopped.
- 3. Invalid checksum for audit configuration file.
- 4. The default or user-provided audit pathname is too long.
- 5. Could not update the audit configuration file. Either the filesystem is full or the permissions do not allow write.
- 6. Configuration File not found. Either the file or the directory which contains the file does not exist.
- 7. The extract file is not found.
- 8. Invalid format of audit records during extract. The file is corrupted.

User Response: The system administrator should take specific actions for each of the reasons.

- 1. No action required.
- 2. No action required.
- 3. Restore the configuration file from backup or issue 'audit reset' command.
- 4. Choose a different audit pathname which is within the filename length limit.

5. If the file permissions are incorrect, set the permissions to allow write by owner. If the filesystem is full, create free space before proceeding.
6. If the audit configuration file is missing, then restore it from a backup or issue the 'reset' command to initialize the file to defaults. If the directory is missing, restore from a backup or recreate the database manager instance.
7. Verify that file exists in the specified path. If file missing, restore from backup if available.
8. The audit log file is most likely corrupted. If problem persists for other audit log files, notify DB2 service.

SQL1308W The audit Extract Facility completed Processing.
"<num-records>" records were extracted.

Explanation: The security audit extract facility completed its processing successfully and extracted the specified number of records.

User Response: If zero records were extracted, the user should verify that the extract pathname contains extract files and the extract parameters are correct.

SQL1309N Invalid server principal name.

Explanation: The server principal name specified in the database catalog statement does not exist in the DCE registry. Because of this a DCE ticket could not be obtained for the DB2 server.

User Response: Make sure that the principal name in the database catalog entry corresponds to the DCE principal being used by the DB2 server. It may be necessary to fully qualify the principal name.

sqlcode: -1309

sqlstate: 08001

SQL1310N The Database Connection Services directory service failed while attempting to access the Database Connection Services directory.

Explanation: The Database Connection Services Directory Service failed because of file errors while trying to access the Database Connection Services directory file.

The function cannot be processed.

User Response: Rerun the function after doing one of the following:

- If you are adding an entry to the Database Connection Services directory, ensure that there is sufficient space for the directory file to become larger.
- Ensure that no other concurrently running program is trying to access the file.
- Verify that the directory file has not been damaged. If it is unrecoverable, you must erase it and recreate it or restore it from a backed-up version.

SQL1311N The Database Connection Services directory cannot be found.

Explanation: The directory cannot be found. The directory may have been deleted.

The function cannot be processed.

User Response: Use the CATALOG DCS DATABASE command to add an entry to the Database Connection Services directory, or restore the directory from a backed-up version.

SQL1312W The Database Connection Services directory is empty.

Explanation: An attempt was made to read the contents of the Database Connection Services directory, but no entries existed.

Processing continues, but subsequent commands expecting entries to be available cannot be processed.

User Response: Use the Catalog DCS Database command to add entries to the directory or restore a backed-up version that contains entries.

SQL1313N The Database Connection Services directory is full.

Explanation: The entry cannot be added to the Database Connection Services directory because the directory has already reached its maximum size.

The function cannot be processed.

User Response: Delete an entry or entries from the directory before adding any more entries.

SQL1314N The address of the Database Connection Services directory entry parameter is not valid.

Explanation: The application program has used an address for this parameter that is not valid. Either the address points to an unallocated buffer or the buffer is not large enough to contain the required input.

The function cannot be processed.

User Response: Ensure that the application program has allocated the required buffer area and resubmit the command.

SQL1315N The local database name is not valid.

Explanation: A local database name was specified that contains characters that are not valid. All characters must be from the database manager base character set.

The function cannot be processed.

User Response: Ensure that the characters used in the local database name are from the database manager base character set and resubmit the command.

SQL1316N No entry was found in the Database Connection Services directory for the specified local database name.

Explanation: The Database Connection Services directory service failed because no entry could be found in the Database Connection Services

directory that corresponds to the input local database name.

The function cannot be processed.

User Response: Ensure that the local database name is correct and resubmit the command.

SQL1317N The local database name already exists in the Database Connection Services directory.

Explanation: The entry could not be added to the directory because an entry for that local database name already exists in the directory.

The function cannot be processed.

User Response: Specify a unique local database name or delete the existing entry and add the new entry.

SQL1318N The length of element "<name>" in the input structure for parameter 1 is not valid.

Explanation: The length values in the Database Connection Services directory entry structure should not be less than zero nor greater than the maximum length for the element it represents.

The function cannot be processed.

User Response: If an element of the directory entry structure is specified, the associated length value should represent the number of bytes in the element. Otherwise, the length value should be zero. Ensure that all the directory entry structure elements have the required specifications and lengths for the command and resubmit the command.

SQL1319N The Database Connection Services directory entries have not been collected.

Explanation: A request to copy all the directory entries was received, but either a prior request to collect the entries was not received or the prior request to collect the entries failed.

The function cannot be processed.

User Response: Issue a request to open the

directory and collect the entries. Then resubmit this command.

SQL1320N The Database Connection Services directory cannot be accessed at this time.

Explanation: A request to access the Database Connection Services directory failed. Access to the Database Connection Services directory is dependent on the type of access requested and the current activity in the directory. If the request is for the intention of updating the directory, then the directory must not be active. If the request is to read the directory, then access is allowed if the directory is not being updated.

The function cannot be processed.

User Response: Wait for the current activity to complete and resubmit the command.

SQL1321N The structure ID specified in the directory entry structure is not valid.

Explanation: The structure ID received in the directory entry structure does not represent a recognized value.

The function cannot be processed.

User Response: Verify the structure ID passed in the directory entry structure is a valid value and resubmit the command.

SQL1322N An error occurred when writing to the audit log file.

Explanation: The DB2 audit facility encountered an error when invoked to record an audit event to the trail. There is no space on the file system the audit log resides on. Free up space on this file system or prune the audit log to reduce its size.

When more space is available, use db2audit to flush out any data in memory, and to reset the auditor to a ready state. Ensure that appropriate extracts have occurred, or a copy of the log has been made prior to pruning the log, as deleted records are not recoverable.

User Response: The system administrator should take the suggested corrective action so that the audit facility can resume logging.

sqlcode: -1322

sqlstate: 58030

SQL1323N An error occurred when accessing the audit configuration file.

Explanation: db2audit.cfg could not be opened, or was invalid. Possible reasons:

- The db2audit.cfg file either does not exist, or has been damaged. Take one of the following actions:
 - Restore from a saved version of the file.
 - Reset the audit facility configuration file by issuing the reset command from the db2audit executable.

User Response: The system administrator should take the suggested action to resolve the problem.

sqlcode: -1323

sqlstate: 57019

SQL1325N The remote database environment does not support the command or one of the command options.

Explanation: An attempt has been made to issue a DB2 workstation database specific command or command option against a host database through DB2 Connect or federated server. The following commands generate this error when issued against a DB2 for MVS*, DB2 for OS/400* or SQL/DS* database:

- OPSTAT (Collect Operational Status)
- DARI (Database Application Remote Interface)
- GETAA (Get Administrative Authorizations)
- GETTA (Get Table Authorizations)
- PREREORG (Prepare to Reorganize Table)
- REORG (Call Reorganize Function)
- RQSVPT/ENSVPT/RLBSVPT (Subtransaction Requests)
- RUNSTATS (Run Statistics).

- COMPOUND SQL ATOMIC STATIC (Atomic Compound SQL)
- ACTIVATE DATABASE
- DEACTIVATE DATABASE

As well, the following commands generate this error with incorrect options:

- IMPORT (Import table) The filetype must be IXF, commitcount must be 0, and the first word in the Action String (e.g. "REPLACE into ...") must be INSERT.
- EXPORT (Export table) The filetype must be IXF.

The command cannot be processed.

User Response: Do not attempt to issue this command against a host database through DB2 Connect or federated server.

SQL1326N The file or directory "<name>" cannot be accessed.

Explanation: The file or directory "<name>" cannot be accessed because either the file permissions are incorrect, the file path is incorrect, or there is insufficient space in the directory or path.

User Response: Verify that any path or filename specified in the command is valid, you have the proper permissions to access the path or filename, and there is sufficient space to contain the file. Correct the problem and resubmit the command. If the problem persists, contact your System Administrator.

SQL1327N An implicit connection attempt failed. "<database-name>" is not a valid database name.

Explanation: An attempt to perform an implicit connection failed. The syntax of the database alias name specified by the DB2DBDFT environment variable is not valid. The database name must contain 1 to 8 bytes and all the characters must be from the database manager base character set.

The command cannot be processed.

User Response: Correct the database alias name specified by the DB2DBDFT environment variable and resubmit your command. If using the command line processor, then a "db2 terminate" should be issued prior to resubmitting the command. If you do not want an implicit connection to be performed, remove the DB2DBDFT environment variable.

sqlcode: -1327

sqlstate: 2E000

SQL1328N An implicit connection attempt failed. The database alias name or database name "<name>" was not found in the local database directory.

Explanation: An attempt to perform an implicit connection failed. The database name specified by the DB2DBDFT environment variable does not name an existing database. The database could not be found in the database directory.

The command cannot be processed.

Note that a CONNECT RESET request issued within a distributed unit of work will attempt an implicit connect to the default database. This may be the reason for this error.

User Response:

- Correct the database alias name specified by the DB2DBDFT environment variable and resubmit the command.
- If the intended action is to remove a connection while operating in a distributed unit of work environment, consider replacing the CONNECT RESET statement with a DISCONNECT or RELEASE statement.
- If using the command line processor, then a "db2 terminate" should be issued prior to resubmitting the command.
- If you do not want an implicit connection to be performed, remove the DB2DBDFT environment variable.

sqlcode: -1328

sqlstate: 42705

SQL1329N The resolved path specified on the command is too long.

Explanation: The resolved path specified on the command exceeds the maximum length supported by the database manager. The resolved path must be no longer than 215 characters in length. During a Create Database, Catalog Database, Open Database Directory for scan, and change database comment commands, the database manager instance name is appended to the end of the specified path.

User Response: Check that the fully resolved absolute or relative path name, including the database manager instance name, does not exceed 215 characters in length. Correct the path and resubmit the command.

SQL1330N The symbolic destination name "<name>" is not valid.

Explanation: The symbolic destination name in the CPIC protocol structure of the Catalog Node command is either not specified or longer than the allowable length. The name must be 1 to 8 bytes in length.

User Response: Verify that the symbolic destination name is specified and that it is not longer than 8 bytes in length. Resubmit the command with a valid symbolic destination name.

SQL1331N The CPIC security type "<type>" is not valid.

Explanation: The CPIC security type specified in the CPIC protocol structure of the Catalog Node command is invalid. The security type specifies the security information that will be included when a database client allocates a conversation with a partner LU, as specified by the LU 6.2 architecture. Correct values for security type are:

- SQL_CPIC_SECURITY_NONE
 - No access security information will be included.

Note: This is not supported when using federated server. When DB2 Connect is used, it is only supported when authentication type is DCE, SERVER_ENCRYPT or DCS_ENCRYPT.

- SQL_CPIC_SECURITY_SAME
 - A userid will be included together with an indicator specifying that the userid is already verified. This is not supported when authentication type DCS is used with DB2 Connect or federated server, or when authentication type is DCE, SERVER_ENCRYPT or DCS_ENCRYPT.
- SQL_CPIC_SECURITY_PROGRAM
 - Both a userid and a password will be included. This is not supported when authentication type CLIENT is used with DB2 Connect or when authentication type is DCE, SERVER_ENCRYPT or DCS_ENCRYPT.

User Response: Set the security type to one of the above and resubmit the command.

sqlcode: -1331

sqlstate: 08001

SQL1332N The Host Name "<name>" is not valid.

Explanation: The host name in the TCP/IP protocol structure of the Catalog Node command is either not specified or longer than the allowable length. The name must be 1 to 255 characters in length and cannot be all blanks.

User Response: Verify that the host name is specified and that it is not longer than 255 characters in length. Resubmit the command with a valid host name.

SQL1333N The Service Name "<name>" is not valid.

Explanation: The service name is the TCP/IP protocol structure of the Catalog Node command is either not specified or longer than the allowable length. The name must be 1 to 14 characters in length and cannot be all blanks.

User Response: Verify that the service name is specified and that it is not longer than 14 characters in length. Resubmit the command with a valid service name.

SQL1334N The database server cannot be used to route a remote request to a second database server in this configuration.

Explanation: An attempt was made to route a request through a database server node using an unsupported combination of client and target database server. Either a client or target database prior to release version 2 was used or an attempt was made to route the request from a DRDA client to a DRDA target database. The request must be routed directly from the client to the node on which the target database is running.

User Response: Uncatalog the database at the client machine and then catalog the database specifying the node on which the database actually resides. Ensure that the node is also cataloged.

SQL1335N The application requestor name is not valid

Explanation: An application requestor name was specified that contains characters that are not valid. All characters must be from the database manager base character set.

User Response: Ensure that the characters used in the application requestor name are from the database manager base character set and resubmit the command.

SQL1336N The remote host "<hostname>" was not found.

Explanation: The system cannot resolve the address of the remote host. Possible causes are:

- An incorrect hostname value was specified when the TCP/IP node was cataloged.
- The correct hostname was specified, but was not defined in any TCP/IP name server accessible to your client node, nor in the client's hosts file.

- The TCP/IP name server where the hostname was defined was not available at the time you tried to connect.
- TCP/IP is not running.

User Response: Make sure that TCP/IP is running and that the hostname specified when cataloging the TCP/IP node is a correct name, and that it is defined in an accessible name server or in the local hosts file.

Federated system users: verify that the remote host is cataloged correctly in the SYSCAT.SERVERS view.

SQL1337N The service "<service-name>" was not found.

Explanation: The system cannot resolve the port number associated with the service-name. Possible causes are:

- An incorrect service-name value was specified when the TCP/IP node was cataloged.
- The correct service-name was specified, but was not defined in the client's services file.

Federated system users: this situation can also be detected by the data source.

User Response: Make sure that the service-name specified when cataloging the TCP/IP node is a correct name, and that it is defined in the local services file.

Federated system users must also ensure that the name is defined in the services file at the data source.

SQL1338N The symbolic destination name "<symbolic-destination-name>" was not found.

Explanation: The system cannot find the Side Information associated with the symbolic-destination-name you specified. Possible causes are:

- An incorrect symbolic-destination-name value was specified when the CPIC NODE was cataloged.

- The symbolic destination name and its associated side information have not been defined to the SNA communications subsystem.
- The SNA communication subsystem has not been started.

User Response: Make sure that the symbolic-destination-name specified when cataloging the CPIC node is a correct name, and that it has been defined to the local SNA communication subsystem.

Start the SNA communication subsystem if it has not been started.

SQL1339N "<n>" SQL error(s) were detected in the execution of a Not Atomic Compound SQL statement, and have the following identification: "<error1>" "<error2>" "<error3>" "<error4>" "<error5>" "<error6>" "<error7>".

Explanation: One or more SQL substatements within a Compound SQL statement resulted in SQL errors (negative return codes).

The error tokens will not be returned for CLI/ODBC applications. CLI/ODBC applications can use SQLGetDiagRec, SQLGetDiagField, or SQLError APIs to get more information about each error.

User Response: Examine the error identification information provided. There will be <n> <errorX> tokens filled in, up to a maximum of 7. Each <errorX> represents an SQL statement error. These errors are listed in the order that they were encountered. If the message text has not been formatted, this information can be found in the second and subsequent tokens of the SQLERRMC field (tokens are separated by a one byte hexadecimal value 0xFF).

Each <errorX> is of the format PPPSSSSS where:

PPP PPP represents the position of the statement that caused the error within the Compound SQL block, and is left-justified. For example, if the first statement failed, this field would contain the number one ("1 ").

SSSSS SQLSTATE of the statement that failed.

More information can be found by examining the SQLCA itself. The third SQLERRD field contains the number of rows affected by the compound SQL statement, the fourth SQLERRD field contains the position of the last statement that succeeded, the 5th SQLERRD field contains the number of rows affected by referential integrity when DB2 Client/Server and SQL/DS databases are accessed, and the 6th SQLERRD field contains the number of statements that failed (returned negative SQLCODES).

sqlcode: -1339

sqlstate: 56091

SQL1340N The file server "<fileserv>" was not found.

Explanation: The system cannot find the specified file server on the network. Possible causes are:

- An incorrect *fileserv* name was specified when the IPX/SPX node was cataloged.
- The correct *fileserv* name was specified, but the file server was not available at the time the connect was tried.

User Response: Make sure that the *fileserv* name specified when cataloging the IPX/SPX node is correct, and that the file server is available on the network.

SQL1341N A workstation name must be specified in the client database manager configuration file.

Explanation: A workstation name has not been specified in the client database manager configuration file. A workstation name must be specified when using NetBIOS to communicate with the server.

User Response: Specify a workstation name in the client database manager configuration file.

SQL1342N The File Server name "<name>" is missing or invalid."

Explanation: The File Server name specified in the command/API is missing or invalid.

User Response: Verify that a File Server name was specified, that the name does not contain invalid characters, and is not longer than 48 characters in length. Resubmit the command/API with a valid File Server name.

SQL1343N The Object Name "<name>" is missing or invalid.

Explanation: The Object Name specified in the command/API is missing or invalid.

User Response: Verify that the Object Name was specified, that the name does not contain invalid characters, and is not longer than 48 characters in length. Resubmit the command/API with a valid Object Name.

SQL1350N The application is not in the correct state to process this request. Reason code="<rc>".

Explanation: Corresponding to "<rc>":

- 01** The application is currently processing SQL and cannot process the utility command requested.
- 02** A Backup request is in progress. A warning was received from the initial utility call indicating that further requests are required before Backup can complete.
- 03** A Restore request is in progress. A warning was received from the initial utility call indicating that further requests are required before Restore can complete.
- 04** A Rollforward request is in progress. A warning was received from the initial utility call indicating that further requests are required before Rollforward can complete.
- 05** A Load request is in progress. A

warning was received from the initial utility call indicating that further requests are required before Load can complete.

- 07** Federated system users: the application cannot process this command after executing SQL statements.

User Response: Corresponding to "<rc>":

- 01** Complete the unit of work (using either COMMIT or ROLLBACK) before reissuing this command.
- 02-05** Issue the required call(s) to complete the utility in progress, then reissue this command.
- 07** Federated system users: the application must issue the commands after establishing a connection to the database manager but prior to any other SQL statements.

SQL1360N Current processing cannot be interrupted.

Explanation: The user attempted to interrupt a process which is not interruptible.

User Response: Do not interrupt the current process.

SQL1361W Execution time has exceeded timeout value. Do you wish to interrupt it?

Explanation: If a command takes longer than a pre-defined timeout period, a dialog box pops up asking if the (Windows client) user wants to interrupt it or not.

Note that this message is applicable in Windows environments only, and will only be seen in a dialog pop up box.

User Response: There are three choices: YES - interrupt now; NO - continue, don't prompt me; CANCEL - continue, same timeout.

SQL1370N An attempt to quiesce instance or database "<name1>" failed because instance or database "<name2>" is already quiesced by user "<username>". Quiesce type: "<type>".

Explanation: An attempt was made to quiesce an instance or database which would have caused an overlapping quiesce, such as quiescing an instance while a database is already quiesced by another user.

Quiesce type "<type>" refers to the instance or database already quiesced and is a '1' for an instance and a '2' for a database.

User Response: Contact the user who currently has the instance or database quiesced to determine when DB2 will no longer be quiesced, and retry the request at that time.

SQL1371N Instance or database "<name>" is already quiesced by user "<username>". Quiesce type: "<type>".

Explanation: An attempt was made to quiesce an instance or database which is already quiesced.

Quiesce type "<type>" refers to the instance or database already quiesced and is a '1' for an instance and a '2' for a database.

User Response: Contact the user who currently has the instance or database quiesced to determine when DB2 will no longer be quiesced, and retry the request at that time.

SQL1372N Cannot perform a quiesce while in a transaction.

Explanation: An attempt was made to quiesce a database or instance while the user issuing the quiesce has uncompleted units of work. Quiesce cannot be issued while in this state.

User Response: Complete the unit of work (COMMIT or ROLLBACK) and retry the request.

SQL1373N Cannot QUIESCE RESET instance or database "<name>", because it is not quiesced.

Explanation: QUIESCE RESET failed because the instance or database is not quiesced.

User Response: Ensure that the quiesce reset is being issued for the correct instance or database and try again.

SQL1374N Cannot QUIESCE RESET instance or database "<name>", because it has been quiesced by another user "<username>".

Explanation: The instance or database is quiesced, but you are not the quiescer.

User Response: Ensure that the quiesce reset is being issued for the correct instance or database.

SQL1375N An invalid parameter was passed to the api. Parameter "<parm-code>" is in error.

Explanation: "<parm-code>" indicates the parameter in error:

- 1 scope
- 2 options

The value may be out of range or invalid.

User Response: Check the syntax of the api, correct the parameter and try again.

SQL1390C The environment variable DB2INSTANCE is not defined or is invalid.

Explanation: The environment variable DB2INSTANCE is not defined or is not set to a valid instance owner.

User Response: Set the DB2INSTANCE environment variable to the name of the instance to use. If you do not know the name of the instance to use or how to set the DB2INSTANCE environment variable to the instance name, refer to the *Administration Guide*.

Federated system users: refer to the *Installation and Configuration Supplement* for DB2INSTANCE information.

Ensure your PATH environment variable contains the sqllib/adm path in the home directory of the instance you want to use (for example, /u/instance/sqllib/adm, where /u/instance is the home directory of the instance owner on a UNIX system).

SQL1391N The database is already in use by another instance.

Explanation: The request failed because the database is in use by another instance of the database manager (a database may only be used by one instance.) This may be caused by attempting to access a database located on a mounted file system accessible to another instance located on another machine.

This can also occur if you have an open connection (via SNA) to a database and the database manager was brought down abnormally.

User Response:

- Validate that you are using the correct database and ensure no other instance uses this database.
- If the database manager was brought down abnormally, and you have a command line processor connection to it, perform a db2 terminate to close the offending open connection before attempting to connect again.

sqlcode: -1391

sqlstate: 51023

SQL1392N Multiple instances of applications using “<prep, bind, import, export>” is not supported.

Explanation: Only 1 instance of prep, bind, import, or export can be running at any one time within WINDOWS.

User Response: Within WINDOWS, do not attempt to start more than 1 application that uses

prep, bind, import, or export.

SQL1393C The environment variable DB2PATH is not defined or is invalid.

Explanation: The environment variable DB2PATH is not defined or is not set to a valid directory path.

User Response: Set the DB2PATH environment variable to the directory where the database manager is installed.

SQL1394N The instance is not defined.

Explanation: The new instance can not be set for the application because the instance is not defined.

User Response: Ensure that the specified instance exists. Use the db2ilist command to display the list of instances:

```
db2ilist
```

SQL1395N Unable to switch to another instance because the application is using multiple contexts.

Explanation: The request to switch to another instance failed because the application is using multiple contexts.

User Response: Ensure that the application is not using multiple contexts before switching to another instance.

SQL1396N Unable to switch to another instance because the application is connected to a database or attached to an instance.

Explanation: Request to switch to another instance failed because the application is connected to a database or attached to an instance.

User Response: Ensure that the application is not connected to any database or attached to any instance before switching to another instance.

SQL1397N The DB2 service failed to logon.

Explanation: DB2 service did not start due to a logon failure.

User Response: If you are starting the DB2 Administration Server, then use the DB2ADMIN

SETID command to set a new logon account. If you are starting a DB2 server on Windows NT, you can set the logon account for a DB2 service by using the Services dialog box from the Control Panel.

SQL1400 - SQL1499

SQL1400N Authentication is not supported.

Explanation: The authentication type supplied is not one of the supported types.

The command can not be processed.

User Response: The user should reissue the command with a valid parameter value.

See *Application Development Guide* for a list of supported authentication types.

the client node with the same authentication type as the remote database. Resubmit the command.

Federated system users:

- If the problem is that the data source requires a password but SYSCAT.SERVEROPTIONS contains SETTING='N' for OPTION='PASSWORD' for that server, alter SYSCAT.SERVEROPTIONS to reflect the true data source password requirement using the ALTER SERVER SQL statement.
- If the problem is that the data source does not require a password but SYSCAT.SERVEROPTIONS contains SETTING='Y' for OPTION='PASSWORD' for that server, alter SYSCAT.SERVEROPTIONS to reflect the true data source password requirement using the ALTER SERVER SQL statement.
- If the server option for OPTION='PASSWORD' is not set in SYSCAT.SERVEROPTIONS, create an entry using the CREATE SERVER SQL statement to reflect the true data source password requirement.

SQL1401N Authentication types do not match.

Explanation: The user is attempting to connect to a remote database which is cataloged on the local node with a different authentication type from the remote node.

Federated system users: this message can also appear when:

- A data source is identified in SYSCAT.SERVEROPTIONS with SETTING='N' for OPTION='PASSWORD' and the data source is not running in trusted client mode (that is, the data source expects a password)
- The data source is identified in SYSCAT.SERVEROPTIONS with SETTING='Y' for OPTION='PASSWORD' and the data source is running in trusted client mode (that is, the data source does not expect a password)
- There is no server option specified for OPTION='PASSWORD' in SYSCAT.SERVEROPTIONS and the system default value for PASSWORD violates the data source password requirement.

User Response: The command can not be processed.

The user should recatalog the database alias on

sqlcode: -1401

sqlstate: 08001

SQL1402N Unable to authenticate user due to unexpected system error.

Explanation: Call your system administrator. On unix-based systems, the file *db2ckpw* may not have the correct permission bits set, or the system may have run out of swap/paging space. On Windows NT, the DB2 security service may not have been started.

The command can not be processed.

Federated system users: this situation can also be detected by the data source.

User Response: On unix-based systems, have the system administrator ensure the correct access permissions are set for *db2ckpw*, and that there is enough swap/paging space allocated. On Windows NT, have the system administrator verify that the DB2 security service is installed and started.

SQL1403N The username and/or password supplied is incorrect.

Explanation: The username and/or password supplied is incorrect or not a valid username/password combination or the database to which you are attempting to connect to has an authentication type of SERVER and no username and password was supplied on the CONNECT TO statement.

If DB2 Connect is being used, the problem may be that the DCS directory entry for the host connection could not be found.

If a connection is being made from an OS/2 client to a UNIX-based server with authentication server, and the userid and password are being picked up from UPM, then the userid on the server must be defined in lowercase and have an uppercase password.

The command can not be processed.

Federated system users: this situation can also be detected by the data source.

User Response: Supply the correct username and password combination.

Federated system users: ensure that the entry in SYSCAT.USEROPTIONS contains the correct username and password for the data source being accessed.

sqlcode: -1403

sqlstate: 08004

SQL1404N Password expired.

Explanation: Your password has expired.

User Response: Change your password, then

retry the request using the new password. You can use the DB2 Client Configuration Assistant, or Command Line Processor CONNECT and ATTACH commands to change your password.

sqlcode: -1404

sqlstate: 08004

SQL1405N Unable to communicate with local DB2 authentication server.

Explanation: The application failed to authenticate due to an error while communicating to the local DB2 authentication server.

User Response: Ensure that the DB2 authentication server is started by entering the following command from an OS/2 window:

`detach db2upm`

SQL1415N The statement was compiled for diagnostic purposes only and has not been executed.

Explanation: The statement was processed through parts of the system to collect diagnostic information using service features. The necessary steps to allow further processing of the statement have not been completed.

User Response: This error is returned to prevent further processing by the system of statements prepared using service features and is expected.

SQL1420N Too many concatenation operators.

Explanation: The database manager has reached an internal limit while evaluating an expression, of long or large object string result type, that contains concatenation operators.

User Response: Reduce the number of concatenations in the expression and try again.

sqlcode: -1420

sqlstate: 54001

SQL1421N **MBCS conversion error occurred when converting host variable or sqlvar "<number>" to or from wchar_t format. Reason code "<rc>".**

Explanation: A C/C++ application with embedded SQL statements was precompiled with the WCHARTYPE CONVERT option. At runtime, the application received an error which occurred during conversion in either wcstombs(), for input host variables, or mbstowcs(), for output host variables. The host variable or sqlvar number indicates which data item experienced the problem. Valid reason codes are:

- 1** the problem occurred with input data
- 2** the problem occurred with output data

User Response: If application data is already in MBCS format, re-compile the application with WCHARTYPE NOCONVERT and re-build. If application data is intended to be in wchar_t format, then input data failing in wcstombs() may be corrupt. Correct the data and re-execute the application.

sqlcode: -1421

sqlstate: 22504

SQL1422N **The size of the container is invalid.**

Explanation: One of the containers to be used in a database managed table space is either too large or too small. A container must be at least extentsize + 1 pages in length. The maximum size of a container is operating system dependent. The most common system limit is 2 gigabytes (524288 4K pages).

User Response: Check the diagnostic log for details. Then correct the SQL statement.

sqlcode: -1422

sqlstate: 54039

SQL1423N **The query includes a column with a large object data type.**

Explanation: The query includes a column with a data type of BLOB, CLOB or DBCLOB. In general, such data types cannot be handled from clients available prior to Version 2.1.

The error occurred for a condition that corresponds to warning SQLCODE +238. See this message for details that explain the condition. The client level receiving this message cannot process BLOB data types. It may be able to handle CLOB and DBCLOB data types by using the SUBSTR function or by setting the data type in the SQLDA to one of the character data types available in Version 1 if the LOB column is not larger than the supported length of the character data type.

User Response: Change the query to exclude any column that has a data type of BLOB, CLOB or DBCLOB. This is the only possible action if the query includes a column of type BLOB. If the column (say C1) is a CLOB, you could use CAST(C1 AS LONG VARCHAR) to get the first 32700 characters. Similarly for DBCLOB column (DC1) use CAST(DC1 AS LONG VARGRAPHIC) to get the first 16350 characters. If the application code can be changed, code can be added to change the SQLDA to use LONG VARCHAR or LONG VARGRAPHIC for CLOB and DBCLOB.

sqlcode: -1423

sqlstate: 56093

SQL1424N **Too many references to transition variables and transition table columns or the row length for these references is too long. Reason code="<rc>".**

Explanation: The trigger includes a REFERENCING clause that identifies one or more transition tables and transition variables. The triggered action of the trigger contains references to transition table columns or transition variables with one of the following conditions identified by the reason code:

- 1 references total more than the limit of the number of columns in a table
- 2 sum of the lengths of the references exceeds the maximum length of a row in a table.

User Response: Reduce the number of references to transition variables and transition table columns in the trigger action of the trigger so that the length is reduced or the total number of such references is less than the maximum number of columns in a table.

sqlcode: -1424

sqlstate: 54040

SQL1425N A password has been supplied without a userid.

Explanation: Any command/API that accepts a userid and password will not accept a password without a userid.

User Response: Resubmit the command/API and supply a userid if you are also supplying a password.

SQL1426N A default instance cannot be determined.

Explanation: If an explicit 'attach to instance' has not been performed, instance commands try to form an implicit attachment to a default instance. The default instance is determined from the DB2INSTDF and DB2INSTANCE environment variables. If neither of these are set, then no implicit attachment can be formed.

User Response: Set one of these environment variables to a valid instance name and resubmit the command.

SQL1427N An instance attachment does not exist.

Explanation: The application is not attached to an instance. The attempted command/API cannot be executed unless there is an existing instance attachment.

User Response: If the error occurred when

detaching from an instance, continue processing. If the error occurred during the execution of any other command, attach to an instance and reissue the failed command.

SQL1428N The application is already attached to "<nodename1>" while the command issued requires an attachment to "<nodename2>" for successful execution.

Explanation: In order to successfully process the command, an attachment to a node other than that which currently exists is required. The application must either: 1) have no attachment when the command is issued, or 2) already be attached to the node required by the command.

User Response: Ensure that the application has no attachment before issuing the command or that the attachment that exists is to the correct node.

SQL1429N A node directory entry cannot be created in which the node name matches the value of the DB2INSTANCE environment variable.

Explanation: The CATALOG NODE command or API does not allow an entry whose nodename matches the value of the DB2INSTANCE environment variable.

User Response: Choose another node name for the node being cataloged and try again.

SQL1430N The database name "<database>" cannot be found in the system database directory on node "<nodename>".

Explanation: When specific database names are provided to the database monitor, those databases must reside either at the node to which you are currently attached or at the local node.

User Response: Make sure the databases listed in the request all reside at the node to which you

are attached or at the local node. Reissue the request.

SQL1431N The relative path "<path>" is not allowed when executing remotely.

Explanation: When the application is remote from the server, relative paths are not allowed.

User Response: Specify a fully qualified path that is valid at the server and reissue the command.

SQL1432N A request has been sent to a server using a database protocol which the server does not recognize.

Explanation: This error is caused by sending a DB2 request to a server which does not understand the database protocol being used to transmit the request. This situation will occur most frequently when sending a DB2 ATTACH request to a server listed in your node directory which is not a DB2 Version 2 or greater server. This error will also arise if you send an attach request to DB2 for AS/400, DB2 for MVS, or DB2 for VM and VSE servers.

User Response: Do not attempt to attach to any of the servers listed above.

SQL1433N The application is already connected to "<database1>" while the command issued requires a connection to "<database2>" for successful execution.

Explanation: In order to successfully process the command, a connection to a database other than that which currently exists is required. The application must either: 1) have no connection when the command is issued, or 2) already be connected to the database required by the command.

User Response: Ensure that the application has no connection before issuing the command or that the connection that exists is to the correct database.

SQL1440W The WITH GRANT OPTION has been ignored on the GRANT (Database Authorities) statement, GRANT (Package Privileges) statement, GRANT (Index Privileges) statement, or when granting CONTROL privilege on a table or view.

Explanation: The WITH GRANT OPTION is not applicable when granting database authorities or privileges on packages or indexes. The WITH GRANT OPTION does not apply to CONTROL privilege on tables, views, indexes, or packages.

All valid requested privileges were granted.

User Response: When granting database authorities, package privileges or index privileges do not include the WITH GRANT OPTION clause. When granting CONTROL, use a separate grant statement for the CONTROL privilege without specifying the WITH GRANT OPTION clause.

sqlcode: +1440

sqlstate: 01516

SQL1441N Invalid parameter. Reason code "<code>".

Explanation: The following is a list of valid reason codes:

- 1 A NULL was passed in for the context pointer.
- 3 The context pointer has been initialized, but not to a valid context area.
4. Invalid option
- 5 reserved parameter was not NULL

User Response: Ensure that the application context pointer has been properly initialized and that any options used are valid and try again.

SQL1442N The context is not in use or is not in use by the current thread.
Reason code "<code>".

Explanation: The call failed because:

- 1 The context is not in use by any thread (no attach was done)
- 2 The context is not in use by the current thread.
- 3 The current thread is not using a context.

User Response: For a detach call, ensure that the context is the one in use by the current thread, and that a corresponding attach was done.

For a get current context call, ensure that the thread is currently using a context.

SQL1443N Thread is already attached to a context.

Explanation: The user attempted to attach a context to a thread, and the thread is already using a context.

User Response: Detach from the previous context before attaching to a new one.

SQL1444N The application context cannot be destroyed because it is in use.

Explanation: The user attempted to destroy an application context while it is still in use. Either there is a thread attached to the context, or the context has a CONNECT or ATTACH associated with it. A CONNECT RESET or DETACH must be done (if a CONNECT or ATTACH has been done), and all threads must detach from the context before it can be destroyed.

User Response: Ensure that all calls to attach to a context have a corresponding detach, all CONNECTS have a corresponding CONNECT RESET, and all ATTACHES have a corresponding DETACH.

SQL1445N Thread or process does not have a context to use.

Explanation: A context type of SQL_CTX_MULTI_MANUAL is in effect, but the current thread or process has not been attached to a context.

User Response: Make sure the current thread or process is attached to a context before making any database calls.

SQL1450N Invalid registration information pointer.

Explanation: An invalid registration information pointer was passed to the register/deregister DB2 server command/API.

User Response: Verify that a valid pointer was passed to the register/deregister DB2 server command/API.

SQL1451N Register/deregister DB2 server must be issued from a server node.

Explanation: Register/deregister DB2 server was issued from an invalid node.

User Response: Reissue the register/deregister DB2 server command/API from a server node.

SQL1452N An invalid registration location was specified.

Explanation: An invalid registration location was passed to the register/deregister DB2 server command/API.

User Response: Verify that a valid registration location was passed to the register/deregister DB2 server command/API.

SQL1453N The entry in the database manager configuration file for file server name is missing or invalid.

Explanation: The file server name specified in the configuration command/API or in the database manager configuration file is missing or invalid.

User Response: Verify that a file server name was specified, that the name does not contain invalid characters, and is not longer than 48 characters in length. Update the file server name in the database manager configuration file and resubmit the command/API.

SQL1454N **The entry in the database manager configuration file for object name is missing or invalid.**

Explanation: The object name specified in the configuration command/API or in the database manager configuration file is missing or invalid.

User Response: Verify that an object name was specified, that the name does not contain invalid characters, and is not longer than 48 characters in length. Update the object name in the database manager configuration file and resubmit the command/API.

SQL1455N **The entry in the database manager configuration file for IPX socket number is missing or invalid.**

Explanation: The IPX socket number specified in the configuration command/API or in the database manager configuration file is missing or invalid.

User Response: Verify that an IPX socket number was specified, that the number does not contain invalid characters, and is not longer than 4 characters in length. Update the IPX socket number in the database manager configuration file and resubmit the command/API.

SQL1456N **The object name specified in the database manager configuration file already exists on the NetWare file server.**

Explanation: A duplicate object name was found when trying to register the DB2 server object name on the NetWare file server.

User Response: The object name specified in the database manager configuration file is already in use. Change the object name and then

re-register the DB2 server.

SQL1457N **Register/deregister failed to login to the NetWare file server specified because a NetWare directory services connection is already established to that file server.**

Explanation: A bindery login using NWLoginToFileServer cannot be performed if a NetWare directory services connection is already established to the specified file server.

User Response: Sever the directory services connection by logging out and detaching from Directory Services, and then reissue register/deregister.

SQL1458N **IPX/SPX has been configured in the database manager configuration file for direct addressing. It is not necessary to register/deregister the DB2 server at/from a NetWare file server.**

Explanation: Issuing register/deregister is not necessary since the database manager configuration file has been configured for IPX/SPX direct addressing, ie. Fileserver and objectname have been specified as '*'.

User Response: Note that since the DB2 server has been configured for direct addressing only, IPX/SPX clients using fileserver addressing will not be able to connect to this server. For the server to support both types of IPX/SPX client addressing, specify a fileserver and objectname in the database manager configuration file.

SQL1460N **The environment variable "<variable>" required for SOCKS server name resolution is not defined or not valid.**

Explanation: The SOCKS environment variable SOCKS_NS or SOCKS_SERVER is not defined. SOCKS protocol support requires that both these environment variables be defined.

SOCKS_NS

This is the IP address of the domain name server where the SOCKS server is defined.

SOCKS_SERVER

This is the hostname of the SOCKS server.

User Response: Define the missing environment variable and resubmit the command.

SQL1461N The security option "<security>" is not valid.

Explanation: The SECURITY option for a TCP/IP node has a value other than 'SOCKS'. This option is used to enable the TCP/IP node being cataloged to use SOCKS protocol support to traverse a firewall. No value other than 'SOCKS' is permitted.

User Response: Verify that SOCKS protocol support is required. If so, re-catalog the node with SECURITY SOCKS. If not, re-catalog the node, but omit the SECURITY option.

SQL1462N Request is only valid for a syncpoint manager connection.

Explanation: A request was attempted which is only valid for a syncpoint manager connection, but the syncpoint manager instance is not connected to.

User Response: Connect to the syncpoint manager instance and reissue the request.

SQL1468N The database manager TCP/IP listener must be configured and running on the server instance "<instance>" (nodenum "<node-num1>") before attempting to CONNECT or ATTACH to node "<node-num2>".

Explanation: The SET CLIENT command or api or the environment variable DB2NODE was used to set the node for CONNECT or ATTACH to "<node-num2>". In order to CONNECT or ATTACH to this node, the Database Manager TCP/IP listener must be configured and running

on the server instance "<instance>" (node "<node-num1>").

Note: This message may be returned by an implicit CONNECT or ATTACH.

User Response: Either:

- Ensure that *svcname* has been specified in the database manager configuration on the instance "<instance>", node "<node-num1>", the DB2COMM environment variable has been set to use TCP/IP, and that TCP/IP listener was successfully started at DB2START time.
- or
- Explicitly catalog the node and database.

sqlcode: -1468

sqlstate: 08004

SQL1469N Instance "<instance-name>" (nodenum "<node-num1>") does not have node "<node-num2>" specified in its db2nodes.cfg file.

Explanation: The SET CLIENT command or api or the environment variable DB2NODE was used to set the node for CONNECT or ATTACH to "<node-num2>". Subsequent CONNECT or ATTACH processing was unable to locate this node in the db2nodes.cfg file on the instance "<instance-name>" (node "<node-num1>").

Note: This message may be returned by an implicit CONNECT or ATTACH.

User Response: Ensure that the node number specified by the SET CLIENT command or api or the DB2NODE environment variable exists in the db2nodes.cfg file of the intermediate instance "<instance-name>", node "<node-num1>".

sqlcode: -1469

sqlstate: 08004

SQL1470N Value of DB2NODE environment variable is not valid.

Explanation: The DB2NODE environment variable indicates the node the application will

attempt to connect to. If DB2NODE is unset or is blank, the application will attempt to connect to the default node. Otherwise, DB2NODE must be set to the node number of one of the nodes defined on the same host as the application.

User Response: Set the DB2NODE environment variable to one of the following values:

unset causes the application to connect to the default node.

blank causes the application to connect to the default node.

A number causes the application to connect to the node with that node number. The node must be running on the same host as the application.

sqlcode: -1470

sqlstate: 08001

SQL1471N Cannot connect to database "<database-name>" on node "<node-number>" because the database on this node is not synchronized with catalog node.

Explanation: The end-of-log information on this node does not match the corresponding record on the catalog node. This can be caused by restoring the database on various nodes with backups taken from different times.

User Response: If the database is restored without rolling forward on one node, ensure that the database is restored from consistent offline backups on all nodes without rolling forward.

sqlcode: -1471

sqlstate: 08004

SQL1472N Cannot connect to database "<database-name>" on node "<node-number>" because the difference between the system time on the catalog node and the virtual timestamp on this node is greater than the max_time_diff database manager configuration parameter.

Explanation: The system time difference for the machines in the configuration (listed in the db2nodes.cfg file) is greater than the max_time_diff database manager configuration parameter.

User Response: Synchronize the system times on all machines, and ensure that the max_time_diff parameter is configured to allow for normal communication delays among the database machines.

If the above does not fix the problem, see the *Administration Guide* for possible causes and actions.

sqlcode: -1472

sqlstate: 08004

SQL1473N Cannot commit the transaction because the time difference between the system time on the local node and the virtual timestamps of node(s) "<node-list>" is greater than the max_time_diff database manager configuration parameter. The transaction is rolled back.

Explanation: The system time difference for the machines in the configuration (listed in the db2nodes.cfg file) is greater than the max_time_diff database manager configuration parameter.

If "...," is displayed at the end of the node list, see the syslog file for the complete list of nodes.

User Response: Synchronize the system times on all machines, and ensure that the max_time_diff parameter is configured to allow for

normal communication delays among the database machines.

sqlcode: -1473

sqlstate: 40504

SQL1474W The transaction completed successfully, but the time difference between the system time on the local node and the virtual timestamps of node(s) "<node-list>" is greater than the max_time_diff database manager configuration parameter.

Explanation: The system time difference for the machines in the configuration (listed in the db2nodes.cfg file) is greater than the *max_time_diff* database manager configuration parameter.

This warning message is returned to read-only transactions because they are not affected by this condition. However, other transactions would be rolled back. This message is to inform the user about this condition so that action can be taken at the earliest possible time.

If "... " is displayed at the end of the node list, see the syslog file for the complete list of nodes.

User Response: Synchronize the system times on all machines, and ensure that the *max_time_diff* parameter is configured to allow for normal communication delays among the database machines.

sqlcode: 1474

sqlstate: 01607

SQL1475W A system error occurred during CONNECT RESET processing.

Explanation: The CONNECT RESET was successful but a system error such as a node failure or a communications error may have occurred.

User Response: Check the db2diag.log file for details. The database at this node may need to be restarted.

sqlcode: 1475

sqlstate: 01622

SQL1476N The current transaction was rolled back because of error "<sqlcode>".

Explanation: A table was being created with the NOT LOGGED INITIALLY option. During the same unit of work, an error occurred. This unit of work is rolled back, and any table that was created in it is dropped.

The "<sqlcode>" reported is the SQLCODE of the original error.

User Response: Correct the problem, then run the transaction again.

sqlcode: -1476

sqlstate: 40506

SQL1477N Table "<table-name>" cannot be accessed.

Explanation: An attempt was made to access a table that is not accessible. The table is not accessible because the Rollforward utility found a log record indicating one of the following:

- The table was created with the NOT LOGGED INITIALLY parameter.
- The Load utility was run on the table.

After successful roll-forward recovery, access to this table is not allowed because its integrity cannot be guaranteed.

User Response: Drop the table. If this table is required, re-create it.

sqlcode: -1477

sqlstate: 55019

SQL1478W The database has been started but only one buffer pool has been activated.

Explanation: Only one small buffer pool with no extended storage has been activated. This is because of one of the following reasons:

- Not enough memory could be allocated for the total size of the buffer pools and the extended storage specified for this database.
- The buffer pool files in the database directory are missing or corrupt.

User Response: Check the db2diag.log file for the correct source of the problem. Possible solutions will be:

- Drop or alter the size of one or more of the buffer pools to allow the database to start properly. If there is extended storage specified for the database, adjust the configuration values of num_estore_segs and estore_seg_sz for less memory consumption.
- Run db2dart on the database and verify the validity of the buffer pool files. If the db2dart reports an error, contact your local service representative.

After making the changes, disconnect from the database and start the database again.

sqlcode: +1478

sqlstate: 01626

SQL1479W Attempt to fetch before the result set returned the first rowset.

Explanation: The requested rowset overlapped the start of the result set and, depending on the fetch orientation specified:

SQL_FETCH_PRIOR

one of the following situations:

- the current position was beyond the first row, and the number of the current row is less than or equal to the rowset size.
- the current position was beyond the end of the result set, and the rowset size was greater than the result set size.

SQL_FETCH_RELATIVE

the absolute value of the fetch offset was less than or equal to the current rowset size.

SQL_FETCH_ABSOLUTE

the fetch offset was negative, and the absolute value of the fetch offset was greater than the result set size but less than or equal to the current rowset size.

User Response: No action needed.

SQL1480N The discover type specified in the DISCOVER database manager configuration parameter is invalid.

Explanation: Valid values for the DISCOVER parameter in the database manager configuration file are: DISABLE, KNOWN, or SEARCH.

User Response: Update the DISCOVER database manager configuration parameter with a type of DISABLE, KNOWN, or SEARCH.

SQL1481N One or more of the communications protocols specified in the DISCOVER_COMM parameter is invalid.

Explanation: Valid values for the DISCOVER_COMM parameter in the database manager configuration file are any combination of NETBIOS, and TCPIP, separated by commas.

User Response: Update the DISCOVER_COMM database manager configuration parameter with any combination of NETBIOS, and TCPIP, separated by commas.

SQL1482W The BUFFPAGE parameter will only be used if one of the buffer pools is defined with a size of -1.

Explanation: This is a warning that the BUFFPAGE database configuration parameter will be ignored if none of the database's buffer pools is defined with a size of -1. -1 indicates that the buffer pool is to use the BUFFPAGE parameter as the number of buffer pool pages.

User Response: You can select from the SYSCAT.BUFFERPOOLS to review the buffer pool definitions. If none of the buffer pools are defined with size -1 (NPAGES), then setting the BUFFPAGE parameter will not change the size of

the buffer pools for the database.

SQL1490W **Activate database is successful, however, the database has already been activated on one or more nodes.**

Explanation: Database has already been explicitly started (activated) on one or more nodes.

User Response: Refer to the diagnostic log to see which node returns the warning.

SQL1491N **The database "<name>" was not deactivated because the database is still being used.**

Explanation: The database cannot be deactivated if there are any applications connected to the specified database.

User Response: Ensure that all applications have done a CONNECT RESET, then try again.

SQL1492N **The database "<name>" was not deactivated because it was not activated.**

Explanation: The database cannot be deactivated because the specified database was not active.

User Response: No action is required.

SQL1493N **The application is already connected to an active database.**

Explanation: The ACTIVATE DATABASE and DEACTIVATE DATABASE commands cannot proceed because the application is already connected to a database.

User Response: Disconnect from the database then re-submit the command.

SQL1500 - SQL1599

SQL1494W **Activate database is successful, however, there is already a connection to the database.**

Explanation: There is already database connection on one or more nodes.

User Response: Refer to the diagnostic log to see which node returns this warning.

SQL1495W **Deactivate database is successful, however, there is still a connection to the database.**

Explanation: There is still database connection to one or more nodes.

User Response: Refer to the diagnostic log to see which node returns this warning.

SQL1496W **Deactivate database is successful, but the database was not activated.**

Explanation: Database was not explicitly started on one or more nodes when deactivate database was executed.

User Response: Refer to the diagnostic log to see which node returns this warning.

SQL1497W **Activate/Deactivate database was successful, however, an error occurred on some nodes.**

Explanation: Activate/Deactivate database is successful at least on the catalog node and coordinator node, however, on some other node(s) an error has occurred.

User Response: Refer to the diagnostic log to find out what error has occurred on which node, fix the problem if possible and then reissue the activate/deactivate database command.

SQL1512N ddcstrc could not write to the specified file.

Explanation: *ddcstrc* was not able to write the trace information to the filename that it has been instructed to write to.

User Response: Ensure that the filename specified is valid for your file system. If a filename is not specified, ensure that you have the necessary permission to write to the default file *ddcstrc.tmp*.

SQL1513W ddcstrc has not been turned off.

Explanation: Because of an error condition *ddcstrc* has not been turned off. This was done to ensure that the trace information will not be lost before being safely placed in a file.

User Response: Correct the *ddcstrc* error condition reported prior to this error and attempt to turn off the trace again.

SQL1520N Buffersize must be a numeric value greater than or equal to 65536.

Explanation: The user specified an invalid buffersize for the *ddcstrc* command.

User Response: Ensure that the buffersize used is numeric and greater than or equal to 65536 (64K). Note that the memory to be used will be a multiple of 64K. *ddcstrc* rounds down the buffersize specified to the nearest multiple of 64K.

SQL1525N An error occurred when starting the DB2 security daemon.

Explanation: An unexpected error occurred when starting the DB2 security daemon.

User Response: Check the *db2diag.log* file for further information, and then retry the DB2START command.

SQL1526N db2start failed because DB2VIA support was not started. Reason code "<reason code>".

Explanation: DB2VIA support was not started successfully at *db2start* time. The reason code indicates the error:

1. The VIPL library specified in *DB2_VI_VIPL* registry variable could not be loaded.
2. The Device name specified in *DB2_VI_DEVICE* registry variable could not be opened.
3. DB2 does not support the VIA implementation installed.

User Response:

1. Make sure the DB2 registry *DB2_VI_VIPL* is properly set and the name specified in *DB2_VI_VIPL* is in the %PATH% environment variable.
2. Make sure the DB2 registry *DB2_VI_DEVICE* is properly set.
3. DB2 only supports a VIA implementation that supports at least Reliable Delivery reliability level. It is also required that the VIA implementation complies with Intel Virtual Interface Architecture Implementation Guide and passes the conformance Suite. Make sure the VIA implementation you chose satisfies these requirements.

SQL1530W The specified degree of parallelism will be ignored because the system is not enabled for intra-partition parallelism.

Explanation: Either the DEGREE bind option was specified with a value greater than 1 or the SET CURRENT DEGREE statement was executed with a value greater than 1, but the database manager was not enabled for intra-partition parallelism.

The database manager must be started with the *intra_parallel* configuration parameter set to ON in order for the instance to be enabled for intra-partition parallelism.

The statement or command completed

successfully, but the degree specification was ignored.

User Response: If you want to use intra-partition parallelism restart the database manager with the `intra_parallel` configuration parameter set to ON.

Otherwise use a value of 1 or ANY for the degree specification.

sqlcode: +1530

sqlstate: 01623

SQL1580W Trailing blanks were truncated while performing conversion from codepage "<source>" to codepage "<target>". The maximum size of the target area was "<max-len>". The source string length was "<source-len>" and its hexadecimal representation was "<string>".

Explanation: During the execution of the SQL statement, a code page conversion operation has resulted in a string that is longer than the maximum size of the target object. Processing continued because only blank characters were truncated.

User Response: Ensure that the output is as expected and that the truncation has not caused any unexpected consequences.

sqlcode: 1580

sqlstate: 01004

SQL1581N The table "<table-name>" cannot be in append mode and have a clustering index.

Explanation: There are two situations where this error is issued.

- A clustered index exists for a table and ALTER TABLE is used to attempt to place the table in append mode.
- A table is in append mode and CREATE INDEX is used to attempt to create a clustering index.

User Response: If a clustering index is necessary then alter the table to set append mode off. If append mode is desired, drop the existing clustering index on the table.

sqlcode: -1581

sqlstate: 428CA

SQL1582N The PAGESIZE of the table space "<tblspace-name>" does not match the PAGESIZE of the bufferpool "<bufferpool-name>" associated with the table space.

Explanation: The PAGESIZE value specified in the CREATE TABLESPACE statement does not match the page size of the bufferpool specified for use with the table space. These values must match.

The statement cannot be processed.

User Response: Change the value specified for PAGESIZE to match the page size of the bufferpool or change the bufferpool to one that has a page size that matches.

sqlcode: -1582

sqlstate: 428CB

SQL1583N PAGESIZE value "<pagesize>" is not supported.

Explanation: The PAGESIZE that is specified in the CREATE BUFFERPOOL or CREATE TABLESPACE statement is not a supported page size. The supported page sizes for Version 5 are 4K, 8K, 16K, and 32K.

The statement cannot be processed.

User Response: Specify one of the supported page sizes.

sqlcode: -1583

sqlstate: 428DE

SQL1584N Temporary tablespace with page size of at least "<pagesize>" could not be found.

Explanation: A temporary table space was required to process the statement. There was no temporary table space available that had a page size of "<pagesize>" or larger.

The statement cannot be processed.

User Response: Create a temporary table space with a page size of at least "<pagesize>".

sqlcode: -1584

sqlstate: 57055

SQL1585N A temporary table space with sufficient page size does not exist.

Explanation: One of the following conditions could have occurred:

1. The row length of the temporary table exceeded the limit that can be accommodated in the largest temporary table space in the database.
2. The number of columns required in a temporary table exceeded the limit that can be accommodated in the largest temporary table space in the database.

The temporary table space limits depend on its page size. These values are:

Max Record Length	Max Cols	Page size of temporary table space
-----	----	-----
1957 bytes	244	2K
4005 bytes	500	4K
8101 bytes	1012	8K
16293 bytes	1012	16K
32677 bytes	1012	32K

User Response: Create a temporary table space of a larger page size supported, if one does not already exist. If such a table space already exists, eliminate one or more columns from the temporary table. Create separate tables or views, as required, to hold additional information beyond the limit.

SQL1590N LONG VARCHAR and LONG VARGRAPHIC fields are not permitted in TABLESPACES which are built on DEVICES.

Explanation: Devices (raw i/o) on HP require i/o to be aligned on 1024 byte boundaries. LONG VARCHAR and LONG VARGRAPHIC fields are handled in 512 byte pieces, and thus can only be used in SYSTEM MANAGED TABLESPACES or in DATABASE MANAGED TABLESPACES with only FILE containers.

User Response: Alternatives:

- Choose one of the LOB columns types (BLOB,CLOB,DBCLOB) instead of LONG.
- Use a table space with the correct attributes.

sqlcode: 1590

sqlstate: 56097

SQL1591N The ON option of the SET INTEGRITY statement is not valid since the table "<table-name>" is not in the correct state.

Explanation: The ON option can only be specified on a table that is in the check pending state and the first (for foreign key constraints), second (for check constraints) and fifth (for summary tables) fields in the CONST_CHECKED column of SYSCAT.TABLES catalog must be either 'Y' or 'U'.

User Response: If the table is not in check pending, do not specify the ON option. If the table is in check pending, perform integrity checking on the table (or refresh the table if it is a summary table) before executing the SET INTEGRITY statement with the ON option.

sqlcode: -1591

sqlstate: 55019

SQL1592N The INCREMENTAL option is not valid with reason code “<reason-code>” since the table “<table-name>” cannot be incrementally processed.

Explanation: The cause is based on the “<reason-code>”:

31 The table is not in check pending state if the INCREMENTAL option is specified in a REFRESH TABLE statement.

32 The table is not a REFRESH IMMEDIATE summary table.

9 33 A Load Replace or Load Insert has occurred to the table if it is a summary table.

34 A Load Replace has occurred to the table after the last integrity check.

35 One of the following:

- New constraint has been added to the table itself or its parents (or its underlying table if it is a summary table) while in check pending.
- If it is a summary table, a Load Replace has occurred to any underlying table of the table after the last refresh.
- If it is a summary table, some of its underlying table has been taken out of check pending before it gets refreshed.
- If it is a summary table, some of its underlying tables were loaded. The table was then refreshed, followed by some more loads to the same underlying tables.
- Some of its parents (or underlying table if it is a summary table) have been checked for integrity non-incrementally.
- The table was in check pending state before migration. Full processing is required for the first time the table is checked for integrity after migration.

36 Incremental processing of a summary table is not currently supported.

User Response: Do not specify the INCREMENTAL option. The system will check the entire table for constraint violations (or if it is a summary table, recompute the summary table definition query).

sqlcode: -1592

sqlstate: 55019

SQL1593N The REMAIN PENDING option is not valid since the table “<table-name>” is not in check pending state.

Explanation: The table must be in check pending state if the REMAIN PENDING option is to be specified.

User Response: Do not specify the REMAIN PENDING option.

sqlcode: -1593

sqlstate: 55019

SQL1594W Some old data remains unverified by the system and thus some fields in the CONST_CHECKED column of the SYSCAT.TABLES catalog are marked as 'U'.

Explanation: The table was previously unchecked (or checked by users). The statement SET INTEGRITY ... OFF or LOAD was later executed which changed some values in the CONST_CHECKED column to 'W'. When INCREMENTAL option is specified in the current statement, the old (non-appended) portion of the table remains unchecked by the system, and hence, the corresponding values in the CONST_CHECKED column are marked as 'U' to keep track of it.

User Response: No action is required. If the user wants the data integrity of the table to be maintained by the system, bring the table back into check pending and re-execute the statement without the INCREMENTAL option. Full processing will be chosen by the system, which

will then assume full responsibility of data integrity of the table.

sqlcode: +1594

sqlstate: 01636

SQL1595N **The integrity for table “<table-name>” cannot be checked because either a parent table in a referential constraint has not been checked or an underlying table of the summary table is not checked.**

Explanation: To avoid propagating this table with data that might violate integrity checks, all

parents must have been validated in order to check integrity for this table. If this is a summary table, all underlying tables must have been validated in order to refresh this table. A table is validated when the first (for foreign key constraints), the second (for check constraints) and the fifth (for summary tables) fields in the CONST_CHECKED column of SYSCAT.TABLES are either 'Y' or 'U'.

User Response: Check integrity for all its parent tables (or underlying tables if it is a summary table) and re-execute this statement.

sqlcode: -1595

sqlstate: 55019

SQL1600 - SQL1699

SQL1601N **The Database System Monitor input parameter “<parameter>” is a null pointer.**

Explanation: The user called one of the Database System Monitor APIs and provided a null pointer instead of a required parameter.

The command can not be processed.

User Response: The user should reissue the command with a valid parameter value.

SQL1602N **An object type supplied in the input data structure (sqlma) is not supported.**

Explanation: An object type specified in the variable data area of the input data structure (sqlma) for Database System Monitor Snapshot API is not supported.

The command can not be processed.

User Response: Reissue the command using a valid object type. Refer to the *Administrative API Reference* and *Application Development Guide* for further information about valid object types.

SQL1603N **The parameter “<parameter>” is not specified in the input data structure (sqlma).**

Explanation: A required parameter is not specified in the input data structure (sqlma) of the Database System Monitor Snapshot or Estimate Buffer Size API.

The command cannot be processed.

User Response: The user should reissue the command specifying a valid parameter value.

SQL1604N **The parameter “<parameter>” is not null terminated.**

Explanation: A null character is expected at the end of the character string parameter.

The command can not be processed.

User Response: Add a null character at the end of the character string parameter and reissue the command.

SQL1605W **The database “<db-alias>” is not active.**

Explanation: The Database System Monitor Reset API was called for a specific database, but the database was not active.

The command completed successfully but no action was taken.

User Response: Verify that the database alias is correct and the database has been started.

SQL1606W The Database System Monitor output buffer is full.

Explanation: The Database System Monitor output buffer area is not large enough to accommodate the returned data. Likely causes are intense system activity when the call was made, or in the case of a Database Monitor API call within a user application, the user allocated a buffer too small to contain the returned data.

The command completed successfully and data collected prior to the buffer overflow is returned in the user's buffer.

User Response: The user should reissue the command, or in the case of a Database Monitor API call within a user application, allocate a larger buffer or reduce the amount of information requested.

SQL1607N There is not enough working memory to execute the requested Database System Monitor function.

Explanation: The database manager is out of working memory to process the Database System Monitor command.

The command can not be processed.

User Response: Reduce the buffer size in the input parameter and reissue the command.

SQL1608W Two or more database aliases specified on input refer to the same database.

Explanation: A Database System Monitor Snapshot or Estimate Buffer Size API call was issued specifying the same request for two or more database aliases in the sqlma input data structure, and they point to the same database.

Database System Monitor executes successfully,

but returns only one copy of the information in the output buffer.

User Response: No action is required. However, the user should verify that the database aliases specified on input are correct if information on different databases was expected.

SQL1609N The database "<db-alias>" is a remote database and cannot be monitored.

Explanation: A Database System Monitor API call was issued specifying the database alias of a remote database. Database System Monitor does not support monitoring of remote databases.

The command cannot be processed.

User Response: The user should verify that the database alias specified on input is correct, and reissue the command with the correct database alias.

SQL1610N The Database System Monitor input parameter "<parameter>" is invalid.

Explanation: The user called one of the Database System Monitor APIs and specified an invalid value for the specified parameter.

The command can not be processed.

User Response: The user should reissue the command with a valid parameter value.

SQL1611W No data was returned by Database System Monitor.

Explanation: None of the monitoring information requested by the users was available at the time the Database System Monitor API call was issued. This can occur when a requested database or application is inactive, or when a monitoring group such as the Table group is turned OFF, and Table information is requested.

User Response: The command completed successfully, but no data is returned to the user.

The user should make sure that the databases or applications for which monitoring is desired are

active at the time the Database System Monitor API is called, or that the desired monitoring groups are active.

SQL1612N The specified event monitor target path is invalid.

Explanation: The target path specified in the CREATE EVENT MONITOR statement is not a valid path name. The command could not be processed.

User Response: Resubmit the statement with the correct event monitor target path.

sqlcode: -1612

sqlstate: 428A3

SQL1613N The specified event monitor option is invalid.

Explanation: The option specified in the CREATE EVENT MONITOR statement is not valid. Possible causes include:

- The specified MAXFILES, MAXFILESIZE, or BUFFERSIZE is too low.
- MAXFILESIZE is smaller than BUFFERSIZE.
- MAXFILESIZE NONE was specified with MAXFILES not equal to 1.

The command could not be processed.

User Response: Resubmit the statement with the corrected event monitor options.

sqlcode: -1613

sqlstate: 428A4

**SQL1614N An I/O error occurred when activating an event monitor.
Reason code = "<reason-code>".**

Explanation: An I/O error was detected when an event monitor was activated. <reason-code> is one of the following:

- 1** Encountered an unknown event monitor target type.
- 2** The Event monitor target path was not found.

3 Access to event monitor target path was denied.

4 Event monitor target path is not the name of a pipe.

5 No process has opened the event monitor target pipe for reading.

6 Encountered an unexpected I/O error.

7 The target pipe was not opened in message mode. (This reason code is applicable on OS/2 only.)

8 The target pipe buffer is too small. The inbound pipe buffer must be at least 4096 bytes in size. (This reason code is applicable on OS/2 only.)

User Response: Where possible, fix the problem described by the reason code, and resubmit the SET EVENT MONITOR statement.

sqlcode: -1614

sqlstate: 58030

SQL1615W The specified event monitor is already in the requested state.

Explanation: An attempt was made to either activate an already active event monitor, or deactivate an already inactive event monitor. The SET EVENT MONITOR statement was ignored.

User Response: No user response is required.

sqlcode: +1615

sqlstate: 01598

SQL1616N The limit on the maximum number of active event monitors has already been reached.

Explanation: A maximum of 32 event monitors can be active simultaneously per database. This limit has already been reached. The specified event monitor cannot be activated.

User Response: If possible, deactivate one of the active event monitors and resubmit the SET EVENT MONITOR statement.

sqlcode: -1616

sqlstate: 54030

SQL1617N The specified event monitor has already reached its MAXFILES and MAXFILESIZE limit.

Explanation: The specified event monitor was created with a limit on the amount of data that would be allowed in the event monitor target directory. This limit has already been reached. The specified event monitor cannot be activated.

User Response: If possible, delete some of the event monitor data files from the target directory, and resubmit the SET EVENT MONITOR statement.

sqlcode: -1617

sqlstate: 54031

SQL1618N The target path of the specified event monitor is in use by another event monitor.

Explanation: The specified event monitor was created with the same target path as another event monitor. This other event monitor was activated at least once, and has left .evt and/or .ctl files in the target path. These files may be in use by application(s) that are reading the event information they contain.

User Response: If the other event monitor is currently active, deactivate it. After ensuring no application(s) are using the files it created in the target path, remove the files. Then resubmit the SET EVENT MONITOR statement.

Alternatively, recreate the required event monitor, specifying a different target path, and resubmit the SET EVENT MONITOR statement.

sqlcode: -1618

sqlstate: 51026

SQL1619N Cannot DROP an active event monitor.

Explanation: The specified event monitor is currently active, and therefore cannot be dropped.

User Response: Deactivate the event monitor and resubmit the DROP EVENT MONITOR statement.

sqlcode: -1619

sqlstate: 55034

SQL1620N Unable to flush event monitor. Reason code "<rc>".

Explanation: The event monitor could not be flushed. Possible reasons are:

1. The event monitor is not started.
2. The event monitor is running at a pre-version 6 level of output, for which flush is not available.

User Response: Ensure that the event monitor is started. If the event monitor is running at a pre-version 6 level of output, do not attempt to flush it.

sqlcode: -1620

sqlstate: 55034

SQL1621N The transaction in which the specified event monitor was created has not yet been committed. The event monitor cannot be activated.

Explanation: An event monitor cannot be activated until the transaction in which it was created has been committed.

User Response: Commit the transaction in which the event monitor was created and then reissue the SET EVENT MONITOR statement.

sqlcode: -1621

sqlstate: 55033

SQL1622N The STATE value specified in the SET EVENT MONITOR STATE statement is invalid.

Explanation: The STATE value specified in the SET EVENT MONITOR STATE statement is not within the range of valid values, or the value is NULL as a result of an indicator variable.

Valid values for the Event Monitor State include:

- 0** to deactivate the event monitor
- 1** to activate the event monitor

The statement cannot be executed.

User Response: Correct the event monitor state value and/or any indicator variable and reissue the statement.

sqlcode: -1622

sqlstate: 42815

SQL1623N The sqlmonsz or sqlmonss API was called with too many objects specified in the sqlma input structure.

Explanation: The limit imposed on the number of objects that are permitted in the sqlma input structure has been exceeded.

User Response: Reduce the number of objects in the sqlma parameter and try the call again.

SQL1624N All databases referenced by the sqlmonsz or sqlmonss API must be located at the same node.

Explanation: The sqlma parameter contained references to databases that reside on different nodes.

User Response: Modify the sqlma parameter so that all database objects reference the same node and then try the call again.

SQL1625W The monitor is not able to convert from the code page "<source>" to the code page "<target>". This conversion was attempted for data pertaining to type "<type>".

Explanation: Possible types are as follows:

1. statement text
2. dcs application
3. application
4. table
5. locks

6. table space

Conversion of data from the source code page to the target code page is not supported. This condition can occur under the following conditions:

1. source and target code page combination is not supported by the database manager.
2. source and target code page combination is not supported by the operating system character conversion utility on the server node.

This situation can occur when the monitor tries to convert data pertaining to a database whose code page is incompatible to that of the monitor application.

User Response: Check your operating system documentation for a list of supported conversions and ensure that the appropriate ones are installed and accessible to the database manager.

If possible ensure that the database being monitored and the monitoring application are in the same codepage.

SQL1626W Overflow occurred while performing conversion from codepage "<source>" to codepage "<target>". The size of the target area was "<max-len>". The data pertained to type "<type>" and the first eight characters are "<data>".

Explanation: Possible types are as follows:

1. statement text
2. dcs application
3. application
4. table
5. locks
6. table space

The monitor is unable to convert the data due to space constraints. The data is retained in its original form.

User Response: If possible ensure that the database being monitored and the monitoring application are in the same codepage.

SQL1627W **A snapshot api request was made at the self-describing datastream level, but the server was only able to return a snapshot of the fixed size structure format.**

Explanation: Although the application issuing the snapshot request made it at the SQLM_DBMON_VERSION6 or later level, the server returning the snapshot returned a downlevel view of the data.

User Response: In the self describing data format for snapshot (DB2 version 6 and later), collected information, including the server level, is returned as part of the snapshot datastream. In the pre-version 6 levels of DB2, the snapshot collected information is returned in an sqlm_collected structure. You must use the sqlm_collected structure, and the old data stream processing method to parse this snapshot datastream.

SQL1650N **The function invoked is no longer supported.**

Explanation: The user has attempted to call an API that is no longer supported in this version of the database manager.

User Response: The function required may be supported by a different API call. Check in the *Administrative API Reference* and *Application Development Guide* to determine if the function is supported through a different API call.

SQL1651N **The request cannot be executed because the DB2 server version does not support this functionality.**

Explanation: Some new functionality is not supported against older DB2 server versions.

User Response: Execute the request against a DB2 server where the latest DB2 server version has been installed, or upgrade the server to the

latest DB2 server version.

SQL1652N **File I/O error occurred.**

Explanation: Error occurred either opening, reading, writing, or closing a file.

User Response: Check the db2diag.log for details. Also, check for disk full conditions, file permissions, and operating system errors.

SQL1653N **An invalid profile path was specified.**

Explanation: A full path to a file where server information should be generated must be specified.

User Response: Ensure that the profile path specified is correct and not null.

SQL1654N **An instance path error was encountered.**

Explanation: The instance path could not be returned.

User Response: Check that the DB2INSTANCE path was specified correctly. Check that the complete path length specified is not approaching the maximum supported by the operating system.

SQL1660N **The Generator at the server, which is used by Discovery to gather server information, has failed.**

Explanation: A server system failure has occurred.

User Response: Report the failure to your DB2 server administrator. More details of the failure can be found in the server's db2diag.log file.

SQL1670N The discover type specified in the DISCOVER database manager configuration parameter indicates discovery is disabled.

Explanation: DISCOVER = DISABLE is configured in the database manager configuration file.

User Response: If DISCOVER functionality is required, change the discover type to KNOWN or SEARCH.

SQL1671N The search discovery request failed. Check the db2diag.log for further details.

Explanation: The search discovery request failed for one of the following reasons:

1. Initialization failed (sqlCommonInitializationForAPIs)
2. Failed to retrieve the client instance path (sqlinstancepath)
3. Failed to open the output file (sqlfopfn)
4. Failed to write to output file (sqlfoprpt)
5. Failed to get memory (sqlgmbblk)
6. Failed to retrieve database manager configuration (sqlfcsys)
7. NetBIOS call failed
8. DB2 internal system function failed (sqlqlogpid, sqlqlogmt)

Check the db2diag.log for details.

User Response:

1. If initialization fails, try re-booting the machine or re-installing the product.
2. If there was an instance path failure, check the DB2INSTANCE value to ensure it is correctly set.
3. If the open or write to file failed, check that you have access to open and write a file to the <sqllib path>\<instance>\tmp directory on Intel machines, or the <instance path>/sqllib/tmp directory on UNIX machines.
4. If get memory failed, check the available memory on your machine.

5. If retrieving the DBM configuration failed, try re-booting the machine or re-installing the product.

6. If a NetBIOS call failed:

- If Add Name failed with a return code of 13, check that the nname configured in the DBM configuration was not used to configure another DB2 client/server on the network.
- Check that NetBIOS was installed and configured properly, and is functioning correctly.
- Check your network for problems.

7. If a DB2 internal system function failed, check that the operating system functions on your machine are functioning correctly.

DB2 Service can provide details about the error codes returned by the above functions and written to the db2diag.log.

SQL1673N The address list specified as input to the discover interface is invalid.

Explanation: The application program used an invalid input address list pointer. The address list points to nothing.

User Response: Ensure that a valid input address list pointer is specified in the application program, and that it is not null.

SQL1674N The server address specified as input to the discover interface is invalid.

Explanation: The application program used an invalid input server address pointer. The server address points to nothing.

User Response: Ensure that a valid input server address is specified in the application program, and that it is not null.

SQL1675N **Discovery is only allowed against DB2 administration servers. The communications information provided does not access an administration server.**

Explanation: A KNOWN discovery request was issued against a DB2 server that is not a DB2

administration server. The communications information specified is not correct.

User Response: Verify that DB2ADMINSERVER is set on the DB2 server instance you are accessing. This indicates that the server instance is a DB2 administration server. Retry the KNOWN discovery request with the correct communications information.

SQL1700 - SQL1799

SQL1700N **The reserved schema name "<name>" was found in the database during database migration.**

Explanation: The database contains one or more database objects which use the schema name "<name>" that is reserved by the current Database Manager.

The command cannot be processed.

User Response: Ensure that all the database objects that use the reserved schema name are dropped and recreate the objects using a different schema name. This correction must be made in the release of Database Manager where the database was originally created. Ensure that no reserved schema names are in use before attempting the migration again. Then, resubmit the database migration command under the current release of Database Manager.

SQL1701N **The database cannot be migrated because the last session was abnormally terminated.**

Explanation: The last database operation was abnormally terminated (for example, a power failure) under the previous database manager. Database migration cannot be done until the database has been restarted.

The command cannot be processed.

User Response: The database must be restarted. You must issue the RESTART DATABASE command using the release of Database Manager where the database was last accessed. Then, resubmit the database migration command under the current release of Database Manager.

SQL1702W **The "<protocol>" connection managers have started successfully.**

User Response: No action required.

SQL1703W **The db2event directory could not be created during database migration.**

Explanation: The database was migrated successfully but the db2event directory could not be created.

This is a warning only.

User Response: The db2event directory must be created if the event monitor is to be used. The db2event directory must be created in the database directory where the migrated database resides. The database directory of the migrated database can be determined by invoking LIST DATABASE DIRECTORY.

SQL1704N **Database migration failed. Reason code "<reason-code>".**

Explanation: Database migration failed. The reason codes are as follows:

- 1** an invalid schema name was found.
- 2** database is not migrateable. The database could be in one of the following states:
 - backup pending state
 - roll-forward pending state
 - transaction inconsistent state.
- 3** database logs are full.

- 4 insufficient disk space.
- 5 cannot update database configuration file.
- 6 failed to relocate database.
- 7 failed to access the database subdirectory or one of the database files.
- 8 failed to update database container tag.
- 9 table space access is not allowed.
- 10 an invalid type name was found.
- 11 structured type and function have the same name.
- 12 structured type/table has an invalid attribute.
- 13 structured type encountered.

User Response: Possible solutions based on the reason code are:

- 1 The reserved schema names are: SYSIBM, SYSCAT, SYSSTAT, and SYSFUN. Ensure that all the database objects that use one or more of these schema names are dropped and recreate the objects using a different schema name. This correction must be made in the release of database manager in use prior to the current release. Resubmit the database migration command under the current release.
- 2 Correct the database state by going back to release of database manager in use prior to the current release and perform any necessary corrective action to the database. Resubmit the database migration command under the current release.
- 3 Increase the database configuration parameters *logfilsiz* or *logprimary* to a larger value. Resubmit the database migration command.
- 4 Ensure that there is sufficient disk space and resubmit the database migration command.
- 5 There was a problem in updating the

database configuration file. Ensure that the database configuration file is not being held exclusively by any users and is updateable. Resubmit the database migration command. If the problem persists, inform your IBM service representatives.

- 6 Restore the database from the database backup.
- 7 Restore the database from the database backup.
- 8 Resubmit the database migration command. If the problem persists, contact your IBM service representative.
- 9 Correct the table space by going back to the release of the database manager in use prior to the current release. Refer to message SQL0290N for the suggested actions to take to correct the table space.
- 10 The type name is reserved by the system. Ensure that the type and database objects that use the type are dropped and recreated using a non-reserved type name. This correction must be made in the release of database manager in use prior to the current release. Resubmit the database migration command under the current release.
- 11 A structured type and function (with no arguments) belonging to the same schema cannot have the same name. Ensure that the type or function and database objects that use the type or function are dropped and recreated using a different name. This correction must be made in the release of database manager in use prior to the current release. Resubmit the database migration command under the current release.
- 12 Attribute may have defaults, may be defined as long varchar or long vargraphic, or include null constraints. The attribute has to be dropped and

added back to the type according to the attribute definition rules in the CREATE TYPE statement.

- 13** Restore the database from the database backup. Drop all structured types (and related objects, e.g., typed tables, typed views). Resubmit the database migration command.

SQL1705W Unable to update a database directory entry to the current release level.

Explanation: One or more database aliases could not be updated in the database directory for a database which has just been migrated from a previous release.

User Response: Uncatalog the database alias(es) for the migrated database and re-catalog the database alias using the same information.

SQL1749N The NOT LOGGED INITIALLY attribute cannot be activated for table "<table-name>" since it was not created with NOT LOGGED INITIALLY.

Explanation: The table "<table-name>" was not created with the NOT LOGGED INITIALLY attribute specified and therefore this attribute cannot be activated using ALTER TABLE.

The statement cannot be processed.

User Response: Remove the NOT LOGGED INITIALLY clause from the ALTER TABLE statement.

sqlcode: -1749

sqlstate: 429AA

SQL1750N Foreign keys cannot reference a parent key table "<table-name>" that was created with the NOT LOGGED INITIALLY clause.

Explanation: A table that was created with the NOT LOGGED INITIALLY clause cannot be referenced by a foreign key.

User Response: Remove the foreign key reference to "<table-name>" in the ALTER or CREATE TABLE statement.

sqlcode: -1750

sqlstate: 429A0

SQL1751N The resulting nodegroup would not contain any nodes that can be used in a partition map.

Explanation: A nodegroup must contain at least one node that can be used in a partition map. If a node is added to a nodegroup WITHOUT TABLESPACES, it cannot be included in the partition map because there are no containers for the table spaces defined on the nodegroup. If a node is added LIKE another node and the other node does not have containers for all table spaces on the nodegroup then neither node can be included in the partition map.

User Response: Do not drop all the nodes in the nodegroup without adding at least one node. If tablespaces are already defined on the nodegroup but there are no tables, ensure that at least one node has containers for all the table spaces.

sqlcode: -1751

sqlstate: 428C0

SQL1752N The table space cannot be created in the nodegroup "<ngname>".

Explanation: The nodegroup IBMTEMPGROUP can be specified if and only if the table space is a temporary table space.

User Response: For temporary table space, specify nodegroup IBMTEMPGROUP. For other table space types, specify a nodegroup other than IBMTEMPGROUP.

sqlcode: -1752

sqlstate: 429A1

SQL1753N Node "<node-number>" does not have containers for all the temporary table spaces defined in the nodegroup IBMTEMPGROUP.

Explanation: A node must have containers defined for all the temporary table spaces defined in the nodegroup IBMTEMPGROUP for this database before it can be included in a nodegroup.

User Response: Issue the ALTER TABLESPACE statement to add containers on every node for every temporary table space in the database.

sqlcode: -1753

sqlstate: 57052

SQL1754N The index table space or long table space is not in the same nodegroup as the primary table space.

Explanation: All the table spaces specified in the CREATE TABLE statement must belong to the same nodegroup.

User Response: Make sure all the table spaces specified in the CREATE TABLE statement belong to the same nodegroup.

sqlcode: -1754

sqlstate: 42838

SQL1755N Node "<node-number>" does not have containers for all the table spaces defined in the nodegroup "<ngname>".

Explanation: A node must have containers defined for all the table spaces defined in a nodegroup before that node can be included in a redistribution operation of a nodegroup.

User Response: Issue the ALTER TABLESPACE statement to add containers on the node for all the table spaces defined in the nodegroup.

SQL1756N More than one clause specifies containers without the ON NODES clause.

Explanation: For the CREATE TABLESPACE, the USING clause without the ON NODES clause can only be specified once.

For the ALTER TABLESPACE, the ADD clause without the ON NODES clause can only be specified once.

The statement was not processed.

User Response: Correct the statement and reissue it.

sqlcode: -1756

sqlstate: 428B1

SQL1757N A USING clause without an ON NODES clause is missing.

Explanation: In CREATE TABLESPACE statement, every USING clause specifies the ON NODES clause. However not all the nodes in the nodegroup are included, and therefore not all nodes in the nodegroup have containers.

The statement is not processed.

User Response: Ensure that the USING clause without the ON NODES clause is specified or that each node in the nodegroup is included once in an ON NODES clause.

sqlcode: -1757

sqlstate: 428B1

SQL1758W The containers not designated for specific nodes are not used by the table space on any node.

Explanation: The ALTER TABLESPACE and CREATE TABLESPACE statement includes container specification for all the nodes in the nodegroup. The specification of the containers that is not followed by an ON NODES clause is redundant and has been ignored.

The statement has been processed.

User Response: If the containers are needed on

some of the nodes, issue an ALTER TABLESPACE statement to add the necessary containers.

sqlcode: -1758

sqlstate: 01589

SQL1759W Redistribute nodegroup is required to change data partitioning for objects in nodegroup “<nodegroup-name>” to include some added nodes or exclude some dropped nodes.

Explanation: This warning indicates that a change being made using the ALTER NODEGROUP or ALTER TABLESPACE statements has not caused the partitioning map for the nodegroup to be changed. The partitioning map for a nodegroup is only changed immediately by these statements if there are no tables defined using any table space defined in the nodegroup or the node being dropped is not in the partitioning map.

This warning is issued in the following cases:

- One or more nodes are added using ALTER NODEGROUP ADD NODE
- One or more nodes are dropped using ALTER NODEGROUP DROP NODE
- Containers are added for table space and no further containers are required for a node to be used.

For all of these cases, a table is already defined using a table space in the nodegroup.

User Response: If you want the node included or excluded for data partitioning then issue the REDISTRIBUTE NODEGROUP command or API. Another alternative is to drop all tables that use table spaces in the nodegroup.

sqlcode: +1759

sqlstate: 01618

SQL1760N The CREATE statement for stored procedure “<procedure-name>” must have a valid LANGUAGE clause, EXTERNAL clause and PARAMETER STYLE clause.

Explanation: A required clause is missing in the CREATE for procedure “<procedure-name>”. LANGUAGE, EXTERNAL and PARAMETER STYLE must be specified.

User Response: Add the missing clause, then try again.

sqlcode: -1760

sqlstate: 42601

SQL1761N The nodegroup “<ngname>” is not defined for the buffer pool “<bpname>”.

Explanation: The nodegroup for the table space has not been defined for the buffer pool. The table space cannot be created or altered to use this combination of nodegroup and buffer pool.

The statement cannot be processed.

User Response: The possible actions are:

- specify a buffer pool that has defined the nodegroup for the table space
- alter the buffer pool to add the nodegroup of the table space
- If CREATE TABLESPACE, specify a nodegroup that is defined for the buffer pool.

sqlcode: -1761

sqlstate: 42735

SQL1762N Unable to connect to database because there is not enough space to allocate active log files.

Explanation: There is not enough disk space to allocate active log files.

User Response: Reduce values for LOGPRIMARY and/or LOGFILSIZ database configuration parameters so that a smaller set of active log files are used.

SQL1800 - SQL1899

SQL1800N **An invalid pointer to structure sqle_request_info was passed to the catalog admin command/api.**

Explanation: The pointer to structure sqle_request_info passed as a parameter to the catalog admin command/api was invalid. For Client Configuration Assistance request this pointer must not be NULL.

User Response: Specify a valid pointer to sqle_request_info and re-submit the command.

SQL1801N **Invalid request type.**

Explanation: The specified request type is not supported for this command.

User Response: Ensure that the request type is one of the following supported request types:

1. SQLE_CCA_REQUEST - CCA catalog node request for catalog and open scan command
2. SQLE_DAS_REQUEST - DAS catalog node request for catalog and open scan command
3. SQLE_CND_REQUEST - Open scan command for CCA and DAS catalog entries

SQL1802N **No entry belongs to the request type.**

Explanation: There is no entry in the node directory that is catalogued by the given request type.

User Response: Catalog an entry with the same request type and re-submit the command.

SQL1803N **The requested operation cannot be executed in "No Package Lock" mode. An affected package is "<package-name>".**

Explanation: The database manager is currently operating in "No Package Lock" mode. This mode has been activated by setting the DB2_NO_PKG_LOCK registry environment variable to "ON".

In this mode, the following classes of operations

are prevented from being executed because of their impact on packages:

- An operation that invalidates packages.
- An operation that makes a package inoperative.
- Binding, rebinding (explicitly or implicitly) or dropping a package.

Since the requested operation would affect the package "<package-name>" in one of these ways, the operation is disallowed.

User Response: Do not attempt disallowed operations in "No Package Lock" mode. In order to execute the requested operation, "No Package Lock" mode must be exited. This is accomplished by unsetting the DB2_NO_PKG_LOCK environment registry variable. In order for the variable change to take effect, that database manager must be stopped and restarted.

sqlcode: -1803

sqlstate: 57056

SQL1820N **Action on the LOB value failed. Reason code = "<reason-code>".**

Explanation: The possible reasons codes are:

1. Not enough buffer space to store the LOB value.
2. The remote data source does not support the current action on LOB datatype.
3. Some internal programming limitation exceeded.

User Response: Reduce the size of the LOB or replace the function which is being applied on the LOB datatype. As a last resort, remove the LOB datatype from the statement.

sqlcode: -1820

sqlstate: 560A0

SQL1821W The LOB value retrieved may have changed.

Explanation: The LOB value was evaluated on a deferred retrieval basis. The LOB value may have changed between the time it was first accessed and when it was actually retrieved.

User Response: Set the "deferred_lob_retrieval" to "N" in SYSSERVEROPTIONS, resubmit your query, or ignore the warning.

sqlcode: +1821

sqlstate: 01621

SQL1822N Unexpected error code "<error code>" received from data source "<data source name>". Associated text and tokens are "<tokens>"

Explanation: While referencing a data source, the federated server received an unexpected error code from the data source that does not map to a DB2 equivalent.

Possible error codes include:

- 4901 Trying to open more than 15 cursors
- 4902 Row size exceeds 32K limit

User Response: Identify and correct the root cause of the problem by locating the appropriate message text and corrective action for the specified error at the data source.

SQL1823N No data type mapping exists for data type "<data type name>" from server "<server name>"

Explanation: An attempt was made to create a nickname for an object. One or more columns of that object are of a type currently unknown to the federated server. The name of (one of) the unknown type(s) is listed in the message.

User Response: Create a mapping for the specified type name on the specified server using the CREATE TYPE MAPPING statement.

sqlcode: -1823

sqlstate: 428C5

SQL1824W Some base tables in the operands of this UNION ALL may be the same table.

Explanation: A nickname can refer to a remote base table, a remote view, a remote alias/synonym, or a remote nickname. If two operands of a UNION ALL view refer to different nicknames, they may potentially be pointing to the same table (if not both of them are known to be remote base tables). This message is issued to warn the user that potentially one remote base table can get updated/deleted twice via updates/deletes through two operands.

User Response: Verify if all operands point to different remote tables. If two operands point to the same remote base table, consider issuing a rollback to reverse the update/delete operation.

sqlcode: +1824

sqlstate: 01620

SQL1825N This SQL statement cannot be handled in a federated environment.

Explanation: Due to some limitation, the current SQL statement cannot be handled in a federated environment. Possible limitations include:

- A cursor update/delete statement involves a refetch of a column into the federated server that is not being fetched in the cursor select statement.
- Some internal programming limitation is exceeded.

User Response: Based on the cause:

- If this is the cursor update/delete statement that involves refetch of a column not being fetched in the cursor select statement, modify the cursor select statement so that the needed column is fetched.
- If some internal programming limitation is exceeded, try to simplify or rewrite the part of the statement that seems complex, e.g. expression.

sqlcode: -1825

sqlstate: 429A9

SQL1826N An invalid value "<value>" was specified for column "<column-name>" in a system catalog object "<object-name>".

Explanation: An invalid value "<value>" was specified for a column "<column-name>" in a system catalog object "<object-name>".

The statement cannot be processed.

User Response: Refer to the *SQL Reference* for valid values for the specified column in the specified system catalog object. Correct the statement and reissue it.

sqlcode: -1826

sqlstate: 23521

SQL1827N No user mapping is defined from local authorization ID "<auth-ID>" to server "<server-name>".

Explanation: An attempt was made to drop or alter a user mapping that is not defined.

User Response: If it is an ALTER USER MAPPING statement, first create a user mapping using the CREATE USER MAPPING statement. Then, alter the user mapping. If it is a DROP USER MAPPING statement, no extra action is needed because the user mapping does not exist.

sqlcode: -1827

sqlstate: 42704

SQL1828N No server option "<option-name>" is defined for remote server "<server-name>" or for a group of remote servers: server type "<server-type>", version "<server-version>", and protocol "<server-protocol>".

Explanation: An attempt was made to drop or alter a server option that is not defined.

User Response: If it is an ALTER SERVER statement, first create a server option using the CREATE SERVER statement. Then, alter the server option. If it is a DROP SERVER statement, no extra action is needed because the server option for the servers does not exist.

sqlcode: -1828

sqlstate: 42704

SQL1830N RETURNS clause must be specified prior to a predicate specification using the EXPRESSION AS clause.

Explanation: The RETURNS clause is not specified before the AS PREDICATE WHEN clause that includes the EXPRESSION AS clause. The RETURNS clause may have been included after the predicate specification or may be missing.

The statement cannot be processed.

User Response: Specify the CREATE FUNCTION statement with the RESULTS clause prior to the AS PREDICATE WHEN clause.

sqlcode: -1830

sqlstate: 42627

SQL1831N Table statistics for a subtable "<subtable-name>" cannot be updated.

Explanation: The statement attempts to update the statistics values of NPAGES, FPAGES, or OVERFLOW, for table "<subtable-name>", that is defined as a subtable. For typed tables, these statistics can only be updated using the root table of the table hierarchy.

The statement cannot be processed.

User Response: Update the catalog statistics for the root table of the table hierarchy instead of the subtable.

sqlcode: -1831

sqlstate: 428DY

SQL1832N Data filter function
“<function-name>” cannot be a
LANGUAGE SQL function.

Explanation: The data filter function
“<function-name>” in the user defined predicate
specification can not be defined with
LANGUAGE SQL.

The statement cannot be processed.

User Response: Specify a function that is not
defined with LANGUAGE SQL.

sqlcode: -1832

sqlstate: 429B4

SQL1881N “<option-name>” is not a valid
“<option-type>” option for
“<server-name>”.

Explanation: The option that you specified for
this data source either does not exist or was
misspelled.

User Response: Consult the documentation to
verify the option that you want. Then revise and
resubmit the statement that you want to run.

sqlcode: -1881

sqlstate: 428EE

SQL1882N The “<option-type>” option
“<option-name>” cannot be set to
“<option-value>” for
“<server-name>”.

Explanation: The value that you specified is (a)
incorrect or misspelled, (b) undelimited or
improperly delimited, or both (a) and (b).

User Response: Consult the documentation to
verify the value that you want. Then revise and
resubmit the statement that you want to run. Be
sure to delimit the value in single quotes.

sqlcode: -1882

sqlstate: 428EF

SQL1883N “<option-name>” is a required
“<option-type>” option for
“<server-name>”.

Explanation: You did not specify an option that
is required for this data source.

User Response: Consult the documentation to
find out the options that are required for the
statement that you want to run. Then revise and
resubmit this statement.

sqlcode: -1883

sqlstate: 428EG

SQL1884N You specified “<option-name>” (a
“<option-type>” option) more
than once.

Explanation: You entered a statement that
references the same option multiple times.

User Response: Recode the statement so that it
references the option that you want only once.
Then resubmit the statement.

sqlcode: -1884

sqlstate: 42853

SQL1885N The “<option-type>” option
“<option-name>” is already
defined.

Explanation: You entered a value for an option
that already has a value.

User Response: Query the appropriate catalog
view to determine what value the option is
currently set to. If this value differs from the one
that you want, recode the statement so that the
SET keyword follows the OPTIONS keyword. To
find out what catalog view contains the values
for this option, consult the SQL Reference.

sqlcode: -1885

sqlstate: 428EH

SQL1886N The "<operation-type>" operation is not valid because the "<option-type>" option "<option-name>" has not been defined.

Explanation: You were unable to reset or drop a value for this option because the option is not yet operative for the object (for example, server

or column) that you specified.

User Response: If you specified SET in the statement that you want to run, recode the statement, either omitting SET or replacing it with ADD (ADD is the default). Then resubmit the statement. If you specified DROP, do nothing.

sqlcode: -1886

sqlstate: 438EJ

SQL1900 - SQL1999

SQL1900N The command completed successfully.

Explanation: The command line utility successfully completed the command.

User Response: No action is required.

SQL1901N The syntax of the command is not correct.

Explanation: The command line utility could not process the command.

SQL2000 - SQL2099

SQL2000N The drive specified in the utility command is not a valid diskette drive or fixed disk.

Explanation: The input or output drive specified in the utility command does not exist.

The utility stops processing.

User Response: Resubmit the utility command with the correct drive specifier.

SQL2001N The utility was interrupted. The output data may be incomplete.

Explanation: The user may have pressed the interrupt key sequence, or had called the utility with a terminate caller action.

This message can also be returned by DB2 Enterprise - Extended Edition during a backup or restore operation on a database node when the database catalog node is down.

The utility stops processing.

User Response: Restart the application or reissue the command, if needed. The output data from the interrupted command may be incomplete, and should not be used.

SQL2002N The specified database utility command is not valid for remote databases. The database specified in the command must reside on your local workstation.

Explanation: The database utility command is only valid for local databases.

The utility stops processing.

User Response: Run the utility locally.

SQL2003C A system error occurred.

Explanation: An operating system error occurred. The return code can be found in the

SQLERRD[0] field of the SQLCA.

The utility stops processing.

User Response: Look at the error return code in the SQLERRD[0] field of the SQLCA. Correct the error, if possible, and resubmit the command.

SQL2004N An SQL error “<sqlcode>” occurred during processing.

Explanation: The utility was using an SQL statement when an error occurred.

The utility stops processing.

User Response: Look at the SQLCODE (message number) in the message for more information. Make changes and resubmit the command.

SQL2005C An I/O error occurred during a read operation. The data may be incomplete.

Explanation: Incomplete data was read during an I/O operation.

The utility stops processing.

User Response: Determine if the I/O error can be corrected and resubmit the command.

SQL2006C An I/O error occurred during a write operation. The data may be incomplete.

Explanation: Incomplete data was written during an I/O operation.

The utility stops processing.

User Response: Determine if the I/O error can be corrected and resubmit the command.

SQL2007N Specified buffersize of “<buffersize>” 4K buffers is too small for “<pagesize>” page size object.

Explanation: To backup a “<pagesize>” page size database object one needs a buffer larger than the page size. When backing up a database

the data is first copied to an internal buffer. Data is then written from this buffer to the backup media when the buffer is full. The buffersize of “<buffersize>” 4K buffers that was specified is inadequate.

User Response: Use a larger buffersize.

SQL2008N The callerac parameter is not within valid range or the requested action is out of sequence.

Explanation: Either the *callerac* parameter value is not one of the acceptable values or the requested action is out of sequence.

The command cannot be processed.

User Response: Each utility has its own list of valid *callerac* values. Check the *Application Development Guide* for the valid values for the *callerac* for the utility in use. Resubmit the command with a valid *callerac* parameter.

SQL2009C There is not enough memory available to run the utility.

Explanation: More memory is needed to run the specified utility.

The command cannot be processed.

User Response: Possible actions include:

- Verify that your system has sufficient real and virtual memory.
- Remove background processes.
- Increase the DBHEAP database configuration parameter.

SQL2010N The utility encountered an error “<error>” while connecting to the database.

Explanation: The utility could not connect to the database.

The utility stops processing.

User Response: Look at the error number in the message for more information. Make changes and resubmit the command.

SQL2011N **The utility encountered an error "<error>" while disconnecting from the database.**

Explanation: The utility could not disconnect from the database.

The utility stops processing.

User Response: Look at the error number in the message for more information. Make changes and resubmit the command.

SQL2012N **Interrupt handling could not be enabled.**

Explanation: The utility could not enable interrupt handling. The actual return code can be found in the SQLERRD[0] field of the SQLCA.

The utility stops processing.

User Response: Look at the error return code in the SQLERRD[0] field of the SQLCA. Correct the error, if possible, and resubmit the command.

SQL2013N **The utility could not access the database directory. Error "<error>" was returned.**

Explanation: An error occurred while the utility was accessing the database directory.

The utility stops processing.

User Response: If the path in the *database* parameter is not the database directory path, resubmit the command with the correct path. Otherwise, look at the error number in the message for more information. Make changes and resubmit the command.

SQL2014N **A database environment error occurred.**

Explanation: The utility received an error from a database environment command. The database manager configuration file and the database configuration file may contain incompatible values.

The utility stops processing.

User Response: Check the database manager

configuration file and the database configuration file for inconsistent values. Resubmit the command.

SQL2015N **The database parameter is not valid. The database name is too long, it was not specified, or the address of the name is not valid.**

Explanation: The database name is required. It must contain 1 to 8 characters and the characters must be chosen from the database manager base character set. The name must be located at a valid address for the application.

The utility stops processing.

User Response: Resubmit the command with a valid database name.

SQL2016C **The PATH command does not contain a path to "<program-name>".**

Explanation: The utility could not find the required program using the operating system Select Path.

The utility stops processing.

User Response: Update the PATH command to include the path to the indicated program name.

SQL2017N **Too many sessions are already started or OS/2 Start Session did not complete successfully.**

Explanation: The BACKUP or RESTORE utility could not start the new session because:

- The maximum number of sessions is already started.
- The OS/2 Start Session program returned an error.

The utility stops processing.

User Response: Wait until some of the current sessions stop processing and resubmit the command. Or, see the SQLERRD[0] field in the SQLCA for more information and resubmit the command.

SQL2018N The utility encountered an error “<error>” while attempting to verify the user’s authorization ID or database authorizations.

Explanation: The user attempted to execute a utility and one of the following has occurred:

- The user authorization ID is not valid.
- An error occurred attempting to access the user’s authorizations for the database.

The utility stops processing.

User Response: Look at the error number in the message for more information. Make changes and resubmit the command.

SQL2019N An error occurred while binding the utilities to the database.

Explanation: Because the current level of the utility being executed was not bound to the database, the system attempted to bind all utilities to the database and this binding process failed. Possible causes for the error include:

- The system may have run out of disk space.
- A system resource problem such as too many files opened.
- A missing or invalid list of utility programs to be bound (db2ubind.lst).
- A missing or invalid bind file for one of the utilities (db2uxxxx.bnd).
- The user does not have the required authorization for binding utilities. The required privileges are:
 - BIND privilege for the utility programs
 - SELECT privilege for the system catalogs.

For the RESTORE utility, the database is restored, but at least one utility is not bound to the database. The other utilities stop processing.

User Response: Complete all activities that may be competing for system resources and resubmit the utility command. If the error continues, perform one of the following actions:

- Have a user with SYSADM or DBADM authority retry the command.

- Reinstall the database manager or reapply any recent updates or do both.
- Bind the utility programs (db2uxxxx.bnd files) individually to the database (with no format option) to isolate the problem and, possibly enable some utilities to operate successfully.

SQL2020N The utility is not bound to the database correctly.

Explanation: All the utilities were rebound to the database because the utility was not bound to the database or the package of the utility that was bound to the database was not compatible with the installed version of the database manager, but there is still a timestamp conflict between the installed version of the database manager and the package so the utility and bind file are not compatible.

The utility stops processing.

User Response: Reinstall the database manager or reapply any recent updates or do both. Resubmit the utility command.

SQL2021N The correct diskette is not in the drive.

Explanation: The diskette to be used for Backup Database or for Restore Database is not in the drive or is not valid.

The command cannot be processed.

User Response: Verify that the correct diskette is in the drive or insert a new diskette.

SQL2023N The utility encountered an I/O error “<code>” while accessing the log control file.

Explanation: The read or write operation against the log control file failed.

The utility stops processing.

User Response: Record the error return code value. Determine whether the I/O error can be corrected.

SQL2024N The utility encountered an I/O error “<code>” while accessing the .BRG file.

Explanation: An I/O error occurred while accessing the specified file.

The .BRG file is used to determine whether a Restore operation has terminated abnormally. The .BRG file resides in the local database directory of the database in question and consists of a filename equivalent to the database token and filetype of .BRG.

The utility stops processing.

User Response: Record the error return code. Determine whether the I/O error can be corrected.

SQL2025N An I/O error “<code>” occurred on media “<dir/devices>”.

Explanation: An I/O error occurred while accessing a file on the specified media.

The utility stops processing.

User Response: Record the error return code. Determine whether the I/O error can be corrected.

SQL2026N An error “<sqlcode>” occurred while trying to internally disconnect from the database.

Explanation: The internal disconnect command failed. The SQLCODE is returned in the message.

The utility stops processing.

User Response: Look at the SQLCODE (message number) in the message for more information. Make changes and resubmit the command.

SQL2027N An error “<sqlcode>” occurred while trying to internally connect to the database.

Explanation: The internal connection failed. The SQLCODE is returned in the message. The database manager configuration file and the

database configuration file may contain incompatible values.

The utility stops processing.

User Response: Look at the SQLCODE (message number) in the message for more information. Make changes and resubmit the command. Check that the database manager configuration file values and the backup image's database configuration file values are compatible.

SQL2028N Error “<sqlcode>” occurred while installing the interrupt handler.

Explanation: The utility could not enable the interrupt handler. The SQLCODE is returned in the message.

The utility stops processing.

User Response: Look at the SQLCODE (message number) in the message for more information. Make changes and resubmit the command.

SQL2029N An error “<error>” occurred while “<command-file-name>” was processing.

Explanation: An error was returned from either the specified command file, or from the operating system.

User Response: The user has either requested a “Backup changes only” of a database enabled for ROLLFORWARD recovery, or has requested a “Backup changes only” while requesting the use of the user exit.

SQL2030N The “<name>” drive is full. At least “<number>” free bytes are needed on this drive.

Explanation: The specified drive does not have enough space for creating an internal subdirectory and information file.

The utility stops processing.

User Response: Free the indicated space on the specified drive and resubmit the command.

SQL2031W **Warning! Please mount the target or source media on device "<device>".**

Explanation: A database utility process either writes data to or reads data from the media on the specified device. The utility returns so that the user may mount the correct media for the operation.

The utility waits for a response to continue.

User Response: Mount the media and return to the utility with the *callerac* parameter indicating if processing continues or ends.

SQL2032N **The "<parameter>" parameter is not valid.**

Explanation: The parameter is incorrectly specified. Either the value is out of range or is incorrect.

User Response: Resubmit the command with a correct value for the parameter.

SQL2033N **The ADSTM error "<error>" occurred.**

Explanation: During the processing of a database utility, ADSTM was called and encountered an error.

User Response: Consult the ADSTM documentation for a description of the error, take corrective actions and resubmit the command.

SQL2034N **The address of the "<parm>" parameter is not valid.**

Explanation: The application program used an address that is not valid for this parameter. Either the address points to an unallocated buffer or the character string in the buffer does not have a null terminator.

User Response: Ensure that a valid address is used in the application program and the input string is null terminated.

SQL2035N **The warning condition "<warn>" was encountered while executing the utility in non-interrupt mode.**

Explanation: The calling application invoked the utility with *no interrupt* mode. During the operation a warning condition was encountered.

User Response: Resubmit the operation without specifying the *no interrupt* condition in the *callerac* parameter or take actions to prevent the warning and resubmit the operation.

SQL2036N **The path for the file or device "<path/device>" is not valid.**

Explanation: The application calling the utility has supplied a source or target path that is not valid. The path or device specified may not exist or is incorrectly specified.

User Response: Reissue the utility command with a path that represents a correct path or device.

SQL2037N **ADSTM could not be loaded.**

Explanation: A call to a database utility specified ADSTM as the target or source of the backup. An attempt was made to load the ADSTM client. Either the ADSTM client is not available on the system or an error was encountered in the load procedure.

User Response: Ensure that the system has ADSTM available. Resubmit the command after ADSTM is made available, or resubmit the command without utilizing ADSTM.

SQL2038N **A database system error "<errcode>" occurred during processing.**

Explanation: A database system error was encountered during the processing of one of the utilities.

User Response: Examine the error code in the message for more information. Take corrective action and resubmit the command.

SQL2039N The application calling the utility has terminated.

Explanation: The application calling the utility has terminated. The application side of the utility is in the same process as the calling application and terminates with the application. The agent side of the utility terminates as a result.

User Response: Reissue the command after determining why the application terminated.

SQL2040N The database alias parameter "<dbalias>" is not valid or not specified.

Explanation: The application calling the Backup or Restore utility has supplied a database alias parameter that is not valid. The alias must be 1 to 8 bytes and the characters must be chosen from the database manager base character set.

User Response: Reissue the Backup or Restore command with a valid database alias.

SQL2041N The buffer size parameter specified is not valid. The buffer size must be specified as 0 or be between 8 and 16384 inclusive.

Explanation: The application calling the utility has supplied a buffer size parameter that is not valid. The buffer size is used to determine the internal buffer size. The value is the number of 4K pages that are obtained for this buffer. The value must be specified as 0 or be between 16 and 16384 inclusive.

When running the backup or restore utility, if 0 is specified, the default buffer size defined in the database manager configuration is used.

If the target media is a diskette, the buffer size must be smaller than the diskette size.

SQL2042W Warning! I/O error "<error>" accessing device "<device>". Additional information (if available): "<additional_information>". Please ensure media is mounted and positioned correctly.

Explanation: The application calling the utility has encountered an I/O error while trying to read or write to the tape device. The utility returns so that the user may correctly mount and position the tape.

The message may contain additional information to help diagnose the problem.

The utility waits for a response to continue.

User Response: Correctly mount and position the tape and return to the utility indicating if processing continues or ends.

The error, device and the additional information (if present) can be used to diagnose and correct the problem.

SQL2043N Unable to start a child process or thread.

Explanation: Unable to start up the child processes or threads required during the processing of a database utility. On UNIX-based systems, this may mean that the maxuproc value is too low. On OS/2-based systems, this may mean that the THREADS CONFIG.SYS value is too low. The problem may also be that there was insufficient memory to create the new process or thread. The utility stops processing.

User Response: Ensure the system limit for number of processes or threads has not been reached (either increase the limit or reduce the number of processes or threads already running). Ensure that there is sufficient memory for the new process or thread. Resubmit the utility command.

SQL2044N **An error occurred while accessing a message queue. Reason code: "<reason-code>"**

Explanation: An unexpected error or bad message was received on one of the message queues during the processing of a database utility. The following is a list of reason codes:

1	Unable to create a message queue. The number of message queues allowed may have been exceeded.
2	An error was encountered while reading from a message queue.
3	An error was encountered while writing to a message queue.
4	An invalid message was received from a message queue.
5	An error was encountered while opening a message queue.
6	An error was encountered while closing a message queue.
7	An error was encountered while querying a message queue.
8	An error was encountered while deleting a message queue.

The utility stops processing.

User Response: Ensure the number of message queues allowed is not reached. Reduce the number of message queues in use if necessary and resubmit the utility command.

SQL2045W **Warning! Error "<error>" occurred while writing to media "<media>"**

Explanation: A database utility process encountered error "<error>" returned by the operating system while writing to the media "<media>". The utility returns so that the user may attempt to fix the problem or cancel the operation.

The utility waits for a response to continue.

User Response: Consult the problem

determination documentation for your operating system and correct the "<error>" condition. Return to the utility with the correct caller action parameter to indicate if processing should continue or terminate.

SQL2048N **An error occurred while accessing object "<object>". Reason code: "<reason-code>"**

Explanation: An error occurred while accessing an object during the processing of a database utility. The following is a list of reason codes:

1	An invalid object type is encountered.
2	A lock object operation failed. The lock wait may have reached the lock timeout limit specified in the database configuration.
3	An unlock object operation failed during the processing of a database utility.
4	Access to an object failed.
5	An object in the database is corrupted.
6	The object being accessed is a table space and either the table space is in such a state that the operation is not allowed or one or more containers of the table space is not available. (LIST TABLESPACES will list the current table space state.)
7	A delete object operation failed.
8	Trying to load / quiesce into a table that is not defined on this partition.

The utility stops processing.

User Response: If a lock object operation failed, ensure the lock timeout limit in the database configuration is adequate and resubmit the utility command. You may also consider using the QUIESCE command to bring the database to a quiesced state to ensure access.

If the error was encountered during backup, take corrective action to recover the database and resubmit the utility command.

If the error was encountered during restore or

load recovery, ensure the backup or copy image is correct and resubmit the utility command.

If the object is a table space and the error was encountered during a restore, the set table space container api may be used to modify the table space before resubmitting the utility command.

SQL2054N The backup or copy image is corrupted.

Explanation: The backup or copy image in use is corrupted

The utility stops processing.

User Response: Discard the image as it is not a valid image. Resubmit the utility command with a valid image.

SQL2055N Unable to access memory from memory set "<memory-heap>".

Explanation: A database utility was unable to access memory during processing.

The utility stops processing.

User Response: Stop the database manager, then restart it and resubmit the utility command.

SQL2056N An invalid media type was encountered on media "<media>".

Explanation: An invalid media type was encountered during the processing of a database utility.

The utility stops processing.

User Response: Ensure the media used is among of the types supported by the utility. Resubmit the command with a valid media list.

SQL2057N The media "<media>" is already opened by another process.

Explanation: The source or target media specified during the processing of a database utility is already open by another process. The utility does not allow shared access for the operation.

The utility stops processing.

User Response: Ensure the media used is not in use currently. Resubmit the command with a valid media list.

SQL2058W An end-of-media warning was encountered on media "<media>".

Explanation: An end-of-media warning was encountered during the processing of a database utility. This error can also occur if an invalid tape device block size was specified.

The utility is waiting for a response to continue.

User Response: Correct the end-of-media condition and return to the utility with the correct caller action parameter to indicate if processing should continue or terminate.

The tape device block size (or blocking factor) used at restore time must be the same as that used during the backup. If a variable block size is used, then the buffer size used must be less than or equal to the maximum block size of the tape device.

SQL2059W A device full warning was encountered on device "<device>".

Explanation: An device full warning was encountered during the processing of a database utility.

The utility is waiting for a response to continue.

User Response: Correct the device full condition and return to the utility with the correct caller action parameter to indicate if processing should continue or terminate.

SQL2060W The device "<device>" is empty.

Explanation: An empty device was encountered during the processing of a database utility. The utility is waiting for a response to continue.

User Response: Mount the media and return to the utility with the caller action parameter to indicate if processing should continue or terminate.

SQL2061N **An attempt to access media “<media>” is denied.**

Explanation: An attempt to access a device, file, ADSM or the vendor shared library is denied during the processing of a database utility. The utility stops processing.

User Response: Ensure the device, file, ADSM or vendor shared library used by the utility allows the access requested and resubmit the utility command.

SQL2062N **An error occurred while accessing media “<media>”. Reason code: “<reason-code>”**

Explanation: An unexpected error occurred while accessing a device, file, ADSM or the vendor shared library during the processing of a database utility. The following is a list of reason codes:

1	An attempt to initialize a device, file, ADSM or the vendor shared library failed.
2	An attempt to terminate a device, file, ADSM or the vendor shared library failed.
other	If you are using ADSM, this is an error code returned by ADSM.

The utility stops processing.

User Response: Ensure the device, file, ADSM or vendor shared library used by the utility is available and resubmit the utility command. If the command is still unsuccessful, contact your technical service representative.

SQL2065W **Caller action “<caller-action>” specified is not allowed when the media “<media>” specified is the only one left connected to the utility.**

Explanation: The caller action specified is not allowed because there is only one device left connected to the database utility.

User Response: Return to the utility with the

correct caller action parameter to indicate if processing should continue or terminate.

SQL2066N **Table space name “<name>” specified does not exist in the database or cannot be used for the utility operation.**

Explanation: The table space name specified is syntactically correct, but it does not exist in the database or cannot be used in an utility operation. If the utility in use is a backup operation, the table space may be disallowed because it is a temporary table space or is in an inconsistent state.

User Response: Check the table space name and resubmit the utility command with the correct table space name.

SQL2068N **An invalid image was encountered on media “<media>”. There was no media header.**

Explanation: An invalid image was encountered during the processing of a database utility. The utility was not able to locate a valid media header. The utility stops processing.

User Response: Resubmit the command with correct backup or copy images.

SQL2069N **An invalid image was encountered on media “<media>”. The image was created for database alias “<dbalias>”.**

Explanation: An invalid image was encountered during the processing of a database utility. The image provided was from a different database alias. The utility stops processing.

User Response: Resubmit the command with correct backup or copy images.

SQL2070N **An invalid image was encountered on media “<media>”. The image contained timestamp “<timestamp>”.**

Explanation: An invalid image was encountered during the processing of a database utility. The image provided was from a backup or copy with a different timestamp. The utility stops processing.

User Response: Resubmit the command with correct backup or copy images.

SQL2071N **An error occurred while accessing the shared library “<shr-lib-name>”. Reason code: “<reason-code>”**

Explanation: An unexpected error occurred while accessing a vendor shared library during the processing of a database utility. The following is a list of reason codes:

- 1** An invalid shared library path was encountered.
- 2** An attempt to load the backup shared library failed.
- 3** An error was encountered while unloading the shared library.

The utility stops processing.

User Response: Ensure the shared library provided is valid and resubmit the utility command or use another supported media.

SQL2072N **Unable to bind the shared library “<shr-lib-name>”. Reason code: “<reason-code>”.**

Explanation: An error was encountered while binding the shared library during the processing of a database utility. The utility stops processing.

User Response: Note the reason code returned from the vendor utility in the message and take

corrective action if possible. Resubmit the command with a valid shared library or using another supported media.

SQL2073N **DATALINK processing failed because of internal problems at the database server or DB2 Data Links Manager.**

Explanation: An unexpected error occurred while processing DATALINK values.

User Response: Resubmit the command. If the problem still exists, resubmit the command after shutdown and restart of DB2 and the DB2 Data Links Managers.

The Restore utility can avoid DATALINK processing by specifying WITHOUT DATALINK.

SQL2074N **DATALINK processing failed because of internal problems at the database server.**

Explanation: An unexpected error occurred while processing DATALINK values.

User Response: Resubmit the command. If the problem still exists, resubmit the command after shutdown and restart of DB2.

The Restore utility can avoid DATALINK processing by specifying WITHOUT DATALINK.

SQL2075N **DATALINK processing failed because of internal problems at the DB2 Data Links Manager.**

Explanation: An unexpected error occurred while processing DATALINK values.

User Response: Resubmit the command. If the problem still exists, resubmit the command after shutdown and restart of the DB2 Data Links Managers.

The Restore utility can avoid DATALINK processing by specifying WITHOUT DATALINK.

SQL2100 - SQL2199

SQL2150W The table spaces contained in the backup image were restored, however one or more of these table spaces were skipped, as per the request of the caller.

Explanation: A restore was issued, indicating that only a subset of the table spaces in the backup image were to be recovered.

User Response: No action is required.

SQL2154N The RESTORE was not successful. The backup used to restore the table space(s) is not associated with the current log sequence for the database.

Explanation: For table space restore, the backup must have been taken during the current log sequence of the database. The log file sequence is determined by the database that has been restored previously or the log files that have been processed. In addition, the backup must have been taken after the last time the database was enabled for roll forward recovery.

Table space restore has stopped.

User Response: Resubmit the command with a correct backup image.

SQL2155W Changes have been made to the recovery history file since the open scan was issued.

Explanation: Changes have been made to the recovery history file since the file was open for a scan. The data read may not be consistent.

User Response: If it is essential to have consistent data from the scan, close the recovery history file and resubmit the command.

SQL2157N There are already eight recovery history file scans open.

Explanation: Eight recovery history file scans in this process are already open. No more than eight open scans are allowed.

The command cannot be processed.

User Response: Issue one or more CLOSE RECOVERY HISTORY FILE SCAN commands and resubmit the command.

SQL2160W A damaged recovery history file has been replaced. Processing continued.

Explanation: An error was encountered during an access to the recovery history file. The utility is able to recover the file from an alternate copy. The utility continues processing.

User Response: The utility continues processing successfully. The user should take appropriate precautions to ensure the recovery history file is not damaged again.

SQL2161N A damaged recovery history file could not be fixed. The specified action failed.

Explanation: An error was encountered during an access to the recovery history file. The utility is not able to recover the file. The utility stops processing.

User Response: To continue processing, the user may remove the recovery history file and resubmit the command. The utility will regenerate a new file. Any data from the corrupted file are lost. The user may look at the corrupted file to see if any information can be saved. The user should take appropriate precautions to ensure the recovery history file is not damaged again.

SQL2165W The SQLUHINFO structure did not provide enough TABLESPACE entries.

Explanation: The SQLUHINFO structure was not large enough to hold the entry that was to be returned (including all of its TABLESPACES). The value of the SQLN field of the SQLUHINFO structure should be at least as large as the SQLD field returned.

The command cannot be processed.

User Response: Increase the value of the SQLN field in the SQLUHINFO structure to the value

indicated by the SQLD field (making sure the SQLUHINFO structure is large enough to support that amount) and resubmit the command.

SQL2170N **The utility encountered entries with the same identifier in the recovery history file. Write fails.**

Explanation: The utility has encountered an entry with the same identifier (timestamp to the second) in the recovery history file while writing to it. The write to the recovery history file terminates. Database manager ensures the uniqueness of the recovery history file identifiers and makes provisions for it even if there are more than one request per second. However, there may be cases where it will fail if numerous requests come in within a few seconds.

User Response: Check the First Failure Service Log (db2diag.log) for additional information. If the applications are running utilities (such as backup, quiesce, load) that generate numerous entries to the history file, try to pace the utility requests to prevent the problem.

SQL2200 - SQL2299

SQL2200N **The qualifier for the table or index name is too long or it was not specified as part of the table or index name.**

Explanation: The table name or index must be fully qualified. The format is *authid.name* where *authid* must be 1 to 8 characters, table *name* must be 1 to 128 characters and index *name* must be 1 to 18 characters (bytes in a MBCS environment).

The utility stops processing.

User Response: Resubmit the command with a fully qualified name including the correct qualifier.

SQL2171N **The update of the recovery history file failed because the specified object part does not exist in the file.**

Explanation: The entry specified to be updated in the recovery history file does not exist in the file. The utility stops processing.

User Response: Resubmit the command with a valid entry.

SQL2172W **The utility has completed but it is not able to log the event in the recovery history file due to error "<error>".**

Explanation: The utility has encountered an error writing to the recovery history file. This warning does not affect processing.

User Response: Check the First Failure Service Log (db2diag.log) for additional information. Correct the error condition to prevent future warnings.

SQL2203N **The tablename parameter is not valid. Either the table name is too long, only an authorization ID was specified, the table name was not specified, or the address of the name is not valid.**

Explanation: The table name is required. It must be fully qualified and in the format *authid.name* where *authid* is 1 to 8 characters and *name* is 1 to 128 characters (bytes in MBCS environments). The table name must be located at a valid application address.

The utility stops processing.

User Response: Resubmit the command with the correct table name.

SQL2204N **The iname parameter is not valid. The name of the index is too long, only an authorization ID was specified, or the address of the index is not valid.**

Explanation: If an index is specified, it must be fully qualified and in the format *authid.name* where *authid* is 1 to 8 characters and *name* is 1 to 18 characters (bytes in MBCS environments). The index must be located at a valid application address.

The utility stops processing.

User Response: Resubmit the command with a valid index name.

SQL2205N **The specified index does not exist.**

Explanation: The specified index does not exist for the specified *authid.table* or *authid.index*.

Federated system users: this situation can also be detected by the data source.

The utility or operation stops processing.

User Response: Resubmit the command with a valid index.

SQL2207N **The filepath specified by the datafile parameter is not valid.**

Explanation: The datafile parameter is not any of the values that indicate the default filepath. Also the datafile parameter is not a valid non-default value. One of the following may apply:

- The pointer is not valid.
- The pointer points to a string that is too long for a filepath designation.
- The specified path value is not valid (on the server machine).
- The file path does not end with an appropriate separator for the server machine.

The utility stops processing.

User Response: Resubmit the command with a valid datafile parameter.

SQL2208N **The table space specified by the table space parameter is not valid.**

Explanation: The table space parameter does not contain a valid value. One of the following conditions may exist:

- The pointer is not valid
- The pointer points to a string that is too long for a table space name
- The specified table space does not exist.

The utility stops processing.

User Response: Resubmit the command with a valid table space parameter or do not use the table space name parameter. In the latter case, the Reorganize Table utility will use the table space(s) in which the table itself resides.

SQL2211N **The specified table does not exist.**

Explanation: The table does not exist in the database. Either the table name or the authorization ID is incorrect.

The command cannot be processed.

User Response: Resubmit the command with a valid table name.

SQL2212N **The specified table is a view. The Reorganize Table utility cannot be run against a view.**

Explanation: The Reorganize Table utility cannot be run against a view.

The utility stops processing.

User Response: Resubmit the command with a valid table name.

SQL2213N **The specified table space is not a temporary table space.**

Explanation: The Reorganize Table utility requires that any table space specified is a temporary table space. The table space name provided is not a table space defined to hold temporary tables.

The utility stops processing.

User Response: Resubmit the command with the name of a temporary table space or do not use the table space name parameter. In the latter case, the Reorganize Table utility will use the table space(s) in which the table itself resides.

SQL2214N **The user does not have the authority to run the Reorganize Table utility on table “<name>”.**

Explanation: The user attempted to reorganize the specified table without the appropriate authorization (either SYSADM or DBADM authority or the CONTROL privilege on the table).

The utility stops processing.

User Response: Logon as a user with the appropriate authority or privilege and resubmit the reorganize table utility command.

SQL2215N **SQL error “<sqlcode>” occurred while committing previous work for the database.**

Explanation: The user was already connected to the database specified in the Reorganize Table command. An error occurred while committing the previous work in progress for the database.

The utility stops processing with no attempt to roll back the work or break the database connection.

User Response: Look at the SQLCODE (message number) in the message for more information. Make changes and resubmit the command.

SQL2216N **SQL error “<sqlcode>” occurred while reorganizing a database table.**

Explanation: An error occurred during the reorganization of a database table.

The utility stops processing.

SQL2300 - SQL2399

User Response: Look at the SQLCODE (message number) in the message for more information. Make changes and resubmit the command.

SQL2217N **The pagesize of the temporary table space used by the REORG utility must match the pagesize of the table space(s) in which the table data resides (including the LONG and/or LOB column data).**

Explanation: All table data (including LONG and/or LOB column data) must reside in a table space with the same pagesize as the pagesize of the temporary table space provided to the REORG utility. One of the following has violated this restriction:

1. The table's data resides in a table space that has a different pagesize than that of the temporary table space.
2. The table contains LONG and/or LOB columns whose data must reside in a table space with a 4K pagesize, which is different than that of the temporary table space (and the table's regular data).

User Response: If the table being reorganized resides in a table space with a pagesize other than 4K and the table also includes LONG and/or LOB columns, then a temporary table space cannot be provided to the REORG utility. Reissue the REORG request without specifying a temporary table space.

If the table being reorganized does not have LONG and/or LOB columns (or it does but the table's data resides in a table space with a 4K pagesize), then reissue the REORG request specifying a temporary table space that has a pagesize that matches the table space containing the table data. Alternatively, reissue the REORG request without specifying a temporary table space.

SQL2300N The identifier for the table name is too long or it was not specified as part of the table name.

Explanation: The table name must be fully qualified. The format is *authid.tablename* where *authid* contains 1 to 8 characters and *tablename* contains 1 to 128 characters (bytes in MBCS environments).

The utility stops processing.

User Response: Resubmit the command with the fully qualified table name, including the correct qualifier.

SQL2301N The tablename parameter is not valid. Either it is too long, only an authorization ID was specified, or the address of the name is not valid.

Explanation: The table name must be fully qualified and in the format *authid.name* where *authid* contains 1 to 8 characters and *name* contains 1 to 128 characters (bytes in MBCS environments) and must be located at a valid application address.

The utility stops processing.

User Response: Resubmit the command with the correct table name.

SQL2302N The index list is not valid. Either the address for the list is not valid, the number of entries in the list is less than the number of indexes specified, or the address for an index in the list is not valid.

Explanation: The address for the list is not valid, the number of entries in the list is less than the number of indexes specified, or the address for an index in the list is not valid.

The utility stops processing.

User Response: Resubmit the command with a valid index list.

SQL2303N The statsopt parameter is not valid.

Explanation: The *statsopt* parameter in the Run Statistics command must be one of the following:

- T for basic table only
- I for basic indexes only
- B for both basic table and indexes
- D for table and distribution
- E for table and distribution and basic indexes
- X for extended indexes only
- Y for extended indexes and basic table
- A for all

The utility stops processing.

User Response: Resubmit the command with a valid *statsopt* parameter.

SQL2304N The sharelev parameter is not valid. It must be 'R' for reference or 'C' for change.

Explanation: The *sharelev* parameter in the RUN STATISTICS command must be R for reference or C for change.

The utility stops processing.

User Response: Resubmit the command with a valid *sharelev* parameter.

SQL2305N The table specified is a view. The utility cannot be run against a view.

Explanation: The *tname* parameter specified a view rather than a table.

The utility stops processing.

User Response: Resubmit the command with a valid *tname* parameter.

SQL2306N The table or index "<name>" does not exist.

Explanation: The table or index identified by "<name>" does not exist in the database, or the index identified by "<name>" is not defined on

the specified table. The qualifier for the table or one of the indexes may be incorrect.

The utility stops processing.

User Response: Resubmit the command with valid table names and indexes.

SQL2307N The table specified is a system table. The Runstats utility cannot be run against a system table.

Explanation: The Run Statistics utility command may not be run against a system table.

The utility stops processing.

User Response: Resubmit the command with a valid table name.

SQL2308N The qualifier for the index name "<name>" is too long, or it was not specified as part of the index name.

Explanation: The index name must be a fully qualified name. The format is *authid.tablename* where *authid* contains 1 to 8 characters and *tablename* contains 1 to 18 characters (bytes in MBCS environments).

The utility stops processing.

User Response: Resubmit the command with a fully qualified name, including the correct qualifier.

SQL2309N The index name "<name>" is not valid. It is too long or only a qualifier was specified.

Explanation: The index name must be a fully qualified name. The format is *authid.name* where *authid* contains 1 to 8 characters and *name* contains 1 to 18 characters (bytes in MBCS environments).

The utility stops processing.

User Response: Resubmit the command with a valid index.

SQL2310N The utility could not generate statistics. Error "<sqlcode>" was returned.

Explanation: An error occurred while the utility was gathering statistics.

The utility stops processing.

User Response: Look at the message error number for more information. Make changes and resubmit the command.

SQL2311N The user does not have the authority to run the Run Statistics utility on table "<name>".

Explanation: The user attempted to run statistics on the specified table without the appropriate authorization (either the SYSADM or DBADM authority or the CONTROL privilege on the table). If the table specified in RUNSTATS is the root table of a table hierarchy, then the table name returned in the message may be a subtable of the specified root table.

The utility stops processing.

User Response: Do not attempt to call the Run Statistics utility command without appropriate authorization.

SQL2312N Statistics heap size is too small to carry out the operation. Suggested heap size is "<num>" pages.

Explanation: The setting of the database configuration parameter *stat_heap_sz* is not big enough to collect non-uniform distribution statistics on the table.

User Response: Update the database configuration parameter *stat_heap_sz* to the suggested value and try again.

SQL2313W All available memory in the statistics heap has been used. Statistics were collected on the first "<n1>" rows out of a total of "<n2>" rows.

Explanation: The setting of the database configuration parameter *stat_heap_sz* is not big enough to collect non-uniform distribution statistics on the table. Only <n1> of <n2> rows could be processed.

User Response: Update the database configuration parameter *stat_heap_sz* by 20 percent and try again.

SQL2314W Some statistics are in an inconsistent state. The newly collected "<object1>" statistics are inconsistent with the existing "<object2>" statistics.

Explanation: Issuing RUNSTATS on the table only may result in a situation where the table

level statistics are inconsistent with the already existing index level statistics. For example, if index level statistics are collected on a particular table and later a significant number of rows is deleted from this table, issuing RUNSTATS on the table only may end up with the table cardinality less than FIRSTKEYCARD which is an inconsistent state. Likewise, issuing RUNSTATS for indexes only may leave the already existing table level statistics in an inconsistent state. For example, if table level statistics are collected on a particular table and later a significant number of rows is deleted from this table, issuing RUNSTATS for the indexes only may end up with some columns having a COLCARD greater than the table cardinality.

User Response: If you issued a RUNSTATS for indexes only issue a RUNSTATS on the table as well so that table level and index level statistics are consistent. Likewise, if you issued a RUNSTATS on the table only, issue a RUNSTATS for indexes as well.

SQL2400 - SQL2499

SQL2400N The type specified in the BACKUP command is not valid. It must be either 0 to back up the entire database or 1 to back up only the current changes.

Explanation: The type must be either 0 for backing up the whole database or 1 for backing up changes only.

The utility stops processing.

User Response: Resubmit the utility command with the correct type.

SQL2401N "Backup changes only" cannot be performed until a backup of the entire database has been done. The type must be 0.

Explanation: A backup of changes only has been requested without requesting a backup of the entire database first, or an internal file has been damaged such that the BACKUP utility cannot determine whether a full backup had

been taken. The backup of changes only cannot be used until after a backup of the entire database.

The utility stops processing.

User Response: Resubmit the utility command with the correct type.

SQL2403N The user does not have the authority to run the utility against the database.

Explanation: The user attempted to execute a database utility without either SYSADM or DBADM authority.

The utility stops processing.

User Response: Do not attempt to call the utility command without appropriate authorization.

SQL2404N **The backup target media is full. At least “<number>” free bytes are needed on the target media.**

Explanation: The backup target media does not have enough space for creating an internal subdirectory and information file.

The utility stops processing.

User Response: Prepare a backup media that has at least the specified number of bytes of free space and then resubmit the command.

SQL2405N **The BACKUP cannot be performed because there is a previously incomplete RESTORE.**

Explanation: The database is in an inconsistent state due to a system crash during a restore operation or due to an abnormally terminated RESTORE.

The utility stops processing.

User Response: Resubmit the RESTORE command.

SQL2406N **The BACKUP cannot be performed because the database needs to be rolled forward.**

Explanation: The backup failed because the database is in an inconsistent state.

The utility stops processing.

User Response: Use the ROLLFORWARD command to make the database usable. Then resubmit the BACKUP command.

SQL2407N **An I/O error occurred reading the file “<name>”. The BACKUP cannot be performed because it cannot determine if a RESTORE was completed.**

Explanation: The indicated file cannot be read due to the I/O error. Since the file exists, a BACKUP or RESTORE command must have not completed. Upon successful completion of the process this file is deleted.

The utility stops processing.

User Response: Determine which process was executed previously. Delete the indicated file and resubmit the previous command.

SQL2408W **The database was backed up, but an I/O error “<error>” occurred while deleting the file “<name>”.**

Explanation: The BACKUP command ran successfully. The indicated file was not deleted due to an I/O error.

The utility completed processing.

User Response: Try to delete the file indicated in the message.

SQL2409N **When doing a BACKUP of changes only, the most recent backup image must be used.**

Explanation: The user has attempted to perform a changes only backup but the backup image specified is not the most current backup or the previous backup of changes only failed.

The utility stops processing.

User Response: Locate the most recent backup image and resubmit the command. If the most recent backup image cannot be located or if the previous backup of changes only failed, resubmit the command requesting a backup of the entire database rather than a changes only backup.

SQL2410N **“Backup changes only” cannot be performed if the database is enabled for ROLLFORWARD or if the BACKUP is being done through a user exit.**

Explanation: The user requested a changes only backup of a database with roll-forward enabled, or has requested a changes only backup through the user exit program.

User Response: Possible solutions include:

- If the database is roll-forward enabled, resubmit the BACKUP utility command requesting a backup of the entire database.

- Disable roll-forward by turning off the SQL_ENABLE_LOG_RETAIN flag and SQL_ENABLE_USER_EXIT flag in the database configuration file. Then resubmit the BACKUP utility command requesting a changes only backup.
- If the backup was requested through the user exit program, resubmit the BACKUP utility command to do a changes only backup not using the user exit program.
- If the backup was requested through the user exit program to a standard device, resubmit the BACKUP utility command to do a changes only backup not using the user exit program.

SQL2411C An I/O error occurred while running a utility. Either the disk could not be physically written to or has been filled.

Explanation: An operating system error occurred when the utility was writing to the disk or diskette. The actual return code can be found in the SQLERRD[0] field of the SQLCA.

User Response: Look at the error return code in the SQLERRD[0] field of the SQLCA. Correct the error, if possible, and resubmit the command.

SQL2412C A corrupted database page was encountered while running a database utility.

Explanation: During the utility operation a corrupted database page was encountered. The database is in an unpredictable state and the utility cannot continue.

User Response: Record the message number (SQLCODE).

If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Then contact your technical service representative with the following information:

- Problem description
- SQLCODE or message number

- SQLCA if possible
- Trace file if possible.

SQL2413N Online backup is not allowed because either logretain or userexit for roll-forward is not activated, or a backup pending condition is in effect for the database.

Explanation: Online backup cannot be performed while the database is not logging for forward recovery as forward recovery will be required at restore time. Forward recovery is placed into effect by setting either the database configuration logretain parameter or the userexit parameter, and then performing an offline backup of the database.

User Response: Execute an offline backup or reconfigure the database for roll-forward recovery and issue an offline backup so that subsequent online backups will be allowed.

SQL2414W Warning! Insufficient space on device "<device>" to contain backup control information. This media will not contain backup information.

Explanation: During the Backup operation a new media was mounted and positioned after one or more media became full. There is not enough space on this media to contain the Backup Control Information and the media should not be included during the Restore operation.

User Response: Mount a new media, or reposition the current media to provide enough space for this header, then return to the utility with the *callerac* parameter indicating if processing continues.

SQL2416W Warning! Device "<device>" is full. Please mount new media.

Explanation: The tape which the utility is using has become full.

User Response: Mount another tape and

continue the operation with the *callerac* parameter indicating if processing continues.

SQL2418N The database specified for Backup does not exist.

Explanation: The database specified in the *dbase* parameter of the Database Backup command could not be found.

User Response: Ensure that the correct database alias was specified for the Backup Database utility and that the database exists for this alias. Resubmit the command with the correct alias.

SQL2419N The target disk "<disk>" has become full.

Explanation: During the processing of a database utility, the target disk became full. The utility has stopped and the target is deleted.

User Response: Ensure enough disk space is available for the utility or direct the target to other media, such as tape.

On unix-based systems, this disk full condition may be due to exceeding the maximum file size allowed for the current userid. Use the *chuser* command to update *fsize*. A reboot may be necessary.

On non unix-based systems, this disk full condition may be due to exceeding the maximum file size allowed for the operating system. Direct the target to other media, such as tape, or use multiple targets.

SQL2420N Insufficient space on device "<device>" to contain initial backup control information.

Explanation: During the Backup operation an initial backup header needs to be created at the start of the backup image. This header must fit on one tape when backing up to tape. There is insufficient space on the tape to contain this header.

User Response: Resubmit the Backup operation and either direct the output to a new tape, or

reposition the current tape to provide enough space for this header.

SQL2421N Table space level backup is not allowed because roll-forward recovery is not enabled.

Explanation: Table space level backup cannot be performed while the database is not logging for forward recovery as forward recovery will be required at restore time. Forward recovery is placed into effect by setting either the database configuration *logretain* parameter or the *userexit* parameter, and then performing an offline backup of the database.

User Response: Execute a full database backup or reconfigure the database for roll-forward recovery and issue an offline backup so that subsequent table space level backups will be allowed.

SQL2422N The database cannot be backed up with a back-level backup API due to incompatible table space locations.

Explanation: This database contains table space(s) which have been defined in a location other than the database subdirectory. This is not compatible with the API being used.

User Response: Use the current backup API to backup the database.

SQL2423N The database cannot be backed up because some index files are missing.

Explanation: Some of the index files required by the backup are missing. These index files must be recreated prior to backing up the database.

User Response: Run the 'db2recr' program to recreate the missing index files and then resubmit the backup command.

SQL2424N **The backup could not succeed because asynchronous copy operations at DB2 Data Links Managers are not complete.**

Explanation: The AD SM or vendor supplied archive server might not be in operational state.

User Response: Ensure AD SM or the vendor supplied archive server is in an operational state and resubmit the backup command.

SQL2500 - SQL2599

SQL2501C **The database was restored but the data in the restored database was unusable.**

Explanation: The RESTORE utility either could not read data from the restored database or only a portion of the database was restored. Both cases indicate that the restored database is not usable.

The database is unusable and the RESTORE utility stops processing.

User Response: Resubmit the RESTORE command.

SQL2503N **The RESTORE was not successful. The backup used to restore the database contained the wrong database.**

Explanation: The name of the database contained on the backup disk does not match the database name specified on the RESTORE command. The RESTORE utility cannot determine the name until after the database has been restored because a previous release backup image was restored.

The utility stops processing.

User Response: If the wrong database name was used in the command, resubmit the command with the correct database name. If the input drive specified is a diskette drive, check the diskette being used. If the input drive is a hard file, verify that it is the correct hard file. Resubmit the command with the correct input drive and the correct diskettes, if applicable.

SQL2502C **An error occurred while reading the backup files. Either the disk could not physically be read or the specified disk did not contain a valid backup.**

Explanation: An operating system error occurred when the RESTORE utility was reading the diskette or disk, or the diskette or disk does not contain a backup of the database directory or does not contain the results of any previous backup.

The utility stops processing.

User Response: If the input drive specified is a diskette drive, check the diskette being used. If the input drive is a hard file, verify that it is the correct hard file. Resubmit the command with the correct input drive and the correct diskettes, if applicable.

SQL2504W **Insert the first backup diskette into drive "<drive>".**

Explanation: The RESTORE utility reads the first backup diskette to determine the path of the database directory that was backed up. If the backup media is a diskette and the diskette is not found in the specified input drive, the utility returns to the caller with this prompt. The calling program is expected to query the user and return to the utility with the user response.

The utility waits for a response from the caller.

User Response: Prompt the user for the diskette and return to the utility with the *callerac* parameter, indicating if processing continues or ends.

SQL2505W **Warning! Database "<name>" resides at "<drive>". The files for this database will be deleted.**

Explanation: If the database being restored already exists, its files will be deleted before the restore process starts. The utility returns to the caller with this warning. The caller is expected to query the user and return to the utility with the user response. Once the database is dropped, it cannot be accessed again.

The utility waits for response from the caller.

User Response: Warn the user that the database files will be deleted and return to the utility with the *callerac* parameter indicating if processing continues or ends.

SQL2506W **The database was restored, but there may be extra files in the database.**

Explanation: If changes-only backups were performed and database files were deleted between backups, the RESTORE utility adds these deleted files back into the database. The restore process could not delete the extra files either because of an I/O error or by the failure of an internal connection to an internally stopped database.

The utility ends successfully.

User Response: Either use the database as it is or attempt to restore it again. Ensure that the DB2 configuration is compatible with the restored database configuration before rerunning the RESTORE utility.

SQL2507W **The RESTORE utility is not bound to the database correctly.**

Explanation: Because the RESTORE utility was not bound to the database or the package of the utility that was bound to the database is not compatible with the installed version of DB2, all the utilities have been rebound to the database. But there is a timestamp conflict between the installed version of DB2 and the package so the utility and bind file are not compatible.

The database is restored, but the utility is not correctly bound.

User Response: Reinstall DB2 or reapply recent updates and resubmit the utility command.

SQL2508N **The Database Restore timestamp parameter "<timestamp>" is not valid.**

Explanation: The timestamp parameter must contain either NULL or a portion of a valid timestamp, the portion consisting of complete components of a timestamp.

User Response: Resubmit the Restore operation with a valid timestamp value.

SQL2509N **The database drive parameter is not valid.**

Explanation: The drive specified does not exist, or the database does not exist on this drive or is not cataloged on this drive. RESTORE should use the *db2uexit* command to perform the database restore.

The utility stops processing.

User Response: Resubmit the utility command with a valid drive.

SQL2510N **An operating system semaphore error occurred.**

Explanation: An error occurred in the wait or post semaphore.

The utility stops processing.

User Response: Stop the database manager, then restart it and resubmit the utility command.

SQL2511N **The utility encountered an error "<error>" while dropping the database.**

Explanation: The utility could not drop the database.

The utility stops processing.

User Response: Look at the error number in the

message for more information. Make changes and resubmit the command.

SQL2512N The utility encountered an error “<error>” while creating the database.

Explanation: The utility could not create the database.

The utility stops processing.

User Response: Look at the error number in the message for more information. Make changes and resubmit the command.

SQL2513N The utility encountered an error “<error>” renaming the database.

Explanation: The utility could not rename the database.

The utility stops processing.

User Response: Look at the error number in the message for more information. Make changes and resubmit the command.

SQL2514C The RESTORE was not successful. The backup used to restore the database contained a database with a release number that is not compatible with the installed version of the database manager.

Explanation: The release number of the restored database is not compatible with the release number of the installed version of the database manager.

The utility erases the restored database and stops processing.

User Response: Resubmit the command with a backup that is compatible with the release level of the database manager.

SQL2515N The user does not have the authority to run the RESTORE utility against the database.

Explanation: The user attempted to execute the RESTORE utility without SYSADM authority.

The utility stops processing.

User Response: Do not attempt to call the RESTORE utility command without appropriate authorization.

SQL2516N The RESTORE utility cannot complete because at least one database on the workstation is in use.

Explanation: In some situations, the RESTORE utility can attempt to move a database to a directory by renaming the directory associated with the database. This cannot be done if any databases are in use in any process on the workstation.

The utility stops processing.

User Response: Wait until no databases on the workstation are in use and resubmit the command.

SQL2517W The restored database was migrated to the current release.

Explanation: The database being restored was backed up using a previous release of DB2. The RESTORE utility migrated it to the format of the current release.

The user who submitted the RESTORE command is given DBADM authority for the database. If there are other users, the database administrator with DBADM authority must grant authorization privileges to the specific database users.

The RESTORE utility completes successfully.

User Response: No action is required.

SQL2518N The RESTORE was not successful. An I/O error occurred while trying to restore the database configuration file.

Explanation: The database configuration file could not be restored due to an I/O error.

The utility stops processing.

User Response: Determine whether the I/O error can be corrected. Resubmit the command.

SQL2519N **The database was restored, but the restored database was not migrated to the current release. Error “<sqlcode>” with tokens “<tokens>” is returned.**

Explanation: The backup image contains a previous release of the database. After the database files were restored, an attempt was made to migrate the database to the current release. The migration failed.

The utility finishes processing but the database was not migrated.

User Response: Look at the SQLCODE (message number) in the message for more information. Make changes and submit the Migrate command before using the database.

SQL2520W **The database was restored. The backup version of the configuration file was used.**

Explanation: When a database is restored, the current database configuration file is not always replaced with the backup version. The current database configuration file was not usable. It has been replaced by the backup version.

The utility completed successfully.

User Response: Some values in the database configuration file may be different after the restore process. Check that the configuration parameters are set to the desired values.

SQL2521W **The database was restored, but an I/O error “<code>” occurred while deleting the .BRG file.**

Explanation: The restore process ran successfully. The .BRG file was not deleted due to an I/O error.

The .BRG file is used to determine whether a Restore operation has terminated abnormally. The .BRG file resides in the local database directory of the database in question and consists of a filename equivalent to the database token and filetype of .BRG.

The utility completed successfully.

User Response: Try to delete the .BRG file. If you are unsuccessful, contact your technical service representative.

SQL2522N **More than one backup file matches the timestamp value provided for the backed up database image.**

Explanation: The backup image file filename consists of a database alias and a timestamp component. A filename is constructed from the source database alias and timestamp parameters provided in the Database Restore call. A portion of a timestamp may have been specified so that a match with more than one backup image filename was found.

User Response: Resubmit the operation by specifying a timestamp with sufficient timestamp components to result in a match to a unique backup file.

SQL2523W **Warning! Restoring to an existing database that is different from the database on the backup image, but have matching names. The target database will be overwritten by the backup version. The Roll-forward recovery logs associated with the target database will be deleted.**

Explanation: The database alias and name of the target database are the same as the backup image database alias and name. The database seeds are not the same indicating that the databases are not the same. The target database will be overwritten by the backup version. The Roll-forward recovery logs associated with the target database will be deleted. The current configuration file will be overwritten with the backup version.

User Response: Return to the utility with the *callerac* parameter indicating processing to continue or end.

SQL2524W **Warning! Restoring to an existing database which appears to be the same but the alias "<dbase>" of the existing database does not match the alias "<dbase>" of the backup image. The target database will be overwritten by the backup version.**

Explanation: The database seeds of the target database and the database image are the same, indicating these are the same databases, the database names are the same, but the database aliases are not the same. The target database will be overwritten by the backup version.

User Response: Return to the utility with the *callerac* parameter indicating processing to continue or end.

SQL2525W **Warning! Restoring to an existing database that is different from the database on the backup image, and the alias "<dbase>" of the existing database does not match the alias "<dbase>" of the backup image, but the database names are the same. The target database will be overwritten by the backup version. The Roll-forward recovery logs associated with the target database will be deleted.**

Explanation: The database aliases of the target database and database image are not the same, the database names are the same, and the database seeds are not the same, indicating these are different databases. The target database will be overwritten by the backup version. The Roll-forward recovery logs associated with the target database will be deleted. The current configuration file will be overwritten with the backup version.

User Response: Return to the utility with the *callerac* parameter indicating processing to continue or end.

SQL2526W **Warning! Restoring to an existing database that is the same as the backup image database, and the alias names are the same, but the database name "<dbname>" of the existing database does not match the database name "<dbname>" of the backup image. The target database will be overwritten by the backup version.**

Explanation: The database aliases of the target database and database image are the same, and the database seeds are the same, however the database names are different. These are the same databases. The target database will be overwritten by the backup version.

User Response: Return to the utility with the *callerac* parameter indicating processing to continue or end.

SQL2527W **Warning! Restoring to an existing database that is different from the backup image database, and the database name "<dbname>" of the existing database does not match the database name "<dbname>" of the backup image, but the alias names are the same. The target database will be overwritten by the backup version. The Roll-forward recovery logs associated with the target database will be deleted.**

Explanation: The database aliases of the target database and database image are the same, the database names are not the same, and the database seeds are not the same, indicating these are different databases. The target database will be overwritten by the backup version. The Roll-forward recovery logs associated with the target database will be deleted. The current configuration file will be overwritten with the backup version.

User Response: Return to the utility with the *callerac* parameter indicating processing to continue or end.

SQL2528W **Warning! Restoring to an existing database that is the same as the backup image database, but the alias name "<dbase>" of the existing database does not match the alias "<dbase>" of backup image, and the database name "<dbname>" of the existing database does not match the database name "<dbname>" of the backup image. The target database will be overwritten by the backup version.**

Explanation: The database aliases of the target database and database image are not the same, the database names are not the same, and the database seeds are the same, indicating these are the same databases. The current database will be overwritten by the backup version.

User Response: Return to the utility with the *callerac* parameter indicating processing to continue or end.

SQL2529W **Warning! Restoring to an existing database that is different from the backup image database, and the alias name "<dbase>" of the existing database does not match the alias name "<dbase>" of the backup image, and the database name "<dbname>" of the existing database does not match the database name "<dbname>" of the backup image. The target database will be overwritten by the backup version. The Roll-forward recovery logs associated with the target database will be deleted.**

Explanation: The database aliases of the target and database image are not the same, the database names are not the same, and the database seeds are not the same, indicating these are different databases. The current database will be overwritten by the backup version. The Roll-forward recovery logs associated with the target database will be deleted. The current

configuration file will be overwritten with the backup version.

User Response: Return to the utility with the *callerac* parameter indicating processing to continue or end.

SQL2530N **The backup image is corrupted. Restore of database from this backup image is not possible.**

Explanation: The backup image being restored is corrupted making the database image non-restorable.

User Response: Discard the backup image as it is unusable. Restore from a previous backup if possible.

SQL2531N **The backup image selected for restore is not a valid database backup image.**

Explanation: The file selected for restore is not a valid backup image. Either the file selected has become corrupted or a backup tape is not at the correct position.

User Response: Determine the location of the correct backup image file, and resubmit the Restore command.

SQL2532N **The backup file contains the backup image of database "<dbalias>" taken at timestamp "<timestamp>". This is not the backup image requested.**

Explanation: The file selected for restore does not contain the requested backup image. The image is for a different database than that requested.

User Response: If using tape, ensure that the correct tape is mounted. If a restore or load is being done from disk, then the file must have been renamed. Rename the file to the correct filename with a match on database name and timestamp. Resubmit the command after taking the appropriate action.

SQL2533W **Warning! The backup file on device "<device>" contains the image of database "<database>" taken at timestamp "<timestamp>". This is not the backup image requested.**

Explanation: The backup image read from the tape position contains a media header that does not match the header of the image of the first file of the backup file sequence.

User Response: Ensure that the tape is positioned at the correct backup, then return to the utility with the *callerac* parameter indicating if processing continues.

SQL2534W **Warning! The media on device "<device>" is not positioned at a valid backup media header.**

Explanation: The data read from the tape position does not contain a valid backup media header.

User Response: Ensure that the tape is positioned at the correct position, then return to the utility with the *callerac* parameter indicating if processing continues.

SQL2535W **Warning! End of media on device "<device>" has been reached. Please mount the next source media.**

Explanation: The end of tape has been reached and there is still more data to be processed. The remainder of the backup or load source exists on another tape or on several more tapes.

User Response: Mount the next tape in sequence that contains the source image and resubmit the Restore or Load command with the *callerac* parameter set to continue or end.

SQL2536W **Warning! The backup image on device <device> contains an incorrect sequence number. Sequence number <number> is expected.**

Explanation: The tape is positioned on a backup image file that is out of sequence. The tape containing the backup image must be positioned to the file of sequence number "<sequence>" of the backup image.

User Response: Position the tape containing the backup image to the correct file and resubmit the Restore command with the *callerac* parameter set to continue or end.

SQL2537N **Roll-forward is required following the Restore.**

Explanation: SQLUD_NOROLLFWD was specified for the *rst_type* parameter of the Database Restore utility, indicating that a roll-forward is not required to make the restored database usable. The database to be restored was backed up in online mode and a roll-forward operation is necessary to make the database usable.

User Response: Resubmit the Database Restore command without specifying SQLUD_NOROLLFWD for the *rst_type* parameter.

SQL2538N **Unexpected End of File of Backup Image reached on media "<media>".**

Explanation: While reading and restoring from the Backup Image file, an end of file condition was reached unexpectedly. The backup image is unusable and the restore operation terminates.

User Response: Resubmit the Database Restore command with a usable backup image file.

SQL2539W **Warning! Restoring to an existing database that is the same as the backup image database. The database files will be deleted.**

Explanation: The database aliases, names and seeds of the target database and database image are the same, indicating these are the same databases. The current database will be overwritten by the backup version.

User Response: Return to the utility with the *callerac* parameter indicating processing to continue or end.

SQL2540W **Restore is successful, however a warning "<warn>" was encountered during Database Restore while processing in No Interrupt mode.**

Explanation: The Database Restore utility was invoked in No Interrupt mode, i.e. SQLUB_NO_INTERRUPT or SQLUD_NO_INTERRUPT was specified. During the processing a warning was encountered but not returned at the time it was encountered. The Restore has completed successfully and the warning message found is shown at the completion in this message.

User Response: Ensure that the action that caused this warning to be generated has not resulted in a condition not wanted.

SQL2541W **The utility was successful, however the file containing the backup image could not be closed.**

Explanation: The utility was successful, but the file containing the backup image could not be closed.

User Response: Attempt to close the file containing the backup image.

SQL2542N **No match for a database image file was found based on the source database alias and timestamp provided.**

Explanation: The backup image file filename consists of a database alias and a timestamp component. A filename is constructed from the source database alias and timestamp parameters provided in the Database Restore call. No filename existed in the source directory that matched based on the source database alias and timestamp provided.

User Response: Ensure that the database backup image resides on the media source. Resubmit the operation by specifying a correct timestamp to result in a match.

SQL2543N **The target directory specified for the database is not valid.**

Explanation: The application calling the Restore utility has supplied a target directory for the new database to be created. Either this directory does not exist, or is not a valid directory for database creation. An invalid directory for database creation would be a directory of greater than 255 characters in length.

User Response: Reissue the Backup or Restore command with a valid target directory.

SQL2544N **The directory where the database is being restored has become full.**

Explanation: While the database was being restored the directory to which it was being restored had become full. The database being restored is unusable. The Restore terminates and if the database being restored is a new database, then it is deleted.

User Response: Free up sufficient space on the directory for the database, and reissue the Restore, or if restoring to a new database supply a directory with sufficient space to contain the database.

SQL2545W **Warning! The backup image on the ADSM server is currently stored on mountable media. The time required to make it available is unknown.**

Explanation: The backup image is not immediately accessible by the ADSM server. The restore process can continue and make the request to the server to retrieve the data. The time required is unknown.

User Response: Return to the utility with the callerac parameter indicating processing to continue or end.

SQL2546N **The image on media "<media>" is not the first in sequence from the backup or copy.**

Explanation: During restore or load recovery, the first image from the backup or copy must be processed first. The image found on the media is not the first in sequence.

The utility waits for a response to continue.

User Response: Mount the media with the correct backup or copy image and return to the utility with the correct caller action parameter to indicate if processing should continue or terminate.

SQL2547N **The database was not restored because the backup image is from a previous release and was an online backup.**

Explanation: The physical log file formats have changed between these releases, making rollforward impossible.

User Response: Restore the database using the version of DB2 used to create the database and rollforward to the end of logs. Take an off-line full database backup at this time. This new backup image will be restorable on the new release of DB2.

SQL2548N **Database codepage "<codepage1>" indicated in the backup image differs from that of the current on-disk database codepage "<codepage2>". The Restore operation has failed.**

Explanation: The database contained in the backup image contains data stored in a codepage different from that of the database into which the data is being restored.

This problem can be caused by one of the following situations:

- 1 The database you are restoring into has a different codepage than that of the database in the backup image.
- 2 The user is restoring into a new database from a session with a different codepage than the backup.
- 3 The backup image is corrupt, and contains invalid character set information.

User Response:

- 1 If restoring over an existing database, make sure that the codepage of the existing database matches that of the backup image.
- 2 If restoring to a new database, make sure that the codepage of the session from which the restore command was issued is the same as that of the backup image.
- 3 Contact IBM Service.

SQL2549N **The database was not restored because either all of the table spaces in the backup image are inaccessible, or one or more table space names in list of table space names to restore are invalid.**

Explanation: The containers which were used by the table spaces in the backup image are not available, are already in use, or one or more table space names specified in the list on the restore command do not exist in the backup image.

User Response: Use redirected restore to redefine the containers for the table spaces in this backup image, or specify a list of valid table space names to restore.

SQL2550N Database backed up on node "<node1>" cannot be restored to node "<node2>".

Explanation: The backup image used for the restore is a backup of a database from a different node. You can only restore a backup to the same node.

User Response: Ensure that you have the correct backup image for the node then issue the request again.

SQL2551N Database with catalog node "<node1>" cannot be restored to a database with catalog node "<node2>".

Explanation: The catalog node can exist on only one node and there is a discrepancy between the backup image and the node being restored to. This can occur in the following cases:

1. The backup image specified catalog node "<node1>" and the restore was attempted to an existing database whose catalog node is node "<node2>"
2. The restore was attempted to a new database and the catalog node has not been restored first.

User Response: Verify that the correct backup image is being restored.

If you are restoring to an existing database and want to change the catalog node to "<node2>", the existing database must be dropped first.

If you are restoring to a new database, restore the catalog node "<node1>" first.

SQL2552N Invalid report file name specified in the restore command.

Explanation: The length of the report file name exceeded the allowed limit of 255.

User Response: Specify a report file name

whose length is within the allowed limit and resubmit the restore command.

SQL2553I The RECONCILE utility completed successfully.

Explanation: The utility completed successfully.

User Response: No action necessary.

SQL2554N The RECONCILE utility failed with reason code "<reason-code>". Possible problem with "<component>".

Explanation: Possible Reason codes:

1. Unknown connection to a DB2 Data Links Manager.
2. Table/DATALINK column not defined on the DB2 Data Links Manager.
3. DB2 Data Links Manager may be down.
4. I/O problems.

User Response: Possible Solutions:

1. Make sure that the DB2 Data Links Manager is up and the datalink.cfg file has the correct information. Try connecting to the database and make a sure a corresponding connection has been established on the DB2 Data Links Manager.
2. The table does not seem to exist on the DB2 Data Links Manager. Nothing to reconcile.
3. DB2 Data Links Manager may be down. Try starting the DB2 Data Links Manager.
4. Ensure you have file permissions and enough space for the report file. A fully qualified path is required for the DLREPORT parameter.

SQL2560N The target database is not identical to the source database for a restore from a table space level backup.

Explanation: For a restore from a table space level backup, the target database must be either the original database from which the backup is taken or a new database.

User Response: Specify the correct target

database and resubmit the utility command.

SQL2561W **Warning! Restoring from a table space level backup to a database which does not exist. A database with the same attributes in the backup will be created.**

Explanation: For a restore from a table space level backup, the target database must have the same attributes (database name, alias and seed) as the source database. If the database does not already exist, it will be created.

User Response: Return to the utility with the *callerac* parameter indicating processing to continue or end.

SQL2562N **Table space level restore from a full database backup is not allowed.**

Explanation: For a restore from a full database level backup, the restore type cannot be table space level.

User Response: Specify a correct restore type or use a correct backup image and resubmit the utility command.

SQL2563W **The restore process has completed successfully, but one or more table spaces from the backup were not restored.**

Explanation: The restore process has completed successfully. One or more table spaces that are in the backup were not restored for one of the following reasons:

- an error was encountered while accessing the containers of the table spaces. If the table spaces have been dropped since the backup was taken, no further action is necessary.
- the restore command was invoked with a list of table spaces so that only a subset of the table spaces in the backup were restored. No further action is necessary.

User Response: If this message is not due to a subset restore, use the query table space function to check the states of the table spaces. If a table

space is in the "storage definition pending" state, the storage definition for the table space must be corrected for restore to complete successfully. See the Administration Guide for details about recovering the table space.

SQL2564N **The pagesize of one or more table spaces in the backup image do not match that of the corresponding destination table spaces.**

Explanation: The target table space pagesize must match that of the table space pagesize in the backup image. Restoring to a table space of a different pagesize is not supported. The default pagesize is 4K.

User Response: Ensure that the table space being restored into has the same pagesize as the table space in the backup image.

SQL2565N **The option specified for RESTORE is not allowed with the backup image provided.**

Explanation: The database contained in the backup image is an existing database and does not match the database to be restored. The option you have specified for restore requires that the database being restored to is new or the same as in the backup image.

The utility stops processing.

User Response: Resubmit the command with the correct database name.

SQL2566W **The restore process has completed successfully, but one or more table spaces have their tables put in DRP/DRNP state. Check the db2diag.log file for details.**

Explanation: One or more table spaces have tables in DATALINK Reconcile Pending (DRP) or DATALINK Reconcile Not Possible (DRNP) because of one of the following reasons:

- Restoring to a database that has a different database name, alias, hostname, or instance than the backup image. If no rollforward

follows the restore, any tables with DATALINK columns are placed in DRNP state.

- Restore is done specifying the WITHOUT DATALINK option and no rollforward follows the restore. Any tables with DATALINK columns are placed in DRP state.
- Restoring from a backup image that has become unusable. If no rollforward follows the restore, any tables with DATALINK columns are placed in DRNP state.
- DATALINK column information does not exist at the DB2 Data Links Manager(s). Affected tables are placed in DRNP state.

- Restore involving fast reconciliation failed while trying to relink files at the DB2 Data Links Manager(s). Affected tables are placed in DRNP state.

User Response: Look in the db2diag.log file to find out what tables are put in DRP/DRNP state. See the Administration Guide for information on reconciling tables that are in DRP/DRNP state.

SQL2600 - SQL2699

SQL2600W **The input parameter pointer to the authorization block is invalid or the block's size is incorrect.**

Explanation: The pointer to the authorization structure parameter is NULL, the pointer to the authorization structure points to an area that is smaller than the length indicated in the structure length field, or the authorization structure length field is not set to the correct value.

The command cannot be processed.

User Response: Correct the value of the input parameter and resubmit the command.

SQL2650N **An invalid parameter was passed to the asynchronous read log API. Reason Code = "<reason-code>".**

Explanation: An invalid parameter was passed to the asynchronous read log API. The possible reason codes are as follows:

- 01** Invalid action specified.
- 02** The starting log sequence number is greater than or equal to the current database active log sequence number.
- 03** The log sequence number range bounded by the starting and ending log sequence numbers is not large enough to span a log record.

- 04** The starting log sequence number does not represent the start of an actual log record.
- 05** The starting log sequence number's location could not be determined.
- 06** The ending log sequence number is less than or equal to the starting log sequence number.
- 07** The buffer is not valid for the indicated size.
- 08** The buffer is not of sufficient size to store a log record.
- 09** A pointer is not valid.

User Response: For reason code 01, ensure that the action is either SQLU_RLOG_QUERY, SQLU_RLOG_READ, or SQLU_RLOG_READ_SINGLE.

For reason code 02, ensure that the starting log sequence number is less than the current active log sequence number returned in the read log information structure.

For reason code 03, ensure that the ending log sequence number is sufficiently larger than the starting log sequence number.

For reason code 04, ensure that the starting log sequence number is either the initial log sequence number or one byte larger than the last read log sequence number returned in the read

log information structure.

For reason code 05, ensure that the starting log sequence number resides in a log extent in the database log file path.

For reason code 06, ensure that the ending log sequence number is greater than the starting log sequence number.

For reason code 07, ensure that the buffer has been allocated and is of the size indicated by the log buffer size parameter.

For reason code 08, increase the size of the allocated buffer.

For reason code 09, ensure that memory has been correctly allocated and the pointers properly initialized.

SQL2651N The log records associated with the database can not be asynchronously read.

Explanation: The asynchronous read log API was used against a connected database which does not have LOG RETAIN or USER EXITS ON. Only databases which are forward recoverable may have their associated logs read.

User Response: Update the database configuration for the database, identified to the asynchronous read log API, turning LOG RETAIN and/or USER EXITS ON.

SQL2652N Insufficient memory to run the asynchronous log reader.

Explanation: The allocation of the internal buffers used by the asynchronous read log API has failed.

User Response: Increase the amount of available memory available to the process (increase real or virtual memory or remove unnecessary background processes) or decrease the log sequence number range provided to the asynchronous read log API.

SQL2653W A Restore, Forward or Crash Recovery may have reused log sequence number ranges. Reason code "<reason-code>".

Explanation: A Restore, Forward or Crash Recovery may have reused log sequence number ranges. The possible reason codes are as follows:

- 01 - Restore has taken place.
- 02 - Forward Recovery (ROLLFORWARD) has taken place.
- 03 - Crash Recovery has taken place.

User Response: No action is required.

SQL2654W The database log has been asynchronously read to the end of the current active log.

Explanation: All log records in the database active log have been read by the asynchronous log reader.

User Response: No action is required.

SQL2655N The Asynchronous Log Reader encountered log file "<name>" which is not associated with the database being asynchronously read.

Explanation: The Asynchronous Log Reader attempted to read log records from the specified log file. The specified log file is not associated with the database being asynchronously read.

User Response: Remove this log file from the database log directory. Move the correct log file into the database log directory and resubmit the call to the Asynchronous Read Log API.

SQL2656N The Asynchronous Log Reader has encountered log file "<name>" which cannot be read.

Explanation: The Asynchronous Log Reader attempted to read log records from the specified log file. The specified log file has been corrupted and cannot be read.

User Response: Increase the start read log

sequence and resubmit the call to the Asynchronous Read Log API to start reading after the specified log file.

SQL2657N The Asynchronous Log Reader requires log file "<name>" which does not currently reside in the database log directory.

Explanation: The Asynchronous Log Reader requires log records from the specified log file.

SQL2700 - SQL2799

SQL2701N Invalid command line option for "<progname>". Reason code: "<reason-code>"

Explanation: Command line option for the data splitting utility is not valid. Valid options are:

- -c "Configuration file name"
- -d "Distribution file name"
- -i "Input file name"
- -o "Output file prefix"
- -h Usage message

User Response: Given for each reason code:

- 1 There is an option not started with '-' sign.
- 2 Each option except 'h' (or 'H') must be followed by an argument.
- 3 There is an invalid option.
- 4 The argument of an option is too long (maximum 80 characters).

SQL2702N Failed to open the configuration file "<config-file>".

Explanation: The utility cannot read the configuration file "<config-file>".

User Response: Please ensure the configuration file exists and is readable.

The specified log file does not currently reside in the database log directory.

User Response: Move the specified log file into the database log directory of the database being asynchronously read. Resubmit the call to the Asynchronous Read Log API.

SQL2703N Failed to open the log file "<log-file>".

Explanation: The utility cannot open the log file "<log-file>" for writing or appending.

User Response: Please ensure the log file exists and is writable.

SQL2704N Failed to open the input data file "<input-data-file>".

Explanation: The utility cannot read the input data file "<input-data-file>".

User Response: Please ensure the input data file exists and is readable.

SQL2705N Failed to open the input partitioning map file "<in-map-file>".

Explanation: The utility cannot read the input partitioning map file "<in-map-file>".

User Response: Please ensure the input partitioning map file exists and is readable.

SQL2706N Failed to open the output partitioning map file "<out-map-file>".

Explanation: The utility cannot open the output partitioning map file "<out-map-file>" for writing.

User Response: Please ensure the output partitioning map file is writable.

SQL2707N Failed to open the distribution file "<dist-file>".

Explanation: The utility cannot open the distribution file "<dist-file>" for writing.

User Response: Please ensure the distribution file is writable.

SQL2708N Failed to open the output data file "<out-data-file>".

Explanation: The utility cannot open the output data file "<out-data-file>" for writing.

User Response: Please ensure the output data file is writable.

SQL2709N Syntax error at line "<line>" of the configuration file.

Explanation: There is a syntax error in the specification of a keyword and its argument.

User Response: A keyword and its argument must be delimited by an '=' sign.

SQL2710N Invalid keyword at line "<line>" of the configuration file.

Explanation: There is an undefined keyword in the configuration file.

User Response: Valid keywords (case insensitive) are:

- DESCRIPTION, CDELIMITER, SDELIMITER, NODES, TRACE, MSG_LEVEL, RUNTYPE, OUTPUTNODES, NODES, OUTPUTNODES, OUTPUTTYPE, PARTITION, MAPFILI, INFILE, MAPFILO, OUTFILE, DISTFILE, LOGFILE, NEWLINE, HEADER, FILETYPE

SQL2711N Invalid column delimiter (CDELIMITER) at line "<line>" of the configuration file.

Explanation: The column delimiter (CDELIMITER) specified in the configuration file is not valid.

User Response: Make sure the column delimiter (CDELIMITER) is a single byte character.

SQL2712N Invalid string delimiter (SDELIMITER) at line "<line>" of the configuration file.

Explanation: The string delimiter (SDELIMITER) specified in the configuration file is not valid.

User Response: The string delimiter (SDELIMITER) cannot be a period.

SQL2713N Invalid run type (RUNTYPE) at line "<line>" of the configuration file.

Explanation: The value for run type (RUNTYPE) specified in the configuration file is not valid.

User Response: Valid run type (RUNTYPE) can be either PARTITION or ANALYZE (case insensitive).

SQL2714N Invalid message level (MSG_LEVEL) at line "<line>" of the configuration file.

Explanation: The value for message level (MSG_LEVEL) specified in the configuration file is not valid.

User Response: Valid message level (MSG_LEVEL) can be either CHECK or NOCHECK (case insensitive).

SQL2715N Invalid check level (CHECK_LEVEL) at line "<line>" of the configuration file.

Explanation: The value for check level (CHECK_LEVEL) specified in the configuration file is not valid.

User Response: Valid check level (CHECK_LEVEL) can be either CHECK or NOCHECK (case insensitive).

SQL2716N Invalid record length (RECLEN) "`<reclen>`" at line "`<line>`" of the configuration file.

Explanation: The value for record length (RECLEN) "`<reclen>`" specified in the configuration file is not valid.

User Response: The record length (RECLEN) must be between 1 and 32767.

SQL2717N Invalid node specification (NODES) at line "`<line>`" of the configuration file. Reason code "`<reason-code>`".

Explanation: The node specification (NODES) in the configuration file is not valid.

User Response: Given for each reason code:

- 1** NODES has already been defined.
 - 2** The format is not valid. A valid example: NODES=(0,30,2,3,10-15,57)
 - 3** Each entry must be numeric data between 0 and 999.
 - 4** Range specification must be from a lower number to a higher number.
-

SQL2718N Invalid output node specification (OUTPUTNODES) at line "`<line>`" of the configuration file. Reason code "`<reason-code>`".

Explanation: The output node specification (OUTPUTNODES) in the configuration file is not valid.

User Response: Given for each reason code:

- 1** OUTPUTNODES has already been defined.
 - 2** The format is not valid. A valid example: OUTPUTNODES=(0,30,2,3,10-15,57)
 - 3** Each entry must be numeric data between 0 and 999.
 - 4** Range specification must be from a lower number to a higher number.
-

SQL2719N Invalid output type (OUTPUTTYPE) at line "`<line>`" of the configuration file.

Explanation: The output type (OUTPUTTYPE) in the configuration file is not valid.

User Response: Valid output types (OUTPUTTYPE) are W (write) or S (stdin), case insensitive.

SQL2720N Number of partition keys exceeded the maximum "256". This error was detected at line "`<line>`" of the configuration file.

Explanation: The number of partitioning keys defined cannot exceed the maximum limit: 256.

User Response: Remove one or more partitioning keys defined in the configuration file.

SQL2721N Invalid partitioning key specification (PARTITION) at line "`<line>`" of the configuration file. Reason code "`<reason-code>`".

Explanation: A partitioning key specification (PARTITION) in the configuration file is not valid. Valid format:

PARTITION=<key name>,<position>,<offset>,<len>,<nullable>,<datatype>

If a delimited-data file, <position> must be defined; otherwise, <offset> and <len> must be defined.

User Response: Given for each reason code:

- 1** Fields must be delimited by the ',' character.
- 2** <position>, <offset> and <len> must be positive integers.
- 3** <nullable> must take a value from {N,NN,NNWD}.
- 4** Valid <data type> includes: SMALLINT, INTEGER, CHARACTER, VARCHAR, FOR_BIT_CHAR, FOR_BIT_VARCHAR, FLOAT (for binary numerics only),

- DOUBLE (for binary numerics only),
DATE, TIME, TIMESTAMP,
DECIMAL(x,y).
- 5 For DECIMAL data type, precision (x)
and scale (y) must be specified and they
must be positive integers.
- 6 For CHARACTER or VARCHAR data
type, <len> must be specified."

**SQL2722N Invalid log file specification
(LOGFILE) at line "<line>" of the
configuration file.**

Explanation: The log file specification
(LOGFILE) in the configuration file is not valid.

User Response: The log file specification
(LOGFILE) must be in one of the following two
formats:

- LOGFILE=<log file name>,<log type>
- LOGFILE=<log file name>

<log type> can only be W (write) or A (append),
case insensitive.

**SQL2723N Invalid trace specification
(TRACE) at line "<line>" of the
configuration file.**

Explanation: The trace specification (TRACE) in
the configuration file is not valid.

User Response: The trace specification (TRACE)
must be a positive integer between 0 and 65536
(exclusive).

SQL2724N Invalid node list specification.

Explanation: The node list specification is not
valid.

User Response: One and only one of the two
parameters: NODES and MAPFIL1 (input
partition map) must be specified in the
configuration file.

**SQL2725N Filename for output partition map
was not specified.**

Explanation: If run type is ANALYZE, a
filename for the output partition map must be
defined.

User Response: Specify a filename for the
output partition map.

**SQL2726N There is no partitioning key
defined.**

Explanation: At least one partitioning key must
be defined.

User Response: Specify one or more
partitioning keys.

**SQL2727N Partition key "<key-name>"
exceeds the record length
"<reclen>".**

Explanation: For non-delimited data, starting
position for a key must be less than the record
length.

User Response: Make sure starting position for
a key is less than the record length.

**SQL2728N Output node "<out-node>" is not
defined in the node list.**

Explanation: Output node list must be a subset
of the node list, which is derived from NODES
or the input partition map file.

User Response: Make sure all output nodes are
defined in the node list.

SQL2729N Invalid input partition map.

Explanation: There is at least one error in the
input partition map file.

User Response: The input partition map must
contain no less than 4096 data entries, and each
data entry must be a number between 0 and 999.

SQL2730N Error while writing header to output data file "<out-data-file>".

Explanation: An I/O error occurred while writing the header to an output data file.

User Response: Check your operating system documentation for file I/O errors and ensure that there is sufficient space on the output device.

SQL2731N Error while reading from input data file "<filename>".

Explanation: An I/O error occurred while reading from input data file.

User Response: Check your operating system documentation for file I/O errors.

SQL2732N Line "<line>" of the input data file contains binary data.

Explanation: Binary data is not permitted on the host versions of this utility program.

User Response: Check your input data file.

SQL2733N Run type (RUNTYPE) was not defined in the configuration file.

Explanation: The run type (RUNTYPE) must be defined as either PARTITION or ANALYZE.

User Response: Please specify run type (RUNTYPE) in the configuration file.

SQL2734N Invalid specification for parameter 32KLIMIT at line "<line>" of the configuration file.

Explanation: The specification for parameter 32KLIMIT in the configuration file is not valid.

User Response: Parameter 32KLIMIT can be either YES or NO, case insensitive.

SQL2735W The record "<rec-no>" of the input data file was discarded because it was an empty record.

Explanation: The record "<rec-no>" of the input data is discarded because it contains nothing but spaces.

User Response: Check record "<rec-no>" in the input data file.

SQL2736N sqlugrpi_api returned an error when processing record at line "<line>" of the input data file.

Explanation: Partitioning key fields contain invalid data.

User Response: Check the input data file at line "<line>".

SQL2737N Failed to write output data file for output node "<out-node>" when processing record at line "<line>" of input data file.

Explanation: An I/O error occurred while writing a record to the output data file for node "<out-node>".

User Response: Check your operating system documentation for file I/O errors and ensure that there is sufficient space on the output device.

SQL2738W Record at line "<line>" of input data file has been truncated when writing to the output data file for node "<out-node>". Expected writing length is "<reclen>" while actual writing length is "<real-len>".

Explanation: Expected writing length (RECLLEN) does not match the actual writing length.

User Response: Adjust record length value defined in the configuration file.

SQL2739N The record length was not specified for a binary numerical data file.

Explanation: If a binary numerical input data file, the record length has to be defined.

User Response: Please specify the record length in your configuration file.

SQL2740N Float data type is not allowed in a non-binary input data file.

Explanation: Float data type is only supported when the file type is BIN (binary).

User Response: Make sure data types and the type of input data file match.

SQL2741N Invalid file type specification at line "<line>" of the configuration file.

Explanation: The file type specification (FILETYPE) in the configuration file is not valid.

User Response: Valid values for the file type parameter are as follows:

- ASC (positional ascii data file)
- DEL (delimited ascii data file)
- BIN (ASC file with all numeric data in binary format)
- PACK (ASC file with all decimal data in packed decimal format)
- IMPLIEDDECIMAL (DEL file with decimal data in implied decimal format).

All the values are case insensitive.

SQL2742N The length of partition key "<partition-key>" does not match its precision.

Explanation: In a binary input data file, the length of a partition key with decimal data type must conform to the equation:
 $LENGTH = (PRECISION + 2) / 2$ (integer division), because it is a packed decimal.

User Response: Match the length of a

decimal-typed partition key with its precision if the input data file is a binary data file.

SQL2743N The length of partition key "<partition-key>" does not match its data type.

Explanation: In a binary input data file, the length of a partition key with integer, small integer, float, and double data type must be a predefined constant, i.e. 4 for integer, 2 for small integer, 4 for float, and 8 for double.

User Response: Check partition key definitions in the configuration file.

SQL2744N Illegal file name specification for "<file>" at line "<line>" of the configuration file.

Explanation: The maximum length for a file name is 80 bytes.

User Response: Check the configuration file.

SQL2745N Invalid NEWLINE flag at line "<line>" of the configuration file.

Explanation: The NEWLINE flag must be either YES or NO, and if not given, it is NO.

User Response: Check the specification of NEWLINE flag in the configuration file.

SQL2746N An incomplete record was found while reading record "<record-number>" from the input data file.

Explanation: If a fixed-length positional ASC file or a binary numerical data file, each record has to be exactly the same length as the value of the RECLEN parameter in the configuration file.

User Response: Make sure the input data file is complete.

SQL2747N A record was too long while reading record "<rec-no>" from the input data file.

Explanation: For a positional ASC input data file or a delimited data file with parameter 32KLIMIT on, the maximum record length can not exceed the 32k (bytes) limit.

User Response: Check your input data file and make sure the record length is less than 32k bytes.

SQL2748N Record "<record-number>" has a length of "<length>" bytes, which is too short to hold the partitioning key "<key>".

Explanation: For a positional ASC input data file or a binary numerical data file, each record has to be long enough to hold all partitioning keys.

User Response: Check the record length of your input data file.

SQL2749N Partitioning key "<key-no>" of record "<rec-no>" was not in the first 32k bytes of the record.

Explanation: If a record is greater than 32k bytes long in a delimited data file, all partitioning keys of each record have to be within the first 32k bytes of the record.

User Response: Check record "<rec-no>" in the input data file.

SQL2750N The length of line "<line-number>" in the configuration was more than 255 bytes.

Explanation: The maximum length of a line in the configuration file must be less than 255 bytes.

User Response: Check your configuration file and make sure all lines are less than 255 bytes.

SQL2751N The actual length "<actual-reclen>" of record "<rec-no>" did not match the expected length "<exp-reclen>".

Explanation: If new line checking is required for a fixed length ASC data file (NEWLINE parameter is YES and RECLen parameter is not zero), the actual length of each record has to match the expected record.

User Response: Check record "<rec-no>" in the input data file.

SQL2752N Invalid codepage specification "<codepage>" at line "<line>" of the configuration file.

Explanation: The codepage specification is not valid. It must be a positive integer.

User Response: Correct the codepage specification in the configuration file.

SQL2753N Failed to get the country code and codepage for the application. Return code from function "<function-name>" is "<rc>".

Explanation: The program failed to get the country code and codepage of its environment.

User Response: Check with your database system administrator.

SQL2754N Codepage "<source-cp>" cannot be converted to codepage "<target-cp>".

Explanation: The database does not support codepage conversion between those two codepages.

User Response: Please ensure your data is in a convertible codepage.

SQL2755N Decimal data can not be in both IMPLIEDDECIMAL and PACKEDDECIMAL format.

Explanation: Valid format of decimal data is SQL_PACKEDDECIMAL_FORMAT,

SQL_CHARSTRING_FORMAT, or SQL_IMPLIEDDECIMAL_FORMAT, mutually exclusive.

User Response: Verify the format of your decimal data, correct the format value, and resubmit the command.

SQL2761N Only one of table name or nodegroup can be specified.

Explanation: Specify either the table name or the nodegroup name, but not both.

User Response: Check your command line options.

SQL2762N The utility failed to find the database installation path.

Explanation: The utility needs to know where the database manager is installed, then it can find its bind file.

User Response: Make sure your database manager is properly installed.

SQL2763N The table "<tbl-name>" was not found.

Explanation: The table "<tbl-name>" cannot be located in sysibm.systables.

User Response: Make sure the table exists in the database.

SQL2764N The nodegroup "<nodegroup>" was not found.

Explanation: The nodegroup "<nodegroup>" cannot be located in sysibm.sysnodegroupdef.

SQL2800 - SQL2899

SQL2800N CREATE, DROP, or CHANGE NODE failed. Reason code "<reason-code>".

Explanation: The utility failed to add, drop, or change the node because the input parameters specified are invalid as indicated by the following reason codes:

User Response: Make sure the nodegroup exists in the database.

SQL2765W The utility failed to open output partition map file "<out-map-file>".

Explanation: The utility cannot open the output partition map file for writing. It will write the output to stdout.

User Response: Check your file access permissions.

SQL2766N The partition map is not of the correct size "<map-size>".

Explanation: The size of the partition map is not correct. Data is corrupted in the database.

User Response: Contact the Database Administrator to resolve the problem.

SQL2767N A command line option is not valid.

Explanation: There is an invalid command line option.

User Response: Make sure to specify the correct command line options.

- (1) The node number is not specified
- (2) The TCP/IP host name is not specified
- (3) The computer name is not specified
- (4) The node number is invalid.
- (5) The port number is invalid.
- (6) The TCP/IP host name is invalid.

- (7) The port value is not defined for your instance in the services file.
- (8) The port value is not in the valid range defined for your instance in the services file.
- (9) The node number is not unique.
- (10) The host name/port couple is not unique.
- (11) The host name value has no corresponding port 0.

User Response: The action corresponding to the reason code is:

- (1) Ensure that the node number is specified
- (2) Ensure that the TCP/IP host name is specified
- (3) Ensure that the computer name is specified
- (4) Ensure that the node number is between 0 and 999.
- (5) Ensure that the port number is between 0 and 999.
- (6) Ensure that the host name specified is both defined on the system and is operational
- (7) Ensure that the TCP/IP services on your system contains an entry for your instance
- (8) Ensure that you only use port values that are specified in the services file on your system
- (9) Ensure that the node number specified is unique.
- (10) Ensure that the new host name/port is not already defined in the db2nodes.cfg file.
- (11) Ensure that the port value 0 has been defined for host name specified.

SQL2801N The syntax of the DB2NCRT command is incorrect.

Explanation: The DB2NCRT utility creates a new node in a partitioned database system.

```
DB2NCRT /n:node /u:username,password
        [/i:instance]
        [/h:host]
        [/m:machine]
        [/p:port]
        [/o:instance owning machine]
        [/g:netname]
```

The command arguments are:

- /n Specify the node number
- /u to specify the account name and password for the DB2 service.

The command options are:

- /i Specify the instance if different from the default/current instance
- /h Specify the TCP/IP host name if the host name is not the machine default TCP/IP host name
- /m Specify the workstation name if the node is created on a remote machine
- /p Specify the logical port number if this is not the first node on the machine
- /o Specify the computer name of the instance owning machine when creating the first node on a machine.
- /g Specify the network name or IP Address.

User Response: Enter the command again using valid parameters.

SQL2802N The syntax of the DB2NCHG command is incorrect.

Explanation: The DB2NCHG utility changes or updates node configuration for a given node in a partitioned database system.

```
DB2NCHG /n:node [/h:host]
              [/m:machine]
              [/p:port]
              [/i:instance]
              [/u:username,password]
              [/g:netname]
```

The command options are:

- /h Change the TCP/IP host name
- /m Change the workstation name
- /p Change the logical port number
- /i Specify the instance if different from the default/current instance
- /u Change the Logon Account name and password
- /g Specify the network name or IP Address

User Response: Issue the DB2NCHG command with one of the valid command options.

SQL2803N The syntax of the DB2NDROP command is incorrect.

Explanation: The DB2NDROP utility drops a node from a partitioned system.

DB2NDROP /n:node [/i:instance]

The command options are:

- /i Specify the instance if different from the default/current instance

User Response: Issue the DB2NDROP command with one of the valid command options.

SQL2804N The syntax of the DB2NLIST command is incorrect.

Explanation: The DB2NLIST utility list all nodes in a partitioned system.

DB2NLIST [/i:instance]
[/s]

The command options are:

- /i Specify the instance if different from the default/current instance
- /s Display node status

User Response: Issue the DB2NLIST command with one of the valid command options.

SQL2805N A service error has occurred. Reason code "<reason-code>".

Explanation: A service error has occurred during CREATE, DROP or ADD NODE processing as indicated by the following reason codes:

- (1) Unable to register the service
- (2) Unable to set the required User Rights Policy
- (3) Unable to set the Logon Account for the service
- (4) Unable to delete the service

User Response: The action corresponding to the reason code is:

- (1) If the workstation name is specified during DB2NCRT, ensure that the workstation name is correct.
- (2) Ensure that the user name specified is valid.
- (3) Ensure that the user name and the password specified are valid.
- (4) If the node resides on another machine, ensure that the machine is running.

If the problem persists, examine the db2diag.log for problem determination information and contact an IBM Service Representative for assistance.

SQL2806N Node "<node>" not found for instance "<instance>".

Explanation: DB2NDROP failed because the node does not exist.

User Response: Ensure the node number is correct and reissue the command.

SQL2807N Node "<node>" already exists for instance "<instance>".

Explanation: DB2NCRT failed because the node already exists.

User Response: Ensure the node number is correct and reissue the command.

SQL2808W Node "<node>" for instance "<instance>" has been deleted.

Explanation: The DB2NDROP processing has completed successfully.

User Response: No further action is required.

SQL2809W Node: "<node>" added to instance: "<instance>" {Host: "<host-name>" Machine: "<machine-name>" Port: "<port-num>"}

Explanation: The DB2NCRT processing has completed successfully.

User Response: No further action is required.

SQL2810W Node: "<node>" changed in instance: "<instance>" {Host: "<host-name>" Machine: "<machine-name>" Port: "<port-num>"}
Explanation: The DB2NCHG processing has completed successfully.
User Response: No further action is required.

SQL2811N The command is invalid because the instance is not a partitioned database instance.

Explanation: The command is only valid if the instance is a partitioned database instance.

User Response: Ensure that the specified instance name is valid. If the instance name is not specified on the command line, ensure that the DB2INSTANCE environment is set to a valid partitioned database instance.

SQL2812N An invalid argument was entered for the db2drvmp command.

Explanation: Usage:

```
db2drvmp add      node_number
                  from_drive to_drive
drop             node_number
                  from_drive
query            [ node_number ]
                  [ from_drive ]
reconcile        [ node_number ]
                  [ from_drive ]
```

Valid arguments for this command are:

add assign a new database drive map.

drop remove an existing database drive map.

query query a database map.

reconcile
repair a database map drive when the registry contents are damaged.

SQL3000 - SQL3099

node_number

the node number. The parameter is required for add and drop operations.

from_drive

the drive letter to map from. This parameter is required for add and drop operations.

to_drive

to drive letter to map to. This parameter is required only for add operation. It is not applicable for any other operations.

User Response: Enter the command again using valid arguments.

SQL2813I The drive mapping from drive "<drive-1>" to drive "<drive-2>" was added for node "<node>".

Explanation: The drive mapping was added successfully.

User Response: No action necessary.

SQL2814I The drive mapping from drive "<drive>" was deleted for node "<node>".

Explanation: The drive mapping was deleted successfully.

User Response: No action necessary.

SQL2815I The drive mapping for node "<node>" is: "<drive-1>" - "<drive-2>".

Explanation: Informational message.

User Response: No action necessary

SQL3001C **An I/O error (reason = “<reason>”) occurred while opening the output file.**

Explanation: A system I/O error occurred while opening the output file.

The command cannot be processed. No data is processed.

User Response: For IMPORT/LOAD, verify that the output file exists. For EXPORT, verify that the output media has enough free space. Resubmit the command with a valid output file name, including the correct path. Look in the message file for additional information.

SQL3002C **An I/O error occurred while writing to the output data file.**

Explanation: A system I/O error occurred while writing to the output data file. The output may be incomplete or the disk may be full.

The utility stops processing.

User Response: If the output data file is incomplete, erase it and resubmit the command.

SQL3003C **An I/O error occurred while closing the output data file.**

Explanation: A system I/O error occurred while closing the output data file.

The file is not closed.

User Response: If the output data file is incomplete, erase it and resubmit the command.

SQL3004N **The filetype parameter is not valid.**

Explanation: The *filetype* parameter must be DEL, ASC, IXF, or WSF, or DB2CS for the command.

The *filetype* parameter must be DEL, IXF, or WSF for the EXPORT command.

The *filetype* parameter must be ASC, DEL, IXF, or DB2CS for the LOAD command.

IXF files can not be used to load into a table

defined on a multinode nodegroup.

The command cannot be processed.

User Response: Resubmit the command with a valid *filetype* parameter.

SQL3005N **Processing was interrupted.**

Explanation: An interrupt was received during processing. The user may have pressed the interrupt key sequence.

The utility stops processing. Any database updates not committed are rolled back.

User Response: Resubmit the command. If doing an import, see *Command Reference* for information on how to use *commitcount* and *restartcount* parameters. If doing a load, see *Command Reference* for information on how to restart the load.

SQL3006C **An I/O error occurred while opening the message file.**

Explanation: A system I/O error occurred while opening the message file. This error can refer to a problem on either the client or the server.

The command cannot be processed.

User Response: Resubmit the command with a valid message file name, including the correct path.

SQL3007C **An I/O error occurred while writing to the message file.**

Explanation: A system I/O error occurred while writing to the message file.

Processing may not have finished.

User Response: If the message file is incomplete, erase it and resubmit the command.

SQL3008N **The utility encountered an error “<error>” while connecting to the database.**

Explanation: The IMPORT or EXPORT utility could not connect to the database.

No data is imported or exported.

User Response: Look at the error number in the message for more information. Make changes and resubmit the command.

SQL3009N The Action String parameter is not valid.

Explanation: The *Action String* (e.g. "REPLACE into ...") parameter in the command is not valid. The *Action String* pointer may be incorrect. The structure that the *Action String* points to may be incorrect. The *Action String* structure may contain characters that are not valid.

The command cannot be processed.

User Response: Verify the *Action String* pointer and the structure it points to. Resubmit the command with a valid *Action String*.

SQL3010N The METHOD parameter is not valid.

Explanation: The *METHOD* parameter in the command is not valid. The *METHOD* pointer may be incorrect. The structure that the *METHOD* points to may be incorrect. The *METHOD* structure may contain characters that are not valid.

The command cannot be processed.

User Response: Examine the *METHOD* pointer and the structure it points to. Resubmit this command with a valid *METHOD*.

SQL3011C There is not enough storage to process the command.

Explanation: A memory allocation error occurred. Not enough memory is available to process the command, or there was an error freeing storage.

The command cannot be processed.

User Response: Stop the application. Possible solutions include:

- Verify that your system has sufficient real and virtual memory.
- Remove background processes.

- Increase the *util_heap_sz* for the database.
- Decrease the size of buffers to use for the LOAD.
- The *util_heap_sz* is shared by the LOAD, BACKUP and RESTORE utilities, so have fewer concurrent instances of these utilities running.

SQL3012C A system error occurred.

Explanation: An operating system error occurred.

The command cannot be processed.

User Response: Check your message file, correct the problem and resubmit the command.

SQL3013N The length of the filemod is out of the acceptable range. It should be greater than or equal to zero and less than or equal to 8000.

Explanation: The *filemod* specified is outside the acceptable range (greater than or equal to zero and less than or equal to 8000).

The command cannot be processed.

User Response: Examine the *filemod* pointer and the structure it points to. Resubmit the command with a valid *filemod*.

SQL3014C An I/O error occurred while closing the message file.

Explanation: A system I/O error occurred while closing the message file.

The message file is not closed.

User Response: If the message file is incomplete, resubmit the command.

SQL3015N An SQL error "<sqlcode>" occurred during processing.

Explanation: An SQL error occurred during the utility call.

The utility stops processing.

User Response: Look at the SQLCODE

(message number) in the message for more information. Make changes and resubmit the command.

SQL3016N An unexpected keyword "<keyword>" was found in the filetype parameter for the filetype.

Explanation: A keyword that does not apply to the filetype for the utility was found in the filetype modifier (the *filetype* parameter or the phrase following *MODIFIED BY* in a CLP command).

The utility stops processing.

User Response: Remove the filetype modifier or specify at least one valid keyword in the filetype modifier. See the Command Reference for more information on filetype modifiers.

SQL3017N A delimiter is not valid or is used more than once.

Explanation: For Delimited ASCII (DEL) files, one of two errors occurred:

- The character specified for either the column delimiter, character string delimiter, or decimal point character is not valid.
- The same character is specified for more than one of the preceding items.

The command cannot be processed.

User Response: Examine the specified delimiters for validity and uniqueness. Resubmit the command with valid delimiter overrides.

SQL3018N The period was specified as a character string delimiter.

Explanation: For Delimited ASCII (DEL), the period cannot be specified as the character string delimiter.

The command cannot be processed.

User Response: Resubmit the command with valid delimiter overrides.

SQL3019N No Action String parameter was specified in the command.

Explanation: No *Action String* (e.g. "REPLACE into ...") parameter is specified for this utility call. This parameter is required.

The command cannot be processed.

User Response: Resubmit the command with an *Action String* parameter.

SQL3020N The user does not have the authority to run the specified Export command.

Explanation: The user attempted to export data without the appropriate authorization (either the SYSADM or DBADM authority), or the CONTROL or SELECT privilege for each table involved in the export.

The export action is not performed.

User Response: Request appropriate authorization before exporting data from the tables.

SQL3021N The user does not have the authority to run the specified Import command on table "<name>".

Explanation: The user attempted to import data without the appropriate authorization for the specified option and table.

Import using the INSERT option requires one of the following:

- SYSADM or DBADM authority
- CONTROL privilege on the table, view, or entire hierarchy
- INSERT and SELECT privilege on the table, view, or entire hierarchy.

Note: entire hierarchy refers to all subtables or object views in the hierarchy.

Import to an existing table or view using the INSERT_UPDATE, REPLACE, or the REPLACE_CREATE option, requires one of the following:

- SYSADM or DBADM authority
- CONTROL privilege on the table, view, or entire hierarchy.

Note: entire hierarchy refers to all subtables or object views in the hierarchy.

Import to a table that does not exist, using the CREATE or REPLACE_CREATE option, requires one of the following:

- SYSADM or DBADM authority
- CREATETAB authority on the database and one of:
 - IMPLICIT_SCHEMA authority on the database, if the schema name of the table does not exist
 - CREATEIN privilege on the schema, if the schema of the table exists

The import operation is not performed.

User Response: Ensure that the user has the authorization to perform the import operation.

SQL3022N An SQL error “<sqlcode>” occurred while processing the SELECT string in the Action String parameter.

Explanation: In IMPORT or EXPORT, during processing of the SELECT string from the *Action String* (e.g. "REPLACE into ...") structure, an SQL error occurred.

The command cannot be processed.

User Response: Look at the SQLCODE (message number) in the message for more information. Make changes and resubmit the command.

SQL3023N The database name parameter is not valid.

Explanation: The database name parameter is not valid. See the SQLERRD[0] field in the SQLCA for more information.

The database name must contain 1 to 8 characters and the characters must be from the database manager base character set.

The command cannot be processed.

User Response: Resubmit the statement with a valid database name parameter.

SQL3025N A parameter specifying a filename or path is not valid.

Explanation: The parameter contains a path, directory, or file name that is not valid.

For IMPORT and EXPORT, verify the *datafile* parameter.

For LOAD, verify that each entry in the parameters of type *sqlu_media_list: datafile* should contain valid filenames; *lobpaths copytarget*, and *workdirectory* should contain valid paths on the server including the final separator and a null terminator.

The pointer to lobpaths, copytarget and workdirectory must be valid or null.

The pointer to the targets in these structures must be valid.

Check that sessions and media_type are specified correctly.

Also, if the lobpaths parameter is specified, check that the media_type is the same as that specified for the datafile structure.

If the filetype is IXF, the length of the file name may be too long.

The command cannot be processed.

User Response: Resubmit the statement with a valid parameter.

SQL3026N The msgfile or tempfiles path parameter is not valid.

Explanation: For IMPORT or EXPORT, the *msgfile* parameter contains a path, directory, or file name that is not valid.

For LOAD, either the *msgfile* parameter contains a path, directory, or file name that is not valid on the client, or the tempfiles path is not valid on the server.

If the database to which the application is connected is a remote database, the msgfile must be fully qualified. For a local database the utility will attempt to fully qualify the msgfile if it is not already fully qualified. Also verify that the pointer to the msgfile is valid.

The command cannot be processed.

User Response: Resubmit the statement with a valid *msgfile* and/or tempfiles path parameter.

SQL3028N The export method indicator is not valid. It must be either 'N' or 'D'.

Explanation: The export method indicator must be either N for Names or D for Default.

The command cannot be processed.

User Response: Resubmit the statement with a valid method indicator.

SQL3029N No filetype parameter was specified.

Explanation: The *filetype* parameter was either not specified or null. The system does not know which format to use for the data file.

The command cannot be processed.

User Response: Resubmit the statement with a valid *filetype*.

SQL3030C An I/O error (reason = "<reason>") occurred while opening the input file.

Explanation: A system I/O error occurred while opening the input file. This error can refer to a

problem on either the client or the server.

A possible cause may be that the input file is in use by another application.

The command cannot be processed.

User Response: Ensure that the input file is valid, including the path, and that it is not currently in use by another application.

Resubmit the command. Look in the diagnostics log file for additional information.

SQL3031C An I/O error occurred while reading from the input file.

Explanation: A system I/O error occurred while reading from the input file. This error can refer to a problem on either the client or the server.

The command cannot be processed.

User Response: Verify that the input file is readable.

SQL3032N The LOAD/IMPORT method indicator is not valid for the specified filetype. It must be either 'N', 'P', or 'default'.

Explanation: For the IXF and WSF filetypes, the LOAD/IMPORT method indicator must be either N for Names, P for Positional, or D for Default.

The command cannot be processed.

User Response: Resubmit the command with a valid method indicator.

SQL3033N A keyword such as INSERT, REPLACE, CREATE, INSERT_UPDATE, or REPLACE_CREATE is missing from the target specification or it is misspelled.

Explanation: For IMPORT, the *Action String* (e.g. "REPLACE into ...") parameter does not contain the keyword INSERT, REPLACE, CREATE, INSERT_UPDATE, or REPLACE_CREATE. For LOAD, the *Action String* parameter does not contain the keyword INSERT, REPLACE, or

RESTART. The keyword must be followed by at least one blank.

The command cannot be processed.

User Response: Resubmit the command with a valid *Action String* parameter.

SQL3034N The keyword INTO is missing from the target specification or it is misspelled.

Explanation: The INTO keyword is missing or spelled incorrectly. INTO must be followed by at least one blank.

The command cannot be processed.

User Response: Resubmit the command with a valid *Action String* (e.g. "REPLACE into ...") parameter.

SQL3035N The tablename parameter in the target specification is not valid.

Explanation: For IMPORT, the *tablename* in the *Action String* (e.g. "REPLACE into ...") is not valid. For LOAD, the *tablename* or the *exception tablename* in the *Action String* is not valid.

The command cannot be processed.

User Response: Resubmit the command with a valid *tablename*. Also ensure that all command keywords and parameters are entered in the correct order.

SQL3036N The tcolumn-list in the target specification does not have a closed parenthesis.

Explanation: The *tcolumn-list* must be delimited by parentheses. The list was not terminated by the closed parenthesis.

The command cannot be processed.

User Response: Resubmit the statement with a valid, complete column list in the *Action String* (e.g. "REPLACE into ...") parameter.

SQL3037N An SQL error "<sqlcode>" occurred during Import processing.

Explanation: An SQL error occurred during processing of the *Action String* (e.g. "REPLACE into ...") parameter.

The command cannot be processed.

User Response: Look at the SQLCODE (message number) in the message for more information. Make changes and resubmit the command.

SQL3038N The Action String parameter contains unexpected characters.

Explanation: For IMPORT, there are characters other than blanks after the closing parenthesis of the column list in the *Action String* (e.g. "REPLACE into ...") parameter. For LOAD, there are characters other than blanks after the closing parenthesis of the column list and/or the exception *tablename* in the *Action String* parameter.

The command cannot be processed.

User Response: Resubmit the command with a valid *Action String* parameter.

SQL3039W The memory available to LOAD for DATA BUFFER prohibits full LOAD parallelism. Load parallelism of "<value>" will be used.

Explanation: The LOAD utility attempted to determine the optimal level of CPU parallelism for SMP exploitation based on the system configuration, or the user specified a value for LOAD parallelism when invoking the utility. However, one of the following limitation was encountered:

1. The amount of free memory in the utility heap prohibits this degree of parallelism.
2. The DATA BUFFER parameter was specified with a value too small to allow for the specified or available parallelism.

A lesser degree of parallelism, requiring less memory, will be used.

User Response:

1. Ignore this message, and the LOAD will complete normally using the smaller value for LOAD parallelism. However, Load performance may be less than optimal.
2. Specify a smaller value for LOAD parallelism when invoking the utility.
3. Increase the size of the utility heap.
4. Increase the size of the data buffer parameter, or leave the parameter blank and let the LOAD utility determine a default based on the freespace in the utility heap.

SQL3040N Unable to use the lobpath/lobfile parameters as specified. Reason code: “<reason-code>”.

Explanation: The utility is unable to use the lobpath or lobfile parameters as specified for the reason given by “<reason-code>”. The codes are listed below.

User Response: Given for each reason code:

- 1 The lobpath is not a valid sqlu_media_list or the values provided are not valid. The media_type must be SQLU_LOCAL_MEDIA and all pathnames must be terminated with a valid path separator.
- 2 The lobfile is not a valid sqlu_media_list or the values provided are not valid. The media_type must be SQLU_LOCAL_MEDIA.
- 3 There are not enough lobpath names provided. For export, there is not enough space on the paths provided to hold all the lobs.
- 4 There are not enough lobfile names provided. For export, there are more lobs than the number of lobfile names provided multiplied by SQLU_MAX_SESSIONS.
- 5 The combination of a lobpath name and

lobfile name would exceed the maximum size of a lobfile name (255 bytes).

- 6 An error occurred while trying to access the file.

SQL3042N The LINKTYPE specified for a DATALINK column is invalid.

Explanation: The value specified for LINKTYPE for a DATALINK column is invalid.

User Response: Check the LINKTYPE specified. Correct the value and resubmit the command.

SQL3043N The DATALINK SPECIFICATION for DATALINK column(s) is invalid.

Explanation: The DATALINK SPECIFICATION for a DATALINK column(s) is invalid for one of the following reasons:

- No value is specified for DL_URL_REPLACE_PREFIX.
- No value is specified for DL_URL_DEFAULT_PREFIX.
- No value is specified for DL_URL_SUFFIX.
- Contains keywords other than DL_URL_REPLACE_PREFIX or DL_URL_DEFAULT_PREFIX or DL_URL_SUFFIX.

User Response: Correct the specification and resubmit the command.

SQL3044N The DATALINK SPECIFICATION for a DATALINK column has duplicate prefix specification.

Explanation: The DATALINK SPECIFICATION for a DATALINK column has duplicate specifications for DL_URL_REPLACE_PREFIX or DL_URL_DEFAULT_PREFIX.

User Response: Remove the duplicate specification and resubmit the command.

SQL3045N **A dcolumn position in the METHOD parameter is less than one or greater than the maximum number of columns (1024) in a Delimited ASCII file.**

Explanation: The *dcolumn* position is less than 1 or greater than the maximum number of columns (1024) in a delimited file.

The command cannot be processed.

User Response: Resubmit the command with valid *dcolumn* positions.

SQL3046N **The number of columns in the METHOD parameter is less than one.**

Explanation: For *METHOD* methods other than Default, the number of columns specified must be a positive number (greater than 0).

The command cannot be processed.

User Response: Resubmit the command with a valid number of columns in the *METHOD* parameter.

SQL3047N **The LOAD/IMPORT method specified in METHOD is not valid for Delimited ASCII files. It must be either 'P' or 'default'.**

Explanation: The only valid LOAD/IMPORT methods for Delimited ASCII files are P for Positions or D for Default.

The command cannot be processed.

User Response: Resubmit the command with a valid import method.

SQL3048N **There are fewer columns specified from the input file than database columns, but one of the database columns is not nullable.**

Explanation: When fewer columns are specified in the *METHOD* list than are specified for the target table, the values for the missing input columns are loaded as nulls. Because the columns in the target table that correspond to

one or more of these input columns are not nullable, null cannot be inserted.

The file cannot be loaded.

User Response: Define a new table that has the same number of columns as the input file or that has nullable columns. Resubmit the command.

SQL3049N **The data type "<type>" of the database column "<name>" is not compatible with this format file, but the database column is not nullable.**

Explanation: The database column type is not valid for this format file. The database column is not nullable so the utility is ended.

The utility stops processing. No data is loaded.

User Response: Redefine the database table so the columns are compatible with the columns loaded from the file.

SQL3050W **Conversions on the data will be made between the IXF file code page and the application code page.**

Explanation: If an IMPORT of an IXF data file has been issued and the code page of the character data in the IXF file is different from the code page of the application invoking the import operation, a conversion will be made from the code page of the data file to the code page of the application and the operation will continue.

If a LOAD of an IXF data file has been issued and the code page of the character data in the IXF file is different from the database code page, a conversion will be made from the code page of the data file to the code page of the database and the operation will continue.

User Response: If you do not want a conversion to be performed, invoke the utility using the FORCEIN option; otherwise no action is required.

SQL3051W **The data to be loaded into “<column_name>” has been loaded, but conversion from the IXF file code page to the application code page has not been performed.**

Explanation: The data that was loaded into the CLOB or DBCLOB column is stored in a separate file and no conversions have been performed on it.

To properly load the data, call the utility from an application that has the same code page as the IXF file.

User Response: This is a warning only.

SQL3053N **There are more than 8191 rows to be exported to a worksheet formatted file.**

Explanation: The maximum number of rows that can be placed in a worksheet format file (WSF) is 8191.

The EXPORT utility stops processing after placing 8191 rows in the file.

User Response: To prevent this error, use a SELECT statement that results in fewer rows to export, and resubmit the command.

SQL3054N **The input file is not a valid PC/IXF file. The file is too short to contain a valid H record.**

Explanation: The end of the file was reached before the expected end of the first record. The file may not be a PC/IXF file.

The LOAD/IMPORT utility stops processing. No data is imported.

User Response: Verify that the input file is correct.

SQL3055N **The input file is not a valid PC/IXF file. The length field in the first record cannot be converted to a numeric value.**

Explanation: The value in the length field of the first record is not the ASCII representation of a number. The file may not be a PC/IXF file.

The utility stops processing. No data is loaded.

User Response: Verify that the input file is correct.

SQL3056N **The input file is not a valid PC/IXF file. The value in the length field of the H record is too small.**

Explanation: The value in the length field of the H record is not large enough for a valid H record. The file may not be a PC/IXF file.

The utility stops processing. No data is loaded.

User Response: Verify that the input file is correct.

SQL3057N **The input file is not a valid PC/IXF file. The type field in the first record is not H.**

Explanation: The type field in the first record is not H. The first record is not a valid H record. The file may not be a PC/IXF file.

The utility stops processing. No data is loaded.

User Response: Verify that the input file is correct.

SQL3058N **The identifier field in the H record is not IXF.**

Explanation: The identifier field in the H record does not identify the file as a PC/IXF file.

The utility stops processing. No data is loaded.

User Response: Examine the identifier field in the H record.

SQL3059N The version field in the H record is not valid.

Explanation: The version field in the H record contains a value that is not valid.

The utility stops processing. No data is loaded.

User Response: Examine the version field in the H record.

SQL3060N The HCNT field in the H record cannot be converted to a numeric value or the value is out of range.

Explanation: The Heading-record-count field in the H record is not an ASCII representation of a number or is a number that is not valid for this field.

The utility stops processing. No data is loaded.

User Response: Examine the HCNT field in the H record.

SQL3061N The single-byte and/or double-byte code page field in the H record cannot be converted to a numeric value or the value is out of range.

Explanation: The single-byte and/or double-byte code page field in the H record is not an ASCII representation of a number or is a number that is not valid for this field.

The utility stops processing. No data is loaded.

User Response: Examine the single-byte and double-byte code page field in the H record, change them to appropriate values as specified in the *Application Development Guide* and resubmit the command.

SQL3062N The double-byte code page field in the H record cannot be converted to a numeric value or the value is out of range.

Explanation: The double-byte code page field in the H record is not an ASCII representation of a number or is a number that is not valid for this field.

The utility stops processing. No data is loaded.

User Response: Examine the double-byte code page field in the H record, change it to an appropriate value as specified in the *Application Development Guide* and resubmit the command.

SQL3063N The single-byte code page value "<value 1>" in the H record is not compatible with the single-byte code page value "<value 2>" for the application. The FORCEIN option was not specified.

Explanation: The single-byte code page value in the H record is not compatible with the application code page value. When the FORCEIN option is not used, the data cannot be loaded unless conversion from value 1 to value 2 is supported.

The utility stops processing. No data is loaded.

User Response: To load this data, resubmit the command with the FORCEIN option.

SQL3064N The double-byte code page value "<value 1>" in the H record is not compatible with the double-byte code page value "<value 2>" for the application. The FORCEIN option was not specified.

Explanation: The double-byte code page value in the H record is not compatible with the application code page value. When the FORCEIN option is not used, the data cannot be loaded unless value 1 and value 2 are the same.

The utility stops processing. No data is loaded.

User Response: To load data where the double-byte code page values do not match, resubmit the command with the FORCEIN option.

SQL3065C The value for the application code page cannot be determined.

Explanation: The system encountered an error while determining the code page of the application.

The utility stops processing. No data is loaded or unloaded.

User Response: Contact your technical service representative.

SQL3066N While reading or looking for the T record, the end of the file was reached.

Explanation: The end of the file was reached while the system was looking for the T record or while it was reading the T record.

The utility stops processing. No data is loaded.

User Response: Examine the T record of the input file. If the PC/IXF file was copied from one medium to another, compare the copy with the original or repeat the copy process.

SQL3067N The length field in the T record cannot be converted to a numeric value.

Explanation: The length field in the T record is not an ASCII representation of a number.

The utility stops processing. No data is loaded.

User Response: Examine the length field in the T record.

SQL3068N The value in the length field of the T record is too small.

Explanation: The value in the length field of the T record is not large enough so the T record is not valid.

The utility stops processing. No data is loaded.

User Response: Examine the length field in the T record.

SQL3069N The first non-A record following the H record is not a T record.

Explanation: After the H record, the first record not an A record is also not a T record. The H record must be immediately followed by a T record but A records may exist before the T record.

The utility stops processing. No data is loaded.

User Response: Examine the records following the H record.

SQL3070N The length field in an A record is out of range.

Explanation: The length field in an A record is a number that is not valid for this field.

The utility stops processing. No data is loaded.

User Response: Examine the length field in the A records.

SQL3071N The data-convention field in the T record is not C.

Explanation: The data-convention field in the T record is a value other than C.

The utility stops processing. No data is loaded.

User Response: Examine the data-convention field in the T record.

SQL3072N The data-format field in the T record is not M.

Explanation: The data-format field in the T record is a value other than M.

The utility stops processing. No data is loaded.

User Response: Examine the data-format field in the T record.

SQL3073N The machine format field in the T record is not PCbbb (where b = blank).

Explanation: The machine format field in the T record is a value other than PCbbb, where each *b* is a blank.

The utility stops processing. No data is loaded.

User Response: Examine the machine format field in the T record.

SQL3074N The data-location field in the T record is not I.

Explanation: The data-location field in the T record is a value other than I.

The utility stops processing. No data is loaded.

User Response: Examine the data-location field in the T record.

SQL3075N The CCNT in the T record cannot be converted to a numeric value or the value is out of range.

Explanation: The C-record count field in the T record is not an ASCII representation of a number or is a number that is not valid for this field.

The utility stops processing. No data is loaded.

User Response: Examine the CCNT field in the T record.

SQL3076N The name length field in the T record cannot be converted to a numeric value or the value is out of range.

Explanation: The name length field in the T record is not an ASCII representation of a number or is a number that is not valid for this field.

The utility stops processing. No data is loaded.

User Response: Examine the name length field in the T record.

SQL3077N The number of C records specified in the CCNT field in the T record "<value>" exceeds the maximum allowed "<maximum>".

Explanation: The value in the CCNT field of the T record is larger than the maximum allowed for the indicated release.

The utility stops processing. No data is loaded.

User Response: Examine the CCNT field in the T record.

SQL3078N The length field in an A record cannot be converted to a numeric value.

Explanation: The length field in an A record is not an ASCII representation of a number.

The utility stops processing. No data is loaded.

User Response: Examine the length fields in the A records.

SQL3079N The length field in a C record cannot be converted to a numeric value.

Explanation: The length field in a C record is not an ASCII representation of a number.

The utility stops processing. No data is loaded.

User Response: Examine the length field in the C records.

SQL3080N The value in the length field of the C record is too small.

Explanation: The value in the length field of a C record is not large enough so the C record is not valid.

The utility stops processing. No data is loaded.

User Response: Examine the length field in the C records.

SQL3081N Not enough C records were found.

Explanation: The number of C records found (in the correct position) is less than the number expected from the C-record-count (CCNT) in the T record.

The utility stops processing. No data is loaded.

User Response: Examine the T and C records.

SQL3082N While reading or looking for a C record, the end of the file was reached.

Explanation: The end of the file was reached while the system was looking for a C record or while it was still reading a C record.

The utility stops processing. No data is loaded.

User Response: Examine the C records in the input file. If the PC/IXF file was copied from one medium to another, compare the copy with the original or repeat the copy process.

SQL3083N The D-record-id field in the C record for column "<name>" cannot be converted to a numeric value.

Explanation: The D-record-id field in the C record for the indicated column is not an ASCII representation of a number.

The utility stops processing. No data is loaded.

User Response: Examine the D-record-id field in the C record.

SQL3084N The D-record-position field in the C record for column "<name>" cannot be converted to a numeric value.

Explanation: The D-record-position field in the C record for the indicated column is not an ASCII representation of a number.

The utility stops processing. No data is loaded.

User Response: Examine the D-record-position field in the C record.

SQL3085N The D-record-id and D-record-position fields in the C record for column "<name>" are out of range or inconsistent with the previous C record.

Explanation: The D-record-id or the D-record-position fields in the C record for the indicated column contain a value that is either

out of the value range or is not correct relative to the previous C record.

The utility stops processing. No data is loaded.

User Response: Examine the D-record-id and D-record-position fields in the C record.

SQL3086N There was no source column specified to be loaded into database column "<name>" or the specified source column does not exist, but the database column is not nullable.

Explanation: Either there was not a PC/IXF column specified to be exported into the indicated column or the specified PC/IXF source column does not exist. Nulls cannot be inserted because the database column is not nullable.

The utility stops processing. No data is loaded.

User Response: Check the *METHOD* parameter for erroneous names or positions or for fewer entries in the *METHOD* parameter than the *Action String* (e.g. "REPLACE into ...") parameter states or implies.

SQL3087N The source column specified to be loaded into database column "<name>" is not valid, but the database column is not nullable.

Explanation: The PC/IXF column cannot be loaded into the indicated database column and the reason was given in a previous message in the message log. Nulls cannot be inserted because the database column is not nullable.

The utility stops processing. No data is loaded.

User Response: Read the previous messages to understand why the column is not valid.

SQL3088N The source column specified to be loaded into database column "<name>" is not compatible with the database column, but the database column is not nullable.

Explanation: The source PC/IXF column is not compatible with the target database column. The

column types or lengths may be incompatible. Nulls cannot be inserted because the database column is not nullable.

The utility stops processing. No data is loaded.

User Response: Compare the columns in the source PC/IXF file with the columns in the database.

SQL3089N A non-D record was found where a D record was expected.

Explanation: Some record other than a D record was found where a D record was expected.

The utility stops processing. No data is loaded.

User Response: Examine the D records in the file.

SQL3090N The length field in a D record cannot be converted to a numeric value.

Explanation: The length field in a D record is not an ASCII representation of a number.

The utility stops processing. No data is loaded.

User Response: Examine the length field in the D records.

SQL3091N The length field in a D record is out of range.

Explanation: The length field in a D record is a number that is not valid for this field.

The utility stops processing. No data is loaded.

User Response: Examine the length field in the D records.

SQL3092N The identifier field in a D record does not contain the expected value.

Explanation: The identifier field in a D record is not valid. One or more D records may have been written out of sequence.

The utility stops processing. No data is loaded.

User Response: Examine the identifier field in the D records.

SQL3093N The input file is not a valid WSF file.

Explanation: The first record in the worksheet format (WSF) file was not a beginning-of-file (BOF) record, or the version of the WSF file is not supported.

The IMPORT utility stops processing. No data is imported.

User Response: Verify that the file is a valid WSF file and that the name was entered correctly.

SQL3094N The input column "<name>" was not found, but the corresponding database column is not nullable.

Explanation: The specified column was not in the input file. Because the corresponding database column is not nullable, data cannot be loaded into the column.

The utility stops processing. No data is loaded. The column names processed before the error occurred are in the database

User Response: Verify that the input file contains the specified column names.

SQL3095N The specified column position "<position>" is not in the valid range of 1 to 256.

Explanation: A column position was specified that was not within the range of 1 to 256.

The utility stops processing. No data is loaded. The column names processed before the error occurred are in the database.

User Response: Verify that the specified column position is within the range 1 to 256.

SQL3096N The data type "<type>" of the database column "<name>" is not compatible with any WSF column type, but the database column is not nullable.

Explanation: There is not any worksheet format (WSF) column type that is compatible with the indicated database column. The database column is not nullable so the IMPORT utility stops processing.

No data is imported.

User Response: Redefine the database table so the columns are compatible with the columns being imported from the WSF file. Resubmit the command.

SQL3097N The record length field in the WSF record is not valid for its record type.

Explanation: The worksheet format (WSF) records have an expected fixed length or a variable-length range. The record does not contain the fixed length, or the variable length is out of range. Some damage occurred to the WSF file, or it was generated incorrectly, possibly with a level of the Lotus product not supported by the database manager.

The IMPORT utility stops processing.

User Response: Regenerate the WSF file with a supported level of the Lotus product.

SQL3100 - SQL3199

SQL3100W Column number "<column-number>" (identified as "<name>") in the output DEL format file is longer than 254 bytes.

Explanation: The length or maximum length of the specified output column is greater than 254 bytes. Columns larger than 254 are not supported by some other products.

The entire field is exported without truncation.

User Response: If the output file cannot be

SQL3098N The row number from the input file is not in the valid range of 1 to 8192.

Explanation: The maximum number of rows that a worksheet format (WSF) spreadsheet can contain is 8192. The cell coordinate contains a value outside the valid range. Some damage occurred to the WSF file, or it was generated incorrectly, possibly with a level of the Lotus product not supported by the database manager.

The IMPORT utility stops processing.

User Response: Regenerate the WSF file with a supported level of the Lotus product.

SQL3099N The column number from the input file is not in the valid range of 1 to 256.

Explanation: The maximum number of columns that a worksheet format (WSF) spreadsheet can contain is 256. The cell coordinate contains a value outside the valid range. Some damage has occurred to the WSF file, or it was generated incorrectly, possibly with a level of the Lotus product that is not supported by the database manager.

The IMPORT utility stops processing.

User Response: Regenerate the WSF file with a supported level of the Lotus product.

processed by another product, export only a substring of the incorrect column, redefine the table, or manually truncate the data in the DEL column.

SQL3101W There is a character string delimiter in column "<column-number>" in row "<row-number>".

Explanation: The system puts character string delimiters around the character strings being exported but it found a character string that

already has the delimiter in the character string.

Delimiters will be placed around the character string. Future use of that string leads to an appearance of truncation. Processing can continue.

User Response: Review the data for the given column and row in the output table or file. To avoid loss of data, change the character delimiter to some character that is not in the data.

SQL3102W The number of columns in the METHOD parameter is greater than the number of columns in the Action String (e.g. "REPLACE into ...") parameter.

Explanation: The number of columns taken from the input file or table is greater than the number to be put in the output table or file.

Only data for the columns indicated in the output table or file will be processed. Data in the excess input columns is not processed.

User Response: Review the data in the output table or file.

SQL3103W The number of columns in the METHOD parameter is less than the number of columns in the Action String (e.g. "REPLACE into ...") parameter.

Explanation: The number of columns taken from the input file or table is less than the number to be put in the output table or file.

Only data for the columns indicated in the input table or file will be processed. Data in the excess output columns is not processed.

User Response: Review the data in the output table or file.

SQL3104N The Export utility is beginning to export data to file "<name>".

Explanation: This is the normal beginning message.

User Response: No action is required.

SQL3105N The Export utility has finished exporting "<number>" rows.

Explanation: This is the summary message for the export utility which is printed at the end of the message file. This message will state how many rows resulting from the SELECT statement were processed before the export utility terminated.

User Response: If an sqlcode of 0 was returned from the utility, then no response is required. If an sqlcode of 3107 was returned, check the message file for warnings that occurred during the export and resubmit the command if desired. If a negative sqlcode was returned, an error occurred during the export and the data file may not contain all the data requested. The command should be resubmitted with the error corrected.

SQL3106N An error occurred while formatting a message for the message file.

Explanation: The error message may be incomplete or formatted incorrectly.

User Response: No action is required.

SQL3107W There is at least one warning message in the message file.

Explanation: At least one warning was received during processing.

This warning does not affect processing.

User Response: Review the message file warning.

SQL3108W Unable to access file referenced by a DATALINK value in row "<row-number>" and column "<column-number>". Reason code = "<reason-code>".

Explanation: The possible causes of this message depend on the value of "<reason-code>":

- 1 DATALINK value data location format is not valid.

- 2 DATALINK value DB2 Data Links Manager is not registered with the database.
- 3 DATALINK linktype value is not valid.
- 4 DATALINK value referenced file cannot be found by the DB2 Data Links Manager.
- 5 DATALINK value referenced file is already linked to the database.
- 6 DATALINK value referenced file cannot be accessed for linking. It may be a symbolic link or a file with permission bit for set user ID (SUID) on or set group ID (SGID) on.
- 7 DATALINK value URL or comment is too long.

User Response: The action is based on the "<reason-code>" as follows:

- 1 Correct the data location format. If hostname is not specified, DB2 can use the local hostname as default only if support for FILE LINK CONTROL is enabled. Refer to the Administration Guide for information on enabling this support.
- 2 Ensure that the correct DB2 Data Links Manager is specified and if so have it registered to the database. Registered DB2 Data Links Managers are ignored unless support for FILE LINK CONTROL is enabled. Refer to the Administration Guide for information on enabling this support.
- 3 Correct the linktype value.
- 4 Check that the correct file is specified and that the file exists
- 5 Either unlink the existing reference to the file or do not specify the file in this statement.
- 6 Linking of directories is not allowed. Use the actual file name, not the symbolic link. If SUID or SGID is on, this file cannot be linked using a DATALINK type.

- 7 Reduce the length of the data location value or the comment.

SQL3109N The utility is beginning to load data from file "<name>".

Explanation: This is the normal beginning message. The message may indicate the name of a temporary file created on the server instead of the source file.

User Response: No action is required.

SQL3110N The utility has completed processing. "<number>" rows were read from the input file.

Explanation: This is the normal ending message.

User Response: No action is required.

SQL3111C An I/O error occurred while closing the input data file.

Explanation: A system I/O error occurred while closing the input data file. This error can refer to a problem on either the client or the server.

The file is not closed.

User Response: Examine the input file for an I/O error.

SQL3112W There are fewer input file columns specified than database columns.

Explanation: There are fewer columns specified in the input file than in the output table. Because the extra columns in the table are defined as nullable, the values in those columns are filled with nulls.

User Response: No action is required.

SQL3113W The data type “<type>” of the database column “<name>” is not compatible with this format file. Null values are inserted for the column.

Explanation: The database column type is not valid for this file. Because the column is nullable, nulls are inserted.

Null values are loaded for the indicated column.

User Response: If nulls are not acceptable for the column, do one of the following:

- Edit the data in the table.
- If possible, use another compatible column in the database table as the target column and resubmit the command.
- Redefine the database table so the columns are compatible with the columns being loaded and resubmit the command.

SQL3114W Some data following “<text>” in row “<row-number>” and column “<column-number>” was not loaded.

Explanation: Some data in the specified row and column is not loaded, probably because the column contains data as follows:

- A closed string delimiter
- An isolated carriage return or line feed control character
- A non-delimited string value.

The text that was loaded is shown in the “<text>” token.

The contents of the field may be incomplete.

User Response: Compare the value in the output table with the input file. If necessary, correct the input file and resubmit the command, or edit the data in the table.

SQL3115W The field value beginning “<text>” in row “<row-number>” and column “<column-number>” is longer than the longest allowable table column. The value was truncated.

Explanation: The field value is longer than 32700 bytes.

The value was truncated after 32700 bytes.

User Response: Compare the value in the output table with the input file. If necessary, correct the input file and resubmit the command or edit the data in the table. Check for unmatched character string delimiters.

SQL3116W The field value in row “<row-number>” and column “<column-number>” is missing, but the target column is not nullable.

Explanation: A null field value was encountered in the input file. Because the target column in the table is not nullable, it cannot be loaded.

For files other than ASCII files, the value of the column number specifies the field within the row of the missing data. For ASCII files, the value of the column number specifies the byte position within the row of the missing data.

The row is not loaded.

User Response: If necessary, correct the input file and resubmit the command or edit the data in the table.

SQL3117W The field value in row “<row-number>” and column “<column-number>” cannot be converted to a SMALLINT value. A null was loaded.

Explanation: The value in the specified field cannot be converted to a SMALLINT value. There may be a data type mismatch. The value may be larger than a 2-byte integer.

For delimited ASCII (DEL) files, the value of the column number specifies the field within the row

that contains the value in question. For ASCII files, the value of the column number specifies the byte location within the row where the value in question begins.

A null value is loaded.

User Response: Examine the input value. If necessary, correct the input file and resubmit the command or edit the data in the table.

SQL3118W **The field value in row “<row-number>” and column “<column-number>” cannot be converted to a SMALLINT value, but the target column is not nullable. The row was not loaded.**

Explanation: The value in the specified field cannot be converted to a SMALLINT value. There may be a data type mismatch. The value may be larger than a 2-byte integer. A null cannot be loaded because the output column in the table is not nullable.

For delimited ASCII (DEL) files, the value of the column number specifies the field within the row that contains the value in question. For ASCII files, the value of the column number specifies the byte location within the row where the value in question begins.

The row is not loaded.

User Response: Correct the input file and resubmit the command or edit the data in the table.

SQL3119W **The field value in row “<row-number>” and column “<column-number>” cannot be converted to an INTEGER value. A null was loaded.**

Explanation: There may be a data type mismatch because the value in the specified field cannot be converted to an INTEGER value.

For delimited ASCII (DEL) files, the value of the column number specifies the field within the row that contains the value in question. For ASCII files, the value of the column number specifies

the byte location within the row where the value in question begins.

A null value is loaded.

User Response: Examine the input value. If necessary, correct the input file and resubmit the command or edit the data in the table.

SQL3120W **The field value in row “<row-number>” and column “<column-number>” cannot be converted to an INTEGER value, but the target column is not nullable. The row was not loaded.**

Explanation: There may be a data type mismatch because the value in the specified field cannot be converted to an INTEGER value. A null cannot be loaded because the output column in the table is not nullable.

For delimited ASCII (DEL) files, the value of the column number specifies the field within the row that contains the value in question. For ASCII files, the value of the column number specifies the byte location within the row where the value in question begins.

The row is not loaded.

User Response: Correct the input file and resubmit the command or edit the data in the table.

SQL3121W **The field value in row “<row-number>” and column “<column-number>” cannot be converted to a FLOAT value. A null was loaded.**

Explanation: The value in the specified field cannot be converted to a FLOAT value. There may be a data type mismatch.

For delimited ASCII (DEL) files, the value of the column number specifies the field within the row that contains the value in question. For ASCII files, the value of the column number specifies the byte location within the row where the value in question begins.

A null value is loaded.

User Response: Examine the input value. If necessary, correct the input file and resubmit the command or edit the data in the table.

SQL3122W **The field value in row “<row-number>” and column “<column-number>” cannot be converted to a FLOAT value, but the target column is not nullable. The row was not loaded.**

Explanation: The value in the specified field cannot be converted to a FLOAT value. There may be a data type mismatch. A null cannot be loaded because the output column in the table is not nullable.

For delimited ASCII (DEL) files, the value of the column number specifies the field within the row that contains the value in question. For ASCII files, the value of the column number specifies the byte location within the row where the value in question begins.

The row is not loaded.

User Response: Correct the input file and resubmit the command or edit the data in the table.

SQL3123W **The field value in row “<row-number>” and column “<column-number>” cannot be converted to a PACKED DECIMAL value. A null was loaded.**

Explanation: The value in the specified field cannot be converted to a PACKED DECIMAL value. There may be a data type mismatch.

For delimited ASCII (DEL) files, the value of the column number specifies the field within the row that contains the value in question. For ASCII files, the value of the column number specifies the byte location within the row where the value in question begins.

A null value is loaded.

User Response: Examine the input value. If necessary, correct the input file and resubmit the command or edit the data in the table.

SQL3124W **The field value in row “<row-number>” and column “<column-number>” cannot be converted to a PACKED DECIMAL value, but the target column is not nullable. The row was not loaded.**

Explanation: The value in the specified field cannot be converted to a PACKED DECIMAL value. There may be a data type mismatch. A null cannot be loaded because the output column in the table is not nullable.

For delimited ASCII (DEL) files, the value of the column number specifies the field within the row that contains the value in question. For ASCII files, the value of the column number specifies the byte location within the row where the value in question begins.

The row is not loaded.

User Response: Correct the input file and resubmit the command or edit the data in the table.

SQL3125W **The character data in row “<row-number>” and column “<column-number>” was truncated because the data is longer than the target database column.**

Explanation: The length of the field data in the input file was longer than the length of the database field where it is being loaded.

The character data was truncated.

User Response: Compare the value in the output table with the input file. If necessary, correct the input file and resubmit the command or edit the data in the table. The width of the database column cannot be increased. If necessary, define a new table with wider columns and repeat the process.

SQL3128W The field containing "<data>" in row "<row-number>" and column "<column-number>" was truncated into a DATE field because the data is longer than the database column.

Explanation: The date value in the specified field is longer than the length of the string representation of a date.

The date value is truncated to fit into the table.

User Response: Compare the value in the output table with the input file. If necessary, correct the input file and resubmit the command or edit the data in the table.

SQL3129W The date, time, or timestamp field containing "<text>" in row "<row-number>" and column "<column-number>" was padded with blanks.

Explanation: The field data in the input file was shorter than the database column.

The data on the right is padded with blanks.

User Response: Compare the value in the output table with the input file. If necessary, correct the input file and resubmit the command or edit the data in the table.

SQL3130W The field containing "<text>" in row "<row-number>" and column "<column-number>" was truncated into a TIME field because the data is longer than the database column.

Explanation: The time value in the specified field is longer than the length of the string representation of a time.

The time value is truncated to fit into the table.

User Response: Compare the value in the output table with the input file. If necessary, correct the input file and resubmit the command or edit the data in the table.

SQL3131W The field containing "<text>" in row "<row-number>" and column "<column-number>" was truncated into a TIMESTAMP field because the data is longer than the database column.

Explanation: The timestamp value in the specified field is longer than the length of the string representation of a timestamp.

The timestamp value is truncated to fit into the table.

User Response: Compare the value in the output table with the input file. If necessary, correct the input file and resubmit the command or edit the data in the table.

SQL3132W The character data in column "<column>" will be truncated to size "<size>".

Explanation: The character data column has a defined size that is longer than the longest default character column which can be exported; each value will be truncated to the specified size.

For example, by default, only the first SQL_LONGMAX bytes of a LOB column will be exported. If the entire LOB column is desired, the *LOBSINFILE* keyword must be specified in the filetype modifier and each LOB column will be stored into a separate file.

User Response: This is a warning only. No action is required.

SQL3133W The field in row "<row-number>" and column "<column-number>" contains invalid DATALINK value. A null was loaded.

Explanation: The DATALINK value in the specified field is invalid. For delimited ASCII (DEL) files, the value of the column number specifies the field within the row that contains the value in question. For ASCII files, the value of the column number specifies the byte location within the row where the value in question begins.

A null value is loaded.

User Response: Examine the input value. If necessary, correct the input file and resubmit the command or edit the data in the table.

SQL3134W **The field in row “<row-number>” and column “<column-number>” contains invalid DATALINK value, but the target column is not nullable. The row was not loaded.**

Explanation: The DATALINK value in the specified field is invalid. For delimited ASCII (DEL) files, the value of the column number specifies the field within the row that contains the value in question. For ASCII files, the value of the column number specifies the byte location within the row where the value in question begins.

User Response: Examine the input value. If necessary, correct the input file and resubmit the command.

SQL3137W **Row “<row-number>” is too short. At least one input value being loaded to a non-nullable database column is missing. The row was not loaded.**

Explanation: If loading from a delimited ASCII file, the row contains too few fields. If loading from a non-delimited ASCII file, the row contains too few bytes of data. There is no input value for at least one non-nullable target column.

The row is not loaded.

User Response: Examine the input file and the contents of the target table. Correct the input file and resubmit the command, or edit the data in the table.

SQL3138W **The ending character string delimiter was not found before the end of the input data file was reached.**

Explanation: The end of the input data file was reached before the terminating character string delimiter was found.

A closing character string delimiter is assumed at the end of the data.

User Response: Compare the value in the output table with the input file. If necessary, correct the input file and resubmit the command or edit the data in the table.

SQL3139W **An error “<error>” occurred while the utility was disconnecting from the database.**

Explanation: The IMPORT or EXPORT utility could not disconnect from the database.

The output data may be incomplete.

User Response: Use the error number in the message to determine the exact error.

SQL3142W **The column heading for column “<column-number>” is being truncated to 240 bytes.**

Explanation: The LOTUS 1-2-3** and Symphony** programs have a limit of 240 bytes for label records. If a column heading greater than 240 bytes is specified for export, it is truncated to 240 bytes.

The column heading is truncated. Processing continues.

User Response: Verify that the column headings are 240 bytes or less. Check for a possible error in specifying the names for the columns in the output worksheet format (WSF) file.

SQL3143W **A maximum length of variable length column “<column-number>” exceeds the limitation of 240 bytes. Data from the column may be truncated.**

Explanation: The LOTUS 1-2-3** and Symphony** programs have a limit of 240 bytes for label records. Whenever a character field longer than 240 bytes is written to a worksheet format (WSF) file, the data will be truncated to 240 bytes.

Continue processing. Subsequent data entries for the column may be truncated.

User Response: Verify the output. If significant data from the column is lost because of truncation, investigate selecting the data from the column in several fields by substringing, or redesign the database.

SQL3144W The length of fixed length column “<column-number>” exceeds the 240-byte limitation. Data from the column may be truncated.

Explanation: The Lotus 1-2-3** and Symphony** programs have a limit of 240 bytes for label records. Whenever a character field longer than 240 bytes is written to a worksheet format (WSF) file, the data will be truncated to 240 bytes.

All data entries for the column are truncated with no additional messages written to the message log.

Continue processing.

User Response: Verify output. If significant data from the column is lost because of truncation, investigate selecting the data from the column in several fields by substringing, or redesign the database.

SQL3145W The data for row “<row-number>”, column “<column-number>” is being truncated to 240 bytes.

Explanation: The Lotus 1-2-3** and Symphony** programs have a limit of 240 bytes for label records. Whenever a character field longer than 240 bytes is written to a worksheet format (WSF) file, the data is truncated to 240 bytes. This message is preceded by message SQL3143 associated with the column.

Processing continues. The data is truncated.

User Response: Verify the output. If significant data from the column is lost because of truncation, investigate selecting the data from the column in several fields by substringing, or redesign the database.

SQL3146N The DATE or TIMESTAMP value for row “<row-number>” and column “<column-number>” is out of range.

Explanation: The value for a date or timestamp is not valid. A date value from 01-01-1900 to 12-31-2099 is valid for worksheet format (WSF) files.

The cell record is not created.

User Response: Compare the value in the output file with the input table. If necessary, correct the input value and resubmit the command or edit the data in the table.

SQL3147W More than 2048 rows were exported into a worksheet formatted file.

Explanation: The number of rows exported exceeds 2048. The first generation products cannot support more than 2048 rows.

Continue processing.

User Response: The rows beyond 2048 can be read only by second and third generation products.

SQL3148W A row from the input file was not inserted into the table. SQLCODE “<sqlcode>” was returned.

Explanation: The database operation to insert a row of data read from the input file failed. One or more of the fields in the input file is not compatible with the database field where the field is being inserted.

Processing continues with the next row of input data.

User Response: See the next message in the message file for the row number not inserted. Examine the input file and the database contents. If desired, modify the database or modify the input file and rerun the operation.

SQL3149N “<number-1>” rows were processed from the input file. “<number-2>” rows were successfully inserted into the table. “<number-3>” rows were rejected.

Explanation: This summary message tells how many rows of data were read from the input file, how many rows were successfully inserted into the database table, and how many rows were rejected. If using the `INSERT_UPDATE` option, the number of rows updated is the number of rows processed minus the number inserted and rejected.

User Response: None, because this is a summary message. The detail messages may suggest corrective action.

SQL3150N The H record in the PC/IXF file has product “<product>”, date “<date>”, and time “<time>”.

Explanation: Information is given about the product that created the PC/IXF file and when it was created.

User Response: No action is required.

SQL3151N No data conversion will be done from the single-byte code page value “<code-page>” in the H record to the application single-byte code page value “<code-page>” because the **FORCEIN** option was specified.

Explanation: No data conversion will be performed from the IXF code page to the application code page because the `FORCEIN` option was specified.

User Response: No action is required. If the conversion from the IXF file code page to the application code page is supported by the database manager, the operation can be resubmitted without the `FORCEIN` option and the data will be converted.

SQL3152N The double-byte code page value “<value>” in the H record is not compatible with the double-byte code page value “<value>” for the application. Data will be inserted because the **FORCEIN** option was specified.

Explanation: The double-byte code page values in the record and the application are not compatible. Because the `FORCEIN` option was used, the data is inserted.

User Response: No action is required.

SQL3153N The T record in the PC/IXF file has name “<name>”, qualifier “<qualifier>”, and source “<source>”.

Explanation: Optional information is given about the name of the table where data was extracted, the product that created the table, and the original source of the data.

User Response: No action is required.

SQL3154W The HCNT value in the H record and the CCNT value in the T record are not compatible. The CCNT value in the T record will be used.

Explanation: The HCNT value in the H record and the CCNT value in the T record do not agree.

The CCNT value in the T record is used.

User Response: Verify that the CCNT value is correct. If not, make the necessary changes to the HCNT or CCNT values and resubmit the command.

SQL3155W The name length field in the C record for column “<name>” is not valid. Data from the column will not be loaded.

Explanation: The value in the name length field in the C record for the indicated column is not valid.

Data from the indicated column is not loaded.

User Response: Change the name length field in the C record and resubmit the command.

SQL3156W The null field in the C record for column “<name>” is not valid. Data from the column will not be loaded.

Explanation: The null field in the C record for the indicated column is not valid.

Data from the indicated column is not loaded.

User Response: Change the null field in the C record and resubmit the command.

SQL3157W The type field in the C record for column “<name>” is not valid. Data from the column will not be loaded.

Explanation: The type field in the C record for the indicated column is not valid. The code page values may not be compatible with the column type.

Data from the indicated column is not loaded.

User Response: Change the type field in the C record and resubmit the command.

SQL3158W The single-byte code page field in the C record for column “<name>” is not valid. Data from the column will not be loaded.

Explanation: The single-byte code page field in the C record for the indicated column is not valid.

Data from the indicated column is not loaded.

User Response: Change the single-byte code page field in the C record and resubmit the command.

SQL3159W The double-byte code page field in the C record for column “<name>” is not valid. Data from the column will not be loaded.

Explanation: The double-byte code page field in the C record for the indicated column is not valid.

Data from the indicated column is not loaded.

User Response: Change the double-byte code page field in the C record and resubmit the command.

SQL3160W The column length field in the C record for column “<name>” is not valid. Data from the column will not be loaded.

Explanation: The column length field in the C record for the indicated column is not valid.

Data from the indicated column is not loaded.

User Response: Change the column length field in the C record and resubmit the command.

SQL3161W The precision field in the C record for column “<name>” is not valid. Data from the column will not be loaded.

Explanation: The precision field in the C record for the indicated column is not valid.

Data from the indicated column is not loaded.

User Response: Change the precision field in the C record and resubmit the command.

SQL3162W The scale field in the C record for column “<name>” is not valid. Data from the column will not be loaded.

Explanation: The scale field in the C record for the indicated column is not valid.

Data from the indicated column is not loaded.

User Response: Change the scale field in the C record and resubmit the command.

SQL3163W **The column length field in the C record for floating point column “<name>” is blank. A value of 00008 will be used.**

Explanation: The column length field in the C record for the indicated column is blank.

A column length of 00008 is used.

User Response: No action is required.

SQL3164W **The column length field in the C record for floating point column “<name>” is not valid. Data from the column will not be loaded.**

Explanation: The column length field in the C record for the indicated column is not valid. The indicated column is a floating point column.

Data from the indicated column is not loaded.

User Response: Change the column length field in the C record and resubmit the command.

SQL3165W **The column type field “<type>” in the C record for column “<name>” is not valid. Data from the column will not be loaded.**

Explanation: The column type in the C record for the indicated column is not valid.

Data from the indicated column is not loaded.

User Response: Change the column type field in the C record and resubmit the command.

SQL3166W **No PC/IXF column was specified to be loaded into database column “<name>”, or the specified PC/IXF column does not exist. Nulls will be inserted.**

Explanation: Either there was not a PC/IXF column specified to be loaded into the indicated column, or the specified PC/IXF source column does not exist.

Null values are loaded for the indicated column.

User Response: No action is required. If nulls are not acceptable for this column, check the

METHOD parameter for erroneous names or positions or for fewer entries in the *METHOD* parameter than columns stated in or implied by the *Action String* (e.g. "REPLACE into ...") parameter.

SQL3167W **The PC/IXF column specified to be loaded into database column “<name>” is not valid. Nulls will be inserted.**

Explanation: Values in the PC/IXF column cannot be loaded into the indicated database column and the reason is given in a previous message in the log.

Null values are loaded for the indicated column.

User Response: Read the previous messages to understand why the column is not valid.

SQL3168W **The PC/IXF column specified to be loaded into database column “<name>” is not compatible with the database column. Nulls will be inserted.**

Explanation: The source PC/IXF and the target database column types or lengths may not be compatible.

Null values are loaded for the indicated column.

User Response: Compare the columns in the source PC/IXF file and the database.

SQL3169N **The FORCEIN option may be used to make the PC/IXF column “<name>” acceptable for loading into database column “<name>”.**

Explanation: This is for information only about the optional use of the *FORCEIN* option.

User Response: No action required.

SQL3170W **The end of the file was reached within a row of data. The partial row of data was not loaded.**

Explanation: The end of the file was reached before the end of the current row of data. The

file may contain only part of the expected data.

The partial row of data is not loaded.

User Response: If the PC/IXF file was copied from one medium to another, compare the copy with the original or repeat the copy process.

SQL3171W A non-label record was found in the column header row. The record was not processed.

Explanation: The IMPORT utility expects only label records in the column header row (row one) of the worksheet format (WSF) file.

The system does not process the record and continues to the next record.

User Response: Remove all data and information except the column headers from the first row of the spreadsheet file. Resubmit the command.

SQL3172W The specified input column "<name>" was not found. The corresponding database column will contain null values.

Explanation: The specified input column was not found in the input spreadsheet file. The database column is nullable and contains null values.

User Response: Verify the specified input column name.

SQL3173N The inserted data for column "<name>" will always contain fewer characters than the column width.

Explanation: The database column width is larger than the maximum worksheet format (WSF) label record.

Continue processing.

User Response: No action is required.

SQL3174W The data type "<type>" of the database column "<name>" is not compatible with any WSF column type. Null values will be inserted for this column.

Explanation: The database column type is not valid for a worksheet format (WSF) file. Because the column is nullable, nulls are imported for the column.

User Response: If nulls are not acceptable for the column, do one of the following:

- Edit the data in the table.
- If possible, use another compatible column in the database table as the target column and resubmit the command.
- Redefine the database table so that the columns are compatible with the columns imported from the WSF file, and resubmit the command.

SQL3175W The input record for database row "<row>", column "<column>" is not valid.

Explanation: The record in the spreadsheet file is not compatible with the data type of the database column. If the database column is a graphic data type, the input data may contain an odd number of bytes.

If the column is nullable, a null is inserted. If the column is not nullable, the row is not imported.

User Response: Either edit the data in the table or verify that the data in the spreadsheet file is valid for importing into a database manager database and resubmit the command.

SQL3176W The value for row "<row>", column "<column>" in the WSF file is out of range for a date value.

Explanation: The record in the spreadsheet file contains a value that is too large or too small to represent a valid worksheet format (WSF) date. A valid WSF date is between 1 and 73050, inclusive.

If the column is nullable, a null is inserted. If the column is not nullable, the row is not imported.

User Response: Either edit the data in the table or verify that the data in the spreadsheet file is valid for import into a database manager database and resubmit the command.

SQL3177W **The value in the WSF file for row “<row>”, column “<column>” is out of range for a time value.**

Explanation: The record in the spreadsheet file contains a value that is either too large or too small to represent a valid worksheet format (WSF) time. A WSF time is a value equal to or greater than zero, but less than one.

If the column is nullable, a null is inserted. If the column is not nullable, the row is not imported.

User Response: Either edit the data in the table or verify that the value to be imported is a time value in the input spreadsheet file and resubmit the command.

SQL3178W **The type of record in the WSF file for database row “<row-number>”, column “<column-number>” is not valid for representing a time value.**

Explanation: The input value is an integer value. A time value must be represented by a floating point number or a fraction of a day in a worksheet format (WSF) spreadsheet file.

If the column is nullable, a null is inserted. If the column is not nullable, the row is not imported.

User Response: Either edit the data in the table or verify that the value to be imported is a time value in the input spreadsheet file and resubmit the command.

SQL3179W **Row “<row>” in the input file is missing data for inserting into a non-nullable column in the database. The row was not inserted.**

Explanation: The row of data from the input file has missing or not valid data for a non-nullable column. The values in the remaining database columns in that row are not inserted.

Processing continues with the next row. The row is not inserted.

User Response: Either edit the data in the table or verify that the data in the spreadsheet file is valid for inserting into a database manager database.

SQL3180W **Insert diskette “<number>” into drive “<drive>”.**

Explanation: This is a request for the application to prompt the user to place the specified diskette in the specified drive.

The utility is waiting to be called again after the user puts the diskette in the drive.

User Response: Prompt the user for the diskette and then return to the utility with the *callerac* parameter indicating whether processing continues or ends.

SQL3181W **The end of the file was reached before the expected ending record was found.**

Explanation: During the load of a PC/IXF file created by the database manager, the A record of subtype E that is expected as the last A record was not found.

The input file probably is damaged.

Continue processing.

User Response: Check for data that was not loaded. If data is missing, edit the table or change the input file and resubmit the command. If the PC/IXF file was copied from one medium

to another, compare the copy with the original or repeat the copy process.

SQL3182W Insert diskette “<number>” into drive “<drive>”. The diskette that is currently inserted is not the right diskette or the continuation diskette is not valid.

Explanation: During the load of a PC/IXF file that is contained on more than one diskette, a request to insert a diskette was sent to the application, a confirmation that the diskette is in the drive was returned but the continuation file is not there or is not valid. This action does not apply to the first diskette.

The utility waits for a response from the application to either continue processing or stop processing.

User Response: Have the user verify that the correct diskette is in the drive. If the correct diskette is in the drive, call the utility again with the *callerac* parameter set to stop processing.

SQL3183W Multiple delimiter overrides in the *filetmod* parameter are not separated by blanks.

Explanation: At least one COLDEL, CHARDEL or DECPT keyword in the *filetmod* parameter is not at the beginning of the *filetmod* parameter and does not follow a blank (space). This condition may arise during the LOAD/IMPORT or export of delimited ASCII (DEL) files.

The utility stops processing. The erroneous delimiter overrides are ignored.

User Response: Resubmit the command with a correct *filetmod* parameter.

SQL3185W The previous error occurred while processing data from row “<row-number>” of the input file.

Explanation: This message provides the identification of the row where the error occurred for the previous message listed in the message file (for example, SQL3306).

User Response: No action is required.

SQL3186W Data was not loaded into the database, because the log was full. SQLCODE “<sqlcode>” was returned. A commit will be attempted and the operation will continue if the commit is successful.

Explanation: The utility could not insert a row of data into the database because the database transaction log is full.

The completed database transactions are committed and the insert is tried again. If the repeated insert continues to indicate that the log is full, the utility stops processing.

User Response: Be aware that a subsequent failure of the utility causes the database to roll back to the state after the last commit, not to the state before the utility was initially called.

SQL3187W An error occurred while creating an index. SQLCODE “<sqlcode>” was returned.

Explanation: The IMPORT utility was creating an index when an error occurred. An index may already exist for some table.

This error occurs only during the import of a PC/IXF file.

The utility continues processing. The file was imported, but the index was not created on the table.

Federated system users: in addition to the previously listed cause, this error can occur when a CREATE NICKNAME statement was issued at federated server and the table at the data source had an index or indexes with too many columns, or the total index row size could not be represented in the federated server catalog. The “<sqlcode>” in the message provides further information about the problem encountered.

User Response: Read the next message in the message log (SQL3189) for the name of the index that was not created. Create the index with the CREATE INDEX command.

Federated system users: select from the data source catalog and the federated server catalog to determine which index or indexes were not created in the federated server catalog. Either:

- Create the indexes using the CREATE INDEX command. Remember to truncate columns as appropriate in order to not violate limits which caused the index to not be created in the first place.
- Do nothing and allow federated server to function without knowledge about the index.

Both of the previously listed options have potential performance implications.

SQL3188N An error occurred while erasing the contents of the table.

Explanation: When running LOAD/IMPORT with the REPLACE option, the specified database table is truncated before inserting the data back into the table. An error occurred during the truncation processing.

The utility ends with an error.

User Response: Resubmit the command.

SQL3189N The previous message refers to index "<name>" with columns "<column list>".

Explanation: This message always follows message SQL3187 when an error occurs while creating an index. "<name>" is the name of the index where the create failed. "<column list>" is a string of index column names. Each column name in the string is preceded by a plus (+) or a minus (-) sign indicating ascending or descending order.

The utility continues processing.

User Response: Manually create the index with the CREATE INDEX command.

SQL3190N The indexixf option is not valid for this Import operation.

Explanation: If INDEXIXF is used in the *filetmod* parameter of the IMPORT command, each of the

following is also required:

- The IMPORT must be replacing the contents of a table.
- The *METHOD* parameter must be null.
- Each IXF column must be targeted to a database column with the same name.

The utility stops processing. No data is imported.

User Response: Resubmit the command either without the INDEXIXF option or with the other parameters that are valid with the INDEXIXF option.

SQL3193N The specified view or summary table cannot be updated. You cannot LOAD/IMPORT into this view or LOAD into this summary table.

Explanation: The LOAD/IMPORT utility can be run against a view only if the view can be updated. The specified view is defined such that data in it may not be changed. The LOAD utility can be run against a summary table only if the summary table is not replicated. The specified table is a replicated summary table.

The LOAD/IMPORT utility stops processing. No data is inserted.

User Response: Resubmit the command with the name of a table or a view that can be updated.

SQL3194N The specified table is a system table. You cannot load a system table.

Explanation: The utility cannot be run against a system table.

The utility stops processing. No data is loaded.

User Response: Resubmit the command with a valid table name.

SQL3195W The diskette “<number>” in drive “<drive>” cannot be used for the output file. Insert a formatted diskette with writable free space.

Explanation: The EXPORT utility cannot use the current diskette for exporting to a PC/IXF file for one of the following reasons:

- The output file cannot be opened on the diskette. The diskette may be unformatted.
- Not enough free space is available on the diskette.

This warning code is a request for the application to prompt the user to place another diskette in the specified drive.

The utility is waiting to be called again after the user puts the diskette in the drive.

User Response: Prompt the user for the diskette and then return to the utility with the *callerac* parameter indicating whether processing continues or ends.

SQL3200 - SQL3299

SQL3201N The specified table cannot be replaced because another table is dependent on it.

Explanation: A table that is a parent in a relationship with another table cannot be replaced.

The command cannot be processed.

User Response: Select a different option, such as INSERT, or select a different target for the utility operation.

SQL3203N The INSERT_UPDATE option is not permitted for the specified target because it has no primary key or all columns are in the primary key.

Explanation: The INSERT_UPDATE option is only valid when the target table has a primary key and the target columns include all columns of the primary key. In addition, the target table

SQL3196N The input file was not found.

Explanation: The source file to be loaded into a database could not be found in the path indicated by the *datafile* parameter.

The command cannot be processed.

User Response: Verify that the input file does exist and that the path to it is correct.

SQL3197N An attempt was made to execute multiple copies of import or export.

Explanation: An attempt was made to execute more than one instance of the import or export utility on a system where this is not supported.

The command cannot be processed.

User Response: Resubmit the second operation when no other processes are attempting to execute the same utility.

should contain at least one column that is not part of the primary key.

The command cannot be processed.

User Response: Select a different option such as INSERT, or choose a different target for the utility operation.

SQL3204N The INSERT_UPDATE option may not be applied to a view.

Explanation: The INSERT_UPDATE option is not valid for views and a view has been selected as the target of the utility operation.

The command cannot be processed.

User Response: Select a different option such as INSERT, or choose a different target for the utility operation.

SQL3205N The specified view cannot be replaced because the base table has a dependent.

Explanation: A view whose base table is a parent table in a referential relationship with any table (including itself) cannot be replaced.

The command cannot be processed.

User Response: Select a different option such as INSERT, or choose a different target for the utility operation.

SQL3206N The specified view cannot be replaced because its definition involves a subquery.

Explanation: A view whose definition involves a subquery cannot be replaced. If the view definition depends on the definition of other views, the other views cannot contain subqueries. The use of a subquery anywhere in the definition of any view on which the target view is based prohibits the REPLACE option.

The command cannot be processed.

User Response: Select a different option, such as INSERT, or choose a different target for the utility operation.

**SQL3207N Invalid table-list provided.
Reason code "<reason-code>".**

Explanation: The traversal-order-list/subtable-list provided is invalid. The explanation for the reason code is:

1. Tables specified in the traversal-order-list are not in PRE-ORDER fashion.
2. Tables specified in the traversal-order-list are not connected.
3. Mismatch of schema name found in traversal-order-list/subtable-list.
4. With REPLACE option, some subtables are missing in the traversal-order-list.
5. Subtable-list is not equal to or a subset of the traversal-order-list.

User Response: The user action, based on the reason code, is:

1. Make sure the traversal-order-list is in PRE-ORDER fashion.
2. Make sure all tables in the traversal-order-list are connected.
3. Make sure schema names are consistent.
4. When REPLACE option is used, make sure all subtables in the hierarchy are included.
5. Make sure subtable-list is equal to or is a subset of the traversal-order-list.

SQL3208W Importing data from typed tables into regular table.

Explanation: User specified to import data from typed tables into regular table. Please note, object_id column will not be cast while importing.

User Response: Please make sure such operation is intentional.

SQL3209N Import with CREATE option does not allow renaming subtable name nor attribute names.

Explanation: When CREATE option is used, neither subtable name nor attribute names can be renamed.

User Response: Please check your IMPORT command and make sure no subtable-list is specified.

SQL3210N Option "<option>" is not compatible with hierarchy in "<command-name>".

Explanation: "<option>" is not compatible with hierarchy in EXPORT, IMPORT, or LOAD.

User Response: Please check the command syntax for hierarchical support.

SQL3211N LOAD does not support typed tables.

Explanation: LOAD does not support typed tables. Please consider IMPORT instead.

User Response: Please use IMPORT to bring hierarchical data into the database.

SQL3212N **The TERMINATE option of the LOAD command is not currently supported for tables with DATALINK column(s), or table spaces in delete pending state.**

Explanation: An attempt was made to terminate a crashed, interrupted, or forced LOAD operation against a table which contains DATALINK column(s), or a table which resides in table space(s) in delete pending state. These are not currently supported.

User Response: Use the RESTART option of the LOAD command to recover a crashed, interrupted, or forced LOAD operation.

SQL3213I **The indexing mode is “<mode>”.**

Explanation: The indexing mode values are a follows:

REBUILD

indexes will be completely rebuilt

INCREMENTAL

indexes will be extended

DEFERRED

indexes will not be updated, but will be marked as requiring refresh prior to next access.

User Response: No action is required.

SQL3214N **The LOAD utility does not support deferred indexing for tables with unique indexes.**

Explanation: An indexing mode of DEFERRED was specified for a table that has unique indexes. This is not valid.

User Response: Specify an indexing mode of AUTOSELECT, REBUILD or INCREMENTAL, and reissue the command.

SQL3215W **The Load utility currently does not support INCREMENTAL indexing when loading into a DMS table space on tables where the table’s index object resides in the same table space as any of the other target table’s objects, and the COPY option is also specified. The REBUILD indexing mode will be used instead.**

Explanation: INCREMENTAL indexing mode is not supported for this operation. REBUILD indexing mode is used instead.

User Response: The user can avoid this warning by defining the index in a table space that is not shared by other objects in the table to be loaded. Alternatively, avoid use of the COPY option. Please refer to the DB2 documentation for a full list of alternatives to the COPY option.

SQL3216W **The table’s index object was not consistent at the time the load utility began. INCREMENTAL indexing cannot be performed during this load utility operation. The REBUILD indexing mode will be used instead.**

Explanation: INCREMENTAL indexing can only be used on tables that have a consistent index object at the time the load utility begins. Loading with indexing mode REBUILD causes the table index to be rebuilt in a consistent manner.

User Response: No action required.

SQL3217W **The INCREMENTAL indexing mode is supported only when using LOAD to append data using the INSERT INTO action. The current LOAD action is “<action>”. The utility will use indexing mode of “<mode>” instead.**

Explanation: INCREMENTAL indexing can only be used when appending data to a table using the load INSERT action. This feature is not supported with when loading with REPLACE,

RESTART, or TERMINATE actions.

User Response: No action necessary.

SQL3220W **Volume <volume-name> was not found in the <directory-name> directory. Copy the volume into this directory and continue the LOAD/IMPORT.**

Explanation: An attempt to LOAD/IMPORT a multiple IXF file was made, but one of the files is missing from the directory specified. LOAD/IMPORT tries to find the parts in the same directory as the first part.

The import will terminate.

User Response:

- Find the part and put it in the same directory as the first part. Then call LOAD/IMPORT again with *callerac* of SQLU_CONTINUE. The LOAD/IMPORT will continue processing the file.
- Terminate the LOAD/IMPORT by calling LOAD/IMPORT with a *callerac* of SQLU_TERMINATE.

SQL3221W **...Begin COMMIT WORK. Input Record Count = <count>**

Explanation: The import is about to attempt a COMMIT of the work performed.

User Response: If the SQL3222W message is not printed immediately after this message, then the COMMIT failed and you will need to check your table or view to see which records have been imported. You can then start the import again with a RESTARTCOUNT set to the number of records successfully imported to skip those rows and import the rest of the file. (If you had been doing a CREATE or REPLACE_CREATE or REPLACE, call the second import with INSERT option.)

SQL3222W **...COMMIT of any database changes was successful.**

Explanation: The COMMIT was successful.

User Response: None necessary if you get this message.

SQL3223N **The parameter of type pointer to <parameter> is not specified properly.**

Explanation: The parameter of type <parameter> is not specified properly. The types are one of "struct sqluimpt_in", "struct sqluimpt_out", "struct sqluexpt_out", "struct sqluload_in", "struct sqluload_out", "struct sqluunld_in", or "struct sqluunld_out". The pointer should be either a NULL pointer or should point to the appropriate structure and its sizeOfStruct field should be initialized to one of SQLUIMPT_IN_SIZE for struct sqluimpt_in, SQLUIMPT_OUT_SIZE for struct sqluimpt_out, SQLUEXPT_OUT_SIZE for struct sqluexpt_out, SQLULOAD_IN_SIZE for struct sqluload_in, SQLULOAD_OUT_SIZE for struct sqluload_out, SQLUUNLD_IN_SIZE for struct sqluunld_in or SQLUUNLD_OUT_SIZE for struct sqluunld_out.

The command cannot be processed.

User Response: Call the utility again with a proper parameter.

SQL3225N **The RESTARTCOUNT value is greater than the number of rows in the file. No rows were loaded.**

Explanation: The utility was called with a RESTARTCOUNT value which was greater than the number of rows in the input file resulting in no rows being loaded into the table/view.

User Response: Ensure that the RESTARTCOUNT value is correct or call the utility again with the REPLACE or INSERT option and a correct RESTARTCOUNT value.

SQL3227W Record token "<token1>" refers to user record number "<token2>".

Explanation: An error or warning was encountered during LOAD, IMPORT or EXPORT of a table. CPU parallelism was greater than 1 at the time the problem was encountered, and an SQL message was written which identified the user record with a special unique token. This message serves to map the unique record token to the record number of the source user data.

User Response: Refer to the original SQL message returned for appropriate action.

SQL3250N COMPOUND=<value> is an invalid value or is not allowed in conjunction with other import parameters.

Explanation: The COMPOUND=x option was specified for the import utility and cannot be processed due to one of the following reasons:

- It is invalid when the INSERT_UPDATE option is used.
- The database being imported to is accessed through a server or gateway of a previous release.
- The value is not within the allowed range of 1 to 100. (On DOS or Windows, the maximum value is 7).

User Response: Change the filemod option to correct the usage of COMPOUND=x.

SQL3251N "number" more errors occurred during the import.

Explanation: The utility encountered more errors than can be relayed in the sqlca (maximum number is 7) while using the COMPOUND option. Messages for these errors will not be printed to the message file.

The utility continues processing.

User Response: If you desire all the error messages for each row inserted during an import, do not use the COMPOUND option or use a COMPOUND value less than or equal to 7.

SQL3260N An unexpected error occurred when accessing the LDAP directory. Error code = "<error-code>".

Explanation: An unexpected error occurred when accessing the LDAP directory. The command can not be processed.

User Response: Record the message number (SQLCODE) and the error code. Use the Independent Trace Facility to obtain the DB2 trace. Refer to the Independent Trace Facility in the Troubleshooting Guide for information on how to use this facility. Then contact your IBM service representative.

SQL3261N The REGISTER LDAP command did not complete successfully because a required input parameter was not specified. Reason code = "<reason-code>".

Explanation: The REGISTER LDAP command did not complete successfully because a required input parameter was not specified as indicated by the following reason codes:

- 1 The Network Id parameter was not specified.
- 2 The Partner LU parameter was not specified.
- 3 The Transaction Program (TP) name parameter was not specified.
- 4 The Mode parameter was not specified.
- 5 The Netbios NNAME parameter was not specified.
- 6 The TCP/IP hostname parameter was not specified.
- 7 The TCP/IP service name parameter was not specified.
- 8 The IPX Address was not specified.
- 9 The computer name was not specified.
- 10 The instance name was not specified.

User Response: Re-submit the command with the required input parameter

**SQL3262N The TCP/IP service name
" <name>" is not valid.**

Explanation: The TCP/IP service name specified is not valid.

User Response: Ensure that the TCP/IP service name is configured and reserved in the local etc/services file, then re-submit the command. Alternatively, specify the port number that is assigned to the TCP/IP service name.

**SQL3263N The protocol type is not
supported.**

Explanation: The protocol type specified is not supported for the command.

User Response: Re-submit the command using a supported protocol type.

**SQL3264N The DB2 server has not been
registered in LDAP.**

Explanation: The command did not complete successfully because the DB2 server had not been registered in LDAP.

User Response: Register the DB2 server in LDAP using the REGISTER LDAP command. Then re-submit the command.

**SQL3265N An unexpected error occurred
during LDAP authentication.**

Explanation: Unable to authenticate the LDAP user due to unexpected LDAP system error.

User Response: Use the Independent Trace Facility to obtain the DB2 trace. Refer to the Independent Trace Facility in the Troubleshooting Guide for information on how to use this facility. Then contact your IBM service representative.

**SQL3266N The LDAP user password is
incorrect.**

Explanation: The specified password is not a correct password for the specified user Distinguished Name (DN).

User Response: Re-submit the command using the correct password.

**SQL3267N "<authid>" does not have
sufficient authority to perform the
requested command.**

Explanation: The command did not complete successfully because the LDAP user did not have sufficient authority to perform the required task.

User Response: Ensure that the LDAP user has the authorization to perform the operation.

**SQL3268N The LDAP schema is not
compatible with the current
release of DB2.**

Explanation: The LDAP schema defined at the server does not contain the definition for the DB2 object classes and/or attributes used in the current release of DB2.

User Response: Refer to the Administration Guide on how to extend the LDAP schema with DB2 object classes and attributes.

SQL3269N The LDAP server is not available.

Explanation: DB2 was not able to access information in the LDAP directory because the LDAP server was not available.

User Response: Perform the following actions:

1. Ensure that the LDAP server is active.
2. Verify that TCP/IP is configured correctly on your machine
3. Verify that the DB2LDAPHOST registry variable is set to the TCP/IP hostname and port number of the LDAP server by running the "db2set DB2LDAPHOST" command. If the DB2LDAPHOST is not set, you can set it by using the "db2set DB2LDAPHOST=<host-name>:<port-number>" command, where <host-name> is the TCP/IP hostname of the LDAP server and <port-number> is the TCP/IP port number of the LDAP server. The default port number is 389.

SQL3270N The LDAP user's Distinguished Named (DN) is not valid.

Explanation: The LDAP user's Distinguished Named (DN) is not valid.

User Response: Re-submit the command using a valid LDAP user's DN.

SQL3271N The LDAP user's Distinguished Name (DN) and/or password is not defined for the current logon user.

Explanation: When setting user preferences such as CLI configuration or DB2 registry variable, the LDAP user's DN and password must be defined for the current logon user.

User Response: Refer to the IBM eNetwork LDAP documentation on how to configure the LDAP user's DN and password for the current logon user.

SQL3272N The node "<node-name>" was not found in the LDAP directory.

Explanation: The command did not complete successfully because the node "<node-name>" was not found in the LDAP directory.

User Response: Ensure the node name is correct and re-submit the command.

SQL3273N The database "<database-alias>" was not found in the LDAP directory.

Explanation: The command did not complete successfully because the database "<database-alias>" was not found in the LDAP directory.

User Response: Ensure the database name is correct and re-submit the command.

SQL3274W The database was created successfully. However, the database was not cataloged in the LDAP directory. SQLCODE = "<sqlcode>".

Explanation: The database was created successfully. However, the database could not be cataloged in the LDAP directory because there was an error occurred during the operation.

User Response: Correct the error as indicated in the SQLCODE. Then catalog the database in the LDAP directory using the CATALOG LDAP DATABASE command.

SQL3275W The database was dropped successfully. However, the database was not uncataloged in the LDAP directory. SQLCODE = "<sqlcode>".

Explanation: The database was dropped successfully. However, the database could not be uncataloged in the LDAP directory because there was an error occurred during the operation.

User Response: Correct the error as indicated in the SQLCODE. Then uncatalog the database in the LDAP directory using the UNCATALOG LDAP DATABASE command.

SQL3276N Unable to obtain the LDAP naming context.

Explanation: Unable to query for the LDAP naming context for the LDAP server.

User Response: Contact your LDAP directory administrator to obtain the LDAP naming context for the LDAP server that you are using. If you are using IBM eNetwork Directory V2.1, this is the name of the LDAP suffix. Then set the naming context for the current machine using the "db2set DB2LDAP_BASEDN=<naming-context>" command.

SQL3277N **The database "<database-alias>" already exists in the LDAP directory.**

Explanation: The command did not complete successfully because another database of the same name already exists in the LDAP directory.

User Response: Re-submit the command using a different alias name.

SQL3278N **The node "<node>" already exists in the LDAP directory.**

Explanation: The command did not complete successfully because another node of the same name already exists in the LDAP directory.

User Response: Re-submit the command using a different alias name.

SQL3300 - SQL3399

SQL3300N **The records in the input file are not in the correct sequence.**

Explanation: The records in the worksheet format (WSF) file are expected to be in ascending order (row 1, col 1 ... row 1, col 256; row 2, col 1 ... row 2, col 256, and so on). Some damage has occurred to the WSF file or it was generated incorrectly, possibly with a level of the Lotus product not supported by the database manager.

The IMPORT utility stops processing.

User Response: Regenerate the WSF file with a supported level of the Lotus product.

SQL3301N **A BOF record was found in the middle of the input file.**

Explanation: A beginning-of-file (BOF) record must be the first record of a worksheet format (WSF) file. It cannot occur at any other location in the file. Some damage has occurred to the WSF file or it was generated incorrectly, possibly with a level of the Lotus product not supported by the database manager.

The IMPORT utility stops processing.

User Response: Regenerate the WSF file with a

SQL3279N **The command did not complete successfully because LDAP is disabled.**

Explanation: The command did not complete successfully because the LDAP support is disabled on the current machine.

User Response: If the LDAP support is installed, enable the LDAP support by running the command: "db2set DB2_ENABLE_LDAP=YES".

If the LDAP support is not installed, you need to run the setup program and select to install the LDAP support.

supported level of the Lotus product.

SQL3302N **An EOF record was found before any data was imported.**

Explanation: The input file is valid, but it did not contain any usable data to be imported. The first worksheet row is reserved for title information. The second worksheet row is used for column labels. Data begins in the third row.

The IMPORT utility stops processing.

User Response: Regenerate the worksheet format (WSF) file with valid data in the rows that the database manager uses for data.

SQL3303N **The file type must be IXF when using the CREATE or REPLACE_CREATE keywords in the Action String parameter.**

Explanation: File types other than IXF are not allowed with the CREATE or REPLACE_CREATE keywords in the *Action String* (e.g. "REPLACE into ...") parameter.

The IMPORT utility stops processing. No data is imported.

User Response: Change the file type to IXF, or use INSERT, INSERT_UPDATE or REPLACE.

SQL3304N The table does not exist.

Explanation: The parameters specified on the command require that the table exists.

The utility stops processing. No data is loaded.

User Response: Do one of the following:

- Resubmit the command with a table name of an existing table.
- If the input file is a PC/IXF file, resubmit the command with the CREATE option.

SQL3305N The table cannot be created because it already exists.

Explanation: The CREATE keyword indicates that a new table must be created but a table with the specified name already exists.

The IMPORT utility stops processing. No data is imported.

User Response: Either erase the existing table or use a keyword other than CREATE and resubmit the command.

SQL3306N An SQL error “<sqlcode>” occurred while inserting a row into the table.

Explanation: An SQL error occurred while inserting a row into the table.

If the SQL error is not severe the row will be rejected and the utility continues processing; otherwise the utility stops processing.

User Response: Examine other messages in the message file for details about the actual error and resubmit the command, if necessary.

SQL3307N The number of columns in the METHOD parameter does not match the number of entries in the Action String parameter, or a column specified in the METHOD parameter does not exist.

Explanation: The CREATE or REPLACE_CREATE option was specified on the IMPORT command. Either:

- If the NAMES or POSITIONS method indicator was specified in the *METHOD* parameter, the number of columns explicitly specified in *METHOD* is not equal to the number of columns explicitly specified in the *Action String* (e.g. "REPLACE into ...") parameter.
- If the DEFAULT method indicator was specified in the *METHOD* parameter, the number of columns in the PC/IXF file is less than the number of columns specified in the *Action String* parameter.
- One column specified in the *METHOD* parameter does not exist in the PC/IXF file.

The IMPORT utility stops processing. No table is created.

User Response: Either correct the columns specified in the *METHOD* and *Action String* parameters or correct the columns specified in the *METHOD* parameter.

SQL3308N The code page values of the PC/IXF column “<name>” are not compatible with the code page values for the application. The FORCEIN parameter was not specified.

Explanation: The code page values for the column and the application are not compatible. When the FORCEIN parameter is not specified, the data cannot be loaded if the conversion from the IXF file code page to the application code page is not supported.

The utility stops processing. No data is loaded.

User Response: To load data with these code

pages, resubmit the command with the *FORCEIN* option.

SQL3309N Column "<name>" in the PC/IXF file is defined as a graphic column. The *FORCEIN* parameter was not specified.

Explanation: During the load of a PC/IXF file, a graphic data column was encountered. Because the *FORCEIN* parameter was not used, the data cannot be loaded.

The utility stops processing. No data is loaded.

User Response: If you want to load the data with the graphic data, resubmit the command with the *FORCEIN* parameter.

SQL3310N Column "<name>" in the PC/IXF file is not valid.

Explanation: The CREATE or REPLACE_CREATE option was specified on the IMPORT command. A column with an invalid C record was found while importing the PC/IXF file.

The IMPORT utility stops processing. The table is not created.

User Response: Verify the column definition information in the input file.

SQL3313N The disk is full. Processing was ended.

Explanation: The disk or diskette is full. During the export to a PC/IXF file, either the PC/IXF data file is on a fixed disk, or the PC/IXF data file and the database are on the same drive, or the PC/IXF data file and the message file are on the same drive.

The EXPORT utility stops processing. The exported data is not complete.

User Response: Provide more space on the disk or diskette or specify that the data file be located on a different drive than the database or the message file and resubmit the command.

SQL3314N The date and time fields in an A record do not match the date and time fields in the H record.

Explanation: During the load of a PC/IXF file, an A record was found in the PC/IXF file, that contained run identification information (in the date and time fields) that differs from the run identification information in the header (H) record. This action does not apply to an A record at the start of a continuation file.

The input file has probably been damaged.

The utility stops processing.

User Response: Re-create the damaged file, or repair the damaged file to recover as much data as possible. Resubmit the command.

SQL3315N The volume fields in an A record of subtype C are not valid.

Explanation: During the load of a PC/IXF file that was created by Database Services, an A record was found in the PC/IXF file, that contained volume information (in the volume fields) that is not valid.

The input file has probably been damaged.

The utility stops processing.

User Response: Re-create the damaged file, or repair the damaged file to recover as much data as possible. Resubmit the command.

SQL3316N An I/O error occurred while closing part of the input file.

Explanation: During the load of a multiple part PC/IXF file, an I/O error occurred while the system was closing one of the files that make up the input PC/IXF file. This action does not apply to the last file in the group of files that make up the PC/IXF file.

The utility stops processing.

User Response: Resubmit the command.

SQL3317N The string pointed to by the filemod parameter contains conflicting information.

Explanation: The *filemod* string defines the generation and product family for the output WSF file. More than one generation or product family was defined in the string.

The utility stops processing. The output file is not created.

User Response: Change the *filemod* string to define only one generation and product family. Resubmit the command.

SQL3318N There are duplicate keywords in the filemod parameter.

Explanation: A COLDEL, CHARDEL, or DECPT keyword appears more than once in the *filemod* parameter. This condition may arise while using delimited ASCII (DEL) files.

The utility stops processing. No data is loaded or exported.

User Response: Resubmit the command with a correct *filemod* parameter.

SQL3319N An SQL error "<sqlcode>" occurred while creating the table.

Explanation: An SQL error occurred while creating the table.

The IMPORT utility stops processing. The table was not created. No data was imported.

User Response: Look at the SQLCODE (message number) in the message for more information. Make changes and resubmit the command.

SQL3320N There is no delimiter or decimal point character after a keyword in the filemod parameter.

Explanation: A COLDEL, CHARDEL, or DECPT keyword is located at the very end of the *filemod* parameter. There is no delimiter or decimal point character following the keyword.

This condition may arise while using delimited ASCII (DEL) files.

The utility stops processing. No data is loaded or exported.

User Response: Resubmit the command with a correct *filemod* parameter.

SQL3321C Data was not imported into the database because the log was full. Recovery was not successful. SQLCODE "<sqlcode>" was returned.

Explanation: The IMPORT utility could not insert a row of data into the database because the database transaction log was full. All work was committed, but the utility could not insert the row, because the database transaction log remains full.

The utility stops processing. All previous changes were committed, but the current row was not imported.

User Response: Check the amount of space remaining on the filesystem containing your database files. Consider increasing the maximum log size in the database configuration file.

SQL3322N An operating system semaphore error occurred.

Explanation: An error occurred in the wait/post semaphores.

The utility stops processing. For the EXPORT utility, data may be incomplete on the media. For the IMPORT utility, data not already committed is rolled back.

User Response: Stop and restart DB2 and resubmit the utility.

SQL3324N Column "<name>" has a type of "<type>" which is not recognized.

Explanation: A column of data returned by the SQL statement is not supported.

User Response: Correct the error and retry the command.

SQL3325W All the columns in row "**<row-number>**" have NULL values; the row will not be included in the WSF data file.

Explanation: When you are doing an export of a WSF file and the SELECT statement results in a row of all NULL values, the row will not be added to the WSF file. The total number of rows specified in message SQL3105N is the number of rows resulting from the SELECT statement and not the number of rows in the WSF file.

The command continues processing.

User Response: No action required. This is an informational message.

SQL3326N The column list following the table name in the Action String parameter is invalid.

Explanation: When you call IMPORT or LOAD with an *Action String* (e.g. "REPLACE into ...") parameter which contains a column list after the table name, this message will result if it is invalid. For example, the following *Action String* parameters will fail:

insert into tablea()
no columns within the parenthesis

insert into tablea(two words)
invalid column name

insert into tablea(grant.col1)
column name should not be qualified

insert into tablea(x1234567890123456789)
column name too long

insert into tablea(col1,col2)
missing column name

The command cannot continue.

User Response: Change the *Action String* parameter with a valid column list and call the utility again.

SQL3327N A system error occurred (reason code1 = "**<reason-code-1>**" and reason code2 = "**<reason-code-2>**").

Explanation: A system error occurred during processing.

The utility stops processing.

User Response: Record all error information from the SQLCA, if possible. Retain the message file. Terminate all applications using the database. Reboot the system. Restart the database. Try the command again.

If sufficient memory resources exist and the problem continues, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility.

SQL3330W In row "**<row-number>**" a character field has an odd length but its target database column is a graphic column. The row was not loaded.

Explanation: Only even length character fields can be loaded into graphic database columns.

The row is not loaded.

User Response: Either load the data to a new table using the CREATE option in the IMPORT command or do not load this column into this table.

SQL3331C The permission setting of a file (or directory) does not allow the specified access.

Explanation: This may accompany another error message. It indicates an attempt was made to get access to a file or directory in a way that is incompatible with the attributes of the file. One of the following may be the source of the difficulty:

- Opening a file for writing on a read-only device
- Opening a file for writing on a read-only file

- Opening a directory instead of a file
- Encountering a locking or sharing violation.

The command cannot be processed.

User Response: Retry the utility when the file is not in use, or retry the utility directing the output to a path and file that allows writing.

SQL3332C The maximum number of open files has been reached.

Explanation: This message may accompany another error message. It indicates that the maximum number of open files has been reached.

The command cannot be processed.

User Response: Terminate other applications to reduce the number of files open and retry the utility.

SQL3333C The file or directory does not exist.

Explanation: This message may accompany another error message. It indicates that a file or directory to be accessed does not exist or cannot be found.

The command cannot be processed.

User Response: Resubmit the command with the correct file name, including a valid path.

SQL3334C There is not enough storage available.

Explanation: This message may accompany another error message. It indicates there is not enough storage available to open the file.

The command cannot be processed.

User Response: Stop the application. Possible solutions include:

- Verify that your system has sufficient real and virtual memory.

- Remove background processes.

SQL3335C The file system is full.

Explanation: This message may accompany another error message. It indicates there is no available space for writing on the device.

The command cannot be processed.

User Response: To make space available on the device, delete unneeded files or direct the output data to a device with space available.

SQL3337N An I/O error occurred while writing data to the server.

Explanation: An I/O error has occurred while attempting to write data to a temporary file on the server (temporary files are created in the tmp directory under the sqllib directory for the instance of the database manager). The file system on the server may be full.

The utility stops processing. The database is unchanged.

User Response: Contact the System Administrator for the server to make space available on the server, and resubmit the command.

SQL3338N An I/O error occurred reading a temporary message file on the server.

Explanation: A system I/O error has occurred while attempting to read the temporary message file on the server.

The IMPORT operation is complete; however, the message file on the database client system may be empty or incomplete.

User Response: Query the remote database to determine if the utility operation was successful.

SQL3400 - SQL3499

SQL3400N **The method specified in METHOD is not valid for Non-Delimited ASCII files. It must be 'L' for locations.**

Explanation: When loading from a non-delimited ASCII file, columns must be selected by locations in the file.

The command cannot be processed.

User Response: Resubmit the command with a valid set of locations for the columns in the source file.

SQL3401N **The method specified in METHOD is not valid for any filetype.**

Explanation: The method for selecting columns in the file is not a value allowed for any *filetype*. Choose one of the following method indicators:

- P for positions
- N for names
- L for locations
- D for default

Further restrictions are based on *filetype*.

The command cannot be processed.

User Response: Resubmit the command with a valid method indicator.

SQL3402N **A beginning-ending location pair with both values zero was specified for non-nullable column "<name>".**

Explanation: A location pair with both the beginning and the ending location set to zero was specified for the indicated column, but the column is not nullable.

The command cannot be processed.

User Response: Resubmit the command with a valid set of locations for the columns in the source file.

SQL3403N **The beginning-ending location pair for inserting into column "<name>" is not valid.**

Explanation: The field specification for locating the input data for the indicated database column within the input non-delimited ASCII file is not valid. The field specification has one of the following errors:

- The beginning location is less than zero.
- The ending location is less than zero.
- The ending location is less than the beginning location.

The command cannot be processed.

User Response: Resubmit the command with a valid set of locations for the columns in the source file.

SQL3404N **The beginning-ending location pair for inserting into column "<name>" is not valid for a number.**

Explanation: The field specification for locating the data for the indicated database column within the input non-delimited ASCII file is not valid. The location pair defines a field longer than 50 bytes.

The command cannot be processed.

User Response: Resubmit the command with a valid set of locations for the columns in the source file.

SQL3405N **The beginning-ending location pair for insertng into column "<name>" is not valid for a date.**

Explanation: The field specification for locating data for the indicated database column within the non-delimited ASCII file is not valid. The location pair defines a field length that is not valid for an external representation of a date.

The command cannot be processed.

User Response: Resubmit the command with a

valid set of locations for the columns in the source file.

SQL3406N The beginning-ending location pair for inserting into column "<name>" is not valid for a time.

Explanation: The field specification for locating the data in the indicated database column within the input non-delimited ASCII file is not valid. The location pair defines a field length that is not valid for an external representation of a time.

The command cannot be processed.

User Response: Resubmit the command with a valid set of locations for the columns in the source file.

SQL3407N The beginning-ending location pair for inserting into column "<name>" is not valid for a timestamp.

Explanation: The field specification for locating the data for the indicated database column within the input non-delimited ASCII file is not valid. The location pair defines a field length that is not valid for an external representation of a timestamp.

The command cannot be processed.

User Response: Resubmit the command with a valid set of locations for the columns in the file.

SQL3408W The beginning-ending location pair for inserting into column "<name>" defines a field larger than the target column. Data may be truncated.

Explanation: The field specification for obtaining data from the input non-delimited ASCII file defines a field larger than the size (or maximum size) of the target database column.

The utility continues processing. Truncation occurs when necessary.

User Response: No action is required.

SQL3409W The beginning-ending location pair for inserting into column "<name>" defines a field shorter than the target fixed-length column. Data will be padded.

Explanation: The indicated database column is a fixed-length column. The field specification for obtaining data from the input non-delimited ASCII file defines a field smaller than the size of the target database column.

The utility continues processing. Values input to the indicated database column are padded with spaces as necessary, on the right.

User Response: No action is required.

SQL3410N The beginning-ending location pair for inserting into column "<name>" is not valid for a graphic column.

Explanation: The field specification for locating the input data in the ASCII file that is to be inserted into the indicated database column defines a field with an odd number of bytes.

The command cannot be processed.

User Response: Resubmit the command with a valid set of locations for the columns in the source file.

SQL3411W The field value in row "<row-number>" and column "<column-number>" is not valid for a graphic column. A null was inserted.

Explanation: The value in the field indicated is not an acceptable graphic column value. The value may contain an odd number of bytes. For DEL files, the value of the column number specifies a field in the indicated row. For ASCII files, the value of the column number specifies the byte location within the row where the value begins.

The row is not inserted.

User Response: If a null is not acceptable, correct the input file and resubmit the command,

or edit the data in the table.

SQL3412W **The field value in row "<row-number>" and column "<column-number>" is not valid for a graphic column but the target column is not nullable. The row was not inserted.**

Explanation: The value in the field indicated is not an acceptable graphic column value. The value may contain an odd number of bytes. A null cannot be inserted because the target column is not nullable. For DEL files, the value of the column number specifies a field in the indicated row. For ASCII files, the value of the column number specifies the byte location within the row where the value begins.

The row is not inserted.

User Response: No action is required. If the row is necessary, correct the input file and resubmit the command, or edit the data in the table.

SQL3413W **The field value in row "<row-number>" and column "<column-number>" is too short for the target column. A null was inserted.**

Explanation: The value in the specified field is not acceptable because it is too short for the target column. The value of the column number specifies the byte location within the row where the field begins.

A null value is inserted.

User Response: No action is required. If a null is not acceptable, correct the inner field and resubmit the command, or edit the data in the table.

SQL3414N **The temporary file "<filename>" could not be found.**

Explanation: At the end of the load phase a temporary file is created with information

necessary to restart the load. If the load is interrupted before this point, this file is not created.

This message indicates that this file could not be found during load restart.

The utility stops.

User Response: Depending on where the interrupt occurred, it may be possible to restart the load at the build phase.

SQL3415W **Failed to convert the field value in row "<row-number>" and column "<column-number>" from the codepage of the input data file to the codepage of the database. A null value was loaded.**

Explanation: The value in the field indicated cannot be converted from the codepage of the input data file to the codepage of the database.

User Response: If a null value is not acceptable, correct the input data file and resubmit the command, or edit the data in the table.

SQL3416W **Failed to convert the field value in row "<row-number>" and column "<column-number>" from the codepage of the input data file to the codepage of the database. The row was not loaded.**

Explanation: The value in the field indicated cannot be converted from the codepage of the input data file to the codepage of the database.

User Response: No action is required. If the row is necessary, correct the input data file and resubmit the command, or edit the data in the table.

SQL3500 - SQL3599

SQL3500W **The utility is beginning the "<phase>" phase at time "<timestamp>"**.

Explanation: This is an informational message indicating that a phase is about to begin and that the previous phase has ended. The phases are (in order of appearance):

- LOAD
- BUILD
- DELETE

During the LOAD phase, data is loaded into your table. If there are any indexes to be built, BUILD phase will follow the LOAD phase. If there were any duplicate keys found for a unique index, the DELETE phase will follow the BUILD phase.

If the LOAD is terminated before the end of the LOAD, you need to know the phase at which you should restart the LOAD.

User Response: No action is required.

SQL3501W **The table space(s) in which the table resides will not be placed in backup pending state since forward recovery is disabled for the database.**

Explanation: COPY NO was specified on the invocation of LOAD which results in the table space(s) in which the table resides being placed into backup pending state unless forward recovery is disabled for the database.

The utility continues.

User Response: No action is required.

SQL3502N **The utility has encountered "<number>" warnings which exceeds the total number of warnings allowed.**

Explanation: The number of warnings issued during the command has exceeded the total number of warnings that the user specified at invocation of the utility.

The utility terminates.

User Response: Ensure that the correct data is being loaded with the appropriate options or increase the number of warnings allowed. Resubmit the command.

SQL3503W **The utility has loaded "<number>" rows which equals the total count specified by the user.**

Explanation: The number of rows loaded has equaled the total number of rows that the user specified at invocation of the utility.

The utility has successfully completed.

User Response: No response required.

SQL3504W **A consistency point is being established.**

Explanation: Consistency points will be established at times other than the regular interval specified in the SAVECOUNT parameter at invocation when:

- the threshold for the amount of meta-data kept in memory or in temporary files has been reached.
- A device error occurred for the copy image and the load must terminate.

User Response: If the LOAD continues after this message, no action is required. If the LOAD terminates, it can be restarted after all errors are corrected (such as activating a device or decreasing the interval at which consistency points are to be established).

SQL3505N **The length specified in the filemod for the RECLN option is not in the valid range of 1 to 32767.**

Explanation: In the *filemod* parameter, the RECLN option was specified for an ASC file. The length specified is not valid.

User Response: Correct the length specified and resubmit the command.

SQL3506W **The value specified in the null indicator in row “<row-number>” and column “<column-number>” is not valid. A value of 'N' will be assumed.**

Explanation: For ASC files, a null indicator column can be specified for each data column and should contain either a 'Y' or a 'N'. A 'Y' indicates that the column is a null value and a 'N' indicates that the column contains data. If neither of these values are in the null indicator column, it is assumed to be a 'N' and data will be loaded into the column.

User Response: If the data or the null indicator are incorrect, correct the input file and resubmit the command.

SQL3507N **The column number specified for a null indicator is not in the valid range of 0 to 32767 or the null indicator parameter is not valid.**

Explanation: In the *null_ind* parameter, columns for null indicators were specified for an ASC file but one of the columns is not valid or the pointer passed in for the null indicators is not valid.

User Response: Correct the parameter and resubmit the command.

SQL3508N **Error in accessing a file or path of type “<file-type>” during load or load query. Reason code: “<reason-code>”. Path: “<path/file>”.**

Explanation: An error occurred while trying to access a file during load or load query processing. The utility stops processing.

User Response: If doing a load and the table space is not in load pending state, correct the problem and invoke the load utility again. If the table space is in load pending state, then invoke the load utility in RESTART or REPLACE mode, or restore a backup of the table space(s). The state of the table space can be determined using the LIST TABLESPACES command.

The following is a list of reason codes:

- 1** Unable to open the file.

This could be caused by an incorrect file name or insufficient authority to access the file/directory. Correct the problem and either restart or rerun the load.
- 2** Unable to read/scan the file.

This could be the result of a hardware error. If the error is a hardware error, take the appropriate action as specified in the *Troubleshooting Guide* for hardware problems and restart or rerun the load.
- 3** Unable to write to or change size of the file.

This could be the result of a disk full condition or a hardware error. Refer to the file type list below and either ensure there is enough space to run the load or specify a different location to be used. Restart or rerun the load. If the error is a hardware error, take the appropriate action as specified in the *Troubleshooting Guide* for hardware problems and restart or rerun the load.
- 4** The file contains invalid data.

A file required by the load contains incorrect data. See the action described for TEMPFILES_PATH.
- 5** Unable to close the file.

If the load cannot be restarted or rerun, contact your IBM service representative.
- 6** Unable to delete the file.

If the load cannot be restarted or rerun, contact your IBM service representative.
- 7** Parameter specified incorrectly. Refer to the list of file types to determine the parameter in error and rerun the load with a valid parameter.

The following is a list of file types:

SORTDIRECTORY

Ensure that the workdirectory parameter is specified properly. There must be enough combined space in all the

directories to hold twice the size of the index keys for the loaded data. For load insert and load restart there must also be room for twice the size of the index keys of the existing data in the table.

MSGFILE

Ensure that the messagefile parameter is specified properly. There must be enough disk space to write out the messages that occur during the load.

If this is a load query, ensure that the local message file parameter is NOT the same as the messagefile parameter used for the load whose status is being queried.

TEMPFILES_PATH

Ensure that the tempfiles path parameter is specified properly. See the *Data Movement Utilities Guide and Reference* for more details on this parameter.

SQL3509W The utility has deleted "<number>" rows from the table.

Explanation: When a table with a unique index is loaded, rows causing violation of uniqueness of an index will be deleted from the table during the delete phase. This message provides information on how many rows have been deleted.

User Response: No action is required.

SQL3510N The working directory for the sort phase cannot be accessed.

Explanation: One or more of the specified working directories for the sort phase either does not exist or has no read/write permission.

User Response: Ensure that the specified working directories exist and the read/write permission is setup correctly and resubmit the command.

SQL3511W The file named in row "<row-number>" and column "<column-number>" cannot be found. A null was loaded.

Explanation: The filename in the specified field cannot be found. There may be a data type mismatch.

For delimited ASCII (DEL) files, the value of the column number specifies the field within the row that contains the value in question. For ASCII files, the value of the column number specifies the byte location within the row where the value in question begins.

A null value is loaded.

User Response: Examine the input value. If necessary, correct the input file and resubmit the command or edit the data in the table.

SQL3512W The file named in row "<row-number>" and column "<column-number>" cannot be found, but the target column is not nullable. The row was not loaded.

Explanation: The filename in the specified field cannot be found. A null cannot be loaded because the output column in the table is not nullable.

For delimited ASCII (DEL) files, the value of the column number specifies the field within the row that contains the value in question. For ASCII files, the value of the column number specifies the byte location within the row where the value in question begins.

The row is not loaded.

User Response: Correct the input file and resubmit the command or edit the data in the table.

SQL3513N **The codepage of the file does not match the codepage of the database. The file cannot be loaded.**

Explanation: DB2CS files cannot be loaded into a database with a codepage that differs from the original database.

User Response: Change the codepage of the database and resubmit the command or use another filetype (such as PC/IXF) to move your data from the original database to the new database.

SQL3514N **A utility system error occurred. Function code: "<function>". Reason code: "<reason-code>". Error code: "<error-code>".**

Explanation: A system error occurred during database utility processing.

User Response: Different actions are required depending on the value of "<function>".

The possible function codes are:

- 1 - An error occurred while Load was sorting.
Try to restart the load. If the error persists, provide the function, reason code and error code to your technical service representative.
- 2 - An error occurred using the vendor sort utility.
Try the load again using the DB2 Client/Server sort utility instead of the vendor sort. To do this, reset the Profile Registry value at the server to blank. You may have to restart the Database Manager in order to pick up the new Profile Registry value. If the error persists, provide the function, reason code and error code to your vendor sort technical service representative.

SQL3515W **The utility has finished the "<phase>" phase at time "<timestamp>".**

Explanation: This is an informational message indicating that a phase has finished. The phases are (in order of appearance):

- LOAD
- BUILD
- DELETE

User Response: No action is required.

SQL3516N **The utility could not restart the load as specified.**

Explanation: The Load Utility detected discrepancies in the last consistency point performed by Load before failure occurred. This condition might be caused either by a system error or an invalid log file.

User Response: Restart the Load at the Build phase, to bring the table to a consistent state and create indexes (if applicable), or perform Load with the REPLACE option.

SQL3517N **An unexpected record was read from the input source.**

Explanation: The utility has encountered a record that is in a format that is not valid. The source may have been corrupted when copied from the original source.

Processing terminates.

User Response: Copy the record from the original source in binary and restart the LOAD.

SQL3518N **The data in the source is not compatible to the table to be loaded.**

Explanation: The source cannot be used to load this table because one of the following reasons:

- the table definition does not match the table definition of the source.
- the source was created on a different platform than the table that is being loaded.
- the source was created from a table that had a different codepage from the table that is being loaded.

User Response: Ensure that both the table and source are correctly specified. If you want to load data from a table with a different definition or from a different platform or codepage, use

another filetype such as IXF or DEL.

**SQL3519W Begin Load Consistency Point.
Input record count = "<count>".**

Explanation: The Load Utility is about to attempt to perform a Consistency Point to commit the table data that has already been loaded.

User Response: If message SQL3520W is not printed immediately after this message, then the Consistency Point failed. The Load will have to be restarted at the Build phase, to ensure that the table is brought back to a consistent state and all indexes (if any) created. It will then be possible to check which records have been loaded. Start the Load again with a RESTARTCOUNT set to the number of records successfully loaded to skip those rows and load the rest of the file.

If this message is followed by messages SQL3520W, then this message is informational only and no response is required.

SQL3520W Load Consistency Point was successful.

Explanation: The Consistency Point performed by Load was successful.

User Response: This is an informational message only. No response is required.

**SQL3521N The input source file
"<sequence-num>" was not
provided.**

Explanation: A load was invoked with multiple input files but not all the files were provided. For the DB2CS filetype, all the input source files that were created originally must be provided. For the IXF filetype, all the input source files must be provided in the correct order.

The utility terminates.

User Response: Restart the utility providing all the input source files and setting the RESTARTCOUNT appropriately for the data that was already loaded.

**SQL3522N A copy target cannot be provided
when both log retain and user
exits are disabled.**

Explanation: A copy target has been specified on invocation of load for a database that has both log retain and user exits disabled. Copy targets are not valid for such databases.

The utility stops processing.

User Response: Verify that the database should have log retain and user exits disabled and invoke the load without specifying a copy target.

**SQL3523W There are no messages to be
retrieved from the message file.
Reason code: "<rc>".**

Explanation: No messages are returned from a query of the LOAD temporary message file. The possible return codes are:

- 1 No LOAD temporary message file exists.
- 2 There are no messages in the LOAD temporary message file.

User Response: Ensure that a valid table name has been specified. If the table name is specified correctly and messages are expected, check the database monitor to verify that the utility is active and it is not waiting for resources such as locks. Note that the LOAD temporary message file will not be created until the LOAD utility is in progress and it will be deleted after the completion of the LOAD utility.

**SQL3524N Option "<option>" has an invalid
value of "<value>".**

Explanation: The value provided must be an integer value. Its range for each option is as follows:

1. TOTALFREESPACE: the value must be in the range of 0 to 100, and is interpreted as a percentage of the total pages in the table that are to be appended to the end of the table as free space.

2. PAGEFREESPACE: the value must be in the range of 0 to 100, and is interpreted as a percentage of each data page that is to be left as free space.
3. INDEXFREESPACE: the value must be in the range of 0 to 99, and is interpreted as a percentage of each index page that is to be left as free space when loading indexes.

The utility stops processing.

User Response: Correct the value and resubmit the command.

SQL3525W The "<option-1>" option is incompatible with the "<option-2>" option.

Explanation: Incompatible options have been provided to the utility.

User Response: Remove or modify one of the options and resubmit the command. See the Command Reference for more information on valid options.

SQL3526N The modifier clause "<clause>" is inconsistent with the current load options. Reason code: "<reason-code>".

Explanation: The load file type mode (modifier) indicated, is incompatible with your load/import/export command. This is because of one of the following reasons:

1. The current option requires that "reclen" and "noeofchar" be specified. One or more of these options are missing from your command.
2. The indicated option is inconsistent with the format of the input or output data file. (e.g. DEL, ASC, etc)

User Response: Check the requirements of the option you are using. Reissue the command using modifier clauses (file type modes) and utility options that are consistent. *
SQLULA_INVALID_CODEPAGE

SQL3527N The number specified in the FILETMOD parameter for the CODEPAGE option is not valid.

Explanation: In the FILETMOD parameter, the CODEPAGE option was invalid.

User Response: Correct the codepage number and resubmit the command.

SQL3528W The delimiter (column delimiter, string delimiter, or decimal point) specified in the CLP command may get translated from the application codepage to the database codepage.

Explanation: When a CLP command is sent from the client to the server, it may get translated from the codepage of client to the codepage of server, if they are different.

User Response: To ensure that delimiters are not converted, they should be specified in hex format.

SQL3530I The Load Query utility is monitoring Load progress on node "<node>".

Explanation: The Load Query utility was invoked in an MPP environment.

User Response: No action is necessary.

SQL3531I A LOAD RESTART has occurred.

Explanation: The RESTART option was given for the Load currently being queried.

User Response: No action is necessary.

SQL3532I The Load utility is currently in the "<phase>" phase.

Explanation: This is an informational message indicating the phase of the Load currently being queried.

User Response: No action is necessary.

SQL3533I **The Load utility is currently building index “<number>” of “<number>”.**

Explanation: This is an informational message returned if the Load currently being queried is in the BUILD phase.

User Response: No action is necessary.

SQL3534I **The Load DELETE phase is approximately “<number>” percent complete.**

Explanation: This is an informational message returned if the Load currently being queried is in the DELETE phase.

User Response: No action is necessary.

SQL3535W **The LOAD command parameter “<parameter-name>” is no longer supported; its value will be ignored by the LOAD utility.**

Explanation: Your LOAD command contains a parameter that is no longer supported.

User Response: Please refer to the DB2 documentation for information on temporary sort space for LOAD and suggestions related to LOAD performance tuning.

SQL3536N **Temporary table space “<table-space-name>” is full.**

Explanation: The LOAD utility has encountered a table space full condition while sorting index keys.

User Response: Ensure that there is enough space allocated to the temporary table space “<table-space-name>”, at least two times the total size of the indexes being built. Restart the LOAD utility.

SQL3537N **Sort memory could not be allocated during the execution of the LOAD utility.**

Explanation: Insufficient process virtual memory is available to the LOAD utility for sort processing.

534 Message Reference

User Response: Terminate the application on receipt of this message. Ensure there is enough virtual memory available for sort processing.

Possible solutions include:

- Disconnect all applications from the database and decrease the size of the sort heap parameter (sortheap) in the corresponding database configuration file.
 - Remove background processes and/or terminate other currently executing applications.
 - Increase the amount of virtual memory available.
-

SQL3538N **The LOAD QUERY utility failed because multiple LOADs are using the same temporary files path.**

Explanation: At least one other LOAD was invoked using the same TMPFILES PATH as the queried LOAD and is still in progress. The LOAD QUERY utility cannot uniquely determine which LOAD to query.

User Response: Use the TABLE parameter of LOAD QUERY instead.

SQL3539N **LOAD RESTART cannot proceed because LOAD TERMINATE has been attempted at least once.**

Explanation: LOAD TERMINATE can only be followed by LOAD TERMINATE.

User Response: User can proceed with LOAD TERMINATE only.

SQL3600 - SQL3699

SQL3600N **The IMMEDIATE CHECKED option of the SET CONSTRAINTS statement is not valid since the table "<table-name>" is not in the check pending state.**

Explanation: The data is checked for constraint violations only if the table is placed in the check pending state.

User Response: Use the SET CONSTRAINT statement with the OFF option to place a table in the check pending state.

sqlcode: -3600

sqlstate: 51027

SQL3601W **The statement caused one or more tables to automatically be placed in check pending state.**

Explanation: There are two situations where this occurs.

1. Setting a parent table in a referential structure requires dependent and descendent tables to be set in check pending. This is necessary to enforce referential integrity constraints. Adding a foreign key when the parent table is in a check pending state requires all new dependents and descendents of the parent table to be placed automatically in check pending.
2. Setting a base table that has dependent refresh immediate summary tables requires these dependent summary tables to be set in check pending. This is necessary to enforce the data relationship between the base table and the dependent summary table.

User Response: This is a warning message. The user must execute the SET INTEGRITY statement with the IMMEDIATE CHECKED option in order to validate the integrity on all the dependent and descendent tables.

sqlcode: +3601

sqlstate: 01586

SQL3602W **Check data processing found constraint violations and moved them to exception tables.**

Explanation: There are rows that violate constraints that were specified to be checked by the SET CONSTRAINTS statement execution. These were moved to exceptions tables.

User Response: Check the exception tables for rows that violate constraints. The rows have been deleted from the original table but can be corrected and transferred back from the exception tables.

sqlcode: +3602

sqlstate: 01603

SQL3603N **Check data processing through the SET CONSTRAINTS statement has found that constraint "<constraint-name>" has been violated.**

Explanation: A row has been found to violate a constraint defined on a table specified to be checked by the SET CONSTRAINTS statement.

User Response: The row has not been deleted from the table since the FOR EXCEPTION option was not used.

It is advisable to execute the SET CONSTRAINTS statement using the FOR EXCEPTION option when checking the data. The data may be corrected with the information from the exception table(s).

sqlcode: -3603

sqlstate: 23514

SQL3604N Exception table “<excp-table-name>” corresponding to table “<table-name>” in the SET CONSTRAINTS statement does not have the proper structure, has been defined with unique indexes, constraints or triggers, or is in the check pending state itself.

Explanation: The exception table corresponding to a table must have its definition similar to that of the original table. Optional columns for the utility are as specified in the relevant section of the documentation describing the exception tables. There must not be any constraints or triggers defined on the exception table. The exception table itself should not be in the check pending state.

User Response: Create the exception table as indicated in the relevant section of the documentation and re-run the utility.

sqlcode: -3604

sqlstate: 428A5

SQL3605N Table “<table-name>” named in the SET CONSTRAINTS statement is either not listed to be checked or is an exception table specified more than once.

Explanation: When the FOR EXCEPTION clause is specified in the SET CONSTRAINTS statement, this error could be caused by one of the following :

- The table is missing from the list of tables to be checked
- The table to be checked is the same as an exception table
- The exception table is specified for more than one table to be checked

User Response: Correct the table names and execute the command again.

sqlcode: -3605

sqlstate: 428A6

SQL3606N There is a mismatch in the number of tables being checked and in the number of exception tables specified in the SET CONSTRAINTS statement.

Explanation: There must be a one-to-one correspondence between the original tables and the exception tables provided in the list.

User Response: Create the missing exception table if not already done and specify it in the list in order to execute the command again.

sqlcode: -3606

sqlstate: 428A7

SQL3608N Cannot check or reset the Check Pending state on dependent table “<dep-table-name>” using the SET CONSTRAINTS statement while the parent table “<par-table-name>” is in the check pending state.

Explanation: The parent table must be clean (not in the check pending state) or be included in the invocation list in order to

- reset the check pending state of a dependent table
- check a dependent table.

User Response: Ensure that the parent table is not in check pending by executing the SET CONSTRAINT statement to check the parent table.

It is recommended to check the parent table first. It is also possible to check the dependent table and include the parent table in the invocation list. In this case, the command could still fail if there are constraint violations in the parent table and they are not deleted (ie., if the FOR EXCEPTION option is not used).

In the case of a referential cycle, all tables must be included in the invocation list.

sqlcode: -3608

sqlstate: 428A8

SQL3700 - SQL3799

SQL3700W **Device "<device>" is full. There are "<active-devices>" other active devices. Please mount new media or take appropriate action.**

Explanation: The media on the specified device is full. This device is one of the "<active-devices>" + 1 target devices to which unloaded data is being directed.

User Response: Take ONE of the following actions:

- Mount a new target media on the specified device and continue unloading by invoking unload with caller action 1 (SQLU_CONTINUE).
- OR
- If "<active-devices>" is not zero, continue the unload without this device by invoking the UNLOAD utility with the caller action 4 (SQLU_DEVICE_TERMINATE).
- OR
- Cancel the unload by invoking the UNLOAD utility with caller action 2 (SQLU_TERMINATE).

SQL3701W **The lobpaths parameter was specified, but the table does not contain any LOB or Long data. This parameter will be ignored.**

Explanation: The lobpaths parameter specifies a separate target for LOB and Long data. The table does not contain any LOB or Long data, so the targets specified by the lobpaths parameter will not be used.

User Response: No action required.

SQL3702W **Warning. SQLCODE "<sqlcode>" was received for device "<device>". Unload will attempt to continue without this device.**

Explanation: SQLCODE "<sqlcode>" was detected for the specified device which is one of the targets for the unload. Unload will continue

but will ignore this device.

User Response: The media loaded on the specified device will not contain any unloaded data and should not be included with the media supplied to the LOAD utility when the unloaded data is being loaded. In order to fix the problem with the device, look up the returned SQLCODE in the Message Reference.

SQL3703W **"<xxx>" of "<yyy>" number of type "<type>" pages have been unloaded and sent to be written out to the target media.**

Explanation: The table being unloaded consists of "<yyy>" pages of the specified type of data. "<xxx>" of these have been processed by the UNLOAD utility and have been sent to a media writer which will write the data to the target media.

"<type>" is one of:

- 0 for regular data
- 2 for Long data and allocation information
- 3 for LOB data
- 4 for LOB allocation information

Note that for Long and LOB data, "<xxx>" may be less than "<yyy>" when unload is complete, because unused space is not unloaded, but will be recreated when the data is reloaded.

Even for regular data, a final message where "<xxx>" = "<yyy>" may not be issued. Instead message 3105 is used to indicate that the unload completed successfully.

User Response: This is an informational message. No action is required.

SQL3704N **The num_buffers parameter specified is invalid.**

Explanation: The num_buffers parameter determines the number of buffers that the utility will use. The minimum is 2 if the lobpaths parameter is not specified and 3 if the lobpaths

parameter is specified. This is the minimum required to allow the utility to work. There is, however, an optimal number of buffers that the utility will use if this parameter is not specified. This optimal number is based on the number of internal processes that the utility will have running and whether or not the lobpaths parameter was specified. If the number of buffers specified is less than the optimal number, some processes will be waiting for buffers to use. Therefore, it is recommended to specify 0 for this parameter and let the utility choose the number of buffers. Only specify this parameter if, due to the size of the utility storage heap, it is necessary to limit the amount of memory that the utility uses.

User Response: Resubmit the command using a valid num_buffers parameter.

SQL3705N The buffer size parameter specified is not valid. The buffer size must be specified as 0 or be between 8 and 16384 inclusive. For multiple buffers, the total buffer size must not exceed 16384.

Explanation: The application calling the utility has supplied a buffer size parameter that is not valid. The buffer size is used to determine the internal buffer size. The value is the number of 4K pages that are obtained for this buffer. The value must be specified as 0 or be between 8 and 16384 inclusive. If there are multiple buffers, the number of buffers multiplied by the buffer size must not exceed 16384.

When 0 is specified:

- for a table whose regular data is in a database managed storage table space, the default buffer size chosen is the extent size for the table space or 8, whichever is larger.
- for a table whose regular data is in a system managed storage table space, the default buffer size chosen is 8.

User Response: Reissue the command with a valid buffer size.

SQL3706N A disk full error was encountered on "<path/file>".

Explanation: A disk full error was encountered during the processing of a database utility. The utility stops.

User Response: Ensure enough disk space is available for the utility or direct the output to other media such as tape.

SQL3707N The sort memory size parameter specified "<size1>" is not valid. The minimum size required is "<size2>".

Explanation: The sort memory size is not large enough for sorting the keys of the index(es).

User Response: Reissue the command with a valid sort memory size.

To ensure that only the minimum amount of storage is used, specify a value of 0 (to let it default). However, using more than the minimum should improve the performance of the sort.

SQL3783N An error was encountered while opening the copy location file. Open file error code is "<errcode>".

Explanation: During load recovery, an error was encountered while opening the copy location file. The operating system file open return code is returned.

User Response: Look at the error code in the message for more information. Correct the error, if possible, and resubmit the command.

SQL3784W Invalid data was encountered while reading from the copy location file. Failure occurred at line "<line-no>" with error type "<errtype>".

Explanation: During load recovery, invalid data was encountered while reading from the copy location file. The line number and error type are

returned. The utility waits for a response to continue.

User Response: Correct the data in the copy location file and return to the utility with the correct caller action parameter to indicate if processing should continue or terminate.

SQL3785N Load recovery for table “<schema.tablename>” at time “<timestamp>” on node “<node-number>” failed due to error “<sqlcode>” with additional information “<additional-info>”.

Explanation: A severe error occurred during load recovery. The utility stops processing.

(Note : if you are using a partitioned database server, the node number indicates which node the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: Examine the error code in the message for more information. Take corrective action and resubmit the command.

SQL3798W An invalid value was used for parameter “<parameter>” to invoke the roll-forward recovery API to continue load recovery.

Explanation: Load recovery is in progress and one of the parameters passed in is not valid for

SQL3800 - SQL3899

SQL3802N An invalid quiesce mode “<quiesce-mode>” was encountered.

Explanation: An invalid quiesce mode was passed to the quiesce API.

User Response: Resubmit the command with the correct parameters.

SQL3804N The index is invalid.

Explanation: An invalid index was encountered during the processing of a utility command.

the current state of load recovery.

User Response: Correct the value in error and return to the utility with the correct caller action parameter to indicate if processing should continue or terminate.

SQL3799W Load recovery for table “<schema.tablename>” at time “<timestamp>” on node “<node-number>” is pending due to warning “<sqlcode>” with additional information “<additional-info>”.

Explanation: A warning condition is encountered during load recovery. The utility waits for a response to continue.

(Note : if you are using a partitioned database server, the node number indicates which node the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: Examine the error code in the message for more information. Take corrective action and return to the utility with the correct caller action parameter to indicate if processing should continue or terminate.

User Response: Check in the *Administration Guide* to determine the appropriate way to revalidate the index and resubmit the command after the condition is corrected.

SQL3805N The state of the application or of one or more table spaces for the table specified prohibits the loadapi action or quiescemode “<action>”. Reason code = “<reason-code>”.

Explanation: The loadapi action (either quiescemode or callerac) passed to the load API is in conflict with either the state of the

application or the state of one or more table spaces for the table.

The possible reason codes are as follows:

- 01** the state of one of the table spaces for the table specified prohibits the loadapi action or quiescemode.
- 02** the application is not at the start of its logical unit of work. This condition prohibits the load action specified.
- 03** the state of the application prohibits the load action specified.
- 04** one or more of the table spaces for the table is already quiesced by the maximum number of quiescers.
- 05** system catalog table space cannot be quiesced.
- 06** load copy not allowed when table space is in backup pending state.
- 07** Attempt to restart a load at an incorrect phase

User Response: Corresponding to each of the above reasons:

- 01** Resubmit the command with the correct loadapi action or quiescemode, or correct the state of the table spaces for the table.

- 02** Resubmit the command with the correct load action or complete the current logical unit of work by issuing either a COMMIT or ROLLBACK.
- 03** Resubmit the command with the correct load action.
- 04** Determine which table spaces for the table have reached the maximum number of quiescers. QUIESCE RESET these table spaces.
- 05** Resubmit the command with a table which is not in the system catalog table space.
- 06** Resubmit the command omitting the copy parameter
- 07** Determine at which phase the load should be restarted and resubmit the command with the correct phase.

SQL3806N Not all table constraints are off for the table to be loaded.

Explanation: One or more constraints for the table to be loaded are still on when the load API is invoked.

User Response: Resubmit the command after all table constraints are turned off.

SQL3900 - SQL3999

SQL3901N A non-severe system error occurred. Reason code "<reason-code>".

Explanation: Processing ended because of a non-severe system error.

User Response: If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Then contact your technical service representative with the following information:

- Problem description
- SQLCODE and embedded reason code

- SQLCA contents if possible
- Trace file if possible.

SQL3902C A system error occurred. Further processing is not possible. Reason code = "<reason-code>".

Explanation: A system error occurred.

User Response: If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Then contact your technical service representative with the following information:

- Problem description
- SQLCODE and embedded reason code
- SQLCA contents if possible
- Trace file if possible.

SQL3910I Synchronization session completed successfully.

Explanation:

User Response:

SQL3911I Test synchronization session completed successfully.

Explanation:

User Response:

SQL3912I STOP completed successfully.

Explanation:

User Response:

SQL3913I STOP issued, but no synchronization session is currently active.

Explanation:

User Response:

SQL3914I A user interrupt was issued. The synchronization session stopped successfully.

Explanation:

User Response:

SQL3915I A user interrupt was issued before the results were uploaded to the satellite control server. The results will be uploaded during the next synchronization session.

Explanation:

User Response:

SQL3916I A STOP request was received. Synchronization session stopped successfully.

Explanation:

User Response:

SQL3917I A STOP request was received before the results were uploaded to the satellite control server. The results will be uploaded during the next synchronization session.

Explanation:

User Response:

SQL3918I Synchronization progress information was obtained successfully.

Explanation:

User Response:

SQL3919I A STOP request was received before the satellite could contact the satellite control server. Synchronization stopped successfully.

Explanation:

User Response:

SQL3920I The application version on this satellite does not match one that is available for the group of this satellite. Synchronization cannot occur.

Explanation: The application version reported by the satellite does not exist at the satellite control server.

User Response: Contact the help desk or your system administrator.

SQL3921I **This satellite is disabled at the satellite control server. Synchronization cannot occur.**

Explanation: When disabled, the satellite cannot synchronize.

User Response: Contact the help desk or your system administrator.

SQL3930W **There are no synchronization scripts to execute.**

Explanation: No synchronization scripts were downloaded to the satellite for execution.

User Response: Contact the help desk or your system administrator to ensure that synchronization scripts are available on the satellite control database for this satellite.

SQL3931W **The test synchronization session completed successfully. The satellite ID, however, could not be found in the satellite control database.**

Explanation: Either the satellite ID is not defined correctly on the satellite or this satellite has not been defined in the satellite control database.

User Response: If you use the DB2SATELLITEID registry variable, ensure that it is set to the unique ID for the satellite. If you are using the operating system logon ID as the satellite ID, ensure you log on using it.

SQL3932W **The test synchronization session completed successfully. The satellite's application version, however, is not set locally, or does not exist for this satellite's group at the satellite control server.**

Explanation: The application version on the satellite is different from any that are available for this satellite's group.

User Response: Ensure that the application version on the satellite is set to the correct value.

SQL3933W **The test synchronization session completed successfully. The release level of the satellite, however, is not supported by the release level of the satellite control server.**

Explanation: The release level of the satellite must be within the range of one level above to two levels below that of the satellite control server.

User Response: Contact the help desk or your system administrator.

SQL3934W **The test synchronization session completed successfully. This satellite, however, is disabled at the satellite control server.**

Explanation: The satellite has been placed in the disabled state at the satellite control server.

User Response: Contact the help desk or your system administrator.

SQL3935W **The test synchronization session completed successfully. This satellite, however, is in the failed state at the satellite control server.**

Explanation: The satellite is in the failed state at the control server.

User Response: Contact the help desk or your system administrator.

SQL3936W **No progress information is available.**

Explanation: The synchronization session has not reached a stage where the progress information has been logged, or there is no active synchronization session for this satellite.

User Response: Ensure the synchronication session is active, or try querying for progress information later.

SQL3937W **The application version for this satellite does not match one that is available for this satellite's group.**

Explanation: A satellite can only synchronize with a particular application version for its group. The application version for this satellite is not available for the satellite's group at the control server.

User Response: Ensure that the application version on the satellite is set to the correct value.

SQL3938W **An interrupt was issued during script execution. The synchronization session was stopped, but the satellite may be in an inconsistent state.**

Explanation: An interrupt was issued while the script execution phase of the synchronization process was being performed. The synchronization session was stopped but the satellite may be in an inconsistent state because a script may have been halted at an inappropriate place.

User Response: Contact the help desk or your system administrator.

SQL3942I **Synchronization session identifier was set successfully for the satellite.**

Explanation: The session identifier was set successfully for the satellite.

User Response: No action is required.

SQL3943N **Synchronization session identifier exceeds the maximum length of "<length>" characters.**

Explanation: The specified synchronization session identifier is longer than the allowed length of "<length>" characters.

User Response: Ensure that the identifier is no more than nnn characters.

SQL3944I **Synchronization session identifier was reset successfully for the satellite.**

Explanation: The session identifier was reset successfully for the satellite.

User Response: No action is required.

SQL3945I **Synchronization session identifier for the satellite was retrieved successfully.**

Explanation: The session identifier for this satellite was found and returned successfully.

User Response: No action is required.

SQL3946N **Synchronization session identifier operation failed.**

Explanation: The synchronization session identifier operation has failed for an unknown reason.

User Response: Ensure that the product is installed correctly. If the failure persists, contact DB2 service.

SQL3950N **A synchronization session is active. Only one synchronization session can be active.**

Explanation: Only one synchronization session can be active at a time.

User Response: Wait until the current synchronization session completes successfully before initiating another session.

SQL3951N **The satellite ID cannot be found locally.**

Explanation: Either the operating system logon was bypassed or the DB2SATELLITEID registry variable was not set.

User Response: If you are using the operating system logon ID as the satellite ID, log on to the operating system. If you use the DB2SATELLITEID registry variable, ensure that it is set to the unique ID for the satellite.

SQL3952N The satellite ID could not be found at the satellite control server.

Explanation: Either the satellite ID is not defined correctly on this satellite or this satellite has not been defined at the satellite control server.

User Response: If you use the DB2SATELLITEID registry variable, ensure that it is set to the unique ID for the satellite. If you are using the operating system logon ID as the satellite ID, ensure you log on using it. Otherwise, contact the help desk or your system administrator.

SQL3953N This satellite has been disabled at the satellite control server.

Explanation: The satellite ID has been disabled at the satellite control server.

User Response: Contact the help desk or your system administrator.

SQL3954N This satellite is in the failed state at the satellite control server.

Explanation: The satellite is in the failed state because a previous synchronization session failed.

User Response: Contact the help desk or your system administrator.

SQL3955N The satellite control database name its alias could not be found.

Explanation: The satellite control database is not cataloged correctly.

User Response: Contact the help desk or you system administrator.

SQL3956N The application version for this satellite is not defined locally.

Explanation: The application version is not defined locally on this satellite or is not defined correctly.

User Response: Ensure that the application version is set to the correct value.

SQL3957N Cannot connect to the satellite control server because of a communication failure: SQLCODE=“<sqlcode>” SQLSTATE=“<sqlstate>”, tokens=“<token1>”, “<token2>”, “<token3>”.

Explanation: An error has been detected by the communication subsystem. Refer to “<sqlcode>” for more details.

User Response: Contact the help desk or your system administrator.

SQL3958N Error occurred during synchronization session: SQLCODE=“<sqlcode>” SQLSTATE=“<sqlstate>”, tokens=“<token1>”, “<token2>”, “<token3>”.

Explanation: An unknown error has been detected by the communication subsystem. Refer to “<sqlcode>” for more details.

User Response: Contact the help desk or your system administrator.

SQL3959N Synchronization session cannot start because of a communication failure: SQLCODE=“<sqlcode>” SQLSTATE=“<sqlstate>”, tokens=“<token1>”, “<token2>”, “<token3>”.

Explanation: An error has been detected by the communication subsystem. Refer to “<sqlcode>” for more details.

User Response: Contact the help desk or your system administrator.

SQL3960N Cannot upload results to the satellite control server because of a communication failure:
SQLCODE=“<sqlcode>”
SQLSTATE=“<sqlstate>”,
tokens=“<token1>”, “<token2>”,
“<token3>”.

Explanation: An error has been detected by the communication subsystem. Refer to “<sqlcode>” for more details.

User Response: Contact the help desk or your system administrator.

SQL3961N Cannot authenticate with the satellite control server.

Explanation: An authentication error was detected while trying to connect to the satellite control database.

User Response: Either the remote administrative user ID or the password required to connect to the satellite control database was not correct, or both. Either provide the correct user ID and password, or contact the help desk or your system administrator.

SQL3962N Synchronization could not be started because of a database error: SQLCODE=“<sqlcode>”
SQLSTATE=“<sqlstate>”,
tokens=“<token1>”, “<token2>”,
“<token3>”.

Explanation: An error preventing synchronization occurred at the satellite control server.

User Response: Attempt to synchronize again. If failure persists, contact the help desk or your system administrator.

SQL3963N Results cannot be uploaded because of a database error:
SQLCODE=“<sqlcode>”
SQLSTATE=“<sqlstate>”,
tokens=“<token1>”, “<token2>”,
“<token3>”.

Explanation: An error occurred while uploading results to the satellite control server.

User Response: Contact the help desk or your system administrator.

SQL3964N Synchronization failed because the release level of the satellite is not supported by the satellite control server.

Explanation: The release level of the satellite must be within the range of one level above to two levels below that of the satellite control server.

User Response: Contact the help desk or your system administrator.

SQL3965N Cannot download the synchronization scripts because of a satellite control server failure:
SQLCODE=“<sqlcode>”
SQLSTATE=“<sqlstate>”,
tokens=“<token1>”, “<token2>”,
“<token3>”.

Explanation: The satellite cannot download the scripts that are required to synchronize the satellite. One possible reason for this failure is that the control server cannot instantiate parameterized scripts with the attributes of the satellite. Another reason is that the satellite control server was temporarily unable to complete the request because of resource constraints.

User Response: Try the request again. If the failure persists, contact the help desk or your system administrator.

**SQL3966N Synchronization session failed.
Reason code “<reason-code>”.**

Explanation: The synchronization session failed to complete for one of the following reasons:

- (01) Missing authentication information.
- (02) Some scripts required for synchronization are missing.
- (03) System files are corrupted or missing.
- (04) A system error prevented scripts from executing.

User Response: Try the request again. If failure persists, contact the help desk or your system administrator.

SQL3967N Progress information cannot be retrieved.

Explanation: Progress on this satellite’s synchronization session cannot be retrieved. Either the data is corrupt, or it does not exist.

User Response: If a synchronization session is active and no progress information is available, contact the help desk or your system administrator.

SQL3968N Synchronization failed to complete successfully because of a script failure. The results of the execution, however, were sent to the satellite control server.

Explanation: One of the synchronization scripts failed during execution. Either a return code was

not in the defined success code set, or the script failed to execute.

User Response: Contact the help desk or your system administrator.

SQL3969N Synchronization failed because an interrupt was received during script execution.

Explanation: Script execution fails when an interrupt is received. An abnormal termination of this type will cause the synchronization session to fail because the system may be in an inconsistent state.

User Response: Contact the help desk or your system administrator.

SQL3970N Synchronization session failed with, SQLCODE “<sqlcode>” SQLSTATE “<sqlstate>” The error was detected at location “<location>”.

Explanation: Script execution failed because of an unknown error.

User Response: Contact the help desk or your system administrator.

SQL4000 - SQL4099

SQL4001N The character “<character>” in column “<column>” on line “<line>” is not valid.

Explanation: The specified character is not a valid character in SQL statements.

The statement cannot be processed.

User Response: Remove or replace the character that is invalid.

SQL4002N “<token 1>” and “<token 2>” are undeclared host variables that cannot both be used as descriptor names in a single SQL statement.

Explanation: The specified identifiers have not been declared as host variables. Descriptor names are not declared before using. Because more than one descriptor name in a single statement is not valid, at least one of the host variables is not valid.

The statement cannot be processed.

User Response: Correct the use of descriptor names or undeclared host variables in the statement. Note that the statement can contain additional undeclared host variables.

SQL4003N The SQL statement on line “<line>” is not supported by this version of the precompiler.

Explanation: The release numbers of the precompiler and the installed version of the database manager are not compatible. The specified statement is supported by the database manager but not the precompiler.

The statement cannot be processed.

User Response: Repeat the precompile process with the current version of the precompiler.

SQL4004N The package name is not valid.

Explanation: The package name contains characters that are not valid. Either the name is too long or no name was specified with the PACKAGE option.

No package is created.

User Response: Resubmit the command with a valid package name or without the PACKAGE option.

SQL4005N An invalid token “<token>” was found starting in position “<position>” on line “<line>”.

Explanation: A syntax error in the SQL statement was detected at the specified token “<token>”.

The statement cannot be processed.

User Response: Examine the statement, especially around the specified token. Correct the syntax.

SQL4006N The structures are nested too deeply.

Explanation: The number of nested structures exceeded the maximum of 25.

The statement cannot be processed.

User Response: Reduce the number of nested structures.

SQL4007N The host structure “<host-structure>” has no fields.

Explanation: No field can be found within the host structure “<host-structure>”.

The statement cannot be processed.

User Response: Add a field to the host structure.

SQL4008N The host variable “<name>” cannot be uniquely referenced even with full qualification.

Explanation: The host variable “<name>” matches with at least one other unqualified or partially qualified host variable even with full qualification.

The command cannot be processed.

User Response: Rename the host variable.

SQL4009N The expression for data length is invalid.

Explanation: The expression for data length has syntax errors or is too complex.

The statement cannot be processed.

User Response: Check the syntax of the size expression.

SQL4010N Illegal nesting of Compound SQL statements.

Explanation: This error is returned when a BEGIN COMPOUND clause is detected as a sub-statement of a Compound SQL statement.

User Response: Resubmit the precompilation

without the nested BEGIN COMPOUND.

SQL4011N Invalid SQL sub-statement in a Compound SQL statement.

Explanation: This error is returned when an invalid sub-statement is detected in a Compound SQL statement. Valid statements are:

- ALTER TABLE
- COMMENT ON
- CREATE INDEX
- CREATE TABLE
- CREATE VIEW
- Positioned DELETE
- Searched DELETE
- DROP
- GRANT
- INSERT
- LOCK TABLE
- REVOKE
- SELECT INTO
- Positioned UPDATE
- Searched UPDATE
- COMMIT; only when specified as the last sub-statement.

User Response: Resubmit the precompilation without the invalid sub-statement.

SQL4012N Invalid use of COMMIT in a Compound SQL statement.

Explanation: This error is returned when a sub-statement is detected after a COMMIT has been found in a COMPOUND SQL statement.

User Response: Make the COMMIT sub-statement the last sub-statement, and resubmit the precompilation.

SQL4013N An END COMPOUND statement was found without a previous BEGIN COMPOUND statement.

Explanation: This error is returned when an END COMPOUND statement has been found

without a preceding BEGIN COMPOUND.

User Response: Either remove the END COMPOUND, or add a BEGIN COMPOUND, and resubmit the precompilation.

SQL4014N Invalid Compound SQL syntax.

Explanation: This error is returned when a Compound SQL statement contains a syntax error. Possible causes include:

- END COMPOUND is missing
- one of the substatements is empty (zero length or blank).

User Response: Fix the syntax error and re-precompile.

SQL4015N An error has occurred during preprocessing.

Explanation: The external preprocessor has terminated with one or more errors.

The command cannot be processed.

User Response: Please refer to the “.err” file for the corresponding source file for more details.

SQL4016N The preprocessor specified cannot be found.

Explanation: The preprocessor specified through the PREPROCESSOR option cannot be found.

The command cannot be processed.

User Response: Ensure that the preprocessor can be executed from the current directory, and also check the syntax of the PREPROCESSOR option.

SQL4017W Preprocessing has completed successfully.

Explanation: Preprocessing of the input file has completed successfully using the external command specified through the PREPROCESSOR option.

User Response: No action is required.

SQL4018W Starting to process the preprocessed file “<preprocessed-file>”.

Explanation: The precompiler is now processing the preprocessed file.

User Response: No action is required.

SQL4019W Completed processing the preprocessed file “<preprocessed-file>”.

Explanation: The precompiler has completed processing the preprocessed file.

User Response: No action is required.

SQL4100 - SQL4199

SQL4100I The “<sqlflag-type>” SQL language syntax is used for syntax checking by the flagger.

Explanation: The SQL statements that have passed the precompiler checking will be subject to checking against the specified syntax by the flagger. Warning message will be issued against the statement when there is a syntax deviation.

Processing continues.

User Response: None. This is an informational message only.

SQL4102W An SQL syntax deviation has occurred at the token starting with the text “<text>”.

Explanation: The flagger has detected a deviation from the SQL language syntax specified in the SQLFLAG precompiler option.

Processing continues.

User Response: Correct the SQL statement.

SQL4103W A data definition statement is not within a CREATE SCHEMA statement.

Explanation: The FIPS standard requires that all data definition statements are contained within a CREATE SCHEMA statement.

Processing continues.

User Response: Correct the SQL statement.

SQL4104W There is a non-standard embedded comment.

Explanation: A comment embedded in an SQL statement does not meet the requirements of the standard being flagged. The comment does not begin with at least two consecutive hyphens

Processing continues.

User Response: Correct the SQL statement.

SQL4105W An SQL syntax deviation has occurred. The statement is not complete.

Explanation: The SQL statement has terminated before all required elements have been found.

Processing continues.

User Response: Correct the SQL statement.

SQL4106W The identifier “<identifier>” is more than 18 characters.

Explanation: Authorization identifier, table identifier, column name, correlation name, module name, cursor name, procedure name, or parameter name has a length of more than 18 characters.

Processing continues.

User Response: Correct the SQL statement.

SQL4107W Column “<column>” has an invalid length, precision, or scale attribute.

Explanation: One of the following conditions has not been met:

- Length value should be greater than zero.
- Precision value should be greater than zero.
- Scale value should not be greater than precision.

Processing continues.

User Response: Correct the SQL statement.

SQL4108W An indicator variable has data type other than exact numeric, or has a non-zero scale.

Explanation: Data type of an indicator variable should be exact numeric with a scale of zero.

Processing continues.

User Response: Correct the SQL statement.

SQL4109W The SET FUNCTION SPECIFICATION references column "<column>".

Explanation: One of the following conditions has not been met:

- The COLUMN REFERENCE of a DISTINCT SET FUNCTION cannot reference a column derived from a SET FUNCTION SPECIFICATION.
- COLUMN REFERENCES in the VALUE EXPRESSION of an ALL SET FUNCTION cannot reference a column derived from a SET FUNCTION SPECIFICATION.

Processing continues.

User Response: Correct the SQL statement.

SQL4110W A VALUE EXPRESSION containing "<column>" cannot include operators.

Explanation: A VALUE EXPRESSION cannot include operators in an OUTER REFERENCE COLUMN REFERENCE.

Processing continues.

User Response: Correct the SQL statement.

SQL4111W The COLUMN REFERENCE is missing or is invalid for the ALL column function "<function>".

Explanation: The VALUE EXPRESSION of an ALL SET FUNCTION SPECIFICATION should include a COLUMN REFERENCE.

Processing continues.

User Response: Correct the SQL statement.

SQL4112W Column "<column>" is not unique and requires qualification.

Explanation: The specified column is not unique within the current scope. Qualification must be given to uniquely identify the required column.

Processing continues.

User Response: Correct the SQL statement.

SQL4113W A VALUE EXPRESSION may not contain a SET FUNCTION SPECIFICATION.

Explanation: The VALUE EXPRESSION of an ALL SET FUNCTION may not contain SET FUNCTION SPECIFICATION.

Processing continues.

User Response: Correct the SQL statement.

SQL4114W Column "<column>" does not identify a column of a table within the current scope.

Explanation: One of the following conditions has not been met:

- The table or correlation name used as a qualifier does not exist.
- The column name does not exist within the current scope or the scope of the qualifier.

Processing continues.

User Response: Correct the SQL statement.

SQL4115W A column function that contains the OUTER REFERENCE column “<column>” is not in the subquery of a HAVING clause.

Explanation: A column function must be contained in a subquery of a HAVING clause if it contains an OUTER REFERENCE COLUMN REFERENCE.

Processing continues.

User Response: Correct the SQL statement.

SQL4116W The result of a SUM or AVG function cannot be a character string.

Explanation: Character string is not valid for the result of a SUM or AVG SET FUNCTION SPECIFICATION.

Processing continues.

User Response: Correct the SQL statement.

SQL4117W Operator “<operator>” is invalid in this context.

Explanation: One of the following conditions has not been met:

- A VALUE EXPRESSION containing a DISTINCT SET FUNCTION cannot include dyadic operators.
- First character following a monadic operator cannot be a plus or minus sign.
- VALUE EXPRESSION should not contain operators if PRIMARY is of type character string.

Processing continues.

User Response: Correct the SQL statement.

SQL4118W The “<exptype>” EXPRESSION is comparing incompatible data types.

Explanation: The data types of one of the following (identified by exptype) do not match:

- exptype = COMPARISON - Comparison operators must match
- exptype = BETWEEN - The three VALUE EXPRESSIONs must match
- exptype = IN - VALUE EXPRESSION, subquery and all VALUE SPECIFICATIONs must match
- exptype = QUANTIFIED - VALUE EXPRESSION and subquery must match

Processing continues.

User Response: Correct the SQL statement.

SQL4119W The operand in the LIKE predicate is not a character string.

Explanation: One of the following conditions has not been met:

- Data type of the column in a LIKE predicate is not a character string.
- Data type of the pattern in a LIKE predicate is not a character string.

Processing continues.

User Response: Correct the SQL statement.

SQL4120W The ESCAPE character must be a one-byte character string.

Explanation: Escape character in a LIKE predicate must have the data type of character string with a length of 1.

Processing continues.

User Response: Correct the SQL statement.

SQL4121W The WHERE clause, GROUP BY clause, or HAVING clause is invalid for the grouped view “<schema-name>.”<view>”.

Explanation: If the table identified in the FROM clause is a grouped view, then the TABLE EXPRESSION must not contain a WHERE clause, GROUP BY clause, or HAVING clause.

Processing continues.

User Response: Correct the SQL statement.

SQL4122W “<schema-name>”.“<name>” occurs more than once in a FROM clause.

Explanation: One of the following conditions has not been met:

- Table name occurs more than once in a FROM clause.
- Correlation name is identical to a table name or to another correlation name in a FROM clause.

Processing continues.

User Response: Correct the SQL statement.

SQL4123W Only one table reference is allowed in the FROM clause for a GROUPED view.

Explanation: If the table identified by table name is a GROUPED view, then the FROM clause must contain exactly one table reference.

Processing continues.

User Response: Correct the SQL statement.

SQL4124W A reference to column “<column>” derived from a column function is invalid in a WHERE clause.

Explanation: A VALUE EXPRESSION directly contained in the SEARCH CONDITION of a WHERE clause must not include a reference to a column derived from a column function.

Processing continues.

User Response: Correct the SQL statement.

SQL4125W A HAVING clause must contain the WHERE clause when the WHERE clause has a column function.

Explanation: If a VALUE EXPRESSION directly contained in the SEARCH CONDITION is a

column function, then the WHERE clause must be contained in a HAVING clause.

Processing continues.

User Response: Correct the SQL statement.

SQL4126W The COLUMN REFERENCE for “<column>” must be an OUTER REFERENCE.

Explanation: If a VALUE EXPRESSION directly contained in the SEARCH CONDITION is a function, then the COLUMN REFERENCE in the column function expression must be an OUTER REFERENCE.

Processing continues.

User Response: Correct the SQL statement.

SQL4127W Column “<column>” is duplicated within the current scope.

Explanation: The specified column is duplicated within the current scope.

Processing continues.

User Response: Correct the SQL statement.

SQL4128W The COLUMN REFERENCE for “<column name>” should be a grouping column or should be specified within a column function.

Explanation: Each COLUMN REFERENCE contained in a subquery in the SEARCH CONDITION of a HAVING clause must reference a grouping column or be specified within a column function.

Processing continues.

User Response: Correct the SQL statement.

SQL4129W **DEGREE of table “<schema-name>”.“<table>” should be 1 when using a SELECT LIST of *.**

Explanation: The DEGREE of the TABLE EXPRESSION must be 1 if a SELECT LIST of * is specified in a subquery of any predicate other than an EXISTS predicate.

Processing continues.

User Response: Correct the SQL statement.

SQL4130W **The column function is not valid for the TABLE EXPRESSION beginning with table “<schema-name>”.“<table>”.**

Explanation: One of the following conditions has not been met:

- If the TABLE EXPRESSION is a grouped view, the SELECT LIST of a subquery cannot contain a SET FUNCTION SPECIFICATION.
- If the TABLE EXPRESSION is a grouped view, the SELECT LIST of a QUERY SPECIFICATION cannot contain a column function.

Processing continues.

User Response: Correct the SQL statement.

SQL4131W **The COLUMN REFERENCE for “<column>” is invalid.**

Explanation: One of the following conditions has not been met:

- For a GROUPed table, the COLUMN REFERENCE must reference a GROUPing column or be specified within a SET FUNCTION SPECIFICATION.
- If not a GROUPed table and VALUE EXPRESSION includes a SET FUNCTION SPECIFICATION, then each COLUMN REFERENCE must be specified within a SET FUNCTION SPECIFICATION.

Processing continues.

User Response: Correct the SQL statement.

SQL4132W **DISTINCT is specified more than once.**

Explanation: One of the following conditions has not been met:

- DISTINCT must not be specified more than once in a QUERY SPECIFICATION, excluding any subquery of that QUERY SPECIFICATION.
- DISTINCT must not be specified more than once in a subquery, excluding any subquery contained in that subquery.

Processing continues.

User Response: Correct the SQL statement.

SQL4133W **The COMPARISON PREDICATE subquery cannot contain a GROUP BY or HAVING clause.**

Explanation: If a subquery is specified in a COMPARISON PREDICATE, then the TABLE EXPRESSION whose FROM clause identifies the named table must not contain a GROUP BY clause or a HAVING clause.

Processing continues.

User Response: Correct the SQL statement.

SQL4134W **The COMPARISON PREDICATE subquery cannot identify a GROUPed view.**

Explanation: If a subquery is specified in a COMPARISON PREDICATE, then the TABLE EXPRESSION whose FROM clause identifies the named table must not identify a GROUPed view.

Processing continues.

User Response: Correct the SQL statement.

SQL4135W **There is an invalid AUTHORIZATION IDENTIFIER “<authid>”.**

Explanation: The AUTHORIZATION IDENTIFIER prefixed to the table name is invalid.

Processing continues.

User Response: Correct the SQL statement.

SQL4136W **Table or view**
 “<schema-name>”.“<name>”
 already exists.

Explanation: The table name or view name specified already exists in the catalog.

Processing continues.

User Response: Correct the SQL statement.

SQL4137W **The COLUMN DEFINITION is**
 missing.

Explanation: At least one COLUMN DEFINITION should be specified for a CREATE TABLE.

Processing continues.

User Response: Correct the SQL statement.

SQL4138W **The data type “<type1>” of the**
 target is not compatible with the
 data type “<type2>” of the source.

Explanation: Data types should match:

- In a FETCH statement, between source and target.
- In a SELECT statement, between source and target.

Processing continues.

User Response: Correct the SQL statement.

SQL4139I **You must specify a VIEW**
 COLUMN LIST for
 “<schema-name>”.“<table>”.

Explanation: If any two columns in the table specified by the QUERY SPECIFICATION have the same column name, or if any column of that table is an unnamed column, then a VIEW COLUMN LIST must be specified.

Processing continues.

User Response: Correct the SQL statement.

SQL4140W **An error has occurred causing the**
 flagger to stop. Module name =
 “<module-name>”. Internal error
 code = “<error code>”.

Explanation: The flagger has encountered an internal error. If the syntax, bindfile or package option is also specified, processing continues but flagger operation is discontinued. Otherwise, processing is terminated.

User Response: Record this message number (SQLCODE), module name and error code in the message. Contact your technical service representative with the information.

SQL4141W **An error has occurred when**
 attempting to produce message
 “<message number>” in module
 “<module name>”.

Explanation: The FLAGGER has attempted to produce an undefined message.

Processing continues.

User Response: Record this message number (SQLCODE), module name and error code in the message. Contact your technical service representative with the information.

SQL4142W **There is not enough memory for**
 flagger operation. Internal error
 code = “<error code>”.

Explanation: There is not enough memory for the flagger to operate. If the syntax, bindfile or package option is also specified, processing continues but flagger operation is discontinued. Otherwise, processing is terminated.

User Response: Ensure that your system has sufficient real and virtual memory, and remove any unnecessary background processes.

SQL4143W **An error has occurred when**
 releasing flagger memory. Internal
 error code = “<error code>”.

Explanation: The flagger cannot release allocated memory. If the syntax, bindfile or package option is also specified, processing

continues but flagger operation is discontinued. Otherwise, processing is terminated.

User Response: Restart precompilation if flagging is required.

SQL4144W Internal error on call to the FLAGGER found in module “<module-name>”. Internal error code = “<error code>”.

Explanation: The FLAGGER encountered an internal error.

Preprocessing continues but FLAGGER operation is discontinued.

User Response: Record this message number (SQLCODE), module name and error code in the message. Contact your technical service representative with the information.

SQL4145W Error during FLAGGER access to the system catalog. Flagging continues to check syntax only. SQLCODE = “<nnn>” SQLERRP = “<modname>” SQLERRD = “<nnn>” Creator = “<creatorname>” Table = “<tablename>”

Explanation: An internal error has occurred during FLAGGER access to the system catalog.

Processing continues but with flagger syntax checking only.

User Response: Record this message number (SQLCODE), module name and error code in the message. Contact your technical service representative with the information.

SQL4146W Internal error occurred causing the semantics processing to stop. Module name = “<module name>”. Internal error code = “<error code>”.

Explanation: The FLAGGER has encountered a severe internal error in a semantics analysis routine.

Processing continues but with flagger syntax checking only.

User Response: Record this message number (SQLCODE), module name and error code in the message. Contact your technical service representative with the information.

SQL4147W Invalid flagger version number.

Explanation: An invalid flagger version number is passed to the Precompiler Services COMPILE SQL STATEMENT API. If the syntax, bindfile or package option is also specified, processing continues but flagger operation is discontinued. Otherwise, processing is terminated.

User Response: Provide a valid flagger version number. Refer to the *Command Reference* manual.

SQL4170W You must declare column “<column>” as NOT NULL.

Explanation: All columns identified as UNIQUE must be defined with the NOT NULL option.

Processing continues.

User Response: Correct the SQL statement.

SQL4171W The viewed table “<schema-name>”.“<table>” must be updateable.

Explanation: When the WITH CHECK OPTION clause is specified then the viewed table must be updateable.

Processing continues.

User Response: Correct the SQL statement.

SQL4172W Invalid number of column names.

Explanation: The number of column names in the VIEW COLUMN LIST should be the same as the DEGREE of the table specified by the QUERY SPECIFICATION.

Processing continues.

User Response: Correct the SQL statement.

SQL4173W You must declare cursor “<cursor>” before using it.

Explanation: The cursor specified has not been declared in a DECLARE CURSOR statement.

Processing continues.

User Response: Correct the SQL statement.

SQL4174W Cursor “<cursor>” is already declared.

Explanation: Cursor specified has already been declared in a DECLARE CURSOR statement.

Processing continues.

User Response: Correct the SQL statement.

SQL4175W Only * or column names are valid in this context.

Explanation: When UNION is specified, the SELECT LIST for the specification of the two TABLE EXPRESSIONs identified by the QUERY EXPRESSION and QUERY TERM should consist of * or COLUMN REFERENCE(s).

Processing continues.

User Response: Correct the SQL statement.

SQL4176W The descriptions of tables identified by the QUERY EXPRESSION beginning with “<schema-name1>”. “<table1>” and the QUERY TERM beginning with “<schema-name2>”. “<table2>” should be identical.

Explanation: When UNION is specified, the descriptions of the two tables should be identical, except for the column names.

Processing continues.

User Response: Correct the SQL statement.

SQL4177W The SORT SPECIFICATION “<number>” is outside the DEGREE of cursor “<cursor>”.

Explanation: If the SORT SPECIFICATION contains an unsigned integer, it should be greater than 0 and not greater than the number of columns in the table.

Processing continues.

User Response: Correct the SQL statement.

SQL4178W Table “<schema-name>”. “<table>” is a read-only table.

Explanation: A DELETE, an INSERT, or an UPDATE was specified on a read-only table.

Processing continues.

User Response: Correct the SQL statement.

SQL4179W Table “<schema-name>”. “<table>” must not be identified in a FROM clause of any subquery contained in a SEARCH CONDITION.

Explanation: A table specified in a DELETE or an UPDATE cannot be used in a FROM clause of any subquery contained in its SEARCH CONDITION.

Processing continues.

User Response: Correct the SQL statement.

SQL4180W Table “<schema-name1>”. “<table1>” is not the first table “<schema-name2>”. “<table2>” specified in the DECLARE CURSOR statement.

Explanation: Table specified in a DELETE or an UPDATE statement should be the first table specified in the FROM clause of the DECLARE CURSOR statement.

Processing continues.

User Response: Correct the SQL statement.

SQL4181W The number of TARGET SPECIFICATIONS does not match the DEGREE of cursor "<cursor>".

Explanation: The number of TARGET SPECIFICATIONS in the FETCH statement does not match the DEGREE of the table specified.

Processing continues.

User Response: Correct the SQL statement.

SQL4182W Target table "<schema-name>".<table>" of the INSERT statement is also in the FROM clause or in the subquery.

Explanation: The named table must not be identified in a FROM clause of a QUERY SPECIFICATION or of any subquery contained in the QUERY SPECIFICATION.

Processing continues.

User Response: Correct the SQL statement.

SQL4183W The number of columns specified does not match the number of values specified.

Explanation: In an INSERT statement, the number of columns specified does not match the number of values specified.

Processing continues.

User Response: Correct the SQL statement.

SQL4184W The number of columns specified does not match the DEGREE of the QUERY SPECIFICATION beginning with table "<schema-name>".<table>".

Explanation: In an INSERT statement, the number of columns specified does not match the DEGREE of the table specified in the QUERY SPECIFICATION

Processing continues.

User Response: Correct the SQL statement.

SQL4185W There is a data type or length mismatch between column "<column>" and the INSERT or UPDATE item.

Explanation: One of the following conditions has not been met:

- If the data type of the column name is character string, then the corresponding item in the INSERT or UPDATE statement should be character string of length equal to or less than the length of the column name.
- If the data type of the column name is exact numeric, then the corresponding item in the INSERT or UPDATE statement should be exact numeric.
- If the data type of the column name is approximate numeric, then the corresponding item in the INSERT or UPDATE statement should be approximate numeric or exact numeric.

Processing continues.

User Response: Correct the SQL statement.

SQL4186W You cannot use a GROUP BY or HAVING clause or identify a GROUPed view in this context.

Explanation: The table identified in the FROM clause of the TABLE EXPRESSION in a SELECT statement should not include a GROUP BY or HAVING clause and should not identify a GROUPed view.

Processing continues.

User Response: Correct the SQL statement.

SQL4187W The number of elements specified in the SELECT LIST should match the number in the SELECT TARGET LIST.

Explanation: In the SELECT statement, the number of elements specified in the SELECT LIST should match the number of elements in the SELECT TARGET LIST.

Processing continues.

User Response: Correct the SQL statement.

SQL4188W A column function is not allowed in a SET clause of an UPDATE statement.

Explanation: A VALUE EXPRESSION in a SET clause of an UPDATE statement should not include a column function.

Processing continues.

User Response: Correct the SQL statement.

SQL4189W You cannot specify NULL for NOT NULL column "<column>".

Explanation: If NULL is specified in the SET clause of the UPDATE statement, then the corresponding column should allow nulls.

Processing continues.

User Response: Correct the SQL statement.

SQL4190W A host variable of an unrecognized data type is referenced. Host variable position is "<position>".

Explanation: The host variable reference at position "<position>" is of a data type not

recognized by the standard.

Processing continues.

User Response: Correct the SQL statement.

SQL4191W The data type of column "<column name>" is not recognized.

Explanation: The data type of the column is not recognized by the standard.

Processing continues.

User Response: Correct the SQL statement.

SQL4192W Table "<schema-name>."<table>" is not found in the catalog.

Explanation: The named table or view does not exist in the system catalog.

SQL4300 - SQL4399

SQL4300N Java support is not installed or properly configured on this platform.

Explanation: Support for Java stored procedures and user-defined functions is not installed and configured on this server.

User Response: Ensure that a compatible Java Runtime Environment or Java Development Kit for the server is installed. Ensure that the "jdk11_path" configuration parameter is correctly set.

sqlcode: -4300

sqlstate: 42724

SQL4301N Java interpreter startup or communication failed, reason code "<reason-code>".

Explanation: An error occurred while attempting to start or communicate with a Java interpreter. The reason codes are:

- 1 Java environment variables or Java database configuration parameters are invalid.
- 2 A Java Native Interface call to the Java interpreter failed.
- 3 The "db2java.zip" file may be corrupt or missing.

4 The Java interpreter has terminated itself and cannot be restarted.

User Response: Ensure that the Java database configuration parameters (jdk11_path and java_heap_sz) are correctly set. Ensure that a supported Java runtime environment is installed. Ensure that internal DB2 classes (COM.ibm.db2) are not overridden by user classes.

sqlcode: -4301

sqlstate: 58004

SQL4302N Java stored procedure or user-defined function "<name>", specific name "<spec-name>" aborted with an exception "<string>".

Explanation: The Java stored procedure or user-defined function aborted with a Java exception. The First Failure Service Log (db2diag.log) contains a Java stack traceback for the aborted method.

User Response: Debug the Java method to eliminate the exception.

sqlcode: -4302

sqlstate: 38501

SQL4303N Java stored procedure or user-defined function "<name>", specific name "<spec-name>" could not be identified from external name "<string>".

Explanation: The CREATE PROCEDURE or CREATE FUNCTION statement that declared this stored procedure or user-defined function had a badly formatted EXTERNAL NAME clause. The external name must be formatted as follows: "package.subpackage.class!method".

User Response: Submit a corrected CREATE PROCEDURE or CREATE FUNCTION statement.

sqlcode: -4303

sqlstate: 42724

SQL4304N Java stored procedure or user-defined function "<name>", specific name "<spec-name>" could not load Java class "<class>", reason code "<reason-code>".

Explanation: The Java class given by the EXTERNAL NAME clause of a CREATE PROCEDURE or CREATE FUNCTION statement could not be loaded. The reason codes are:

- 1** The class was not found on the CLASSPATH.
- 2** The class did not implement the required interface ("COM.ibm.db2.app.StoredProc" or "COM.ibm.db2.app.UDF") or lacked the Java "public" access flag.
- 3** The default constructor failed or was unavailable.

User Response: Ensure that the compiled ".class" file is installed in the CLASSPATH, for example under "sqlib/function". Ensure it implements the required Java interfaces and is "public".

sqlcode: -4304

sqlstate: 42724

SQL4306N Java stored procedure or user-defined function "<name>", specific name "<spec-name>" could not call Java method "<method>", signature "<string>".

Explanation: The Java method given by the EXTERNAL NAME clause of a CREATE PROCEDURE or CREATE FUNCTION statement could not be found. Its declared argument list may not match what the database expects, or it may not be a "public" instance method.

User Response: Ensure that a Java instance method exists with the "public" flag and the expected argument list for this call.

sqlcode: -4306

sqlstate: 42724

SQL4400 - SQL4499

SQL4400N “<authorization-ID>” does not have the authority to perform the task at the DB2 Administration Server.

Explanation: The user does not have the necessary authority at the DB2 Administration Server to perform the attempted action.

User Response: Attach to the DB2 Administration Server using a user ID with the necessary Authority. Most tasks performed at the DB2 Administration Server require SYSADM authority.

SQL4401C The DB2 Administration Server encountered an error during startup.

Explanation: An error was encountered during startup of the DB2 Administration Server.

User Response: Refer to the DB2 Administration Server's First Failure Data Capture Log for additional information. Take the appropriate action as necessary and attempt to restart the DB2 Administration Server.

If the problem persists contact your technical service representative.

SQL4402W The DB2ADMIN command was successful.

Explanation: All processing completed normally.

User Response: No further action is required.

SQL4403N The syntax of the command is invalid.

Explanation: The command was entered using invalid arguments or an invalid number of parameters.

User Response: Re-submit the command with valid argument(s).

SQL4404N The DB2 Administration Server does not exist.

Explanation: The DB2 Administration Server was not found on the machine.

User Response: Create the DB2 Administration Server on the machine by entering DB2ADMIN command as follow:

DB2ADMIN CREATE

SQL4405W The DB2 Administration Server already exists.

Explanation: The DB2 Administration Server already exists on the machine

User Response: No further action is required.

SQL4406W The DB2 Administration Server was started successfully.

Explanation: All processing completed normally.

User Response: No further action is required.

SQL4407W The DB2 Administration Server was stopped successfully.

Explanation: All processing completed normally.

User Response: No further action is required.

SQL4408N The DB2 Administration Server was not dropped because it is active.

Explanation: The DB2 Administration Server must be stopped before it can be dropped.

User Response: To stop the DB2 Administration Server, enter the following command:

DB2ADMIN STOP

SQL4409W **The DB2 Administration Server is already active.**

Explanation: The DB2ADMIN START command can not be processed because the DB2 Administration Server is already active.

User Response: No further action is required.

SQL4410W **The DB2 Administration Server is not active.**

Explanation: The DB2ADMIN STOP command can not be processed because the DB2 Administration Server is not active.

User Response: No further action is required.

SQL4411N **The requested operation is not allowed because the server instance is not the DB2 Administration Server.**

Explanation: The requested operation is only valid when issued against the DB2 Administration Server.

User Response: The DB2 Administration Server should be set up using the DB2ADMIN command. Refer to the *Quick Beginnings* for further information about the DB2ADMIN command.

SQL4412N **The logon user account for the DB2 Administration Server is invalid.**

Explanation: To perform the requested task, the DB2 Administration Server must be running under a valid logon user account. This error is either caused by the account not being setup, or the logon user account does not contain a valid DB2 user ID.

User Response: If a logon user account has been set up, then ensure that the account uses a valid DB2 user ID.

You can set up the logon user account for the DB2 Administration Server by using the following command:

```
DB2ADMIN SETID <userid> <password>
```

SQL4413W **Usage: DB2ADMIN creates, drops, starts, or stops the DB2 Administration Server.**

Explanation: The DB2ADMIN command syntax is:

```
DB2ADMIN CREATE [/USER:<username>
                /PASSWORD:<password>]
                DROP
                START
                STOP
                SETID <username> <password>
                /h
```

The command options are:

CREATE

create the DB2 Administration Server

DROP delete the DB2 Administration Server

START start the DB2 Administration Server

STOP stop the DB2 Administration Server

SETID set the logon account for the DB2 Administration Server

/USER specify the logon account name during DB2ADMIN CREATE

/PASSWORD

specify the logon account password during DB2ADMIN CREATE

/h display the usage information

User Response: Issue the DB2ADMIN command with one of the valid command options.

SQL4414N **The DB2 Administration Server is not active.**

Explanation: The request cannot be processed unless the DB2 Administration Server is active.

User Response: Start the DB2 Administration Server by issuing the command DB2ADMIN START, and reissue the request.

SQL4900 - SQL4999

SQL4901N **Precompiler Services requires reinitialization because of a previous error.**

Explanation: On a previous function call, an error occurred. The requested function call cannot be processed until Precompiler Services is reinitialized.

The function cannot be completed.

User Response: Call the sqlainit function to reinitialize Precompiler Services

SQL4902N **At least one of the characters in parameter "<n>" of function "<function>" is not valid.**

Explanation: The specified parameter in the specified function contains at least one character that is not valid.

The function cannot be completed.

User Response: Correct the specified parameter and call the function again.

SQL4903N **The length of parameter "<n>" of function "<name>" is not valid.**

Explanation: The length of the specified parameter in the specified function is not valid.

The function cannot be completed.

User Response: Correct the specified parameter and call the function again.

SQL4904N **The pointer to parameter "<n>" of function "<function>" is not valid.**

Explanation: The pointer to the specified parameter in the specified function is not valid.

The function cannot be completed.

User Response: Correct the specified parameter and call the function again.

SQL4905N **The value of parameter "<n>" of function "<function>" is not within the valid range.**

Explanation: The value of the specified parameter in the specified function is outside the valid range for that parameter. If the specified parameter is a structure, it may contain values that are within the valid range but are not valid when considered together. Some structures contain headers that specify the allocated size and how much of that size is being used. It is not valid for the allocated size to be less than the used size.

The function cannot be completed.

User Response: Correct the specified parameter and call the function again.

SQL4906N **The list of table space names specified is an incomplete set for the rollforward operation.**

Explanation: The list of table space names is incomplete for one of the following reasons:

- For point-in-time table space recovery, a table space list must be specified.
- For point-in-time table space recovery, a self-contained list of table space names must be specified. The table spaces in the list must contain all objects of every table included in the table spaces.
- Point-in-time table space recovery is not allowed for the system catalogs.
- End-of-logs table space recovery is allowed for the system catalogs but it can be the only table space name in the list.
- The CANCEL option for rollforward must have a table space list if there are no table spaces in "rollforward-in-progress" state.

User Response: Check the table space list and resubmit the rollforward command with the complete table space list.

SQL4907W Database "<name>" is recovered but one or more of the tables in the table space list included for the rollforward operation are placed in check pending states.

Explanation: One or more of the tables involved in the point-in-time tablespace recovery have referential constraints with tables outside of the table space list used for recovery. All these tables are placed in check pending state. Rollforward operation is otherwise completed successfully.

User Response: Check the state for the tables in the table spaces and take appropriate actions if necessary.

SQL4908N The table space list specified for roll-forward recovery on database "<name>" is invalid on node(s) "<node-list>".

Explanation: If starting a new table space rollforward, one or more of the table spaces specified in the list to be rolled forward is not in rollforward pending state on the specified nodes. If continuing a table space rollforward that is already in progress, one or more of the table spaces specified in the list to be rolled forward is not in rollforward in progress state on the specified nodes.

If "...," is displayed at the end of the node list, see the diagnostic log for the complete list of nodes.

Roll-forward recovery stops.

(Note : if you are using a partitioned database server, the node number(s) indicate which node(s) the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: Use the LIST TABLESPACES SHOW DETAIL command on the nodes specified to find out which table spaces are not ready to be rolled forward. Use the QUERY STATUS option of the rollforward command to determine the status of the table space rollforward. If the rollforward status is "TBS pending", a new table space rollforward can be started. If the rollforward status is "TBS working", a table space

rollforward is already in progress.

If starting a new table space rollforward, put the tablespaces into rollforward pending state by restoring them.

If continuing a table space rollforward and one or more of the table spaces involved have been restored and put into rollforward pending state, the table space rollforward in progress must be canceled. Submit the rollforward command again with the CANCEL option and the same table space list. When the rollforward in progress is canceled, the table spaces will have been put into restore pending state. Restore the table spaces and submit the original rollforward command again.

SQL4909W Roll forward recovery has completed successfully but one or more table spaces have their tables put in DRP/DRNP state. Check the db2diag.log file for details on node(s) "<node-list>".

Explanation: One or more table spaces have tables in DATALINK Reconcile Pending (DRP) state or DATALINK Reconcile Not Possible (DRNP) state for one of the following reasons:

- Restore is done specifying the WITHOUT DATALINK option and rollforward to a point-in-time follows the restore. Any tables with DATALINK columns are placed in DRP state.
- Restoring from a backup image with a different database name, alias, hostname, or instance and rollforward follows the restore. Any tables with DATALINK columns are placed in DRNP state.
- Restoring from a backup image that has become unusable and rollforward follows the restore. Any tables with DATALINK columns are placed in DRNP state.
- Rollforward was to a point-in-time, not to the end of logs. Any tables with DATALINK columns in that tablespace are placed in DRP state.
- DATALINK column information does not exist at the DB2 Data Links Manager(s). Affected tables are placed in DRNP state.

- Rollforward involved DATALINK columns defined with the "RECOVERY NO" option. Affected tables are placed in DRP state.

If "... " is displayed at the end of the node list, see the diagnostic log for the complete list of nodes.

(Note : if you are using a partitioned database server, the node number(s) indicate which node(s) the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: Look in the db2diag.log file to find out what tables are put in DRP/DRNP state. See the Administration Guide for information on reconciling tables that are in DRP/DRNP state.

SQL4910N Overflow log path "<log-path>" is not valid.

Explanation: The overflow log path specified on the ROLLFORWARD command is not valid. The overflow log path must be a directory in a file system. This directory must be accessible by the instance owner id.

User Response: Resubmit the command with a valid overflow log path.

SQL4911N The host variable data type is not valid.

Explanation: The data type of the host variable is not valid.

The function cannot be completed.

User Response: Correct the data type of the host variable and call the function again.

SQL4912N The host variable data length is out of range.

Explanation: The length of the host variable is not valid.

The function cannot be completed.

User Response: Correct the length of the host variable and call the function again.

SQL4913N The host variable token ID has already been used.

Explanation: The token ID of the host variable has already been used. The token ID must be unique within the module.

The function cannot be completed.

User Response: Correct the token ID of the host variable and call the function again.

SQL4914N The host variable token ID is not valid.

Explanation: The token ID of the host variable is not valid.

The function cannot be completed.

User Response: Correct the token ID of the host variable and call the function again.

SQL4915N The "sqlainit" function has already been called.

Explanation: Precompiler Services has already been initialized.

User Response: No action is required. Continue processing.

SQL4916N The "sqlainit" function has not been called.

Explanation: Precompiler Services must be initialized before the requested function call can be processed.

The function cannot be completed.

User Response: Issue an sqlainit function call to initialize Precompiler Services.

SQL4917N Element "<number>" in the option array is not valid.

Explanation: The option array contains an element with an *option.type* or *option.value* that is not valid. The element number in the message is the *n*th element in the option portion of the option array.

The function cannot be completed.

User Response: Correct the values stored in the option array. Call the function again.

SQL4918N The term_option parameter of function “sqlainit” is not valid.

Explanation: The *term_option* parameter is not valid.

The function cannot be completed.

User Response: Correct the *term_option* parameter and call the function again.

SQL4919N The task_array parameter of function “sqlacmpl” is too small.

Explanation: The task array structure passed to Precompiler Services on the *sqlacmpl* function call is too short.

The function did not complete successfully.

User Response: Increase the size of the precompiler task array structure allocated by the precompiler. Recompile the application program.

SQL4920N The token_id_array parameter of function “sqlacmpl” is too small.

Explanation: The token id array structure passed to Precompiler Services on the *sqlacmpl()* function call is too small.

The function did not complete successfully.

User Response: Increase the size of the precompiler token id array structure allocated by the precompiler. Recompile the application program.

SQL4930N Bind or precompile option or option value “<option-name>” is invalid.

Explanation: Either “<option-name>” is an invalid bind or precompile option or the value specified for this option is invalid. The bind or precompile cannot continue.

User Response: Correct the bind or precompile

option or option value and retry the bind or precompile command.

SQL4940N The “<clause>” clause is not permitted or is required.

Explanation: The indicated clause is either not allowed in the context where it appears in the SQL statement or it is required in the statement.

A subquery, an INSERT statement, or a CREATE VIEW statement cannot have INTO, ORDER BY, or FOR UPDATE clauses. An embedded SELECT statement cannot have ORDER BY or FOR UPDATE clauses. An embedded SELECT statement cannot contain a set operator except in a subquery. SELECT statements used in cursor declarations cannot have an INTO clause.

An embedded SELECT statement must have an INTO clause.

The function cannot be completed.

User Response: Remove or add the clause to correct the statement.

SQL4941N The SQL statement is blank or empty.

Explanation: The text following EXEC SQL was blank or empty.

The function cannot be completed.

User Response: Ensure that a valid SQL statement is provided following the word EXEC SQL.

SQL4942N The statement selects an incompatible data type into host variable “<name>”.

Explanation: An embedded SELECT statement selects into a host variable “<name>” but the data type of the variable and the corresponding SELECT list element are not compatible. If the data type of the column is date and time, the data type of the variable must be character with an appropriate minimum length. Both must either be numeric, character, or graphic.

The function cannot be completed.

User Response: Verify that the table definitions are current and that the host variable has the proper data type.

SQL4943W The number of host variables in the INTO clause is not the same as the number of items in the SELECT clause.

Explanation: The number of host variables specified in both the INTO clause and the SELECT clause must be the same.

The function is processed.

User Response: Correct the application program to specify the same number of host variables as SELECT list expressions.

SQL4944N An update or insert value is NULL but the object column cannot contain NULL values.

Explanation: One of the following occurred:

- The update or insert value was NULL but the object column is declared as NOT NULL in the table definition. Therefore, null values cannot be inserted into that column, and values in that column cannot be set to NULL by an update.
- The column name list for the INSERT statement omits a column that was declared as NOT NULL in the table definition.
- The view for the INSERT statement omits a column that was declared as NOT NULL in the base table definition.

The function cannot be completed.

User Response: Examine the definition of the object table to determine which columns of the table have the NOT NULL attribute, and correct the SQL statement.

SQL4945N The use of a parameter marker is not valid.

Explanation: Parameter markers can be used only in dynamic SQL statements.

The function cannot be completed.

User Response: Use host variables instead of parameter markers for static SQL statements.

SQL4946N The cursor or statement name "<name>" is not defined.

Explanation: The cursor or statement name "<name>" specified in the statement is not defined.

The function cannot be completed.

User Response: Check the application program for completeness and possible spelling errors in the cursor or statement names.

SQL4947W An INCLUDE SQLDA statement was encountered and ignored.

Explanation: The FORTRAN precompiler shipped by the database manager does not support the INCLUDE SQLDA statement.

The statement is ignored. Processing continues.

User Response: No action is required. To prevent this message, remove the INCLUDE SQLDA statement from the program.

SQL4950N Compound SQL statements containing user-defined SQLDAs are not supported in this environment.

Explanation: Compound SQL statements containing user-defined SQLDAs are not supported in a 16-bit application.

User Response: Move the statement out of the compound SQL block or replace the statement with one that uses host variables instead of an SQLDA.

SQL4951N The sqlda_id parameter of function "<name>" is not valid.

Explanation: The *sqlda_id* parameter of the specified function in the application program is not valid. The *sqlda_id* parameter cannot be null.

The function cannot be completed.

User Response: Correct the *sqlda_id* parameter

in the application program.

SQL4952N The *sqlvar_index* parameter of function "<name>" is not valid.

Explanation: The *sqlvar_index* parameter of the specified function in the application program is not valid. The *sqlvar_index* may be larger than the number of *sqlvar* elements in the SQLDA.

The function cannot be completed.

User Response: Correct the *sqlvar_index* parameter in the application program.

SQL4953N The *call_type* parameter of function "<name>" is not valid.

Explanation: The *call_type* parameter of the specified function in the application is not valid.

The function cannot be completed.

User Response: Correct the *call_type* parameter in the application program.

SQL4954N The *section_number* parameter of function "<name>" is not valid.

Explanation: The *section_number* parameter of the specified function in the application program is not valid. Note that for the following SQL statements, the *section_number* parameter of the function *sqlacall()* is used to pass in the statement type:

- CONNECT
- SET CONNECTION
- RELEASE
- DISCONNECT

The function cannot be completed.

User Response: Correct the *section_number* parameter in the application program.

SQL4970N Roll-forward recovery on database "<name>" cannot reach the specified stop point (end-of-log or point-in-time) because of missing log file(s) on node(s) "<node-list>".

Explanation: This message is returned in the following situations:

- a request was made to bring the specified database out of roll-forward pending state by specifying caller action SQLUM_ROLLFWD_STOP, SQLUM_STOP, SQLUM_ROLLFWD_COMPLETE, or SQLUM_COMPLETE but the Rollforward Database utility cannot find the necessary archive log file(s) in the database log directory or the overflow log directory on the specified node(s) to reach the stopping point from the previous ROLLFORWARD DATABASE command.
- in a multi-node environment, if the Rollforward Database utility cannot find the necessary archive log file(s) to bring a node into synchronization with the catalog node.

If "... " is displayed at the end of the node list, see the diagnostic log for the complete list of nodes.

Roll-forward recovery has stopped. The database is left in roll-forward pending state.

Note : if you are using a partitioned database server, the node number(s) indicate which node(s) the error occurred on. Otherwise, it is not pertinent and should be ignored.

User Response: Use the ROLLFORWARD DATABASE command with the QUERY STATUS option to determine which log files are missing.

Do one of the following:

- Make sure that all archive log files are available in the database log directory or the overflow log path, and issue the ROLLFORWARD DATABASE command again.
- If you cannot find the missing log files, restore the database/table space on all nodes, then do

point-in-time recovery using a timestamp that is earlier than that of the earliest missing log file.

SQL4971N **Roll-forward recovery on database "<name>" on node "<node-number>" failed previously while stopping. Roll-forward recovery must be stopped.**

Explanation: A request was made to continue rolling forward the specified database by specifying caller action SQLUM_ROLLFWD. The previous iteration of roll-forward recovery failed while stopping. If rolling forward at the database level, this means that it failed during log truncation. Roll-forward recovery for this database must now be stopped by specifying caller action SQLUM_ROLLFWD_STOP, SQLUM_STOP, SQLUM_ROLLFWD_COMPLETE, or SQLUM_COMPLETE.

Note : if you are using a partitioned database server, the node number indicates which node the error occurred on. Otherwise, it is not pertinent and should be ignored.

User Response: Reissue the ROLLFORWARD DATABASE command with caller action SQLUM_ROLLFWD_STOP, SQLUM_STOP, SQLUM_ROLLFWD_COMPLETE, or SQLUM_COMPLETE. Any stoptime specified will be ignored since the previous stoptime is already being processed.

SQL4972N **Log extent "<extent>" on node "<node-number>" could not be moved to the database logpath.**

Explanation: The Rollforward utility was invoked with the STOP option. As part of roll-forward processing, the log extent "<extent>" has to be truncated. This extent must exist in the database logpath. Currently, the extent exists in the overflow log path. An attempt was made to move the extent from the overflow log path to the database logpath. The attempt failed. Roll-forward processing has been stopped.

Note : if you are using a partitioned database server, the node number indicates which node the error occurred on. Otherwise, it is not pertinent and should be ignored.

User Response: Move the extent from the overflow log path to the database logpath and then resubmit the ROLLFORWARD DATABASE command.

SQL4973N **Forward recovery on database "<name>" cannot complete because the log information on node(s) "<node-list>" does not match the corresponding record(s) on the catalog node.**

Explanation: The Rollforward utility processed all the log files found on each node, but the stop points on the specified nodes do not match the corresponding records on the catalog node. This can be caused by missing log files on either the catalog node or on the specified nodes, or the catalog node must be included in the list of nodes to be rolled forward.

The ROLLFORWARD DATABASE processing stops.

User Response: Do one of the following:

- Check if the catalog node needs to be rolled forward. If it does, submit the ROLLFORWARD DATABASE command again and include the catalog node.
- Use the ROLLFORWARD DATABASE command with the QUERY STATUS option to determine which log files are missing. When you find the log files, put them in the log path or overflow log path and resume forward recovery.
- If you cannot find the missing log files, restore the database on all nodes, then do point-in-time recovery using a stoptime that is earlier than that of the earliest missing log file.

SQL4974W **The ROLLFORWARD DATABASE QUERY STATUS command encountered sqlcode "<sqlcode>".**

Explanation: The ROLLFORWARD DATABASE QUERY STATUS command encountered an error

with the sqlcode "<sqlcode>". The query might not be successful on some nodes for various reasons. The most severe error is indicated by "<sqlcode>". The roll-forward status is only returned for the successful nodes.

User Response: Look up the sqlcode "<sqlcode>" in the *Message Reference*, or online to determine the problems on the failed nodes. Take the required corrective actions, then continue the forward recovery on these nodes.

SQL4975W Roll-forward operation was cancelled successfully. The database or selected table spaces have to be restored on node(s) "<node-list>".

Explanation: A roll-forward operation was cancelled before it successfully completed, and the database or selected table spaces are left in an inconsistent state. The database or selected table spaces are in restore pending state on the listed nodes.

If "... " is displayed at the end of the node list, see the diagnostic log for the complete list of nodes.

Note : if you are using a partitioned database server, the node number(s) indicate which node(s) the error occurred on. Otherwise, it is not pertinent and should be ignored.

User Response: Restore the database or selected table spaces on the listed nodes. The table spaces that are in restore pending state can be identified on the specified node(s) by the LIST TABLESPACES command or the db2dart utility.

SQL4976N The ROLLFORWARD DATABASE command cannot be submitted on a non-catalog node.

Explanation: The ROLLFORWARD DATABASE command is only accepted on the catalog node.

User Response: Submit the command on the catalog node.

SQL4977N Dropped table export directory "<directory>" is not valid.

Explanation: The export directory path specified on the ROLLFORWARD command is not valid. The export directory path must be a directory in a file system. This directory must be accessible by the instance owner id.

User Response: Resubmit the command with a valid export directory path.

SQL4978N The dropped table can not be accessed.

Explanation: The dropped table can not be accessed. This may be due to the table being put into unavailable state because of a LOAD without copy or a NOT LOGGED INITIALLY operation.

User Response: The table can not be recovered using the DROPPED TABLE RECOVERY option.

SQL4979W Unable to export the dropped table data.

Explanation: The command was unable to export the data of the dropped table whose recovery is being attempted. This can happen when the dropped table id specified on the ROLLFORWARD command is invalid, or when not all of the logs are available for roll forward. This warning will be generated when an error occurs during a dropped table recovery using a ROLLFORWARD ... AND STOP command.

User Response: Resubmit the command after ensuring that the dropped table id provided is valid, and that all of the logs are available for roll forward.

SQL4994N Precompilation was ended because of a user interrupt request.

Explanation: Precompilation was terminated because of an interrupt. The user may have pressed an interrupt key sequence.

Processing is terminated. No package was created.

User Response: Resubmit the precompilation if needed.

SQL4997N The authorization ID is not valid.

Explanation: The authorization ID for the application was specified previously but it was defined with more than 8 characters or with characters that are not valid for an authorization ID.

The authorization ID must not be PUBLIC (public) and it must not begin with SYS (sys), IBM (ibm), or SQL (sql). Also, it must not contain the underscore character or any characters outside the database manager base character set.

The function cannot be processed.

User Response: Retry the application with a valid authorization ID.

SQL4998C The application state is in error; the database connection has been lost.

Explanation: The connection to the database has been lost.

The function cannot be processed.

SQL5000 - SQL5099

SQL5001N “<authorization-ID>” does not have the authority to change the database manager configuration file.

Explanation: The user attempted to Update or Reset the database manager configuration file without having SYSADM authority.

The requested change is not made.

User Response: Do not attempt to change the database manager configuration file without appropriate authorization. Contact a user with SYSADM authority if a change is required.

User Response: Reconnect to the database.

SQL4999N A Precompiler Services or Run-Time Services error occurred.

Explanation: A database manager error occurred that prevents Precompiler Services or Run-Time Services from processing function calls.

No Precompiler Services or Run-Time Services function calls can be processed.

User Response: Record the message number (SQLCODE) and all error information from the SQLCA if possible.

If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility.

- Environment: Outer Precompiler Using Precompiler Services API
- Required information:
 - Problem description
 - SQLCODE
 - SQLCA contents if possible
 - Trace file if possible.

SQL5005C System Error.

Explanation: A system error, probably an I/O error, was encountered while accessing a configuration file.

The command cannot be processed.

User Response: Resubmit the command.

If the error persists, check the db2diag.log file for details and ensure that the configuration file is accessible. If unable to resolve the problem, contact an IBM Service Representative for assistance.

SQL5010N The path name to the database manager configuration file is not valid.

Explanation: An error occurred while determining the path for the database manager configuration file. The database manager directory structure may have been altered.

The command cannot be processed.

User Response: Resubmit the command. If the error continues, reinstall the database manager.

SQL5012N The entry in the database manager configuration file for the maximum number of segments allowed for the DB2 kernel is not in the valid range.

Explanation: The value for the maximum number of segments allowed for the DB2 kernel must be between 8 and 8192.

The requested change is not made.

User Response: Resubmit the command with a valid value for the maximum number of DB2 segments allowed.

SQL5018N The entry in the database manager configuration file for the maximum number of remote connections to the workstation (numrc) is not in the valid range.

Explanation: The value for the maximum number of remote connections to the workstation must be between 1 and 255.

The requested change is not made.

User Response: Resubmit the command with a valid value for the maximum number of remote connections to the workstation.

SQL5020N The entry in the database manager configuration file for the node name for the workstation (nname) is not valid.

Explanation: The node name specified in the configuration command is not valid. The node

name may be 1 to 8 characters. All the characters must be chosen from the database manager base character set.

The command cannot be processed.

User Response: Resubmit the command with a valid node name.

SQL5021N The entry in the database manager configuration file for the index recreation time (indexrec) is not valid. Possible values are 1 (during index access) and 2 (during database restart).

Explanation: An invalid value was passed to Configuration Services for the Index Recreation Time flag (indexrec) in the database manager configuration file. The invalid value may have been entered through the Command Line Processor or through a program API call. The only valid values for the API call are 1 (during database access), and 2 (during database restart). The valid values for the command line processor are ACCESS and RESTART.

The update to the database manager configuration file is rejected.

User Response: Repeat the update request, entering one of the possible values.

SQL5022N The entry in the database configuration file for the index recreation time (indexrec) is not valid. Possible values are 0 (use system setting), 1 (during index access), and 2 (during database restart).

Explanation: An invalid value was passed to Configuration Services for the Index Recreation Time flag (indexrec) in a database configuration file. The invalid value may have been entered through the Command Line Processor or through a program API call. The only valid values for the API call are 0 (use system setting), 1 (during index access), and 2 (during database restart).

The valid values for the command line processor are SYSTEM, ACCESS, and RESTART.

The update to the database configuration file is rejected.

User Response: Repeat the update request, entering one of the possible values.

SQL5025C The database manager configuration file is not current.

Explanation: The database manager configuration file has been updated since you connected to the database. It is not compatible with the configuration for the database to which you are connected.

No access is allowed to the database manager configuration file.

User Response: Wait until all applications disconnect from the databases. Issue the stop database manager command, and then issue the start database manager command.

If installing the sample database, drop it and install the sample database again.

SQL5028N The value of sysadm_group must be the primary group of the instance owner.

Explanation: An attempt was made to update sysadm_group in the database manager configuration file. For Version 2 of DB2 on Unix-based platforms, this value is only allowed to be the primary group of the instance owner.

User Response: Use the primary group of the instance owner to update this field in the database manager configuration file on Unix-based platforms.

SQL5030C The release number is not valid.

Explanation: The release number in the database manager configuration file or database configuration file is not valid.

The command cannot be processed.

User Response: Verify that the release levels of your database and DB2 match.

If installing the sample database, drop it and install the sample database again.

sqlcode: -5030

sqlstate: 58031

SQL5035N The database requires migration to the current release.

Explanation: The database was created on a lower level system release. The Migrate Database command must be used to convert the database to the current release level.

The command cannot be processed.

User Response: Perform the Migrate Database command before attempting to use the database with the current system release.

If this message is received during a restore, drop the existing database before proceeding.

sqlcode: -5035

sqlstate: 55001

SQL5040N One of the socket addresses required by the TCP/IP server support is being used by another process.

Explanation: One of the socket addresses required by the server either is in use by another program, or has not been freed completely by the TCP/IP subsystem after the database manager has been stopped.

User Response: If you have just issued db2stop, wait for a couple of minutes so that the TCP/IP subsystem has enough time to clean up its resources. Otherwise, make sure no other programs on your workstation are using the port numbers reserved for your service name in the /etc/services file. The port number is a component of a socket address.

SQL5042N One of the communication protocol server support processes failed to start up.

Explanation: Due to system call failure, or a communication subsystem call failure, one of the communication protocol server support processes did not start up successfully.

User Response: You can investigate the problem by either:

- examine the system log records;
- turning on trace, run db2start again, then examine the trace record.

SQL5043N **Support for one or more communications protocols failed to start successfully. However, core database manager functionality started successfully.**

Explanation: Communication protocol support did not start successfully for one or more protocols. Possible reasons can include the following:

- Communication subsystem configuration error.
- Communication subsystem call failure.
- Database manager configuration error.
- System call failure.
- Database manager licensing error.

You can still connect to the server with communication protocols that did start successfully. Local clients can also connect to the server.

User Response: The database manager attempts to start all communication protocols specified by the DB2COMM environment variable.

Check the diagnostic log (db2diag.log) for details on this error. The log will contain more information on the cause of the error and also which communication protocol(s) did not start successfully.

This error only affects communication protocols specified by the DB2COMM environment variable.

SQL5047C **Insufficient memory to execute this function.**

Explanation: There is not enough memory available to execute this function.

The function cannot be completed.

User Response: Stop the application. Possible solutions include:

- Terminate other processes.
- Decrease the values of the configuration parameters that define allocation of memory.
- Ensure that your system has sufficient real and virtual memory.

SQL5048N **The release level of the database client is not supported by the release level of the database server.**

Explanation: Database clients can only access database servers with a release level which is in the range of one level lower than the client to two levels higher than the client.

User Response: One or more of the following:

- Upgrade the client release level to fall within the range of releases supported by the current server release level.
- Upgrade the server release level to a level supported by the current client release level.

SQL5050C **The content of the database manager configuration file is not valid.**

Explanation: The database manager configuration file is not valid. The file may have been altered by a text editor or a program other than the database manager.

The command cannot be processed.

User Response: Reinstall the database manager.

SQL5051N **An object qualified by “<qualifier>” cannot be created in schema “<schema-name>”.**

Explanation: An object created in a CREATE SCHEMA statement is qualified by “<qualifier>” which is different from the schema name. All objects created in a CREATE SCHEMA statement must be either qualified by the schema name “<schema-name>” or not qualified. Unqualified objects are implicitly qualified by the schema name.

The statement cannot be processed.

User Response: Explicitly qualify the object in the schema with “<schema-name>” or remove “<qualifier>” from the object name.

sqlcode: -5051

sqlstate: 42875

SQL5055C The content of the database configuration file is not valid.

Explanation: The database configuration file for the database is not valid. The file may have been altered by a text editor or a program other than the database manager.

User Response: Recreate the database or restore it from a backup version.

sqlcode: -5055

sqlstate: 58031

SQL5060N The configuration parameter token specified is invalid.

Explanation: A token number specified in the sqlfupd structure passed to a Configuration Services API is not valid. It does not represent any of the supported configuration parameters. Alternatively, if an UPDATE was attempted, the token specified may be that of an unmodifiable configuration parameter.

User Response: Choose a valid token number from those specified in the description of the Configuration Services API in the *Application Development Guide*. Recode the call to the API, and rerun the program.

SQL5061N An invalid pointer to structure sqlfupd was passed to Configuration Services.

Explanation: The pointer to structure sqlfupd passed as a parameter to one of the Configuration Services APIs was invalid. It is either NULL, or does not point to an allocated block of memory of the size indicated by the count parameter. See the *Application Development Guide* for more information.

User Response: Correct the code which invokes the Configuration Services API, and retry the API call.

SQL5062N An invalid pointer was passed within the sqlfupd structure to Configuration Services.

Explanation: The structure sqlfupd passed as a parameter to one of the Configuration Services APIs contained an invalid pointer. The pointer is either NULL, or does not point to an allocated block of memory. Each token passed in the structure must have a corresponding pointer to a field that is either passed in or out of the API. See the *Application Development Guide* for more information.

User Response: Correct the code which invokes Configuration Services, and rerun the program.

SQL5065C The nodetype value in database manager configuration file is not valid.

Explanation: The *nodetype* parameter in the database manager configuration file is not valid.

The command cannot be processed.

User Response: Reinstall the database manager.

SQL5070N The count parameter in the configuration command is not valid. It must be greater than 0.

Explanation: The count value passed as a parameter to a Configuration Services API must be greater than 0.

The command cannot be processed.

User Response: Correct the code which invokes Configuration Services, and rerun the program.

SQL5075N The configuration utility was interrupted.

Explanation: An interrupt was received by the configuration utility. The user may have pressed the interrupt key sequence.

The command was not processed. Any requested change is not made.

User Response: Resubmit the command.

SQL5081N **The entry in the database configuration file for the size of the buffer pool (buffpage) is not in the valid range.**

Explanation: The minimum value for the size of the buffer pool is two times the maximum number of active processes (maxappls). The maximum value for the size of the buffer pool is 524288 (number of 4KB pages) and is operating system dependent. The maximum value under AIX is 51000 (204000 for DB2 Enterprise - Extended Edition) (4KB pages). Under HP-UX, the value must be between 16 and 150000 (4KB pages).

The requested change is not made.

User Response: Resubmit the command with a valid value for the size of the buffer pool.

SQL5083N **The entry in the database configuration file for the initial log file size (logfile) is not in the valid range.**

Explanation: The value for the initial log file size must be between 12 and $(2^{32} - 1)$.

The requested change is not made.

User Response: Resubmit the command with a valid value for the initial log file size.

SQL5091N **The entry in the database configuration file for the size of one log file extension (logext) is not in the valid range.**

Explanation: The value for the size of one log file extension must be between 4 and 256.

The requested change is not made.

User Response: Resubmit the command with a valid value for the size of one log file extension.

SQL5092N **The entry in the database configuration file for the maximum allowable number of log file extensions (logmaxext) is not in the valid range.**

Explanation: The value for the maximum allowable number of log file extensions must be between 0 and $(2 * 10^{16})$.

The requested change is not made.

User Response: Resubmit the command with a valid value for the maximum allowable number of log file extensions.

SQL5093N **The entry for the database configuration parameter for the size of the agent heap is not in the valid range.**

Explanation: The value for the size of the agent heap must be between 2 and 85.

The requested change is not made.

User Response: Resubmit the command with a valid value for the agent heap size.

SQL5099N **The new path to the log (newlogpath) in the database configuration file is not valid.**

Explanation: The path to the log file is not valid for one of the following reasons:

- The path string is longer than 242 bytes.
- The path does not exist.
- The first directory in the path has a name in the form SQLNNNNN, where NNNNN is a value from 00001 to 99999.
- A file with the correct name was found in the specified path, but is not a log file for this database.
- The new path to the log is currently being used by another database.
- The device specified by the new path is not big enough to hold the primary log files.

The requested change is not made.

User Response: Resubmit the command with a

valid value for the new log path.

sqlstate: 08004

sqlcode: -5099

SQL5100 - SQL5199

SQL5100N **The entry in the database manager configuration file for the number of allowed concurrent databases is too large.**

Explanation: The requested change would cause (1) the number of allowed concurrent databases to be too large or (2) the number of segments allowed for DB2 to be too small.

The number of allowed concurrent databases is restricted by the maximum number of segments allowed for DB2. The following condition must always be true:

$$\text{segments} \geq ((\text{number of databases} * 5) + 1)$$

The requested change is not made.

User Response: Do one of the following:

- Increase the maximum number of segments allowed for DB2.
- Decrease the number of allowed concurrent databases.

SQL5101N **The entries in the database configuration file define log file parameters (logprimary and logsecond) that are not in the valid range.**

Explanation: The requested change would cause the total number of logfiles to be out of range. The following condition must always be true:

$$\text{logprimary} + \text{logsecond} \leq 128$$

The requested change is not made.

User Response: Do one or both of the following:

- Decrease the number of primary log files.
- Decrease the number of secondary log files.

SQL5103N **The entry in the database configuration file for the size of the buffer pool (buffpage) is too small for the maximum number of active applications (maxappls).**

Explanation: The requested change would cause the maximum number of active applications to be too large for the size of the buffer pool. The following condition must always be true:

$$\text{bufferpool\_size} > (\text{number of active\_processes} * 2)$$

The requested change is not made.

User Response: Do one or both of the following:

- Increase the size of the buffer pool.
- Decrease the maximum number of active processes allowed.

SQL5112N **The value of the configuration parameter "<parameter>" must be either 0 or 1.**

Explanation: The request is not completed because the value given for "<parameter>" is invalid.

User Response: Ensure that the value specified for "<parameter>" is either 0 or 1, then try the request again.

SQL5120N **Old and new log parameters cannot both be modified at the same time.**

Explanation: The user is attempting to modify both the previous log parameters and the new parameters. The application should only support the parameters of the current release.

The request is denied.

User Response: Modify only the parameters of the current release and retry the command.

SQL5121N The entry in the database configuration file for configuration options is not valid.

Explanation: The value set for database options (SQLF_DETS) is not valid. Valid settings are between 0 and 15. The requested change is not made.

The requested change is not made.

User Response: Resubmit the command with a valid database options value.

SQL5122N Access to the database was invalid because of a machine dependent check.

Explanation: The database and database configuration file cannot be accessed because of copy protection.

The user request is denied.

User Response: Return to the original database and modify the configuration file to turn the copy protection off, then create a new backup which may be used to restore the database. This must be done by an individual with SYSADM authority. If the original database is no longer available, contact your service representative.

SQL5123N Database "<name>" cannot be configured because an I/O error occurred while accessing the log control file.

Explanation: An error occurred while accessing SQLOGCTL.LFH for the specified database.

The requested change is not made.

User Response: Restore the database from a backup copy or recreate the database.

SQL5126N An attempt was made to modify the database manager configuration parameter "<parm>" which is not valid for a node type of "<node-type-code>".

Explanation: The user attempted to modify a database manager configuration parameter which

is invalid for the given node type.
"<node-type-code>" is defined as follows:

- 1** Database server with local and remote clients
- 2** Client
- 3** Database server with local clients
- 4** Partitioned Database Server with local and remote clients

The requested change is not made.

User Response: Resubmit the request with a valid parameter for the given nodetype.

SQL5130N The value specified for the configuration parameter "<parameter>" is not in the valid range of "<start-of-range>" to "<end-of-range>".

Explanation: The request is not done because the value of "<parameter>" is not within the valid range.

User Response: Ensure that the value specified for "<parameter>" is within the valid range, then try the request again.

SQL5131N The value specified for the configuration parameter "<parameter>" is not in the valid range. The valid range is "-1", or from "<start-of-range>" to "<end-of-range>".

Explanation: The request is not done because the value of "<parameter>" is not within the valid range.

User Response: Ensure that the value specified for "<parameter>" is within the valid range, then try the request again.

SQL5132N The configuration parameter is null or too long. The maximum length is <maximum length>.

Explanation: The configuration parameter is not set or too long.

User Response: Change the value of the configuration parameter to within the maximum length given.

SQL5133N The value “<value>” for configuration parameter “<parm>” is invalid. The valid set of values is “<value_list>”.

Explanation: “<value>” was the value specified for the configuration parameter “<parm>”. This value is not one of the allowable values shown in the “<value_list>”.

Consult the Application Development Guide (SQLFUPD entry) and the Administration Guide for the meanings of these values.

User Response: Change the value of the configuration parameter to one of the values shown in the valid list.

SQL5134N The configuration parameter tpname contains invalid characters.

Explanation: One or more characters in the tpname is not in the valid range. The characters in the tpname must be one of the following:

- A - Z
- a - z
- 0 - 9
- \$
- #
- @
- . (period)

User Response: Change the tpname and retry the command or function call.

SQL5135N The settings of the maxlocks and maxappls configuration parameters do not use all of the locklist space.

Explanation: The number of active processes (maxappls) times the maximum percentage of lock list space for each application (maxlocks) must be greater than or equal to 100. That is:

`maxappls * maxlocks >= 100`

This ensures that all of the allocated locklist space can be used.

User Response: Increase the setting for maxappls, maxlocks, or both.

SQL5136N The entry in the database manager configuration file for the default database path (dftdbpath) is invalid.

Explanation: An invalid value was specified by dftdbpath. The rules for the default database path on UNIX-based systems are:

1. the path must follow the operating system’s naming conventions
2. the path must exist
3. the path must be less than or equal to 215 characters

The rules for other platforms (such as OS/2, WindowsNT, Windows 95) are:

1. the path must be a drive letter
2. the drive must exist

User Response: Change the dftdbpath and retry the command or function call.

SQL5137N The entry in the database manager configuration file for the diagnostic directory path (diagpath) is invalid.

Explanation: An invalid value was specified for *diagpath*. The rules for the diagnostic directory path are:

1. the path must follow the operating system’s naming conventions
2. the path must exist
3. the path must be less than or equal to 215 characters

User Response: Change the *diagpath* and retry the command or function call.

SQL5140N The entry in the database manager configuration parameter "authentication" must be one of SERVER, CLIENT, DCS, DCE, SERVER_ENCRYPT, or DCS_ENCRYPT.

Explanation: The allowed values for the configuration parameter "authentication" are:

- SERVER = 0
- CLIENT = 1
- DCS = 2
- DCE = 3
- SERVER_ENCRYPT = 4
- DCS_ENCRYPT = 5

The requested change is not made.

User Response: Resubmit the command with a valid value for "authentication".

SQL5141N The configuration parameter avg_appls is out of range. The valid range is from 1 to the value of maxappls.

Explanation: The allowable range for *avg_appls* is from 1 to the value of *maxappls*.

The requested change is not made.

User Response: One or more of the following:

- Change the value of *avg_appls* to a value in the valid range.
- Increase the value of *maxappls* to a higher value, then set *avg_appls* again.

SQL5142N The configuration parameter agentpri is not in the valid range.

Explanation: The valid values for *agentpri* are -1, or a three digit number of which the first digit is a priority class ranging from 2 to 4 and the last two digits are a priority level within the class in the range of 00 to 31. The priority class is defined as follows:

- 2 REGULAR
- 3 TIMECRITICAL

4 FOREGROUNDSERVER

For example, the number 304 would correspond to a priority class of 3 (TIMECRITICAL), with a priority level of 4.

User Response: Change the value of the configuration parameter to a value within the valid range.

SQL5150N The value specified for the configuration parameter "<parameter>" is less than the minimum allowable value of "<minimum value>".

Explanation: The request is not completed because the value given for "<parameter>" is too low. "<parameter>" may not be less than "<minimum value>".

User Response: Ensure that the value specified for "<parameter>" is within the valid range, then try the request again.

SQL5151N The value specified for the configuration parameter "<parameter>" is less than the minimum allowable value of "<minimum value>" and is not -1.

Explanation: The request is not completed because the value given for "<parameter>" is invalid. Except for an allowable value of -1, "<parameter>" may not be less than "<minimum value>".

User Response: Ensure that the value specified for "<parameter>" is within the valid range, then try the request again.

SQL5152N The value specified for the configuration parameter "<parameter>" is greater than the maximum allowable value of "<maximum value>".

Explanation: The request is not completed because the value given for "<parameter>" is too high. "<parameter>" may not be greater than "<maximum value>".

User Response: Ensure that the value specified for "<parameter>" is within the valid range, then try the request again.

SQL5153N The update cannot be completed because the following relationship would be violated: "<condition>"

Explanation: A valid configuration file must maintain the following relationship:

"<condition>".

The update request could not be completed because the resulting configuration would violate that relationship.

User Response: Resubmit the request, ensuring that the relationship is satisfied.

SQL5154N The requested combination of configuration values for "authentication" and "<parameter>" is not allowed.

Explanation: The database manager configuration parameter "authentication" must have the value "CLIENT" if the value of "<parameter>" is non-default.

The requested change is not made.

User Response: Resubmit the command with a valid combination of configuration parameter values.

SQL5155W The update completed successfully. The current value of SORTHEAP may adversely affect performance.

Explanation: The value of SORTHEAP is currently greater than half the value of the

database manager configuration parameter SHEAPTHRES. This may cause performance to be less than optimal.

User Response: Increase the value of the database manager configuration parameter SHEAPTHRES and/or decrease the value of SORTHEAP so that SHEAPTHRES is at least twice as large as SORTHEAP.

A larger ratio is desirable in most cases. See the *Adminstration Guide* for recommendations on configuration parameter tuning.

SQL5156N The value of the database manager configuration parameter "trust_allclnts" must be one of NO, YES, or DRDAONLY.

Explanation: The allowed values for the configuration parameter "trust_allclnts" are:

- NO = 0
- YES = 1
- DRDAONLY = 2

The requested change is not made.

User Response: Resubmit the command with a valid value for "trust_allclnts".

SQL6000 - SQL6099

SQL6000N DB2 Conversion of QMF Data.

Explanation: This is the normal termination message.

User Response: No action is required.

SQL6001N The prefix for the filename was not specified.

Explanation: The user executed a module of the SQLQMF facility directly rather than using the SQLQMF facility command.

The command cannot be processed.

User Response: Use the provided SQLQMF facility command.

SQL6002N Communications Manager encountered a download error.

Explanation: Communications Manager encountered an error during the download of the host file.

The command cannot be processed.

User Response: Review the Communications Manager message log.

SQL6003N The file exported from QMF contains rows that are too long. The row length is “<number>”.

Explanation: The computed row size (the sum of the computed column sizes) exceeds the maximum of 7000 bytes.

The command cannot be processed.

User Response: Return to your QMF host session and run a query with fewer data columns selected. EXPORT the data again and then try the SQLQMF facility command again.

SQL6004N “<function>” returned the unexpected return code “<code>”.

Explanation: An unexpected error occurred during processing. The Communications Manager or DB2 may not be installed or configured correctly.

The command cannot be processed.

User Response: Ensure that Communications Manager has been installed and the appropriate host communications session is active. Retry the command after checking for other errors. If the problem persists, contact your Communications Manager system administrator.

SQL6005N An error occurred while reading the downloaded QMF file.

Explanation: One of the following conditions was encountered:

- The file could not be opened.
- The end of file was encountered prematurely.
- There was an I/O error while reading the file.

The command cannot be processed.

User Response: Review the Communications Manager message log. Retry the command. If the error continues, contact your Communications Manager system administrator.

SQL6006N An error occurred while writing to an output file.

Explanation: One of the following conditions was encountered:

- Not enough space exists on the C: drive to write the data.
- An output file could not be opened.
- An I/O error occurred while writing the file.
- An I/O error occurred while closing the file.
- The file is in use by another OS/2 process.

Federated system users: there isn't enough space to hold the db2djlink output. Additional space is required for the temporary files that db2djlink creates and uses.

The command cannot be processed.

User Response: Check for sufficient disk space on the C: drive. Retry the command.

Federated system users: increase the size of the file system where the federated server is installed. To estimate the amount of free space db2djlink needs on an AIX operating system, enter:

```
ls -le /install_directory/lib/libdb2euni.a
```

This command returns the number of bytes used by the listed file. Multiply that number by 3. The result is an estimate of how much free space is

needed on the file system. Increase the size of the file system as necessary and retry the command.

SQL6007N The decimal number in row “<row>”, column “<column>” cannot be converted to ASCII.

Explanation: The indicated decimal field could not be converted.

The command cannot be processed.

User Response: Verify that the host column data type is DECIMAL. Retry the QMF EXPORT and then try the SQLQMF facility command again. If the error continues, rerun the QMF query without the named column.

SQL6008N The file specified in the command is not in QMF data format.

Explanation: The file specified by the *filename* parameter is not in the expected QMF format.

The command cannot be processed.

User Response: Verify that you have typed the name correctly. If correct, return to your QMF host session and issue the command EXPORT DATA TO *filename* again. Be sure to export using the QMF data format.

SQL6009N The file exported from QMF contains Column “<name>” with a width “<width>” that is too long. The maximum column width is 4000 bytes.

Explanation: The downloaded QMF file has a column width greater than 4000 bytes.

The command cannot be processed.

User Response: Return to your QMF host session, rerun the QMF query without the named column, and export the data again. Then run the SQLQMF facility command again.

SQL6010N The downloaded QMF file has more than 255 data columns.

Explanation: The file being processed has more than 255 data columns.

The command cannot be processed.

User Response: Return to your QMF host session and rerun a query, selecting 255 or fewer data columns. EXPORT the data again and then run the SQLQMF facility command again.

SQL6011N The data type “<number>” (“<type-text>”) of column “<name>” (positioned at column “<number>”) cannot be processed.

Explanation: The QMF file contains a column with data type that is not supported.

The SQLQMF facility does NOT support the following data types:

- LONG VARCHAR
- LONG VARGRAPHIC.

Only the SQLQMF facility SQLQMFDB supports graphic data types.

The command cannot be processed.

User Response: Return to your QMF host session and rerun the query without selecting the named column. Then run the SQLQMF facility command again.

SQL6012N Too many parameters were specified for the command.

Explanation: Too many parameters were specified with the command.

The command cannot be processed.

User Response: Retry the command with the correct number of parameters.

SQL6013N Host filename “<host filename>” is either too long or does not begin with an alphabetic character.

Explanation: The *host filename* does not begin with an alphabetic character; or, if the host is a VM System, the *host filename*, *filetype*, or *filemode* are too long.

The command cannot be processed.

User Response: Retry the command with a correct *host filename* syntax.

SQL6014N Invalid command syntax, colon (':') should follow a keyword.

Explanation: Keyword parameters with operands require the keyword to be immediately followed by a ":" character and then the operand.

The command cannot be processed.

User Response: Verify the command syntax and retry the command.

SQL6015N The keyword is not recognized.

Explanation: The keyword parameter indicator ("/") was followed by a value that is not a keyword.

The command cannot be processed.

User Response: Retry the command using a different keyword value.

SQL6016N Too many operands for the System/370 filename "<name>".

Explanation: If the host is a VM System, the host file name contains more than three space-separate tokens. If the host is an MVS System, the host filename contains embedded blanks.

The command cannot be processed.

User Response: Retry the command using a different keyword value.

SQL6017N More information may be contained in the Import message log "<name>".

Explanation: The database IMPORT operation terminated with warning or error messages.

The command has left its work files allocated.

User Response: Use the message preceding this message and the IMPORT message log, if it exists, to decide if the IMPORT was successful

and to determine corrective action. If the import was successful, erase the DEL, CRE, COL, and IML files.

SQL6018N No S/370 filename was specified.

Explanation: The S/370 filename is a required parameter.

The command cannot be processed.

User Response: Retry the command with a host filename.

SQL6019N Communications short session ID "<ID>" is either too long or is invalid.

Explanation: The value provided for the communications short session ID is either longer than one byte or is not alphabetic.

The command cannot be processed.

User Response: Retry the command with a valid value.

SQL6020N An import option was specified without also providing a database name.

Explanation: No database name was provided and an import option was specified.

The command has terminated.

User Response: Retry the command and include a database name.

SQL6021N Data was successfully imported.

Explanation: This is a normal ending message when the SQLQMF facility imports data to a database.

User Response: No action is required.

SQL6022N System database directory is not shared by all nodes.

Explanation: All nodes should be accessing one physical copy of the system database directory.

The command cannot be processed.

User Response: Ensure that all nodes are accessing the system database directory that resides in the sqllib directory, then try the request again.

SQL6023N The user does not have the authority to run the Get Table Partitioning Information utility on table "<name>".

Explanation: The user attempted to retrieve partitioning information on the specified table without the appropriate authorization (either the SYSADM or DBADM authority or the CONTROL or SELECT privilege on the table).

The utility stops processing.

User Response: Do not attempt to call the Get Table Partitioning Information utility without appropriate authorization. Contact your system administrator for assistance.

SQL6024N Table or index <name> is not defined on node <node-number>.

Explanation: The application is connected to node "<node-number>", and the table or index "<name>" is not defined.

The cause is one of the following:

- The node to which the application is connected is not a member of the nodegroup in which the table or index was created.
- The node is not in use by that nodegroup.

The utility stops processing.

User Response: Connect the application to a node on which the table or index is defined. Determine the nodegroup in which the table was created and obtain the list of nodes in the nodegroup by selecting the appropriate rows from the NODEGROUPDEF catalog view. The nodes whose IN_USE value is set to Y are the ones on which the table or index is defined.

SQL6025N Database backed up on node "<node1>" cannot be restored to node "<node2>".

Explanation: The backup image used for the restore is a backup of the database on a different node.

User Response: Ensure that you have the correct backup image for the node, then try the request again.

SQL6026N Database with catalog node "<node1>" cannot be restored to a database with catalog node "<node2>".

Explanation: The catalog node can exist on only one node and there is a discrepancy between the backup image and the node being restored. This can occur in the following cases:

- The backup image specified catalog node "<node1>" and the restore was attempted on an existing database whose catalog node is node "<node2>".
- The restore was attempted to a new database and the catalog node has not been restored first. (Restore the catalog node first to create the database on all nodes).

User Response: Verify that the correct backup image is being restored.

If you are restoring to an existing database and want to change the catalog node to "<node2>", the existing database must be dropped first.

If you are restoring to a new database, restore the catalog node "<node1>" first.

SQL6027N The path "<path>" for the database directory is not valid.

Explanation: The path "<path>" specified for either the CREATE DATABASE or the CATALOG DATABASE command starts with the character '.' or contains the character string './'.

The command cannot be processed.

User Response: Ensure that the specified path is a fully qualified path, does not start with the

character '.', and does not contain the character string '/.'. Then try the request again.

SQL6028N **Catalog database failed because database "<dbname>" was not found in the local database directory.**

Explanation: When cataloguing a local database into the system database directory, the command/API has to be issued from a node on the server where the database resides.

User Response: Reissue the command/API from a node where the database resides.

SQL6030N **START or STOP DATABASE MANAGER failed. Reason code "<reason-code>".**

Explanation: The reason code indicates the error. The statement cannot be processed.

- (1) Cannot access the sqllib directory of the instance.
- (2) The full path name added to the profile filename is too long.
- (3) Cannot open the profile file.
- (4) The nodenum parameter value is not defined in the db2nodes.cfg file in the sqllib directory.
- (5) The nodenum parameter must be specified when a command option is specified.
- (6) The port parameter value is not valid.
- (7) The new couple hostname/port is not unique.
- (8) The FORCE option cannot be specified when the NODENUM option is specified.
- (9) The hostname and port parameters must be specified when using the ADDNODE option.
- (10) Cannot update the db2nodes.cfg file in the sqllib directory for the ADDNODE or RESTART option.

- (11) The hostname parameter value is not valid.
- (12) The pointer to the sqledbstrtopt or sqledbstopopt structure is not valid.
- (13) No port value is defined for your DB2 instance id (/etc/services file on UNIX-based systems).
- (14) The port value is not in the valid port range defined for your DB2 instance id (/etc/services file on UNIX-based systems).
- (15) A hostname value has no corresponding port 0 defined in the db2nodes.cfg file in the sqllib directory.
- (16) The value specified for the command or option parameter is not valid.
- (17) The DROP option cannot be specified when the NODENUM option is not specified.
- (18) The value specified for the callerac parameter is not valid.
- (19) Unable to create the UNIX socket directory
/tmp/db2_<ver>_<rel>/\$DB2INSTANCE.
- (20) The node number specified with the ADDNODE option already exists in the db2nodes.cfg file or the node has been already been added since the last stop database manager command was issued.
- (21) The tablespace type specified with the ADDNODE option is not valid.
- (22) The tablespace node specified with the ADDNODE option is out of range.
- (23) The computer name parameter must be specified for the ADDNODE option.
- (24) The user name parameter must be specified for the ADDNODE option.
- (25) The computer name is not valid.
- (26) The user name is not valid.
- (27) The password is not valid.
- (28) The password is expired.

- (29) The user account specified is either disabled, expired, or restricted.

User Response: The action corresponding to the reason code is:

- (1) Ensure that the \$DB2INSTANCE userid has the required permissions to access the sqllib directory of the instance.
- (2) Change the profile name to a shorter name so that the total length of the fully qualified path added to the profile name length is smaller than the SQL_PROFILE_SZ defined in the file sqlenv.h.
- (3) Ensure that the profile file exists.
- (4) Ensure that the nodenum value specified is defined in the db2nodes.cfg file in the sqllib directory and is between 0 and 999.
- (5) Resubmit the command with the nodenum parameter specified.
- (6) Ensure that the port value is between 0 and 999. If a value is not specified, the port value defaults to 0.
- (7) Ensure that the new couple hostname/port is not already defined in the db2nodes.cfg file in the sqllib directory.
- (8) Do not specify the FORCE option when you specify the NODENUM option.
- (9) Ensure that the hostname and the port values are specified when you specify the ADDNODE option.
- (10) Ensure that the \$DB2INSTANCE username has write access to the sqllib directory of the instance, that there is sufficient disk space, and the file exists.
- (11) Ensure that the specified hostname is defined on the system.
- (12) Ensure that the pointer is not NULL and points to the sqldbstrtopt for the sqlepstr() API, or to the sqldbstopopt structure for the sqlepstp() API.
- (13) Ensure that the services file

(/etc/services on UNIX-based systems) contains an entry for your DB2 instance id.

- (14) Ensure that you only use port values that are specified in the services file (/etc/services file on UNIX-based systems) for your instance.
- (15) Ensure that all the hostname values have a port 0 defined in the db2nodes.cfg file in the sqllib directory including the restart option parameters.
- (16) Ensure that the value specified for the option parameter is within the valid range.
- (17) Specify the NODENUM option when you specify the DROP option.
- (18) Ensure that the value specified for the callerac parameter is within the valid range.
- (19) Check the permission of the /tmp filesystem to make sure all intermediate directories of /tmp/db2_<ver>_<rel>/\$DB2INSTANCE can be created.
- (20) Ensure that the correct node number is being specified. You must stop the database manager to update the db2nodes.cfg file with nodes that have been added to the system since the previous stop database manager command.
- (21) Ensure that the value specified for the tablespace type is within the valid range.
- (22) Ensure that the tablespace node value specified is defined in the db2nodes.cfg and is between 0 and 999.
- (23) Specify the computer name of the system on which the new node is created using the COMPUTER option.
- (24) Specify a valid domain account user name and password for the new node using the USER and PASSWORD options.

- (25) Resubmit the command with a valid computer name.
- (26) Resubmit the command with a valid user name.
- (27) Resubmit the command with a valid password.
- (28) Change/update the account password and resubmit the command.
- (29) Resubmit the command with a valid user account.

SQL6031N Error in the db2nodes.cfg file at line number "<line>". Reason code "<reason code>".

Explanation: The statement cannot be processed because of a problem with the db2nodes.cfg file, as indicated by the following reason codes:

- (1) Cannot access the sqllib directory of the instance.
- (2) The full path name added to the db2nodes.cfg filename is too long.
- (3) Cannot open the db2nodes.cfg file in the sqllib directory.
- (4) A syntax error exists at line "<line>" of the db2nodes.cfg file in the sqllib directory.
- (5) The nodenum value at line "<line>" of the db2nodes.cfg file in the sqllib directory is not valid.
- (6) The nodenum value at line "<line>" of the db2nodes.cfg file in the sqllib directory is out of sequence.
- (7) The nodenum value at line "<line>" of the db2nodes.cfg file in the sqllib directory is not unique.
- (8) The port value at line "<line>" of the db2nodes.cfg file in the sqllib directory is not valid.
- (9) The hostname/port couple at line "<line>" of the db2nodes.cfg file in the sqllib directory is not unique.

- (10) The hostname at line "<line>" of the db2nodes.cfg file in the sqllib directory is not valid.
- (11) The port value at line "<line>" of the db2nodes.cfg file in the sqllib directory is not defined for your DB2 instance id in the services file (/etc/services on UNIX-based systems).
- (12) The port value at line "<line>" of the db2nodes.cfg file in the sqllib directory is not in the valid port range defined for your DB2 instance id in the services file (/etc/services on UNIX-based systems).
- (13) The hostname value at line "<line>" of the db2nodes.cfg file in the sqllib directory has no corresponding port 0.
- (14) A db2nodes.cfg file with more than one entry exists, but the database manager configuration is not MPP.

User Response: The action corresponding to the reason code is:

- (1) Ensure that the \$DB2INSTANCE userid has the required permissions to access the sqllib directory of the instance.
- (2) Make the instance home directory path name shorter.
- (3) Ensure that the db2nodes.cfg file exists in the sqllib directory and is not empty.
- (4) Ensure that at least 2 values are defined per line in the db2nodes.cfg file and that the file does not contain blank lines.
- (5) Ensure that the nodenum value defined in the db2nodes.cfg file is between 0 and 999.
- (6) Ensure that all the nodenum values defined in the db2nodes.cfg file are in ascending order.
- (7) Ensure that each nodenum value defined in the db2nodes.cfg file is unique.
- (8) Ensure that the port value is between 0 and 999.
- (9) Ensure that the new couple

hostname/port is not already defined in the db2nodes.cfg file.

- (10) Ensure the hostname value defined in db2nodes.cfg at line "<line>" is both defined on the system and operational.
- (11) Ensure that the services file (/etc/services on UNIX-based systems) contains an entry for your DB2 instance id.
- (12) Ensure that you only use port values that are specified in the services file (/etc/services file on UNIX-based systems) for your instance.
- (13) Ensure that the port value 0 has been defined for the corresponding hostname in the db2nodes.cfg file.
- (14) Perform one of the following actions:
 - Remove the db2nodes.cfg file.
 - Alter the db2nodes.cfg file to contain exactly one entry.
 - Install the DB2 Enterprise - Extended Edition server.

SQL6032W Start command processing was attempted on "<total_number>" node(s). "<number_started>" node(s) were successfully started. "<number_already_started>" node(s) were already started. "<number_not_started>" node(s) could not be started.

Explanation: The database manager did not start successfully on all the nodes. Not all of the data in the database may be accessible. Data on the nodes that started successfully or were already running is accessible.

User Response: Check the log file created in the log directory of the sqllib directory for the instance to see which nodes did not start.

SQL6033W Stop command processing was attempted on "<total_number>" node(s). "<number_stopped>" node(s) were successfully stopped. "<number_already_stopped>" node(s) were already stopped. "<number_not_stopped>" node(s) could not be stopped.

Explanation: The database manager did not stop successfully on all the nodes. The database manager is still active on the nodes that could not be stopped.

User Response: Check the log file created in the log directory of the sqllib directory for the instance to see which nodes did not stop.

SQL6034W Node "<node>" is not being used by any databases.

Explanation: During DROP NODE VERIFY processing, all databases are scanned to verify that this node does not exist in the nodegroups of any database, and that no event monitor is defined on this node.

User Response: This node can now be removed from the system by issuing the 'db2stop drop nodenum <node>' command.

SQL6035W Node "<node>" is being used by database "<database>".

Explanation: During DROP NODE VERIFY processing, databases are scanned to verify that this node does not exist in the nodegroups of any database, and that no event monitor is defined on this node. Node "<node>" is being used by database "<database>" and cannot be dropped.

User Response: You must do the following before dropping the node:

1. Redistribute the data to remove it from the node using the REDISTRIBUTE NODEGROUP command. Use either the DROP NODE option of the REDISTRIBUTE NODEGROUP command or the ALTER NODEGROUP statement to drop the node

from the nodegroup. This must be done for all nodegroups in which the node to be dropped is a member.

2. Drop any event monitors that are defined on the node.
3. Issue the 'db2stop drop nodenum <node>' command to drop the node.

SQL6036N START or STOP DATABASE MANAGER command is already in progress.

Explanation: A START DATABASE MANAGER or a STOP DATABASE MANAGER command is already in progress on the system.

User Response: Wait for the command in progress to complete, then try the request again.

SQL6037N START or STOP DATABASE MANAGER timeout value was reached.

Explanation: The start_stop_time value defined in the database manager configuration was reached at the node. This value specifies the time, in minutes, in which a node must respond to a Start Database Manager, Stop Database Manager or Add Node command.

User Response: Do the following:

- Check the First Failure Service Log (db2diag.log) to see if an error message has been logged for the node which timed out. If an error has not been logged, and timeouts persist, you may need to increase the start_stop_time value specified in the database manager configuration file.
- If the timeout occurred during a Start Database Manager command, you should issue a Stop Database Manager command for all nodes which timed out.
- If the timeout occurred during a Stop Database Manager command, you should issue a Stop Database Manager command for all nodes which timed out or for all nodes. Any node which is already stopped will return with a message stating that the node is stopped.

SQL6038N No partitioning key is defined.

Explanation: The user attempted to use the Get Row Partitioning Information utility without specifying a partitioning key.

The utility stops processing.

User Response: Ensure that you specify a partitioning key, then try the request again.

SQL6039N Partitioning column "<column-number>" is currently defined as not nullable.

Explanation: An attempt was made to assign a null value to partitioning column "<column-number>", which is not nullable.

The utility stops processing.

User Response: Assign a non-null value or change the type of the partitioning column to be nullable.

SQL6040C No FCM buffers are available.

Explanation: No FCM buffer is available.

The statement cannot be processed.

User Response: Try the request again.

If the error persists, increase the number of FCM buffers (*fcm_num_buffers*) specified in the database manager configuration file, then try the request again.

sqlcode: -6040

sqlstate: 57011

SQL6041C No FCM connection entries are available.

Explanation: No FCM connection entry is available.

The statement cannot be processed.

User Response: Try the request again.

If the error persists, increase the number of FCM connection entries (*fcm_num_connect*) specified in

the database manager configuration file, then try the request again.

sqlcode: -6041

sqlstate: 57011

SQL6042C No FCM message anchors are available.

Explanation: No FCM message anchor is available.

The statement cannot be processed.

User Response: Try the request again.

If the error persists, increase the number of FCM message anchors (*fcnum_anchors*) specified in the database manager configuration file, then try the request again.

sqlcode: -6042

sqlstate: 57011

SQL6043C No FCM request blocks are available.

Explanation: No FCM request block is available.

The statement cannot be processed.

User Response: Try the request again.

If the error persists, increase the number of FCM request blocks (*fcnum_rqb*) specified in the database manager configuration file, then try the request again.

sqlcode: -6043

sqlstate: 57011

SQL6044N The syntax of the string representation "<string>" with value of datatype "<datatype-value>" and length "<length>" is not correct.

Explanation: The specified string cannot be recognized as the target datatype. (The *Programming Reference* contains information on datatypes.) Either the syntax is not valid or the value is out of range.

The utility stops processing.

User Response: Ensure that the string representation or the datatype is correct, then try the request again.

SQL6045N The datatype "<datatype-value>" of length "<datatype-length>" is not supported.

Explanation: The datatype and data length are not supported for a partitioning key.

The utility stops processing.

User Response: See the *Administration Guide* for information about datatypes. See the *API Reference* for information about the Get Row Partitioning Information API.

SQL6046N Specified DROP NODE action is not valid.

Explanation: The value specified for the action parameter of the DROP NODE command is not valid. Only the verify mode is supported for the DROP NODE command. The parameter must be set to the value SQL_DROPNODE_VERIFY.

The command cannot be processed.

User Response: Ensure that the action is set to SQL_DROPNODE_VERIFY, then try the request again.

SQL6047N Nodegroup cannot be redistributed because table "<name>" does not have a partitioning key.

Explanation: At least one table in the single-node nodegroup does not have a partitioning key. All tables in the single-node nodegroup must have a partitioning key before the nodegroup can be redistributed to a multiple-node nodegroup.

The operation was not performed.

User Response: Use the ALTER TABLE command to specify partitioning keys for tables that do not have one. Then try the request again.

SQL6048N A communication error occurred during START or STOP DATABASE MANAGER processing.

Explanation: A TCP/IP communication error occurred while the START or STOP DATABASE MANAGER command was trying to establish connection with all the nodes defined in the sqllib/db2nodes.cfg file.

User Response: Do the following:

- Ensure that the node has the proper authorization defined in the .rhosts or the host.equiv files.
- Ensure that the application is not using more than (500 + (1995 - 2 * total_number_of_nodes)) file descriptors at the same time.
- Ensure all the DB2 Enterprise - Extended Edition environment variables are defined in the profile file.
- Ensure the profile file is written in the Korn Shell script format.
- Ensure that all the host names defined in the db2nodes.cfg file in the sqllib directory are defined on the network and are running.

SQL6049N The log control file for database "<name>" could not be found on node(s) "<node-list>".

Explanation: The SQLOGCTL.LFH file for the database is not in the database directory on the specified node(s).

The database was not started.

If ",..." is displayed at the end of the node list, see the syslog file for the complete list of nodes.

User Response: Either restore the database from a backup on the specified node(s), or re-create the database.

SQL6050N An I/O error occurred while accessing the log control file for database "<name>" on node(s) "<node-list>".

Explanation: An error occurred while accessing the SQLOGCTL.LFH file for the database on the specified node(s).

The database cannot be used.

If ",..." is displayed at the end of the node list, see the syslog file for the complete list of nodes.

User Response: Either restore the database from a backup on the specified node(s), or re-create the database.

SQL6051N Database "<name>" is not configured for roll-forward recovery on node(s) "<node-list>".

Explanation: The specified database is not configured for roll-forward recovery on the specified node(s).

The database is not rolled forward on all nodes.

If ",..." is displayed at the end of the node list, see the syslog file for the complete list of nodes.

User Response: Ensure that recovery is required on the specified node(s), then restore the most recent backup version of the database on these nodes.

SQL6052N Cannot roll forward database "<name>" because it is not in roll-forward pending state on node(s) "<node list>".

Explanation: The specified database is not in the roll-forward pending state on the specified node(s). This may be because the database has not been restored, or was restored with the WITHOUT ROLLING FORWARD option, or roll-forward recovery is complete on these nodes.

The database is not rolled forward.

If ",..." is displayed at the end of the node list, see the syslog file for the complete list of nodes.

User Response: Do the following:

1. Ensure that recovery is required on the specified node(s).
2. Restore a backup version of the database on these nodes.
3. Issue the ROLLFORWARD DATABASE command.

SQL6053N Error exists in file "<file>". Reason code = "<reason-code>".

Explanation: There is an error in the specified file as indicated by the reason code:

- (1) The number of values in the partitioning map file is not 1 or 4,096.
- (2) The number of values in the distribution file is not 4,096.
- (3) The data in the distribution file is not in a valid format.
- (4) The node number in the partitioning map is not between 0 and 999.
- (5) The sum of all the values in the distribution file is greater than 4,294,967,295.
- (6) The specified target partition map contains a node number that is not defined in SYSCAT.NODEGROUPDEF for the specified nodegroup.

User Response: The action corresponding to the reason code is:

- (1) Ensure that the partitioning map file contains only a single value (if the resultant nodegroup is a single-node nodegroup) or exactly 4,096 values (if the resultant nodegroup is a multinode nodegroup).
- (2) Ensure that the distribution file contains exactly 4,096 values, one per hash partition.
- (3) Ensure that the values in the distribution file are integers greater than or equal to 0, and that the sum of all the distribution values is less than or equal to 4,294,967,295.
- (4) Ensure that the node numbers are in the

range of greater than or equal to 0 and less than or equal to 999.

- (5) Ensure that the sum of all the distribution values for the 4,096 partitions is less than or equal to 4,294,967,295.
- (6) Either issue ALTER NODEGROUP to add the missing node(s) or change the partitioning map file to exclude the node(s) not defined in sysibm.sysnodegroupdef.

SQL6054N The archive file "<name>" is not a valid log file for the database "<name>" on node "<node-number>".

Explanation: An archive log file exists in the log directory on the specified node, but it is not valid.

The ROLLFORWARD DATABASE processing stops.

User Response: To determine the correct archive log file, issue the ROLLFORWARD DATABASE command with the QUERY STATUS option. Move the correct archive log file to the database log directory or, if the database is in a consistent state, change the log path to point to the correct archive file and issue the ROLLFORWARD DATABASE command again.

SQL6055N The archive file "<name>" does not belong to database "<name>" on node "<node-number>".

Explanation: An archive log file in the log directory on the specified node does not belong to the specified database.

The ROLLFORWARD DATABASE processing stops.

User Response: To determine the correct archive log file, issue the ROLLFORWARD DATABASE command with the QUERY STATUS option. Move the correct archive log file to the database log directory or, if the database is in a consistent state, change the log path to point to the correct archive file and issue the

ROLLFORWARD DATABASE command again.

SQL6056N Nodegroup cannot be redistributed. Reason code = "<reason-code>".

Explanation: The operation cannot be executed. The reason code indicates the error.

- (1) The nodegroup specification is not legal. The resulting nodegroup after redistribution would not contain any nodes.
- (2) A previous redistribution operation did not complete successfully.
- (3) A redistribution operation is already in progress.
- (4) There is no previously aborted redistribution command to CONTINUE or ROLLBACK.
- (5) No data redistribution is performed because the data in the nodegroup is already distributed as specified.
- (6) The REDISTRIBUTE NODEGROUP command was not submitted from the catalog node.
- (7) The REDISTRIBUTE NODEGROUP command is not available nor applicable in this non-partitioned version of the product.

User Response: The action corresponding to the reason code is:

- (1) Do not drop all the nodes of the nodegroup during redistribution.
- (2) Identify why the previous redistribution failed and take the required corrective action. Submit the REDISTRIBUTE NODEGROUP command using either the CONTINUE or ROLLBACK option. CONTINUE will complete the previously aborted redistribution operation and ROLLBACK will undo the effects of the previously aborted operation.
- (3) Issue the next REDISTRIBUTION

NODEGROUP command after the current one completes.

- (4) You cannot invoke the CONTINUE or ROLLBACK option on a nodegroup that is not associated with a failed redistribution operation.
- (5) Try using a different target partitioning map or distribution file. Otherwise, redistribution is not necessary.
- (6) Issue the command again from the catalog node.
- (7) Do not issue the REDISTRIBUTE NODEGROUP command using this version of the product.

SQL6057N Archive file "<name>" is not associated with the database "<name>" that was restored, or with the log file previously processed on node "<node-number>".

Explanation: An archive log file is found in the log directory on the specified node, but does not belong to the specified database.

The ROLLFORWARD DATABASE processing stops.

User Response: To determine the correct archive log file, issue the ROLLFORWARD DATABASE command with the QUERY STATUS option. Move the correct archive log file to the database log directory or, if the database is in a consistent state, change the log path to point to the correct archive file and issue the ROLLFORWARD DATABASE command again.

SQL6058N Roll-forward recovery stopped because of error "<error>" while retrieving log file "<name>" for database "<name>" on node "<node-number>".

Explanation: Roll-forward processing invokes the *db2uexit* to retrieve the log file for the database on the specified node. The error may have occurred in the *db2uexit*.

The ROLLFORWARD DATABASE processing stops.

User Response: See the user exit documentation in the *Administration Guide* for a description of the error, and either resume or terminate the roll-forward recovery.

SQL6059N **The point-in-time passed to the Rollforward utility must be greater than or equal to "<timestamp>", because database "<name>" on node(s) "<node-list>" contains information later than the specified time.**

Explanation: An advanced virtual timestamp is in the database backup.

If "... " is displayed at the end of the node list, see the syslog file for the complete list of nodes.

User Response: Do one of the following:

- Issue the command again with a point-in-time that is greater than or equal to "<timestamp>".
- Restore an earlier backup on node(s), then issue the ROLLFORWARD DATABASE command again.

SQL6061N **Roll-forward recovery on database "<name>" cannot reach the specified stop point (end-of-log or point-in-time) because of missing log file(s) on node(s) "<node-list>".**

Explanation: The Rollforward Database utility cannot find the necessary log file(s) in the logpath.

User Response: Do one of the following:

- Use the ROLLFORWARD DATABASE command with the QUERY STATUS option to determine which log files are missing. When you find the log files, put them in the log path and resume forward recovery.
- If you cannot find the missing log files, restore the database on all nodes, then do point-in-time recovery using a timestamp that is earlier than that of the earliest missing log file.

SQL6062N **Roll-forward recovery on database "<name>" cannot complete because the log information on node(s) "<node-list>" does not match the corresponding record(s) on the catalog node.**

Explanation: The Rollforward utility processed all the log files found on each node, but the stop points on the specified nodes do not match the corresponding records on the catalog node. This can be caused by missing log files on either the catalog node or on the specified nodes, or the catalog node must be included in the list of nodes to be rolled forward.

The ROLLFORWARD DATABASE processing stops.

User Response: Do one of the following:

- Check if the catalog node needs to be rolled forward. If it does, submit the ROLLFORWARD command again and include the catalog node.
- Use the ROLLFORWARD DATABASE command with the QUERY STATUS option to determine which log files are missing. When you find the log files, put them in the log path and resume forward recovery.
- If you cannot find the missing log files, restore the database on all nodes, then do point-in-time recovery using a timestamp that is earlier than that of the earliest missing log file.

SQL6063N **Roll-forward recovery on database "<name>" has stopped on node(s) "<node-list>" due to a change in log file size.**

Explanation: The Rollforward Database utility has stopped rolling forward because the log files have changed in size. It must be restarted to establish the new log file size.

If "... " is displayed at the end of the node list, see the diagnostic log for the complete list of nodes.

Roll-forward recovery has stopped.

(Note : if you are using a partitioned database

server, the node number(s) indicate which node(s) the error occurred on. Otherwise, it is not pertinent and should be ignored.)

User Response: Reissue the ROLLFORWARD command to continue.

SQL6064N SQL error "<sqlcode>" occurred during data redistribution.

Explanation: An error occurred during data redistribution.

The utility stops processing.

User Response: Look at the SQLCODE (message number) in the message for more information. Make any required changes and try the request again.

SQL6065N An error occurred while writing to file "<file>".

Explanation: One of the following conditions was encountered:

- The file could not be opened.
- An I/O error occurred while writing to the file.
- An I/O error occurred while closing the file.

The command or the utility cannot be processed.

User Response: Ensure that the file exists and that the file permissions allow write access. Try the command or the utility again.

SQL6067W ROLLFORWARD DATABASE QUERY STATUS command encountered sqlcode "<sqlcode>".

Explanation: The ROLLFORWARD DATABASE QUERY STATUS command encountered an error with the sqlcode "<sqlcode>". The query might not be successful on some nodes for various reasons. The most severe error is indicated by "<sqlcode>". The roll-forward status is only returned for the successful nodes.

User Response: Look up the sqlcode "<sqlcode>" in the *DB2 Messages Reference*, or online to determine the problems on the failed

nodes. Take the required corrective actions, then continue the forward recovery on these nodes.

SQL6068W Rollforward operation was cancelled successfully. The database has to be restored on node(s) "<node-list>".

Explanation: A Rollforward operation was cancelled before it successfully completed, and the database is left in an inconsistent state. The restore pending flag is on for the listed nodes.

If "... " is displayed at the end of the node list, see the syslog file for the complete list of nodes.

User Response: Restore the database on the listed nodes.

SQL6069N The ROLLFORWARD DATABASE command cannot be submitted on a non-catalog node.

Explanation: The ROLLFORWARD DATABASE command is only accepted on the catalog node.

User Response: Submit the command on the catalog node.

SQL6071N The requested operation cannot be processed because a new node has been added to the system. The system must be stopped and started again before the operation can be done.

Explanation: One of the following:

- The request was issued from the new node, and this node cannot communicate with other nodes.
- A CREATE or DROP DATABASE operation was requested before all nodes were stopped and started again to include the new node.

User Response: Issue db2stop to stop all the nodes. When all nodes are successfully stopped, issue db2start to start all the nodes, including the new node, then try the request again.

sqlcode: -6071

sqlstate: 57019

SQL6072N DB2START with the RESTART option cannot proceed because the specified node is already active.

Explanation: The node specified for restart is already active on the system.

User Response: If necessary, issue a DB2STOP specifying the node to stop and issue the DB2START command again to restart the node.

SQL6073N Add Node operation failed. SQLCODE = "<sqlcode>".

Explanation: The Add Node operation failed with sqlcode "<sqlcode>".

User Response: Check the message associated with the sqlcode that is returned in either the *DB2 Messages Reference*, or online.

Take any required corrective action, then try the request again.

SQL6074N Add Node operation failed because a Create or Drop Database operation is currently executing.

Explanation: An Add Node operation cannot execute concurrently with a Create or Drop Database operation.

User Response: Wait for the Create or Drop Database operation to complete, then try the request again.

SQL6075W The Start Database Manager operation successfully added the node. The node is not active until all nodes are stopped and started again.

Explanation: The db2nodes.cfg file is not updated to include the new node until all nodes are simultaneously stopped by the STOP DATABASE MANAGER (db2stop) command. Until the file is updated, the existing nodes cannot communicate with the new node.

User Response: Issue db2stop to stop all the nodes. When all nodes are successfully stopped,

issue db2start to start all the nodes, including the new node.

SQL6076W Warning! This command will remove all database files on the node for this instance. Before continuing, ensure that there is no user data on this node by running the DROP NODE VERIFY command.

Explanation: This procedure will remove all the database partitions from the specified node.

User Response: Ensure that the DROP NODE VERIFY command was run before dropping this node. If using the API, ensure that the callerac parameter is specified correctly.

SQL6077W The db2stop DROP NODENUM procedure ended successfully, but could not remove all the files. See the file "<file>" for details.

Explanation: The db2stop DROP NODENUM procedure ended successfully, but some user data files are still on the node.

User Response: Information in "<file>" file will indicate the directory structure from which files could not be deleted.

SQL6078N The db2stop DROP NODENUM procedure could not update the database information for database "<dbname>".

Explanation: The db2stop DROP NODENUM procedure could not access the catalog node for database "<dbname>".

User Response: Try the request again. If the problem persists, contact your service representative.

SQL6079W **The db2stop DROP NODENUM command was cancelled successfully.**

Explanation: The db2stop DROP NODENUM command was stopped before it began processing.

User Response: None.

SQL6080W **The Start Database Manager operation successfully added in the node, but no database partitions have been created on the node. The node is not active until all nodes are stopped and started again.**

Explanation: The db2nodes.cfg file is not updated to include the new node until all nodes are simultaneously stopped by the STOP DATABASE MANAGER (DB2STOP) command. Until the file is updated, the existing nodes cannot communicate with the new node.

User Response: Issue DB2STOP to stop all the nodes. When all nodes are successfully stopped, issue DB2START to start all the nodes, including the new node. When all nodes are successfully

started, the database system can be used.

SQL6081 **A communication error caused a DB2STOP FORCE command to time out on this node.**

Explanation: A communication error occurred on one or more of the database nodes, causing the DB2STOP FORCE command to time out on the current node, or, DB2STOP FORCE terminated because a severe error occurred during FORCE on one or more nodes. Any node where the communication error occurred will receive the SQL6048N message.

User Response: Do the following:

1. Correct the communication error on the node (or nodes) that received the SQL6048N message.
2. Issue a DB2START command and ensure that all nodes that received the SQL6048N message started successfully.
3. Issue the DB2STOP FORCE command again from any node.
4. Look at the db2diag.log file to find the error, correct it if possible, and reissue the DB2STOP FORCE command from any node.

SQL6100 - SQL6199

SQL6100N **The partitioning map in the data file and the partitioning map for the database are not the same.**

Explanation: The data to be loaded has either not been partitioned, or was partitioned with a partitioning map other than the current one for the nodegroup to which the table belongs. The data cannot be loaded.

User Response: If the data was not partitioned, use the db2split program to partition the data, then load the partitioned data.

If the data was partitioned, do one of the following:

- Use the partitioning map from the header of the data file to redistribute the nodegroup to which the table belongs. Then try the request again.

- Repartition the data with the current partitioning map for the nodegroup. Then try the request again to load the newly partitioned data.
-

SQL6101N **This data file contains data for node "<node-1>" but the Load utility is connected to node "<node-2>".**

Explanation: The data to be loaded is associated with a node number that differs from the node number of the node to which the application is connected. The data cannot be loaded.

User Response: Either find the data file associated with this node and try the request again with that data file, or connect to the node associated with this data file and issue the request at that node.

SQL6102W The parameter “<name>” is reserved for future use. Its value should be set to “<default-value>”.

Explanation: A parameter reserved for future capabilities has been set to a value that is not its default value. It should be set to the default value to ensure future compatibility.

User Response: Ensure that the parameter “<name>” is set to the value, “<default-value>”, then try the request again.

SQL6103C An unexpected utility error occurred. Reason code = “<reason-code>”.

Explanation: An unexpected utility error occurred.

User Response: Record the message number (SQLCODE) and reason code in the message.

If trace was active, invoke the Independent Trace Facility at the operating system command prompt. See the *Administration Guide* for information on how to use this facility. Then contact your technical service representative with the following information:

- Problem description
- SQLCODE and embedded reason code
- SQLCA contents if possible
- Trace file if possible

SQL6104N The load utility does not support the creation of indexes.

Explanation: The load utility does not support the creation of indexes, but the table to be loaded has at least one index defined on it. The index may have been explicitly created with the CREATE INDEX statement or implicitly created when a primary key was defined for the table.

User Response: Drop all indexes defined on the table with the DROP INDEX statement. Drop the primary key with the ALTER TABLE statement. Resubmit the command.

Use CREATE INDEX and ALTER TABLE as

required to recreate indexes and primary key after the load completes successfully.

SQL6105W The Load utility has completed processing. A Rollforward done to a point in time after the load will not succeed. Take a database backup now if database recoverability is required.

Explanation: No logging is done by the Load utility. If you try to roll forward with a backup made before the load, the operation will fail when it encounters references to the data that was loaded.

User Response: To ensure database recoverability after the load, do a backup before the data is modified.

SQL6106N The filetype modifier “NOHEADER” was specified, but the nodegroup on which the table is defined is not a single-node nodegroup.

Explanation: The data to be loaded was specified as having no header information. However the target table specified is not a single-node table. The data cannot be loaded.

User Response: The data must be split using db2split, then loaded without the “NOHEADER” option.

SQL6107N The partitioning key information in the data file is not correct.

Explanation: Either the data was not split with db2split or the db2split operation was not successful.

User Response: Use the db2split program to partition the data and then try the request again with the partitioned data. If the insert-column option is being used, ensure that all of the partitioning columns are specified in the column list.

If the problem persists, contact your technical service representative with the following information:

- Problem description
- SQLCODE and embedded reason code
- SQLCA contents if possible
- Trace file if possible

SQL6108N **The number of partitioning keys defined in the data file header (“<number-1>”) does not match the number of partitioning keys defined for the table (“<number-2>”).**

Explanation: The partitioning columns specified in the db2split configuration file were not correct. The data was not correctly split.

User Response: Do the following:

1. Ensure that the correct partitioning columns are specified in the db2split configuration file.
2. Split the data.
3. Issue the Load operation with the newly partitioned data.

SQL6109N **Utility expected partitioning column “<column-name-1>”, but found partitioning column “<column-name-2>”.**

Explanation: In the db2split configuration file:

- One of the partitioning columns defined for the table was not specified.
- The order of the partitioning columns was incorrect
- A column was specified that is not a partitioning column for the table.

User Response: Do the following:

1. Ensure that the db2split configuration file is correct.
2. Split the data.
3. Issue the Load operation with the newly partitioned data.

SQL6110N **Utility expected partitioning column type “<column-type-1>” for column “<column-name-1>”, but the data file lists it as type “<column-type-2>”.**

Explanation: The db2split configuration file is not correct.

User Response: Do the following:

1. Ensure that the db2split configuration file is correct.
2. Split the data.
3. Issue the Load operation with the newly partitioned data.

SQL6111N **Cannot create a subdirectory under the path specified by newlogpath.**

Explanation: When the newlogpath parameter is updated, the system attempts to create a subdirectory under the specified path using the node name as the name of the subdirectory. One of the following operating system errors prevented the creation of the subdirectory:

- The file system or path does not have the appropriate permissions for file creation.
- The file system does not have enough disk space.
- The file system does not have enough file blocks or inodes.

The requested change is not made.

User Response: Do one of the following, then try the request again:

- Ensure that the specified path exists and that the filesystem and path have read/write permissions.
- Specify a different newlogpath.

If the problem persists, see your system administrator.

SQL6112N **The requested change cannot be done. The resulting configuration parameter settings are not valid. Reason code "<reason-code>".**

Explanation: Three rules govern the settings of some configuration parameters. The rule that would be violated is indicated by the "<reason-code>":

- (1) `max_coordagents + num_initagents <= maxagents`
- (2) `num_initagents <= num_poolagents`
- (3) `maxdari <= max_coordagents`

User Response: Ensure that the values you specify do not violate any of the above rules, then try the request again.

SQL6500 - SQL6599

SQL6500W **RESTARTCOUNT in the load command may cause some problems.**

Explanation: Since multiple loading processes for the same table are completely independent, it is almost impossible to have an identical restartcount for those multiple loading processes.

User Response: Please make sure you have the correct load command in the configuration file.

User Response: Check the sample configuration file, correct your output node list specification, and rerun the command.

SQL6501N **Database name was not given in the configuration file.**

Explanation: Database name has to be specified in the configuration file.

User Response: Please specify the database name and rerun the command.

SQL6505N **There are errors in the split node list specification (parameter: splitnodes) in the configuration file.**

Explanation: The split node list specification is not valid.

User Response: Check the sample configuration file, correct your split node list specification, and rerun the command.

SQL6502N **The path name (parameter: data_path) for data file was not specified.**

Explanation: If the input data file is remote, the file will be transferred locally. The path to the file on the remote machine must be supplied.

User Response: Please specify the path name to the remote data file and rerun the command.

SQL6506N **The program failed to extract partitioning key information for table "<table-name>" from the system catalog table.**

Explanation: Either the table is not defined, or it is not defined in an MPP environment.

User Response: Make sure you have the table properly defined.

SQL6504N **There are errors in the output node list specification (parameter: outputnodes) in the configuration file.**

Explanation: The output node list specification is not valid.

SQL6507N **Checking level (parameter: check_level) in the configuration file is not valid.**

Explanation: Checking level (parameter: check_level) can be either CHECK or NOCHECK. The default is CHECK.

User Response: Correct the parameter in the configuration file, and rerun the command.

SQL6508N **The program failed to create the output pipe for the ftp process.**

Explanation: If input data files are remote, they will be transferred to a local pipe. If this local pipe already exists, the process will fail.

User Response: Please ensure your working space is clean.

SQL6509N **The program failed to create input pipes for the splitter processes.**

Explanation: The program can not create temporary input pipes for the splitter processes.

User Response: Please ensure your working space is clean.

SQL6510N **The program failed to create the temporary directory at local non-NFS space of node "<node-num>".**

Explanation: The program needs a temporary working directory at local non-NFS space of all splitting and output nodes.

User Response: Please ensure your working space is clean.

SQL6511N **The program failed to create output for the splitter process at node "<node-num>".**

Explanation: The program can not create temporary output pipes for the splitter at node "<node-num>".

User Response: Please ensure your working space is clean.

SQL6512N **The program failed to create input pipes for the merging process at node "<node-num>".**

Explanation: The program can not create temporary input pipes for the merging process at node "<node-num>".

User Response: Please ensure your working space is clean.

SQL6513N **The program failed to create the input pipe for the loading process at node "<node-num>".**

Explanation: The program can not create temporary input pipe for the loading process at node "<node-num>".

User Response: Please ensure your working space is clean.

SQL6514N **The program can not read the node configuration file: "<node-cfg-file>".**

Explanation: Either the file does not exist, or it is not readable.

User Response: Please check the existence and permissions of the node configuration file.

SQL6515N **The program failed to find a load command in the configuration file.**

Explanation: A CLP load command must be supplied in the configuration file.

User Response: Please specify a CLP load command in the configuration file.

SQL6516N **The program failed to connect to database "<db-name>".**

Explanation: Either the database manager has not been started yet, or it encountered problems.

User Response: Check your database manager status.

SQL6517N **The program failed to extract the node list, where the table "<tbl-name>" is defined, from the system catalog table.**

Explanation: Either the table is not defined, or it is not defined in an MPP environment.

User Response: Check how the table was defined in the database.

SQL6518N **The record length (reclen in the load command) is not valid.**

Explanation: Valid record is between 1 to 32768.

User Response: Please correct the record length, and rerun the command.

SQL6519N **The mode (parameter: mode) "<mode>" in the configuration file is not valid.**

Explanation: The running mode of this program can be: SPLIT_ONLY, LOAD_ONLY, SPLIT_AND_LOAD (default), or ANALYZE.

User Response: Please correct the mode in the configuration file.

SQL6520N **The program failed to create output pipes for the process, which generates the header information for split file.**

Explanation: The program can not create output pipes for the process, which generates the header information for split file.

User Response: Please ensure your working space is clean.

SQL6521N **The configuration file "<cfg-file>" for this program doesn't exist.**

Explanation: The program needs a configuration file.

User Response: Please create a configuration file.

SQL6522N **The program found a path name for the input data files in the load command.**

Explanation: Path name for input data files in the load command is not allowed. There is a separate parameter (data_path) for this purpose.

User Response: Please correct the configuration file.

SQL6523N **The element "<node-num>" in the split node list (parameter: SplitNodes) is not defined in the node configuration (db2nodes.cfg) file.**

Explanation: All nodes in the split node list must have an entry in the node configuration file.

User Response: Please correct your split node list.

SQL6524N **The element "<node-num>" in the output node list (parameter: Outputnodes) is not a member of the node list where the table is defined.**

Explanation: All nodes in the output node list must be members of the node list where the table is defined.

User Response: Please correct your output node list.

SQL6525N **The program can not read the input data file "<file-name>".**

Explanation: Either the input data file was not found, or it is not readable.

User Response: Please check the existence and permissions of the input data file.

SQL6526N **The program can not write in current working directory "<cwd>".**

Explanation: The current working directory is not writable.

User Response: Please check the permission of current working directory.

SQL6527N **The node where statistic data will be collected, (parameter: run_stat_node), is not a member of the output node list.**

Explanation: The node where statistic data will be collected must be a member of the output node list.

User Response: Please correct the run_stat_node parameter.

SQL6528N **Record length was not specified in the load command.**

Explanation: If the BINARYNUMERICS or PACKEDDECIMAL modifier is specified in the load command, record length (reclen) must be specified in the load command as well.

User Response: Please correct the load command.

SQL6529N **The NO HEADER option (NOHEADER) was not specified in the load command.**

Explanation: If a table is defined in a single node nodegroup, the NOHEADER modifier must be specified in the load command.

User Response: Please correct the load command.

SQL6530N **The data type of one partitioning key is float or double.**

Explanation: If the input file is a non-binary data file, float or double columns can not be defined as partitioning key.

User Response: Supply a binary data file, or change the definition of your table.

SQL6531N **The program failed to reset tablespace quiesce.**

Explanation: There are probably on-going loading processes. Make sure all previous loading processes are completed before another autoloader session can be started.

User Response: Check the processes status on your machine.

SQL6532N **A savecount in the load command can not be set to non-zero.**

Explanation: The savecount in the load command can not be set to non-zero if there are multiple splitting nodes, the mode is SPLIT_AND_LOAD, and the command is either a REPLACE INTO or INSERT INTO load command.

User Response: Please correct the load command.

SQL6533N **A restartcount in the load command can not be set to non-zero.**

Explanation: Because multiple splitting nodes produce random order of records for loading process(es), using RESTART INTO with a restartcount can not guarantee a successful recovery.

User Response: Please correct the load command.

SQL6534N **There is an error in the .netrc file "<netrc-file>".**

Explanation: Either the .netrc file could not be found, or there is no entry for remote host "<machine>", or the permissions of the file are not correct.

User Response: Please check the existence and permission of the .netrc file.

SQL6535N **The mode SPLIT_ONLT is not valid.**

Explanation: If a table is defined in a single node nodegroup, either splitting or analyzing is not necessary.

User Response: Please change the mode from SPLIT_ONLT to LOAD_ONLY or SPLIT_AND_LOAD.

SQL6536N **The program "<progname>" failed to open file "<filename>" for reading.**

Explanation: An autoloader process can not successfully open a file or pipe for reading.

User Response: Please ensure everything is correct in the configuration file.

SQL6537N **The program "<progname>" failed to open file "<filename>" for writing.**

Explanation: An autoloader process can not successfully open a file or pipe for writing.

User Response: Please ensure everything is correct in the configuration file.

SQL6538N **The program failed to read the split file "<split-file>".**

Explanation: When the program is invoked in LOAD_ONLY mode, the input data file must have already been split, and all split files must be readable by the program.

User Response: Check whether or not the input data file has been split, and the access permissions of the resulting split files.

SQL6539N **There is at least one command in "<cmd-list>" not found in the working environment.**

Explanation: The execution of this program depends on a number of common Unix commands. The process fails if any one of them is not available in the working environment.

User Response: Make sure you have all necessary commands properly installed on your system.

SQL6540N **File type "<file-type>" specified in the load command is not valid.**

Explanation: Valid file types are ASC (positional ASCII) or DEL (delimited ASCII).

User Response: Correct the load command in the configuration file.

SQL6550N **The partitioning map file "<map-file-name>" could not be opened for writing.**

Explanation: The file name and path for the partitioning map could not be opened. An error occurred.

User Response: Confirm that the partitioning map file name and file path were specified correctly and that the file can be opened for writing.

SQL6551N **An error occurred while attempting to write to the partition map file.**

Explanation: A filesystem error occurred when writing to the partitioning map file.

User Response: Check that the file path is correct, and that the target device has sufficient space to hold the partitioning map output.

SQL6552N **An error occurred while attempting to open a temporary configuration file "<filename>" for writing.**

Explanation: The file name and path for a temporary file could not be opened. An error occurred.

User Response: Confirm that the utility temporary file storage path was specified correctly and that the path allows for files to be opened for writing.

SQL6553N **An error occurred while attempting to write to a temporary configuration file "<filename>".**

Explanation: A filesystem error occurred when writing to a temporary file.

User Response: Check that the file path is correct, and that the target device has sufficient space for the file data.

SQL6554N An error occurred when attempting to remotely execute a process.

Explanation: The utility attempted to start a child process on a different database partition, but an error occurred.

User Response:

- If no user ID or password was provided to the utility for remote access, ensure that the user ID invoking the utility is authorized to execute programs on the target node(s).
- If a user ID and password were supplied to the utility confirm that they were supplied correctly.
- If running on NT make sure the DB2 installation has correctly defined an NT Service for the splitter operation on all nodes.
- If you are unable to resolve this problem, please contact DB2 service.

SQL6555N The Autoloader utility encountered an unexpected communications error.

Explanation: The utility encountered an error attempting one of the following operations:

- Attempting to connect to a TCP/IP socket.
- Attempting to read or write a TCP/IP msg.
- Attempting to initialize TCP/IP communications
- Attempting to retrieve a complete host name.
- Attempting to select an active TCP/IP socket.
- Attempting to close an active socket.
- Attempting to retrieve a port number.

User Response:

- If service name setup was required for the version of the Autoloader you are using, ensure that the service names have been defined correctly.
- If you are running concurrent Autoloader jobs, ensure that you have followed the documented setup requirements to avoid service name conflicts between the concurrent utility jobs.

- If the problem persists, contact your DB2 Service representative.

SQL6556W An incomplete record was detected at the end of file "<filename>".

Explanation: An incomplete data record was found at the end of a data file provided to the utility by the user.

User Response: Examine the source data for syntactical correctness.

SQL6557N Failed to retrieve the default node number.

Explanation: The utility attempted to determine a default node number, but was unable to.

User Response: State source and target node numbers explicitly in the utility configuration file, or contact DB2 Service for assistance.

SQL6558N The utility failed to determine the current working directory and/or drive.

Explanation: The utility attempted to determine the current working directory and/or drive but encountered an error.

User Response: Contact DB2 Service for assistance.

SQL6559N An invalid command line option was provided to the Autoloader utility.

Explanation: The user specified a command line option for the Autoloader utility which is either not supported, or obsolete.

User Response: Refer to the Autoloader documentation, or online help, for the supported options and features.

SQL6560N Node "<node-number>" which is an execution node for splitting does not appear in the db2nodes.cfg file.

Explanation: A node specified as an execution node for splitting does not appear to be a member in the db2nodes.cfg file. The work intended to complete on this node can not be started.

User Response: Add the node to the node list definition in the db2nodes.cfg file, or specify an alternate node for the split operation which is a member of the node configuration.

SQL6561N Target node "<node-number>" for load does not appear in the nodegroup.

Explanation: A node was specified as a target node for loading, but this node is apparently not a member of the node group being loaded.

User Response: Check the nodegroup definition and confirm that the target node specified for loading is part of this nodegroup. If the node is not part of the nodegroup correct the utility target node specification to include the correct list of nodes. If the node is part of the nodegroup, please contact DB2 Service for assistance.

SQL6562N The utility is unable to retrieve the instance name.

Explanation: The utility attempted to retrieve the instance name but encountered an error.

User Response: Confirm that the utility is running on a node with DB2 installed, and a valid instance is running. For additional help, please contact DB2 Service.

SQL6563N Failed to retrieve the current user ID.

Explanation: The utility attempted to retrieve the current user ID for the ID, but an error was encountered.

User Response: Contact DB2 Service.

SQL6564N The password supplied is not valid.

Explanation: The user supplied an explicit password to the utility, but the password is not valid.

User Response: Supply a valid password.

SQL6565I Usage: db2atld [-config config-file] [-restart] [-terminate] [-help]

Explanation:

- The '-config' option will run this program using a user specified configuration file; the default is autoloader.cfg.
- The '-restart' option will run this program in restart mode; the configuration file should not be modified since the last incomplete Autoloader job.
- The '-terminate' option will run this program in terminate mode; the configuration file should not be modified since the last incomplete Autoloader job.
- The '-help' option will generate this help message.

The Autoloader configuration file is a user supplied file which contains the LOAD command to be executed, the target database, and several optional parameters that the user may specify. The sample configuration file, 'autoloader.cfg', supplied in the samples directory contains inline comments which describe the available options and their defaults. When running this program with '-restart' and '-terminate' option, user should not modify the configuration file from their last incomplete job.

User Response: Refer to the DB2 documentation for further details about the Autoloader utility.

SQL6566N The LOAD command is missing from the Autoloader configuration file.

Explanation: The LOAD command is missing from the Autoloader configuration file. The

parameter must be specified.

User Response: Ensure that you have specified the correct configuration file for the Autoloader, and that the LOAD command is specified inside.

SQL6567N **The "<option-name>" option appears multiple times in the Autoloader configuration file.**

Explanation: An option parameter was specified multiple times inside the Autoloader configuration file.

User Response: Correct the configuration file so that each option appears at most only once.

SQL6568I **The Autoloader is now issuing all LOAD requests.**

Explanation: The Autoloader is starting the LOAD operation on each of the target LOAD partitions.

User Response: This is an informational message.

SQL6569I **The Autoloader is now issuing all split requests.**

Explanation: The Autoloader is now issuing the split operation on each of the target split partitions.

User Response: This is an informational message.

SQL6570I **The Autoloader is waiting for all splitters to complete.**

Explanation: The Autoloader is waiting for all splitters to complete.

User Response: This is an informational message.

SQL6571I **The Autoloader is waiting for all LOAD operations to complete.**

Explanation: The Autoloader is waiting for LOAD operations to complete.

User Response: This is an informational message.

SQL6572I **The LOAD operation has begun on partition "<node-number>".**

Explanation: The LOAD operation has begun on the specified partition.

User Response: This is an informational message.

SQL6573I **The remote execution of the splitter utility on partition "<node-number>" finished with remote execution code "<code>".**

Explanation: The remote execution of the splitter utility on the specified partition has completed.

User Response: This is an informational message.

SQL6574I **The utility has read "<MB-count>" megabytes from the source data.**

Explanation: This information is generated periodically to provide status to the user on the progress of large Autoloader jobs.

User Response: This is an informational message.

SQL6575I **The utility has completed reading "<MB-count>" megabytes from the user data.**

Explanation: This message is written at the completion of the Autoloader run to indicate the total volume of user data that has been processed.

User Response: This is an informational message.

SQL6576N The Autoloder utility encountered a threading error. Reason code "<reason-code>", return code "<ret-code>".

Explanation: The following is an explanation of the reason code "<reason-code>":

- 1 - The autoloder program tried to create a thread but failed with return code "<ret-code>".
- 2 - The autoloder program tried to wait for a thread to finish, but failed with return code "<ret-code>".

User Response: Ensure that you are running on an operating system which supports threaded applications, and that your thread limit per process is sufficient. The thread requirements are as follows:

- One thread for every load process which must be started,
- One thread for every splitter process,
- One thread for data feeding to the splitter processes.

SQL6577N The autoloder program does not support the ROWCOUNT option in the load command.

Explanation: The ROWCOUNT option in the load command is not supported in the autoloder program.

User Response: Correct your load command in the autoloder configuration file, and resubmit your command.

SQL6578N Invalid AutoLoader option. RESTART/TERMINATE option can only be specified with SPLIT_AND_LOAD or LOAD_ONLY mode.

Explanation: RESTART/TERMINATE option in AutoLoader can only work with SPLIT_AND_LOAD or LOAD_ONLY mode.

User Response: Please check the autoloder

configuration file or the autoloder option flags.

SQL6579N Invalid LOAD command in the autoloder configuration file. RESTART and TERMINATE options of the Autoloder are used to perform LOAD RESTART and LOAD TERMINATE operation respectively.

Explanation: Users should not specify RESTART nor TERMINATE in the LOAD command. Instead, the RESTART and TERMINATE options of the Autoloder should be used.

User Response: Without modifying the autoloder configuration file, users should launch db2atld with option RESTART or TERMINATE.

SQL6580I LOAD is restarting on node "<node-num>" in phase "<restarting-phase>".

Explanation: Autoloder has acknowledged that LOAD is restarting in either LOAD/BUILD/DELETE phase.

User Response: This is an informational message.

SQL6581I Load cannot restart on node "<node-num>".

Explanation: Autoloder has acknowledged that LOAD cannot be restarted on a given node.

User Response: This is an informational message.

SQL6582I Restarting LOAD on node "<node-num>" is not required.

Explanation: Autoloder has acknowledged that LOAD does not need to be restarted on a given node.

User Response: This is an informational message.

SQL7000 - SQL7099

**SQL7001N Unknown command
“<command>” was requested.**

Explanation: The command submitted to REXX could not be recognized.

The command cannot be processed.

User Response: Verify that the command is a valid SQL statement and rerun the procedure. Note that all commands must be in uppercase.

SQL7002N The cursor name is invalid.

Explanation: The user specified an incorrect cursor name.

The command cannot be processed.

User Response: Verify that the cursor name is one of the form “c1” through “c100”.

SQL7003N The statement name is invalid.

Explanation: The user has specified an incorrect statement name.

The command cannot be processed.

User Response: Verify that the statement name is of the form “s1” through “s100”.

SQL7004N The syntax of the request is invalid.

Explanation: REXX was unable to parse the command string submitted.

The command cannot be processed.

User Response: Use proper command syntax.

SQL7005W The cursor used by this OPEN statement has not been declared.

Explanation: An OPEN statement was attempted without a declaring a cursor.

The command cannot be processed.

User Response: Insert a DECLARE statement before the OPEN statement and rerun the procedure.

**SQL7006N Invalid keyword “<keyword>”
given on “<request>”.**

Explanation: The statement contains a not valid keyword “<keyword>”.

The command cannot be processed.

User Response: Specify the correct keyword format.

**SQL7007N REXX variable “<variable>” does
not exist.**

Explanation: A REXX variable that did not exist in the REXX variable pool was passed.

The command cannot be processed.

User Response: Verify that all variable names in the host-variable list are assigned before the command that failed. Then run the procedure again.

**SQL7008N REXX variable “<variable>”
contains inconsistent data.**

Explanation: A variable that contained inconsistent data was passed to REXX.

The command cannot be processed.

User Response: If the variable is an SQLDA, verify that the data and length fields have been assigned correctly. If it is a REXX variable, verify that the type of data is appropriate to the command where it is being used.

**SQL7009N Truncated REXX variable
“<variable>”.**

Explanation: The variable “<variable>” passed to REXX contained inconsistent data. The data string from “<variable>” was truncated.

The command cannot be processed.

User Response: Verify that the data length is consistent with the length given in the input SQLDA, and run the procedure again.

SQL7010N Invalid scan ID "<ID>".

Explanation: The scan ID "<variable>" passed to REXX did not exist or contained inconsistent or missing data.

The command cannot be processed.

User Response: Verify that the data contained in the scan ID has been assigned correctly, and run the procedure again.

SQL7011N Required parameter "<parameter>" not given.

Explanation: The parameter "<parameter>" is required by REXX command syntax but was not specified.

The command cannot be processed.

User Response: Specify the required parameter value, and run the procedure again.

SQL7012N Attempted ISL change while connected to a database.

Explanation: Isolation level (ISL) may not be changed while connected to a database.

The command is ignored.

User Response: If a change in isolation level is necessary, disconnect from the current database, then set the isolation level and connect to the database.

SQL7013N Mismatched cursor and statement name or hold attribute.

Explanation: In REXX, the cursor and statement name form must be 'cnn' and 'snn,' where 'nn' is a number from 1 to 100. The numbers must be the same for a cursor and statement pair. Also, c1 through c50 are declared without hold and c51 through c100 with hold.

The command is ignored.

User Response: Verify that the cursor and statement numbers match and rerun the procedure.

SQL7014N Incorrect number of host variable components.

Explanation: In REXX, the first component of a compound host variable lists a number which is not equal to the actual number of components defined.

The command is ignored.

User Response: Verify that the number in the first component matches the number of components actually defined and rerun the procedure.

SQL7015N The variable name "<variable>" is not valid in REXX.

Explanation: The variable name specified is not valid in REXX. The name must conform to the language requirements.

The command cannot be processed.

User Response: Change the name to one that conforms to the REXX requirements and resubmit the command.

SQL7016N Invalid syntax provided to the SQLDB2 interface. Related Error: "<db2_error>". The command cannot be processed.

Explanation: Invalid syntax was provided to the SQLDB2 interface, e.g. both an input file and a command were specified.

User Response: Look up the related error code for more information.

SQL7099N Invalid error "<error>" has occurred.

Explanation: A REXX internal error has occurred.

The command cannot be processed.

User Response: Verify that REXX is installed properly and rerun the procedure. If the error continues, note the error number and call the dealer.

SQL8000 - SQL8099

SQL8000N **DB2START processing failed; a valid product license was not found.**

Explanation: A valid license key could not be found and the evaluation period has expired.

User Response: Install a license key for the fully entitled version of the product. You can obtain a license key for the product by contacting your IBM representative or authorized dealer.

SQL8001N **DB2 connect processing failed; a valid product license was not found.**

Explanation: A valid license key could not be found and the evaluation period has expired.

User Response: Install a license key for the fully entitled version of the product. You can obtain a license key for the product by contacting your IBM representative or authorized dealer.

sqlcode: -8001

sqlstate: 42968

SQL8002N **DRDA connect processing failed; a valid product license was not found.**

Explanation: A valid license key could not be found and the evaluation period has expired.

User Response: Install a license key for the fully entitled version of the product. You can obtain a license key for the product by contacting your IBM representative or authorized dealer.

sqlcode: -8002

sqlstate: 42968

SQL8006W **The product "<product-name>" does not have a valid license key installed. If you have licensed this product, please ensure the license key is properly installed. If a license key is not installed, this product will be enabled for a "<number>" day evaluation period. USE OF THE PRODUCT FOR THE EVALUATION PERIOD CONSTITUTES ACCEPTANCE OF THE TERMS OF THE IBM EVALUATION AGREEMENT IN THE EVALUATE.AGR FILE, LOCATED IN THE FOLLOWING DIRECTORY: "<directory-name>".**

Explanation: A valid license key has not been installed for this product. The product will be enabled to operate for a limited period of time for evaluation purposes. THE EVALUATION PERIOD IS CONTROLLED BY A TIME DISABLING DEVICE.

User Response: If you have purchased a fully entitled version of this product, please install your license key as described in the product installation documentation. If you have already installed the license key, please verify your license file for accuracy.

USE OF THE PRODUCT FOR THE EVALUATION PERIOD IS SUBJECT TO THE TERMS OF THE IBM EVALUATION AGREEMENT IN THE EVALUATE.AGR FILE. YOUR USE OF THE PRODUCT DURING THE EVALUATION PERIOD CONSTITUTES YOUR ACCEPTANCE OF THESE TERMS.

If you do not accept the terms, you are not authorized to use the product and you must de-install it. You can obtain a license key for the fully authorized program with the product by contacting your IBM representative or authorized dealer.

SQL8007W There are "<number>" day(s) left in the evaluation period for the product "<text>". For evaluation license terms and conditions, refer to the IBM Evaluation Agreement in the EVALUATE.AGR file, located in the following directory: "<text>".

Explanation: A valid license key has not been installed for this product. The evaluation period will expire after the specified number of days.

User Response: The product is operating in evaluation mode, and is enabled for a limited period of time. When the evaluation period has expired it will not execute until a license key for the fully entitled version of the product is installed.

You can obtain a license key for the product by contacting your IBM representative or authorized dealer.

SQL8008N The product "<text>" does not have a valid license key installed and the evaluation period has expired. Functions specific to this product are not enabled.

Explanation: A valid license key could not be found and the evaluation period has expired.

User Response: Install a license key for the fully entitled version of the product. You can obtain a license key for the product by contacting your IBM representative or authorized dealer.

SQL8009W The number of concurrent users of the DB2 Workgroup product has exceeded the defined entitlement of "<number>". Concurrent user count is "<number>".

Explanation: The number of concurrent users has exceeded the number of defined DB2 concurrent user entitlements.

User Response: Contact your IBM representative or authorized dealer to obtain additional DB2 user entitlements and update the

DB2 license information in the License Center.

sqlcode: +8009

sqlstate: 01632

SQL8010W The number of concurrent users of the DB2 Connect product has exceeded the defined entitlement of "<number>". Concurrent user count is "<number>".

Explanation: The number of concurrent users has exceeded the number of defined DB2 concurrent user entitlements.

User Response: Contact your IBM representative or authorized dealer to obtain additional DB2 user entitlements and update the DB2 license information in the License Center.

sqlcode: +8010

sqlstate: 01632

SQL8011W One or more database partitions does not have a valid DB2 license key installed for the "<product-name>" product. Refer to db2diag.log for more information.

Explanation: A valid license key has not been installed for this product on all database partitions. The product will be enabled to operate for a limited period of time for evaluation purposes. THE EVALUATION PERIOD IS CONTROLLED BY A TIME DISABLING DEVICE.

User Response: Check the db2diag.log for more information indicating which database partitions are encountering the license problem. If you have purchased a fully entitled version of this product, please install your license key as described in the product installation documentation. If you have already installed the license key, please verify your license file for accuracy.

USE OF THE PRODUCT FOR THE EVALUATION PERIOD IS SUBJECT TO THE TERMS OF THE IBM EVALUATION AGREEMENT IN THE EVALUATE.ARG FILE.

YOUR USE OF THE PRODUCT DURING THE EVALUATION PERIOD CONSTITUTES YOUR ACCEPTANCE OF THESE TERMS.

If you do not accept the terms, you are not authorized to use the product and you must de-install it. You can obtain a license key for the fully authorized program with the product by contacting your IBM representative or authorized dealer.

SQL8012W **The number of concurrent users of the DB2 Enterprise product has exceeded the defined entitlement of "<number>". Concurrent user count is "<number>".**

Explanation: The number of concurrent users has exceeded the number of defined DB2 concurrent user entitlements.

User Response: Contact your IBM representative or authorized dealer to obtain additional DB2 user entitlements and update the DB2 license information in the License Center.

sqlcode: +8012

sqlstate: 01632

SQL8013W **The number of concurrent database connections to the DB2 Connect product has exceeded the defined entitlement of "<number>". Database connection count is "<number>".**

Explanation: The license for the DB2 Connect product you are using supports a limited number of concurrent database connections. You have requested a number of connections that exceeds this limit.

User Response: Upgrade to a version of the DB2 Connect product with a higher limit of concurrent database connections.

DB2 Connect Enterprise Edition users: obtain licenses for additional users by purchasing Additional User Packs.

sqlcode: +8013

sqlstate: 01632

SQL8014N **The version of the DB2 Connect product you are using is not licensed for use with TCP/IP protocol. Upgrade to a full function DB2 Connect product to use TCP/IP.**

Explanation: This version of DB2 Connect is limited to SNA connectivity. TCP/IP connections are not supported.

User Response: Upgrade to a full function DB2 Connect product such as DB2 Connect Personal Edition or DB2 Connect Enterprise Edition to use TCP/IP.

sqlcode: -8014

sqlstate: 42968

SQL8015N **The version of the DB2 Connect product you are using is not licensed for updating multiple databases in the same transaction.**

Explanation: This version of DB2 Connect is limited to working with a single database in a transaction. It does not support 2-phase commit protocol.

User Response: Upgrade to a full function DB2 Connect product such as DB2 Connect Personal Edition or DB2 Connect Enterprise Edition to be able to update multiple databases in a single transaction.

sqlcode: -8015

sqlstate: 42968

SQL8016N **The user "<user-name>" is not defined as a registered user for the product "<product-name>".**

Explanation: The user has not been registered to use this product.

User Response: Contact your IBM representative or authorized dealer to obtain additional DB2 registered user entitlements and update the registered user list for this product in the License Center.

SQL8100 - SQL8199

SQL8100N The table is full.

Explanation: When creating a database the following parameters may be specified:

- maximum number of pages per segment per file
- number of segments

Each table part may now have multiple files within the database segments. The file can grow until it reaches its maximum size in a segment (maximum number of pages per segment) and then it moves to the next segment to add more data. This occurs until it has used the maximum number of pages per segment in all configured segments, and the table becomes full.

Therefore, the total amount of space per database part is the product of the maximum number of pages and the number of segments. The table will be full if any of the table parts use all of their configured space.

Federated system users: this situation can also be detected by the data source.

User Response:

- Delete rows from the table
- Reorganize the table to make more space
- Create a new database with larger values for maximum pages per segment and number of segments, back up the original database and restore to the new database.

Federated system users: isolate the problem to the data source failing the request (refer to the problem determination guide to determine which data source is failing to process the SQL statement) and:

- Take the necessary steps to increase the space in the table at the data source.
- If the table is on the federated server, create a new database with larger values for maximum pages per segment and number of segments. Back up the original database and restore to the new database.

SQL8101N A database segment may be incorrect.

Explanation: This error could occur in two ways:

1. Every database segment has an identifier file. The file may be missing or the contents of the file may be incorrect.
2. One, or more, previously allocated database segments are missing.

User Response:

- Check to ensure that the file systems are mounted correctly
- Restore the database from a backup
- Call your IBM service representative

SQL9300 - SQL9399

SQL9301N An invalid option is specified or an option parameter is missing.

Explanation: Either the option specified is invalid or an option parameter is not specified.

The command cannot be processed.

User Response: Correct the option and resubmit the command.

SQL9302N Invalid option parameter: "<option-parameter>".

Explanation: The option parameter specified is invalid.

The command cannot be processed.

User Response: Correct the option parameter and resubmit the command.

SQL9303N No <option> is specified.

Explanation: The required option “<option>” is not specified.

The command cannot be processed.

User Response: Resubmit the command with the required option.

SQL9304N Unable to open file “<filename>” for writing.

Explanation: The command cannot be processed.

User Response: Ensure that the system can access the file.

SQL9305N The <name> is too long. The maximum length is <max-length>.

Explanation: The <name> is longer than the maximum length of <max-length>.

The command cannot be processed.

User Response: Ensure that the <name> does not exceed the maximum length.

SQL9306N One or more of the field names are too long. The maximum length is <max-length>.

Explanation: The total length of a field name includes the specified prefix and/or a column suffix, which can either be its name or its number. This total length must not exceed the maximum length.

The command cannot be processed.

User Response: Ensure that all the field names do not exceed the maximum length.

SQL9307N Remarks cannot be retrieved from the database. Error code = “<sqlcode>”.

Explanation: An error has occurred when attempting to retrieve the remarks of a column from the database.

The command cannot be processed.

User Response: Check the error code for more information.

SQL9308W SQL data type “<sqltype>” of the column “<colname>” is not supported.

Explanation: The SQL data type “<sqltype>” is not supported in the specified host language.

No declaration is generated for this column.

User Response: Ensure that this is the desired table.

SQL9320I Connecting to the database “<database>”...

Explanation: The utility is attempting to connect to the database “<database>”.

User Response: See the error message for details if it fails.

SQL9321I Binding the utility automatically...

Explanation: The utility is attempting to bind itself to the database.

User Response: See the error message for details if it fails.

SQL9322I Retrieving column information from the table “<table>”...

Explanation: The utility is attempting to retrieve column information from the table “<table>”.

User Response: See the error message for details if it fails.

SQL9323I Generating declarations to the file “<filename>”...

Explanation: The utility is attempting to generate declarations to the file “<filename>”.

User Response: See the error message for details if it fails.

**SQL9324I Disconnecting from the database
“<database>”...**

Explanation: The utility is attempting to disconnect from the database “<database>”.

User Response: See the error message for details if it fails.

SQL10000 - SQL10099

SQL10002N The password supplied is too long.

Explanation: The length of the password is expected to be 18 characters or less. However, if the password is to be verified for an APPC conversation, it must be 8 characters or less.

User Response: Ensure that the password is not longer than the limit allowed.

sqlcode: -10002

sqlstate: 28000

- Decrease the values of the configuration parameters that define allocation of memory, including *udf_mem_sz* if UDFs are involved in the failing statement.

sqlcode: -10003

sqlstate: 57011

**SQL10003C There are not enough system resources to process the request.
The request cannot be processed.**

Explanation: The database manager could not process the request due to insufficient system resources. The resources that can cause this error include:

- The amount of memory in the system
- The number of message queue identifiers available in the system.

User Response: Stop the application. Possible solutions include:

- Remove background processes.
- Terminate other applications using the above resources.
- If you are using Remote Data Services, increase the Remote Data Services heap size (*rsheapsz*) in the server and client configuration because at least one block is used per application.

NOTE: This is applicable only for releases of DB2 prior to Version 2.

**SQL10004C An I/O error occurred while
accessing the database directory.**

Explanation: Either the system database directory or the local database directory cannot be accessed. This error may occur not only when the system is cataloging or uncataloging a database but also when the system is accessing a database that is cataloged in the directory.

The command cannot be processed.

User Response: Possible solutions include:

- If the local database directory is damaged, restore the databases that were cataloged there from backup versions and catalog them.

If installing the sample database, drop it and install the sample database again.

sqlcode: -10004

sqlstate: 58031

SQL10005N The mode parameter “<parameter>” in the CONNECT TO statement is not valid. It must be SHARE for shared access, EXCLUSIVE for exclusive use or EXCLUSIVE MODE ON SINGLE NODE for exclusive use on single node. For DB2 Connect connections, only SHARE mode is supported. EXCLUSIVE MODE ON SINGLE NODE is only supported in MPP configuration.

Explanation: The *mode* parameter of the CONNECT TO statement must be SHARE for shared, EXCLUSIVE for exclusive use or EXCLUSIVE MODE ON SINGLE NODE for exclusive use on single node. If connecting to a database using DB2 Connect, only shared access is allowed. EXCLUSIVE MODE ON SINGLE NODE is only supported in MPP configuration.

The command cannot be processed.

User Response: Resubmit the command with a valid *mode* parameter.

SQL10007N Message “<msgno>” could not be retrieved. Reason code: “<code>”.

Explanation: The requested message <msgno> could not be retrieved from the message file. Reason code <code> is one of the following:

1. The environment variable “DB2INSTANCE” is either not set, or is set to an invalid instance. Correct it and try again.
2. The message file was found, but the file could not be opened because of permissions. Check the file permissions of the files under the message directory.
3. The message file could not be found. Either the file does not exist, or the directory the message file should be in does not exist. Check that a either a ‘prime’ directory (the default) or a directory with the same name as the ‘LANG’ environment variable exists under the message directory.
4. The requested message does not exist in the message file. Either the message file is outdated, or it is the wrong one.

5. LC_CTYPE is set to a locale which the database does not support. Correct it and try again.
6. An unexpected system error occurred. Try execution again. If problem persists, contact your IBM representative.
7. Not enough memory. An attempt to get private memory failed. Try again.

User Response: Reissue the command after verifying the following:

- ensure that the DB2INSTANCE environment variable is set to the correct literal string for the username attempting this command
- ensure that correct home directory is specified for the username attempting this command (i.e. in the /etc/passwd file)
- ensure that the LANG environment variable is set to the correct value for the installed language, or is set to ‘C’ (defaults to whatever is in the ‘prime’ directory), on the username attempting this command

If all of the above are correct and the error still occurs, reinstall DB2.

SQL10009N The codeset “<codeset>” and/or territory “<territory>” that has been specified is not valid.

Explanation: This version of the database manager does not support the active codeset or territory or both, as specified by the Create Database command.

The command cannot be processed.

User Response: Refer to the Create Database command in the *Administration Guide* for details of valid codeset and territory pairs supported by the database manager.

SQL10010N The specified library, “<name>”, was loaded, but the function “<function>” could not be executed.

Explanation: The function routine within the library cannot be found.

The command cannot be processed.

User Response:

1. If it is a DARI library, ensure the DARI library is built correctly. Make sure that the function routine is exported through the 'export file'.
2. For other libraries, user may have to reinstall the database manager instance or the database manager product.

sqlcode: -10010

sqlstate: 42724

SQL10011N An interrupt was received while loading the specified DARI library "<name>".

Explanation: When loading the DARI library, the command was interrupted, perhaps by the interrupt key (usually Ctrl+Break or Ctrl+C).

Processing is stopped.

User Response: Resubmit the command.

sqlcode: -10011

sqlstate: 42724

SQL10012N An unexpected operating system error was received while loading the specified library "<name>".

Explanation: An unexpected error occurred when trying to load the library module specified in the program name field.

User Response: Resubmit the current command. If the error continues, stop the database manager and start it again. If the error continues, reinstall the database manager.

If reinstallation does not correct the error, record the message number (SQLCODE) and all information in the SQLCA if possible.

If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on

how to use this facility. Then contact IBM as specified in this guide.

sqlcode: -10012

sqlstate: 42724

SQL10013N The specified library "<name>" could not be loaded.

Explanation: The library module could not be found.

User Response: For DARI users, ensure that the specified library is available.

- If the client application uses a fully qualified path name to specify the DARI library, the DARI library must be stored in the given directory path. If the client application does not use the path name, the DARI library must be stored in the default directory (<InstanceHomeDir>/sqlib/function). Where <InstanceHomeDir> is the home directory of the database manager instance.
- If the error message occurs during database manager start time then the user will have to reinstall the DB2 instance or the database manager product.

Federated system users: if the error message occurs as a result of issuing db2start on the federated system and the "<name>" is "from DB2_DJ_COMM" then the federated server experienced a problem loading one of the wrapper modules identified by the DB2_DJ_COMM environment variable. The DB2_DJ_COMM environment variable must be updated to contain only valid wrapper modules.

If the error message occurs as a result of issuing db2start on the federated system and the "<name>" is not "from DB2_DJ_COMM", the user must re-install the federated instance.

If the library identifies a wrapper module, that module must be installed, link-edited (as required), and available in the correct directory. Refer to the *Installation and Configuration Supplement* for more information about configuring wrapper modules.

sqlcode: -10013

sqlstate: 42724

SQL10014N The invoking DARI program name "<name>" specified is not valid.

Explanation: The DARI library module or the DARI program name syntax is not correct.

User Response: Ensure that the DARI library or program name is specified correctly.

sqlcode: -10014

sqlstate: 42724

SQL10015N There are not enough system resources to load the specified library "<name>".

Explanation: There is not enough memory to load the library module.

User Response: Stop the application. Possible solutions are:

- Remove background processes.
- Decrease the values of the configuration parameters that define the allocation of memory.
- Install more memory.

sqlcode: -10015

sqlstate: 42724

SQL10017N The SQL CONNECT RESET statement is not allowed in a Database Application Remote Interface (DARI) procedure.

Explanation: The remote procedure contains an SQL CONNECT RESET statement.

User Response: Remove the SQL CONNECT RESET statement and retry the remote procedure.

sqlcode: -10017

SQL20000 - SQL20099

sqlstate: 38003

SQL10018N The disk is full. Processing was ended.

Explanation: The disk is full. During the export to a PC/IXF file, either the PC/IXF data file is on a fixed disk, or the PC/IXF data file and the database are on the same file system, or the PC/IXF data file and the message file are on the same file system.

The EXPORT utility stops processing. The exported data is not complete.

User Response: Provide more space on the disk or specify that the data file be located on a different file system than the database or the message file and resubmit the command.

SQL10019N The database cannot be accessed in the specified path.

Explanation: The database cannot be accessed for one of the following reasons:

- The path does not contain a database image.
- Permissions on the path are incorrect.

User Response: Ensure that the path references a valid database and that the permissions are correct.

sqlcode: -10019

sqlstate: 58031

SQL10021N The file permissions do not allow write access to the database.

Explanation: A write operation was attempted to a database residing on a file system which does not allow write access.

The statement cannot be processed.

User Response: Verify that the file permissions for the file system on which the database resides allow write access.

SQL20005N The internal identifier limit for object type “<type>” has been exceeded.

Explanation: The create of an object of type “<type>” cannot be processed because the next internal identifier for the object would exceed the maximum value.

The statement cannot be processed.

User Response: Drop objects of type “<type>” that are not being used any more.

sqlcode: -20005

sqlstate: 54035

SQL20010N Mutation method “<method-name>” is not allowed when the instance of the structured type is NULL.

Explanation: The method “<method-name>” is a mutator method that is specified with an instance of a structured type that is null. Mutator methods cannot be processed on a null instance. In some cases, the method name is not available.

The statement cannot be processed.

User Response: Determine the null instance that is used with a mutator method. Use a constructor function to create a non-null instance of the structured type before using any mutator methods on the instance.

sqlcode: -20010

sqlstate: 2202D

SQL20011N A “<transform-type>” transform for data type “<type-name>” already exists.

Explanation: A transform for type “<type-name>” is already defined to perform “<transform-type>” transforms.

The statement cannot be processed.

User Response: Either correct the “<transform-type>” to one that is not yet defined for “<type-name>” or drop the existing transform and re-issue the statement.

sqlcode: -20011

sqlstate: 42739

SQL20012N No transforms for type “<type-name>” were dropped.

Explanation: There are no transforms defined for “<type-name>” that meet the criteria of the DROP TRANSFORM request.

The statement cannot be processed.

User Response: Ensure the name of the type (including any required qualifiers) is correctly specified in the SQL statement and it exists.

sqlcode: -20012

sqlstate: 42740

SQL20013N The object “<super-object-name>” is not valid as a supertype, supertable, or superview of object “<sub-object-name>”.

Explanation: If the statement resulting in the error is creating a type, then “<super-object-name>” is a type that cannot be be a supertype of “<sub-object-name>” because it is not a user-defined structured type.

If the statement resulting in the error is creating a table, then “<super-object-name>” is a table that cannot be be a supertable of table “<sub-object-name>” because it is not defined as a typed table or the type of table “<super-object-name>” is not the direct supertype of the type used in defining table “<sub-object-name>”.

If the statement resulting in the error is creating a view, then “<super-object-name>” is a view that cannot be be a superview of view “<sub-object-name>” because it is not defined as a typed view or the type of view “<super-object-name>” is not the direct supertype of the type used in defining view “<sub-object-name>”.

The statement cannot be processed.

User Response: Specify a valid type, table, or

view in the UNDER clause of the CREATE statement.

sqlcode: -20013

sqlstate: 428DB

SQL20014N Function “<function-name>” cannot be used as a “<transform-type>” transform function for type “<type-name>”.

Explanation: The function “<function-name>” cannot be used as a transform for data type “<type-name>”. The reason is based on the “<transform-type>” as follows.

TO PROGRAM

The function must be a scalar function with a single parameter of the given type and a result as a built-in type.

FROM PROGRAM

The function must be a scalar function with a single parameter of a built-in type and a result of the given type.

TO FUNCTION

The function must be a scalar function with a single parameter of the given type. It may be an SQL scalar function that returns a built-in type other than DECIMAL, or an SQL row function that returns a row whose columns all have built-in types other than DECIMAL.

FROM FUNCTION

The function must be a scalar function, all of its parameters have built-in types other than DECIMAL, and whose return type is the given type.

The statement cannot be processed.

User Response: Specify a valid function for the type of transform.

sqlcode: -20014

sqlstate: 428DC

SQL20015N “<transform-type>” transform for type “<type-name>” is not defined.

Explanation: An operation involving a user-defined type required a transform function of the type “<transform-type>”. This transform type has not been defined for the user-defined type “<type-name>”.

The statement cannot be processed.

User Response: Define a transform of “<transform-type>” for user-defined type “<type-name>” using the CREATE TRANSFORM statement.

sqlcode: -20015

sqlstate: 42741

SQL20016N The value of the length associated with column “<column-name>” of type “<type-name>” is too small.

Explanation: The column “<column-name>” is defined with a structured type “<type-name>” for which the minimum length requirement is greater than the length specified using the LENGTH option.

The statement cannot be processed.

User Response: Specify a length value that is at least the minimum length of the structured type.

sqlcode: -20016

sqlstate: 429B2

SQL20017N Addition of this subtype exceeds the maximum number of levels of a type hierarchy.

Explanation: The maximum number of levels in a type hierarchy is 99. Adding this type would exceed the maximum.

The statement cannot be processed.

User Response: Do not add any more subtypes to this type hierarchy.

sqlcode: -20017

sqlstate: 54045

SQL20018N Row function “<function-name>” must return at most one row.

Explanation: The function is defined to return a single row. The result of the processing the function is more than one row.

User Response: Ensure that the function is defined in such a way that at most one row is returned.

sqlcode: -20018

sqlstate: 21505

SQL20019N The result type returned from the function body cannot be assigned to the data type defined in the RETURNS clause.

Explanation: The data type of each column returned by the function body must be assignable to the corresponding column specified in the RETURNS clause. If the function is a scalar function, there is only one column.

User Response: Change the RETURNS type or the type returned from the function body so that the data types of corresponding columns are assignable.

sqlcode: -20019

sqlstate: 42866

SQL20020N Operation “<operation-type>” is not valid for typed tables.

Explanation: The operation identified by “<operation-type>” cannot be performed on a typed table.

The statement cannot be processed.

User Response: Remove the ADD COLUMN clause or SET DATATYPE clause from the ALTER statement. Columns can only be added by re-defining the table with a structured type that includes the new column as an attribute. Similarly, the data type of a column can only be changed by re-defining the table with a type that includes the column with a different data type.

sqlcode: -20020

sqlstate: 428DH

SQL20021N Inherited column or attribute “<name>” cannot be changed or dropped.

Explanation: The value of “<name>” identifies either a column name or an attribute name (depending on the statement context) that is inherited from a typed table, typed view, or structured type above it in the table, view, or type hierarchy.

- In the CREATE TABLE statement, the WITH OPTIONS clause cannot be specified for column “<name>” in the CREATE TABLE statement because it is inherited from a supertable in the table hierarchy.
- In the ALTER TABLE statement, the SET SCOPE clause cannot be specified for column “<name>” because it is inherited from a supertable in the table hierarchy.
- In the CREATE VIEW statement, the WITH OPTIONS clause cannot be specified for column “<name>” in the CREATE VIEW statement because it is inherited from a superview in the view hierarchy.
- In the ALTER TYPE statement, the DROP ATTRIBUTE clause cannot be specified for attribute “<name>” because it is inherited from a supertype in the type hierarchy.

The statement cannot be processed.

User Response: The options for a column may only be set or altered for the table or view in the typed table hierarchy or typed view hierarchy where the column is introduced. An attribute can only be dropped from the data type in the type hierarchy where the attribute was introduced.

sqlcode: -20021

sqlstate: 428DJ

SQL20022N The scope for the reference column "<column-name>" is already defined.

Explanation: The scope for the reference column "<column-name>" cannot be added because it is already defined.

The statement cannot be processed.

User Response: Remove the ADD SCOPE clause from the ALTER TABLE statement.

sqlcode: -20022

sqlstate: 428DK

SQL20023N Parameter "<parm-number>" of the external or sourced function has a scope defined.

Explanation: A reference type parameter should not have a scope defined when used with external or sourced user defined functions.

The statement cannot be processed.

User Response: Remove the SCOPE specification from the definition of the parameter.

sqlcode: -20023

sqlstate: 428DL

SQL20024N The scope table or view "<target-name>" is not defined with structured type "<type-name>".

Explanation: The scope table or view "<target-name>" is not valid for use as the scope of this reference because it is:

- not a typed table or
- not a typed view or
- the type of the table or view is not the same as the target type of the REF type.

The statement cannot be processed.

User Response: Specify the scope of the reference using a typed table or typed view with the same type as the target type of the REF type.

sqlcode: -20024

sqlstate: 428DM

SQL20025N SCOPE is not specified in the RETURNS clause of an external function or is specified in the RETURNS clause of a sourced function.

Explanation: There are two possible causes:

- A reference type must have a scope defined when used as the result of a user-defined external function.
- A reference type cannot have a scope defined when used as the result of an user-defined sourced function. The function will use the scope of the source function.

The statement cannot be processed.

User Response: When defining an external function with a reference type as a returns type, ensure that the SCOPE clause is specified. When defining SOURCED function with a reference type as a returns type, ensure that the SCOPE clause is not specified.

sqlcode: -20025

sqlstate: 428DN

SQL20026N The type "<type-name>" is not a structured type.

Explanation: The statement requires a structured type, but the non-structured type "<type-name>" was used.

The statement cannot be processed.

User Response: Verify that the correct type name is used in the statement.

sqlcode: -20026

sqlstate: 428DP

SQL20027N The subtable or subview “<sub-object-name>” was not created because subtable or subview “<object-name>” with type “<type-name>” already exists.

Explanation: Within a typed table or view hierarchy, only one subtable or subview may exist of a particular subtype. The table or view “<sub-object-name>” cannot be created since there is already a table or view of type “<type-name>” defined. The table or view that already exists is “<object-name>”.

The statement cannot be processed.

User Response: Verify that the subtable or subview is being created with the correct type and that the subtable is being created under the correct supertable or the subview is being created under the correct superview.

sqlcode: -20027

sqlstate: 42742

SQL20028N The table or view “<table-name>” cannot have a different schema name from the other tables or views in the same hierarchy.

Explanation: All tables in a typed table hierarchy must have the same schema name and all views in a typed view hierarchy must have the same schema name.

The statement cannot be processed.

User Response: Verify that the schema name of the table or view is correct. If a hierarchy name is specified, verify that its schema name matches the schema name of the root table or view. If a subtable is being created, verify that it is being created under the correct supertable. If a subview is being created, verify that it is being created under the correct superview.

sqlcode: -20028

sqlstate: 428DQ

SQL20029N “<operation>” cannot be applied to a subtable.

Explanation: The operation “<operation>” was applied to a table that is not the root of a table hierarchy.

The statement cannot be processed.

User Response: Specify the root table of the table hierarchy in the operation.

sqlcode: -20029

sqlstate: 428DR

SQL20030N Attributes of a structured type “<type-name>” cannot be altered when a typed table or typed view “<object-name>” based on the type or any of its subtypes exists.

Explanation: The attributes of a structured type cannot be changed if a table or view of the structured type or any of its subtypes currently exists. The table or view “<object-name>” is one table or view that is dependent on the structured type “<type-name>” or a proper subtype of this type. There may be other tables or views that are dependent on the type or one of its proper subtypes.

The statement cannot be processed.

User Response: Verify that the right type is being altered or drop any tables and views of the type (or its subtypes) that currently exist.

sqlcode: -20030

sqlstate: 55043

SQL20031N “<Object>” may not be defined on a subtable.

Explanation: Primary key and unique constraints can only be defined on the root table of a typed table hierarchy. Similarly, unique indexes can only be defined on the root table of a typed table hierarchy.

The statement cannot be processed.

User Response: Unique indexes, Primary key or unique constraints can only be defined on the

root table of a table hierarchy.

sqlcode: -20031

sqlstate: 429B3

SQL20032N Index on the specified columns cannot be defined on subtable "<table-name>".

Explanation: The columns specified for the index were all introduced at a higher level in the typed table hierarchy than subtable "<table-name>". Therefore, the index cannot be created on this subtable.

The statement cannot be processed.

User Response: Determine the table in the table hierarchy where all of the columns are included for the first time. Use this as the table name when creating the index.

sqlcode: -20032

sqlstate: 428DS

SQL20033N An expression including "<partial-expression>" does not include a valid scoped reference.

Explanation: The expression that includes "<partial-expression>" requires an operand that is reference type with a scope defined. If the expression includes the DEREf function, the argument of the function must be a reference type with a scope defined.

For the dereference operator (->), the left operand needs to be a reference type with a scope defined.

The statement cannot be processed.

User Response: Correct the SQL statement syntax so the operand or argument is a reference type with a scope defined.

sqlcode: -20033

sqlstate: 428DT

SQL20034N The data type "<list-type-name>" is not included in a structured data type hierarchy that includes the data type "<left-type-name>" of the left operand of the TYPE predicate.

Explanation: All the data types listed in the TYPE predicate must be included in a data type hierarchy that includes the data type of the left operand of the TYPE predicate. The data type "<left-type-name>" is not a structured data type (not part of any type hierarchy) or the data type "<list-type-name>" is not included in the data type hierarchy that includes "<left-type-name>".

The statement cannot be processed.

User Response: Ensure that the data type of the expression and all listed data types in the TYPE predicate are structured data types within the same data type hierarchy. If "<left-type-name>" is SYSIBM.REFERENCE, use DEREf to make the result data type of the expression a structured data type.

sqlcode: -20034

sqlstate: 428DU

SQL20035 Invalid left operand of a dereference operator. Path expression starts with "<expression-string>".

Explanation: The left operand of the dereference operator in a path expression is not valid. Possible causes are:

- The left operand includes a column function that uses a column function as an argument.
- The left operand expression includes a column function and a reference to a column that is not in the GROUP BY clause.

User Response: Correct the left operand of the dereference operator for the path expression that starts with "<expression-string>".

sqlcode: -20035

sqlstate: 428DV

SQL20036N The object identifier column “<column-name>” cannot be referenced using the dereference operator.

Explanation: The dereference operator is used with “<column-name>” as the right operand. This column is the object identifier column of the target table of the dereference and is not valid for this operator.

The statement cannot be processed.

User Response: Correct the name of the column in the dereference operation.

sqlcode: -20036

sqlstate: 428DW

SQL20037N Object identifier column is required to create the root table or root view “<object-name>” of a typed table or view hierarchy.

Explanation: When creating the root table of a typed table hierarchy, an object identifier (OID) column must be defined (using the REF IS clause) on the CREATE TABLE statement.

When creating the root view of a typed view hierarchy, an object identifier (OID) column must be defined (using the REF IS clause) on the CREATE VIEW statement.

The statement cannot be processed.

User Response: Add the required OID column (REF IS clause) to the CREATE TABLE or CREATE VIEW statement.

sqlcode: -20037

sqlstate: 428DX

SQL20038N ASC or DESC cannot be specified with the “<keywords>” clause.

Explanation: The use of ASC or DESC is not relevant for all types of indexes. An index created using the “<keywords>” clause cannot order by ASC or DESC for specific columns.

The statement cannot be processed.

User Response: Remove the ASC or DESC specification from the index columns.

sqlcode: -20038

sqlstate: 42601

SQL20039N The definition of index “<index-name>” does not match the definition of index extension “<index-ext-name>”.

Explanation: The index definition and the index extension definition do not match. The following lists the possibilities for where the definitions do not match.

- The number of arguments following the index extension name in the EXTEND USING clause is not the same as the number of instance parameters of the index extension.
- The data types of the arguments following the index extension name in the EXTEND USING clause do not match exactly (including length or precision and scale) the data types of the corresponding instance parameters of the index extension.
- The number of columns specified for the index is not same as the number of source key parameters of the index extension.
- The data types of the index columns do not match exactly (including length or precision and scale) the data types of the corresponding source key parameters of the index extension. There is an exception to exact matching of data types for the case of subtypes. The column of the index may be a subtype of the data type specified as the corresponding source key parameter.

The statement cannot be processed.

User Response: Change the index definition so that the index extension matches.

sqlcode: -20039

sqlstate: 428E0

SQL20040N Number or type of the result of the range-producing table function “<range-function-name>”, is inconsistent with that of key transformation table function “<transform-function-name>” for index extension “<index-ext-name>”.

Explanation: The range-producing function must:

- return up to twice as many columns as returned by the key transformation function
- have an even number of columns (the first half of the return columns are the start key values and the second half of the return columns are the stop key values)
- have the each start key column with the same type as the corresponding stop key column
- have the the type of each start key column be the same as the corresponding transformation function column.

More precisely, let $a_1:t_1, \dots, a_n:t_n$ be the function result columns and data types of the key transformation function. The function result columns of the range-producing function must be $b_1:t_1, \dots, b_m:t_m, c_1:t_1, \dots, c_m:t_m$, where $m \leq n$ and the “b” columns are the start key columns and the “c” columns are the stop key columns.

The statement cannot be processed.

User Response: Specify a range-producing table function that is consistent with the key transformation table function.

sqlcode: -20040

sqlstate: 428E1

SQL20041N Number or the type of target key parameters does not match with the number or type of key transform function “<function-name>” for index extension “<index-ext-name>”.

Explanation: The number of target key parameters has to match with the number of

results returned by the key transform function. In addition, the type of the target key parameters must exactly match the corresponding function result types.

The statement cannot be processed.

User Response: Specify the correct number and type of parameters as the target key parameters.

sqlcode: -20041

sqlstate: 428E2

SQL20042N The maximum allowable “<parm-type>” parameters is exceeded in index extension “<index-ext-name>”. The maximum is “<max-value>”.

Explanation: Too many parameters were specified. If “<parm-type>” is INDEX EXTENSION, then up to “<max-value>” instance parameters may be specified. If “<parm-type>” is INDEX KEYS, then up to “<max-value>” key source parameters may be specified.

The statement cannot be processed.

User Response: Specify no more than the maximum number of parameters.

sqlcode: -20042

sqlstate: 54046

SQL20043N Argument for function “<function-name>” is not valid. Reason code “<reason-code>”.

Explanation: The function “<function-name>” could be the transformation function, the range-producing function, or the index filter function. The reason code indicate why an argument is not valid:

1. For a key transformation function, the argument is not an observer function or an index extension instance parameter
2. The expression used as the argument uses a function that specifies LANGUAGE SQL.
3. The expression used as the argument is a subquery.

The statement cannot be processed.

User Response: Specify a valid argument for the function.

sqlcode: -20043

sqlstate: 428E3

SQL20044N Function “<function-name>” is not supported in CREATE INDEX EXTENSION statement. Reason Code “<reason-code>”.

Explanation: A function used in the CREATE INDEX EXTENSION statement is not valid where it is used. The reason code indicates the reason.

- 1 The key transformation function is not a table function.
- 2 The key transformation function is not an external function.
- 3 The key transformation function is a variant function.
- 4 The key transformation function is an external action function.
- 5 The range-producing function is not a table function.
- 6 The range-producing function is not an external function.
- 7 The range-producing function is a variant function.
- 8 The range-producing function is an external action function.
- 9 The index-filter function is not an external function.
- 10 The index-filter function is a variant function.
- 11 The index-filter function is an external action function.

The statement cannot be processed.

User Response: Specify a function that conforms to the rules for a function specified in

the specific clause of the CREATE INDEX EXTENSION statement.

sqlcode: -20044

sqlstate: 428E4

SQL20045N The data type of instance parameter “<parameter-name>” is invalid in index extension “<index-ext-name>”.

Explanation: An instance parameter must be one of the following data types: VARCHAR, VARGRAPHIC, INTEGER, DECIMAL, or DOUBLE.

The statement cannot be processed.

User Response: Specify a valid data type for the instance parameter “<parameter-name>”.

sqlcode: -20045

sqlstate: 429B5

SQL20047N The search method “<method-name>” is not found in the index extension “<index-ext-name>”.

Explanation: The method “<method-name>” referenced in an exploitation rule of the user-defined predicate has to match one of the search methods specified in the index extension “<index-ext-name>”.

The statement cannot be processed.

User Response: Specify a method defined in the index extension.

sqlcode: -20047

sqlstate: 42743

SQL20048N The search argument of method “<method-name>” does not match the one in the corresponding search method in the index extension “<index-ext-name>”.

Explanation: The search argument provided for method “<method-name>” does not match the

argument of the corresponding search method in the index extension "<index-ext-name>". Either the number of arguments or the type of the arguments do not match the defined number or type of the parameters.

The statement cannot be processed.

User Response: Specify a search argument that matches the parameters defined in the index extension.

sqlcode: -20048

sqlstate: 428E6

SQL20049N Type of an operand following the comparison operator in the AS PREDICATE WHEN clause does not exactly match the RETURNS type.

Explanation: The definition of the user-defined predicate is not valid. In the AS PREDICATE WHEN clause, the type of the operand following the comparison operator is not an exact match with the RETURNS type of the function.

The statement cannot be processed.

User Response: Specify an the operand with the correct data type.

sqlcode: -20049

sqlstate: 428E7

SQL20050N The search target or search argument "<parameter-name>" does not match a parameter name of the function being created.

Explanation: Each search target and each search argument in an index exploitation rule has to match some parameter name of the function that is being created. This implies that the parameter names must be specified.

The statement cannot be processed.

User Response: Specify only parameter names of the function in the search target or search argument.

sqlcode: -20050N

sqlstate: 428E8

SQL20051N The argument "<parameter-name>" cannot appear as both a search target and a search argument in the same exploitation rule.

Explanation: In the exploitation clause, a function parameter cannot be specified as an argument following KEY and as an argument of the method specified following the USE keyword.

The statement cannot be processed.

User Response: Specify a parameter name of the function in no more than one of the search target or the search argument.

sqlcode: -20051

sqlstate: 428E9

SQL20052N Column "<column-name>" is an object identifier column which cannot be updated.

Explanation: The UPDATE statement includes setting a column that is an object identifier (OID) column. An OID column cannot be updated.

The statement cannot be processed.

User Response: Remove the SET of "<column-name>" from the UPDATE statement.

sqlcode: -20052

sqlstate: 428DZ

SQL20053N Fullselect in typed view "<view-name>" is not valid.
Reason code = "<reason-code>".

Explanation: The fullselect specified in the definition of typed view "<view-name>" does not conform to the rules for the fullselect of a typed view. Possible reason codes follow.

- 1 A subview definition contains a common table expression, OR a branch

in a subview definition does not range over a single table, view, nickname or an alias.

- 2 The row-set of a branch over a table-hierarchy cannot be proven by the database manager to be distinct from the row-set of all branches over the same table-hierarchy in the rest of the typed view hierarchy.
- 3 The first expression of a branch over a hierarchy in the root view is:
 - not the object identifier column of the typed table or typed view referenced in the FROM clause and the UNCHECKED option in the REF IS clause is not used OR
 - if the table in the FROM clause is not typed, the column is nullable or does not have a unique index defined on only that column and the UNCHECKED option in the REF IS clause is not used OR
 - not identical to the expression in the branch over the same hierarchy in the subview.
- 4 A table or view over which a branch of a subview ranges is not a subtable or subview of the table or view referenced in any branch of the superview and either the subview uses EXTEND AS or the root view does not have the UNCHECKED option in the REF IS clause turned on.
- 5 The fullselect includes references to the NODENUMBER or PARTITION functions, non-deterministic functions, or functions defined to have external action.
- 6 A branch in a subview cannot range over an OUTER table or view if any branch in its superview ranges over a table or view in the same hierarchy without using OUTER.
- 7 A subview ranges over a view in its own view hierarchy.
- 8 A subview uses a set operation other

than UNION ALL in its definition OR UNION ALL is used in the definition without specifying the UNCHECKED option in the REF IS clause of the root view.

- 9 A subview contains two branches of a UNION ALL that range over the same table hierarchy or view hierarchy.
- 10 The subview definition contains a GROUP BY or HAVING clause.

User Response: Change the fullselect of the view definition based on the “<reason-code>”.

- 1 Use only one table or view in the FROM clause. Encapsulate complex selects into views that the typed view can range over using the UNCHECKED option of the root view’s REF IS clause.
- 2 Specify a different table or view in the FROM clause of each branch that is not the same as one already used in the view hierarchy or use a predicates that clearly define the row-set for each branch as distinct compared to the row-sets for other branches in the typed view hierarchy.
- 3 Ensure that the first column of the root view conforms to the rules to be a valid object identifier column for the typed view. Consider using the UNCHECKED option in the ref is clause.
- 4 Specify a subtable or subview of the table or view specified in the FROM clause of a branch of the superview. Or use the UNCHECKED option in the root view definition in conjunction with the AS (without EXTEND) clause in the subview definition.
- 5 Remove the reference to the function from the fullselect.
- 6 If this is the first subview to use OUTER in a branch over this hierarchy, change the FROM clause so that OUTER is not used. If the superview uses OUTER, include OUTER in the FROM clause of the subview.

- 7 Do not source a subview on other views in the same hierarchy.
- 8 If UNION ALL was used, use the UNCHECKED option in the REF IS clause of the rootview to allow multiple branches in the subview definition. For other set operations encapsulate the set operation into a view and use the UNCHECKED option in the subview to allow sourcing on common views.
- 9 Unify the branches to a select over their common supertable or superview and use predicates (e.g. the type predicate) to filter for the desired rows.
- 10 Encapsulate the GROUP BY and HAVING clause into a view and use the UNCHECKED option in the root view to allow sourcing on common views.

sqlcode: -20053

sqlstate: 428EA

SQL20054N The table “<table-name>” is in an invalid state for the operation. Reason code = “<reason-code>”.

Explanation: The table is in a state that does not allow the operation. The reason code indicates the state of the table that prevents the operation.

- 21 The table is in Datalink Reconcile Pending (DRP) state or Datalink Reconcile Not Possible (DRNP) state.

The statement cannot be processed.

User Response: Action: The action is based on the reason code as follows.

- 21 Refer to the Administration Guide for information on Datalink Reconcile Pending (DRP) and Datalink Reconcile Not Possible (DRNP) states to take appropriate action.

sqlcode: -20054

sqlstate: 55019

SQL20055N A result column data type in the select list is not compatible with the defined data type for column “<column-name>”.

Explanation: The data type of the select list expression corresponding to “<column-name>” is incompatible with the data type for the attribute of the structured type. Both must be:

- Numeric
- Character
- Graphic
- Dates or character
- Times or character
- Timestamps or character
- Datalinks
- the same distinct types
- reference types where the target type of the select list expression is a subtype of the target type of the attribute.

The statement cannot be processed.

User Response: Examine the current definition for the table and the associated structured type. Ensure the select list expression data type for the specified column is a compatible type.

sqlcode: -20055

sqlstate: 42854

SQL20056N Processing on DB2 Data Links Manager “<name>” encountered an error. Reason code = “<reason-code>”.

Explanation: The processing on the DB2 Data Links Manager for the statement encountered an error as indicated by the following reason codes.

- 01 An inconsistency was detected between the data on the DB2 Data Links Manager and a DATALINK value in a table.
- 02 The DB2 Data Links Manager reached a resource limit during the processing.

99 The DB2 Data Links Manager encountered an internal processing error.

The statement cannot be processed.

User Response: The action is based on the reason code as follows.

01 Run the reconcile utility on the table.

02 The DB2 Data Links Manager administrator should identify the resource from the diagnostic logs and take corrective action.

99 Save the diagnostic logs from the DB2 Data Links Manager and the database manager and contact IBM service.

sqlcode: -20056

sqlstate: 58004

SQL20057N Column "<column-name>" in subview "<view-name>" cannot be defined as read only when the corresponding column is updatable in the superview.

Explanation: The column identified by "<column-name>" in the subview "<view-name>" is defined (implicitly) as read only. The superview of "<view-name>" includes the corresponding column that is updatable. A column cannot be changed from updatable to read only in a typed view hierarchy.

The statement cannot be processed.

User Response: Change the CREATE VIEW statement so that the column of the subview "<view-name>" is updatable or drop the superview(s) and recreate them using the READ ONLY clause to force the column to be read only.

sqlcode: -20057

sqlstate: 428EB

SQL20058N The fullselect specified for the summary table "<table-name>" is not valid.

Explanation: The summary table definition has specific rules regarding the contents of the fullselect. Some rules are based on the summary table options (REFRESH DEFERRED or REFRESH IMMEDIATE) while others are based on whether or not the table is replicated. The fullselect in the CREATE TABLE statement that returned this condition violates at least one of the rules as described in the SQL Reference.

The statement cannot be processed.

User Response: Change the fullselect in the CREATE TABLE statement so that so that it conforms to the rules based on the summary table options and whether or not the summary table is replicated.

sqlcode: -20058

sqlstate: 428EC

SQL20059W The summary table "<table-name>" may not be used to optimize the processing of queries.

Explanation: The summary table is defined with REFRESH DEFERRED and a fullselect that is currently not supported by the database manager when optimizing the processing of queries. The rules are based on the summary table options (REFRESH DEFERRED or REFRESH IMMEDIATE). The fullselect in the CREATE TABLE statement that returned this condition violates at least one of the rules as described in the SQL Reference.

The summary table is successfully created.

User Response: No action is required. If the summary table was intended for use in optimizing the processing of queries, redefine the fullselect to ensure that it is a subselect that includes a GROUP BY clause.

sqlcode: +20059

sqlstate: 01633

SQL20075N The index “<index-name>” cannot be created or altered because the length of “<column-name>” is more than 255 bytes.

Explanation: The index could not be created or altered because the key column length is greater than 255.

- “<index-name>” is the index name.
- “<column-name>” is the name of the key column.

The statement could not be processed. The specified index was not created, or the table could not be altered.

User Response: If creating an index, eliminate the column from the index definition. If altering a table, reduce the new column length to the permitted maximum.

sqlcode: -20075

sqlstate: 54008

SQL20076N The instance for the database is not enabled for the specified action or operation. Reason code = “<reason-code>”.

Explanation: An error has been detected at the instance level. The requested operation cannot be completed because a specified functional area was not installed or because a specified functional area was not enabled to the instance.

The following is the list of reason codes and associated functional areas you can enable at the instance level:

1. The ability to execute distributed request operations against multiple data sources in a single statement.

User Response: Enable the instance for the requested action or operation. First, install the specified functional area if it is missing. Then, enable the specified functional area. Enablement steps vary by “<reason-code>”:

1. Set the DBM variable <DREQ> to ON and then restart the database manager. For a

federated server, set the DBM variable <FEDERATED> to YES and then restart the database manager.

sqlcode: -20076

sqlstate: 0A502

SQL20077N Cannot construct structured type objects that have Datalink or Reference type attributes.

Explanation: An attempt was made to invoke the constructor of a structured type which has a Datalink and/or a Reference type attribute. This functionality is currently not supported.

User Response: The error can be corrected by doing one of the following:

1. Removing the invocation of the constructor of the type from the program.
2. Removing any Datalink or Reference type attributes from the definition of the structured type (this may not be possible if there are any tables that depend on this type).

sqlcode: -20077

sqlstate: 428ED

SQL20078N Hierarchy object “<object-name>” of type “<object-type>” can not be processed using operation “<operation-type>”.

Explanation: The operation “<operation-type>” was attempted using a hierarchy object named “<object-name>” of type “<object-type>”. This operation does not support processing of a hierarchy object.

The statement could not be processed.

User Response: Verify that the correct object name was used. For objects types TABLE or VIEW, the object must be the name of a subtable in the table or view hierarchy. In some cases, the object must specifically name the root table. For objects of type index, the name must be a name of an index created on a subtable.

sqlcode: -20078

sqlstate: 42858

SQL20100 - SQL20199

SQL20108N A result set contains an unsupported data type in position “<position-number>” for the cursor “<cursor-name>” opened by the stored procedure “<procedure-name>”.

Explanation: The stored procedure named by procedure-name cannot return at least one of its query result sets named by cursor-name because at least one of the columns, column position-number contains a data type which is not supported by either the DRDA Application Requestor (client) or the DRDA Application Server (server). As such the call to the stored procedure fails.

User Response: Modify the OPEN statement (and subsequent FETCH statements) for cursor cursor-name in the stored procedure procedure-name on the server to not select the unsupported data type in column position-number. The client application which invoked the stored procedure may need to be modified to reflect the change in the stored procedure.

sqlcode: -20108

sqlstate: 56084

not affect normal execution. The following is a list of reason codes:

1. The debugger support is not installed.
2. There has been a syntax error in IP address of debugger client in the debugger table.
3. A timeout in the communication between the debugger backend and the debugger client occurred.
4. A problem occurred accessing the debugger table DB2DBG.ROUTINE_DEBUG.

User Response:

1. Verify that you install the debugger option on the DB2 server machine.
2. Make sure that the IP address in the debugger table has the correct syntax.
3. Check that the debugger demon on the client is started and that the ports on the client and server match.
4. Verify that you have created the debugger tables with the correct layout.

sqlcode: +20109

sqlstate: 01637

SQL20109W Error in DB2 debugger support.
Reason code: “<reason-code>”.

Explanation: The debugger support had an error situation which will disable debugging, but

SQL20200 - SQL20299

SQL20200N The install or replace of “<jar-id>” failed as “<url>” could not be located.

Explanation: The URL specified on the install or replace jar procedure did not identify a valid jar file.

User Response: Reissue the install or replace jar

procedure with a URL that identifies a valid jar file.

sqlcode: -20200

sqlstate: 46001

SQL20201N The install, replace or remove of “<jar-id>” failed as the jar name is invalid.

Explanation: The jar name specified on the install, replace or remove jar procedure was invalid. For example, the jar id may be of the improper format, may not exist to be replaced or removed, or can not be installed as it already exists.

User Response: Ensure the jar id is of the correct format. If the jar id exists, it may need to be removed before it can be installed. For the remove or replace procedures, ensure the jar id exists.

sqlcode: -20201

sqlstate: 46002

SQL20202N The replace or remove of “<jar-id>” failed as “<class>” is in use.

Explanation: The specified class in the jar file is currently in use by a defined procedure, or the replacement jar file does not contain the specified class for which a procedure is defined.

User Response: Ensure all procedures referencing the classes being removed are dropped and resubmit the replace or remove procedure.

sqlcode: -20202

sqlstate: 46003

SQL20203N User defined function or procedure “<function-name>” has a Java method with an invalid signature.

Explanation: The signature of the java method used to implement the function or procedure was invalid. For example, the method may have parameters that are not mappable to the parameters on the corresponding create statement or the method for a procedure may specify a return value.

User Response: Reissue the corresponding

CREATE statement specifying parameters that match the Java method, or correct the parameters or return type of the Java method and rebuild the class.

sqlcode: -20203

sqlstate: 46007

SQL20204N The user defined function or procedure “<function-name>” was unable to map to a single Java method.

Explanation: The identified function or procedure either failed to find a matching Java method, or found more than 1 matching Java method.

User Response: Correct either the Java method or corresponding create statement so that the function or procedure call resolves to a single Java method.

sqlcode: -20204

sqlstate: 46008

SQL20205N The user defined function or procedure “<function-name>” has an input argument with a null value that could not be passed to the method.

Explanation: A function created with “CALLED ON NULL INPUT” or procedure has an input parameter with a null value but the Java datatype of this argument does not support null values. Examples of Java datatypes that do not support null values are BOOLEAN, BYTE, SHORT, INT, LONG or DOUBLE.

User Response: If the method is to be called with null values, ensure the input Java types are capable of accepting a null value. For functions, the function could also be created with “RETURNS NULL ON NULL INPUT”.

sqlcode: -20205

sqlstate: 39004

SQL20206W The procedure “<function-name>” returned too many result sets.

Explanation: The specified procedure returned more results sets than were specified on the CREATE PROCEDURE statement.

User Response: Modify the procedure to return fewer result sets, or drop and recreate the procedure specifying the correct number of result sets.

sqlcode: +20206

sqlstate: 0100E

SQL20207N The install or remove jar procedure for “<jar-id>” specified the use of a deployment descriptor.

Explanation: The DEPLOY or UNDEPLOY parameter of the install or replace jar procedure

was non-zero; this parameter is not supported and must be zero.

User Response: Reissue the procedure with the DEPLOY or UNDEPLOY parameter set to zero.

sqlcode: -20207

sqlstate: 46501

SQL30000 - SQL30099

SQL30000N Execution failed because of a Distributed Protocol Error that will not affect the successful execution of subsequent commands or SQL statements: Reason Code “<reason-code(subcode)>”.

Explanation: A system error occurred that prevented successful processing of the current environment command or SQL statement. This message (SQLCODE) is produced at statement compilation or execution time.

The command or statement cannot be processed. The current transaction is not rolled back and the application remains connected to the remote database.

User Response: Record the message number and the reason code. Record all error information from the SQLCA, if possible. Attempt to rerun the application.

If sufficient memory resources exist and the problem continues, invoke the Independent Trace Facility at the operating system command

prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility.

Required information:

- Problem description
- SQLCODE and reason code
- SQLCA contents if possible
- Trace file if possible.

sqlcode: -30000

sqlstate: 58008

SQL30002N The SQL statement cannot be executed due to a prior condition in a chain of statements.

Explanation: An SQL statement was chained to PREPARE, but the PREPARE statement has received a warning SQLCODE that requires the program or end user to either re-issue the chained statement or issue a different SQL request. This error can occur only in a client/server environment.

- A distributed client using DRDA has chained an OPEN statement to a PREPARE, but the PREPARE statement received SQLCODE +1140.

The statement cannot be executed as chained.

User Response: The statement must be sent again as a separate request.

sqlcode: -30002

sqlstate: 57057

SQL30020N Execution failed because of a Distributed Protocol Error that will affect the successful execution of subsequent commands and SQL statements: Reason Code “<reason-code>”.

Explanation: A system error occurred that prevented successful execution of the current environment command or SQL statement, as well as any subsequent commands or SQL statements.

The command or statement cannot be processed. The current transaction is rolled back and the application is disconnected from the remote database.

User Response: Record the message number (SQLCODE) and the reason code. Record all error information from the SQLCA, if possible. Attempt to connect the remote database and rerun the application.

If sufficient memory resources exist and the problem continues, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility.

Required information:

- Problem description
- SQLCODE and reason code
- SQLCA contents if possible
- Trace file if possible.

Some possible reason codes include:

121C Indicates that the user is not authorized to perform the requested command.

1232 The command could not be completed because of a permanent error. In most cases, the server will be in the process of an abend.

220A The target server has received an invalid data description. If a user SQLDA is specified, ensure that the fields are initialized correctly. Also, ensure that the length does not exceed the maximum allowed length for the data type being used.

If you are using the DB2 Connect product in a gateway server environment with downlevel clients, this error may occur if your application's host variables and the queried table's column descriptions do not match.

sqlcode: -30020

sqlstate: 58009

SQL30021N Execution failed because of a Distributed Protocol Error that will affect the successful execution of subsequent commands and SQL statements: Manager “<manager>” at Level “<level>” not supported.

Explanation: A system error occurred that prevented successful connection of the application to the remote database. This message (SQLCODE) is produced for SQL CONNECT statement. “<manager>” and “<level>” are numeric values that identify the incompatibility between the client and the server.

The command cannot be processed.

User Response: Record the message number, the “<manager>”, and “<level>” values. Record all error information from the SQLCA, if possible. Attempt to connect to the remote database again.

If the problem persists, invoke the Independent Trace Facility at the operating system command

prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Then, contact your service representative with the following information:

- Problem description
- SQLCODE and reason code
- SQLCA contents if possible
- Trace file if possible.

sqlcode: -30021

sqlstate: 58010

SQL30040N Execution failed because of unavailable resources that will not affect the successful execution of subsequent commands and SQL statements: Reason “<reason>”. Type of Resource “<resource-type>”. Resource name “<resource-name>”. Product ID “<product-ID>”.

Explanation: The application cannot process the command or SQL statement because the specified resource has run out. The current transaction is not rolled back and the application remains connected to the remote database.

The command cannot be processed.

User Response: Increase the size of the specified resource and resubmit the command.

sqlcode: -30040

sqlstate: 57012

SQL30041N Execution failed because of unavailable resources that will affect the successful execution of subsequent commands and SQL statements: Reason “<reason>”. Type of Resource “<resource-type>”. Resource name “<resource-name>”. Product ID “<product-ID>”.

Explanation: The application cannot process the command or SQL statement because resources

are not available at the remote database. This SQLCODE is produced at statement compilation or processing time.

Federated system users: this situation can also be detected by the data source.

If the “<resource name>” is “Encrypt” or “Decrypt”, the user exits for password encryption or decryption are unavailable or had an error.

The command or statement cannot be processed.

User Response: Investigate the remote database system environment.

Federated system users:

- If the password encryption or decryption user exit failed, “<reason>” is the integer value that the federated server received when invoking the user exit. Ensure that no errors occurred when the encryption and decryption user exits were link-edited with the federated server.
If using a user-supplied user exit, please check the user exit source code to determine why the “<reason>” was returned. If the error is found in the user exit source code, fix the error, link-edit the object code with the federated server, and reissue the failing command or statement.
- For all other cases, isolate the problem to the data source failing the request (refer to the problem determination guide to determine which data source is failing in processing an SQL statement), correct the problem at the data source, and reissue the failing command or statement.

sqlcode: -30041

sqlstate: 57013

SQL30050N “<number>” command or SQL statement invalid while bind is in progress.

Explanation: An application attempted to issue a command or SQL statement that is not valid while a precompile/bind operation is in progress. <number> is a numeric value that

identifies the erroneous command or SQL statement.

The command or statement is not processed.

User Response: If the application is not the database manager precompiler/binder, verify that bind is not active before issuing the command or SQL statement.

If the application is the database manager precompiler/binder, record the message number (SQLCODE) and the <number> value. Record all error information from the SQLCA, if possible. Attempt to perform the bind operation again.

If sufficient memory resources exist and the problem continues, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility.

Contact your technical service representative with the following information:

Required information:

- Problem description
- SQLCODE and reason code
- SQLCA contents if possible
- Trace file if possible.

sqlcode: -30050

sqlstate: 58011

SQL30051N Bind process with the specified package name and consistency token not active.

Explanation: An attempt has been made to issue a precompile/bind operation when precompile/bind is not active or an attempt was made to use an invalid package name and/or consistency token during an active precompile/bind operation.

The command or statement cannot be processed.

User Response: If the application is not the database manager precompiler/binder, verify that precompile/bind is active before issuing the

bind operation and that correct information is being passed on the bind operation.

If the application is the database manager precompiler/binder, record the message number (SQLCODE) and all error information from the SQLCA, if possible. Attempt to perform the operation again.

If sufficient memory resources exist and the problem continues, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility.

Contact your technical service representative with the following information:

Required information:

- Problem description
- SQLCODE and reason code
- SQLCA contents if possible
- Trace file if possible.

sqlcode: -30051

sqlstate: 58012

SQL30052N Program preparation assumptions are incorrect.

Explanation: The SQL statement being compiled is not recognized by the precompiler and cannot be processed by the database.

The statement cannot be processed.

User Response: Ensure that the statement is correct and attempt to perform the operation again. If the problem continues, remove the statement from the program.

sqlcode: -30052

sqlstate: 42932

SQL30053N The value for OWNER failed the authorization check at the remote database.

Explanation: The value specified for the OWNER option on the precompile/bind failed the authorization check at the remote database. This SQLCODE is produced during precompile/bind. It is not produced by the database manager precompiler/binder.

The precompile/bind operation cannot be processed.

User Response: Ensure that you are authorized to use the ID specified for the OWNER option, or do not use the OWNER option.

sqlcode: -30053

sqlstate: 42506

SQL30060N “<authorization-ID>” does not have the privilege to perform operation “<operation>”.

Explanation: Authorization ID <authorization-ID> attempted to perform the specified <operation> without having been granted the proper authorization to do so. This SQLCODE is produced at statement compilation or processing time.

The statement cannot be processed.

User Response: Ensure that the <authorization-ID> has been granted the authorization necessary to perform the desired operation.

sqlcode: -30060

sqlstate: 08004

SQL30061N The database alias or database name “<name>” was not found at the remote node.

Explanation: The database name is not an existing database at the remote database node.

The statement cannot be processed.

User Response: Resubmit the command with the correct database name or alias.

Federated system users: check to ensure that the entry in SYSCAT.SERVERS correctly specifies the database name of the data source.

sqlcode: -30061

sqlstate: 08004

**SQL30070N “<command-identifier>”
Command is not supported.**

Explanation: The remote database received a command that it does not recognize. The current environment command or SQL statement cannot be processed successfully, nor can any subsequent commands or SQL statements.

The current transaction is rolled back and the application is disconnected from the remote database. The statement cannot be processed.

User Response: Record the message number (SQLCODE) and the command identifier. Record all error information from the SQLCA, if possible. Attempt to connect to the remote database and rerun the application.

If sufficient memory resources exist and the problem continues, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility.

Contact your technical service representative with the following information:

Required information:

- Problem description
- SQLCODE and command identifier
- SQLCA contents if possible
- Trace file if possible.

sqlcode: -30070

sqlstate: 58014

SQL30071N “<object-identifier>” Object is not supported.

Explanation: The remote database received data it does not recognize. The current environment

command or SQL statement cannot be processed successfully, nor can any subsequent commands or SQL statements.

The current transaction is rolled back and the application is disconnected from the remote database. The command cannot be processed.

User Response: Record the message number (SQLCODE) and the object identifier. Record all error information from the SQLCA, if possible. Attempt to connect to the remote database and rerun the application.

If sufficient memory resources exist and the problem continues,

If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility.

Contact your technical service representative with the following information:

Required information:

- Problem description
- SQLCODE and object identifier
- SQLCA contents if possible
- Trace file if possible.

sqlcode: -30071

sqlstate: 58015

**SQL30072N “<parameter-identifier>”
Parameter is not supported.**

Explanation: The remote database received data it does not recognize. The current environment command or SQL statement cannot be processed successfully, nor can any subsequent commands or SQL statements.

The command cannot be processed.. The current transaction is rolled back and the application is disconnected from the remote database.

User Response: Record the message number (SQLCODE) and the parameter identifier. Record all error information from the SQLCA, if

possible. Attempt to connect to the remote database and rerun the application.

If sufficient memory resources exist and the problem continues, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility.

Contact your technical service representative with the following information:

Required information:

- Problem description
- SQLCODE and parameter identifier
- SQLCA contents if possible
- Trace file if possible.

sqlcode: -30072

sqlstate: 58016

**SQL30073N “<parameter-identifier>”
Parameter value “<value>” is not supported.**

Explanation: The remote database received data it does not recognize. The current environment command or SQL statement cannot be processed successfully, nor can any subsequent commands or SQL statements.

The current transaction is rolled back and the application is disconnected from the remote database. The command cannot be processed.

User Response: Record the message number (SQLCODE) and the parameter identifier. Record all error information from the SQLCA, if possible. Attempt to connect to the remote database and rerun the application.

If sufficient memory resources exist and the problem continues,

If trace was active, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility. Contact your technical

service representative with the following information:

Required information:

- Problem description
- SQLCODE, parameter identifier, and value
- SQLCA contents if possible
- Trace file if possible.

Some possible parameter identifiers include:

002F The target server does not support the data type requested by the application requester. For example, when DB2 Connect is used to connect to DB2 2.3, this error will be returned unless the proper PTF is applied to DB2 2.3. Ensure that the level of the server is supported by the requester.

119C, 119D, 119E

The target server does not support the CCSID requested by the application requester. Ensure the CCSID used by the requester is supported by the server.

- 119C - Verify the single-byte CCSID.
- 119D - Verify the double-byte CCSID.
- 119E - Verify the mixed-byte CCSID.

sqlcode: -30073

sqlstate: 58017

SQL30074N “<reply-identifier>” Reply is not supported.

Explanation: The client received a reply it does not recognize. The current environment command or SQL statement cannot be processed successfully, nor can any subsequent commands or SQL statements.

The current transaction is rolled back and the application is disconnected from the remote database. The statement cannot be processed.

User Response: Record the message number (SQLCODE) and the reply identifier. Record all error information from the SQLCA, if possible.

Attempt to connect to the remote database and rerun the application.

If sufficient memory resources exist and the problem continues, invoke the Independent Trace Facility at the operating system command prompt. Refer to the Independent Trace Facility in the *Troubleshooting Guide* for information on how to use this facility.

Contact your technical service representative with the following information:

Required information:

- Problem description
- SQLCODE and reply identifier
- SQLCA contents if possible
- Trace file if possible.

sqlcode: -30074

sqlstate: 58018

SQL30080N A communication error “<reason-code>” occurred sending or receiving data from the remote database.

Explanation: The “<reason-code>” contains the original error codes reported by Communications Manager.

For APPC error codes, the format is *pppp-sssssss-dddddddd* where *pppp* is the primary return code, *sssssss* is the secondary return code and *dddddddd* is the sense data. Each of these error code values is represented in hexadecimal notation. Possible primary and secondary error codes include 0003-00000004 and 0003-00000005, which indicate that a conversation with the Database Server could not be allocated. Sense data will only be displayed for an APPC ALLOCATE error.

The command cannot be processed. The connection attempted to the database is unsuccessful or the current transaction to the connected database is rolled back and the application is disconnected from the remote database.

Refer to the document *IBM Communications*

Manager 1.0 APPC Programming Guide and Reference (SC31-6160) for explanation of the APPC primary and secondary return codes. For details of APPC sense data, refer to the *IBM Communications Manager 1.0 Problem Determination Guide (SC31-6156)*.

User Response: Ensure that both the database manager and Communications Manager are started at the Database Server and that all Communications Manager configuration parameters are correct. Also, consult the *Communications Manager/2 APPC Programming Guide & Reference* for further information.

Note: If the reason code embedded in your message is 0003-084C0001 one possible cause for this message is that you are trying to make a remote connection to a workstation that is not a server. Verify that the remote workstation is a server. If it is not a server, install the database manager as a server.

sqlcode: -30080

sqlstate: 08001

SQL30081N A communication error has been detected. Communication protocol being used: <protocol>. Communication API being used: <interface>. Location where the error was detected: <location>. Communication function detecting the error: <function>. Protocol specific error code(s): <rc1>, <rc2>, <rc3>.

Explanation: An error has been detected by the communication subsystem.

If the connection has already been established, possible causes include the following:

- A communication subsystem error at the client node or server node has caused the connection to go down.
- A communication subsystem error at the SOCKS server, if one is being used, has caused the connection to go down.

- A network error has caused the connection to go down.
- The database agent at the server was forced off by the system administrator.
- The database agent at the server was terminated due to an abnormal termination of a key database manager process.

If you are trying to establish a new connection, possible causes include the following:

- The remote database server has not been cataloged correctly at the client.
- The database manager configuration file at the server has not been configured with the proper communication parameters.
- The communication subsystem at the client node or server node has not been configured correctly, or has not been started successfully.
- The communication subsystem at the SOCKS server, if one is being used, has not been configured correctly, or has not been started successfully.
- The DB2COMM environment variable at the server doesn't specify the communication protocol used by the client.
- The database manager at the server has not been started, or has not been started successfully. One or more of the communication protocols specified by DB2COMM may not have been successfully started.

Refer to the token values for details. Depending on the protocol being used and the communication function invoked, some tokens may not be applicable. The following is the explanation of the token values:

<protocol>

The actual communication protocol being used. Valid token values are:

- TCP/IP
- APPC
- NETBIOS
- IPX/SPX

<interface>

The application programming interface

used to invoke the above communication protocol services. Valid token values are:

- SOCKETS
- SOCKS
- CPI-C
- DLR or DD
- TLI or Connection/Bindery

<location>

This is a protocol specific ID which uniquely identifies the node that detected the error. If the protocol being used is:

- TCP/IP
The format of the ID is the Internet address in dot notation.
- APPC
The format of the ID is the fully qualified LU name (networkID.LUname).
- NETBIOS
The format of the ID is the Workstation name (nname).
- IPX/SPX
The format of the ID is the network address and node address in hexadecimal notation (network.node).

If the location information is not available at the time that the error occurred, this token is not filled in.

<function>

The name of the communication subsystem function that returned the error code(s).

<rc1>, <rc2>, <rc3>

The list of the available error codes and subcodes that are specific to each protocol being used. Tokens that are not applicable contain "*".

If the protocol being used is:

- TCP/IP
 - If present, <rc1> contains the global *errno* value from the TCP/IP

sockets function call. When using Windows Sockets, if present, <rc1> contains the error from the TCP/IP sockets function call returned by WSAGetLastError().

- If present, <rc2> contains the global *h_errno* value from the TCP/IP database function call. When using Windows Sockets, if present, <rc2> contains the error from the TCP/IP database function call returned by WSAGetLastError().
- If <rc3> is present and contains "0", it means that the TCP/IP connection has been closed. This could be caused by one of the following:
 - The database agent at the server was forced off by the system administrator.
 - A database agent could not be started at the server because the *maxagents* database manager configuration parameter has been exceeded. Check the First Failure Service Log (DB2DIAG.LOG) at the server to see if an error message has been logged.
 - The database agent at the server was terminated due to an abnormal termination of a key database manager process.

Note: When using Windows Sockets, if the <function> is WSAStartup, and <rc1> is 0, then <rc2> contains the Windows Sockets Specification version level requested by DB2, and <rc3> contains the Windows Sockets Specification version level supported by the Windows Sockets DLL.

- APPC
<rc1> contains the return code from the CPI-C function. If present, <rc2>

contains the global *errno* value from the CPI-C function call. <rc3> is not applicable.

- NETBIOS

<rc1> contains the return code from the call to NetBIOS. <rc2> and <rc3> are not applicable.

- IPX/SPX

<rc1> contains the global *t_errno* value from the call to TLI Services, or the return code from the call to NetWare Connection or Bindery Services. If the <rc1> *t_errno* is TLOOK, <rc2> contains the TLI event that has occurred. If the <rc2> event is T_DISCONNECT, <rc3> contains the disconnect reason code. On AIX, if the <rc1> *t_errno* is TSYSERR, <rc3> contains the system *errno* (defined in *sys/errno.h*). If <rc1> contains the error return code from a call to AIX NetWare Connection or Bindery Services, <rc2> contains the error generator.

See the Communications Errors appendix of the Messages Reference for more information on specific communication error codes.

User Response:

If the connection has already been established, check if:

1. The database agent at the server has been forced off.
2. The database manager at the server has abnormally terminated.
3. A communication subsystem or network error has occurred. See the Messages Reference for more information on specific communication error codes.

If you are trying to establish a new connection, check if:

1. The remote database server is cataloged properly on the client node.
2. The database manager configuration file at the server is configured with the proper

communication related parameters. If the database manager configuration parameters have been updated at the server, ensure that you stop and then re-start the database manager, for the changes to take effect.

3. The communication subsystems on both client and server nodes are configured and started up properly.
4. The DB2COMM environment variable at the server specifies the communication protocol used by the client.
5. The database manager at the server is successfully started. Start database manager processing at the server should have returned SQL1063, and not SQL5043. If SQL5043 is returned, check the First Failure Service Log (DB2DIAG.LOG) for more information.
6. A communication subsystem or network error has occurred.

If the problem persists, consult with your network administrator and/or communication expert to determine the cause of the problem using the set of tokens provided.

sqlcode: -30081

sqlstate: 08001

SQL30082N Attempt to establish connection failed with security reason "<reason-code>" ("<<reason-string>").

Explanation: The attempt to connect to the remote database server was rejected due to invalid or incorrect security information. The cause of the security error is described by the <reason-code> and corresponding <reason-string> value.

The following is a list of reason codes and corresponding reason strings:

0 (NOT SPECIFIED)

The specific security error is not specified.

1 (PASSWORD EXPIRED)

The password specified in the request has expired.

2 (PASSWORD INVALID)

The password specified in the request is not valid.

3 (PASSWORD MISSING)

The request did not include a password.

4 (PROTOCOL VIOLATION)

The request violated security protocols.

5 (USERID MISSING)

The request did not include a userid.

6 (USERID INVALID)

The userid specified in the request is not valid.

7 (USERID REVOKED)

The userid specified in the request has been revoked.

8 (GROUP INVALID)

The group specified in the request is not valid.

9 (USERID REVOKED IN GROUP)

The userid specified in the request has been revoked in the group.

10 (USERID NOT IN GROUP)

The userid specified in the request is not in the group.

11 (USERID NOT AUTHORIZED AT REMOTE LU)

The userid specified in the request is not authorized at the remote Logical Unit.

12 (USERID NOT AUTHORIZED FROM LOCAL LU)

The userid specified in the request is not authorized at the remote Logical Unit when coming from the local Logical Unit.

13 (USERID NOT AUTHORIZED TO TP)

The userid specified in the request is not authorized to access the Transaction Program.

14 (INSTALLATION EXIT FAILED)

The installation exit failed.

15 (PROCESSING FAILURE)

Security processing at the server failed.

16 (NEW PASSWORD INVALID)

the password specified on a change password request did not meet the server's requirements.

17 (UNSUPPORTED FUNCTION)

the security mechanism specified by the client is invalid for this server. Some typical examples:

- The client sent a new password value to a server that does not support the DRDA change password function.
- The client sent DCE authentication information to a server that does not support DCE.
- The client sent SERVER_ENCRYPT or DCS_ENCRYPT authentication information to a server that does not support password encryption.

18 (NAMED PIPE ACCESS DENIED)

The named pipe is inaccessible due to a security violation.

19 (USERID DISABLED or RESTRICTED)

The userid has been disabled, or the userid has been restricted from accessing the operating environment at this time.

20 (MUTUAL AUTHENTICATION FAILED)

The server being contacted failed to pass a mutual authentication check. The server is either an imposter, or the ticket sent back was damaged.

User Response: Ensure that the proper userid and/or password is supplied. For reason code 20, make sure the authentication mechanism for the server is started, and retry.

The userid may be disabled, the userid may be restricted to accessing specific workstations, or the userid may be restricted to certain hours of operation.

For reason code 17, retry the command with a supported authentication type.

sqlcode: -30082

sqlstate: 08001

SQL30083N Attempt to change password for user id "<uid>" failed with security reason "<reason-code>" ("<reason-string>").

Explanation: The attempt to change password was rejected due to invalid or incorrect security information. The cause of the security error is described by the "<reason-code>" and corresponding "<reason-string>" values.

The following is a list of reason codes and corresponding reason strings:

0 (NOT SPECIFIED)

The specific security error is not specified.

1 (CURRENT PASSWORD INVALID)

The old password specified in the request is not valid.

2 (NEW PASSWORD INVALID)

The password specified in the request is not valid under the password rules imposed by the system where password was to be changed.

3 (CURRENT PASSWORD MISSING)

The request did not include an old password.

4 (NEW PASSWORD MISSING)

The request did not include a new password.

5 (USERID MISSING)

The request did not include a userid.

6 (USERID INVALID)

The userid specified in the request is not valid.

7 (USERID REVOKED)

The userid specified in the request has been revoked. Passwords can not be changed for revoked userids.

14 (INSTALLATION EXIT FAILED)

The installation security exit failed.

15 (PROCESSING FAILURE)

Security processing at the server failed.

17 (UNSUPPORTED FUNCTION)

Change password function is not supported by the system.

19 (USERID DISABLED or RESTRICTED)

The userid has been disabled, or the userid has been restricted from accessing the operating environment at this time.

24 (USERNAME AND/OR PASSWORD INVALID)

The username specified, password specified, or both, are invalid.

User Response: Ensure that the proper userid, current and new passwords are supplied. For reason code 14, check the file db2pem.log in the instance subdirectory (typically "db2") for a detailed description of the problem encountered.

The userid may be disabled, the userid may be restricted to accessing specific workstations, or the userid may be restricted to certain hours of operation.

sqlcode: -30083

sqlstate: 08001

SQL30090N Operation invalid for application execution environment. Reason code = "<reason-code>"

Explanation: The operation is invalid for the application execution environment. For example, an operation might be invalid for applications that have special restrictions on statements or APIs - applications such as those that operate in an XA Distributed Transaction Processing environment, such as CICS; those that operate with CONNECT type 2 connection settings; or those that use federated system functionality to update multiple heterogeneous data sources. The operation was rejected.

Possible reason codes are:

- 01 - an SQL request that changes data (such as an INSERT or a CREATE) was issued against a read-only database; or, a stored procedure was invoked against a read-only database. Read-only databases include the following types:

- Databases accessed using DRDA when operating in a unit of work which has connection setting SYNCPOINT TWOPHASE and executing in a non-XA/DTP environment when either a Synchpoint Manager is not being used or the remote DRDA database does not support level 2 DRDA protocol.
 - Databases accessed by DRDA in an XA/DTP environment when either a Synchpoint Manager gateway is unavailable or the remote DRDA database does not support level 2 DRDA protocol.
 - Databases which were not the first database updated when the SYNCPOINT ONEPHASE connection setting is in effect for the unit of work.
- 02 - an API such as Precompile, Bind, or Reorganize Table which causes internal commits was issued in an application which has the setting CONNECT type 2 or is operating in an XA/DTP environment.
 - 03 - an SQL OPEN for a held cursor was issued while in an XA/DTP environment when using an ENCINA or TUXEDO transaction processing monitor.
 - 04 - a DISCONNECT statement was issued while in an XA/DTP environment.
 - 05 - A compound SQL statement which contains a COMMIT statement was issued in a CONNECT type 2 or XA/DTP environment.
 - 06 - The SET CLIENT API was issued in an XA/DTP environment.
 - 07 - A second database is being accessed within a unit of work for which two-phase commit coordination is not being supplied by the transaction manager. To ensure data integrity, the operation has been disallowed.
 - 08 - An attempt was made to access a database for use of commit coordination from a source different from a concurrently connected database. The two types of coordination cannot be mixed, and operations against the current database are rejected.
 - 09 - An attempt was made to execute an XA/DTP local transaction against a database accessed under Synchpoint Manager coordination.
 - 10 - An SQL OPEN for a held cursor was issued in either of these cases:
 - XA/DTP environment, or
 - federated server accessing a nickname defined on a two phase commit datasource

Cursor hold is not supported in these environments.
 - 11 - An operation is not supported for pass-through.
 - 12 - The insert/update/delete operation requires the existence of a timestamp column and a unique index due to the restriction on the data source.

For an update/delete operation accessing data sources:

 - Fujitsu RDB2 requires the existence of a unique index.
 - 13 - A positioned UPDATE or DELETE operation requires the existence of a column in the SELECT list of the cursor, but that column does not exist in the SELECT list of the cursor.
 - 14 - An illegal combination of updatable cursors, cursor hold, and isolation level of Repeatable Read exists. Invalid combinations are:
 - Isolation level Repeatable Read and a WITH HOLD cursor
 - A WITH HOLD cursor with FOR UPDATE
 - 15 - Reserved for future use
 - 16 - Illegal type column and protocol column value combination in SYSCAT.SERVERS.
 - 17 - The REORG utility cannot be issued against a nickname.
 - 18 - An update request (or, a DDL operation that results in the update of a system catalog table) has been issued that would result in multiple data sources being updated when one or more of the data sources in the unit of work only supports one-phase commit. Possible causes are:

- An attempt was made to update a data source that only supports one-phase commit, but a different data source has already been updated in the same unit of work.
- An attempt was made to update a data source that supports two-phase commit, but a different data source that only supports one-phase commit has already been updated in the same unit of work.
- An attempt was made to update a local federated server table, but a data source that only supports one-phase commit has already been updated in the same unit of work.
- An attempt was made to update a data source that only supports one-phase commit when the application is operating with a CONNECT type 2 connection setting.
- 19 - The application host variable data type is not supported by the data source in a pass-through session.
- 20 - SET CLIENT INFORMATION was issued while a Unit of Work is in progress.

User Response:

Correct the problem by doing one of the following steps:

- For reasons 01, 02, 03, 04, 06, or 19, remove the statement or API which is not supported.
- Alternately, for reasons 01, 02, 03, 04, or 06, execute the application in a different environment which supports the failing statement or API.
- For reason 05 move the COMMIT request outside of the compound statement.
- For reason 07, ensure that only one database is accessed within a unit of work for which EXEC SQL COMMIT or EXEC SQL ROLLBACK will be issued in place of syncpoint requests to an external transaction manager. If multiple databases must be accessed within the unit of work, utilize the commitment control interface provided by the external transaction manager product.

- For reason 08, ensure that all databases being accessed within a unit of work are under the commitment control of the same type of request: external transaction processing monitor (such as CICS SYNCPOINT) or local COMMIT and ROLLBACK EXEC SQL.
- For reason 09, do one of the following steps:
 - Execute the transaction as an XA/DTP global transaction.
 - Access the database in a non-XA/DTP environment.
 - Do not use the services of the Synchpoint Manager for the database connection if the transaction is read-only.
- For reasons 10 through 17 (federated server users), isolate the problem to the data source failing the request (see the problem determination guide) and examine the restrictions for that data source.
- For reason 18, do one of the following steps:
 - Submit a COMMIT or ROLLBACK before issuing an update to a different data source.
 - If multiple data sources need to be updated within a unit of work, make sure the two_phase_commit server option has been set to 'Y' for all the data sources that need to be updated. See the *SQL Reference* for information on setting the value used for the two_phase_commit setting.
 - If the data source to be updated supports only one-phase commit and the application is operating with a CONNECT type 2 connection setting, change the application to operate with a CONNECT type 1 connection setting.
- For reason 20, submit a Commit or Rollback before invoking the API.

sqlcode: -30090

sqlstate: 25000

SQL30100 - SQL30199

**SQL30101W Bind options specified on
REBIND request are ignored.**

Explanation: Bind options were specified on the REBIND request however the database server does not support respecification of any bind options. The bind options specified will be ignored and the options from the original BIND request will be used.

User Response: No action is required. This is a warning situation only.

If the database server returned an additional warning SQLCA, the "sqlerrmc" tokens will indicate the following information about this additional SQLCA in this order:

- sqlcode (SQL return code)
- sqlstate (universal SQL return code)
- sqlerrp (product name)
- sqlerrmc (SQL message tokens)

sqlcode: +30101

sqlstate: 01599

Chapter 12. SQLSTATE Messages

This section lists the SQLSTATEs and their meaning. The SQLSTATEs are grouped by class code; for subcodes, see the corresponding tables.

Table 1. SQLSTATE Class Codes

Class Code	Meaning	For subcodes, refer to...
00	Unqualified Successful Completion	Table 2 on page 652
01	Warning	Table 3 on page 652
02	No Data	Table 4 on page 655
07	Dynamic SQL Error	Table 5 on page 655
08	Connection Exception	Table 6 on page 656
09	Triggered Action Exception	Table 7 on page 656
0A	Feature Not Supported	Table 8 on page 656
0F	Invalid Token	Table 9 on page 656
21	Cardinality Violation	Table 10 on page 657
22	Data Exception	Table 11 on page 657
23	Constraint Violation	Table 12 on page 658
24	Invalid Cursor State	Table 13 on page 659
25	Invalid Transaction State	Table 14 on page 659
26	Invalid SQL Statement Identifier	Table 15 on page 659
28	Invalid Authorization Specification	Table 16 on page 660
2D	Invalid Transaction Termination	Table 17 on page 660
2E	Invalid Connection Name	Table 18 on page 660
34	Invalid Cursor Name	Table 19 on page 660
38	External Function Exception	Table 20 on page 660
39	External Function Call Exception	Table 21 on page 662
40	Transaction Rollback	Table 22 on page 662
42	Syntax Error or Access Rule Violation	Table 23 on page 662
44	WITH CHECK OPTION Violation	Table 24 on page 671
46	Java DDL	Table 25 on page 671
51	Invalid Application State	Table 26 on page 672
54	SQL or Product Limit Exceeded	Table 27 on page 672

Table 1. SQLSTATE Class Codes (continued)

Class Code	Meaning	For subcodes, refer to...
55	Object Not in Prerequisite State	Table 28 on page 673
56	Miscellaneous SQL or Product Error	Table 29 on page 674
57	Resource Not Available or Operator Intervention	Table 30 on page 675
58	System Error	Table 31 on page 676

Class Code 00 Unqualified Successful Completion

Table 2. Class Code 00: Unqualified Successful Completion

SQLSTATE Value	Meaning
00000	Execution of the SQL statement was successful and did not result in any type of warning or exception condition.

Class Code 01 Warning

Table 3. Class Code 01: Warning

SQLSTATE Value	Meaning
01002	A DISCONNECT error occurred.
01003	Null values were eliminated from the argument of a column function.
01004	The value of a string was truncated when assigned to a host variable.
01005	Insufficient number of entries in an SQLDA.
01007	A privilege was not granted.
0100E	The procedure generated more than the maximum allowed number of result sets. Only the first integer result sets have been returned to the caller.
01503	The number of result columns is larger than the number of host variables provided.
01504	The UPDATE or DELETE statement does not include a WHERE clause.
01506	An adjustment was made to a DATE or TIMESTAMP value to correct an invalid date resulting from an arithmetic operation.
01509	Blocking was cancelled for a cursor because there is insufficient storage in the user virtual machine.
01515	The null value has been assigned to a host variable, because the non-null value of the column is not within the range of the host variable.

Table 3. Class Code 01: Warning (continued)

SQLSTATE Value	Meaning
01516	An inapplicable WITH GRANT OPTION has been ignored.
01517	A character that could not be converted was replaced with a substitute character.
01519	The null value has been assigned to a host variable, because a numeric value is out of range.
01524	The result of a column function does not include the null values that were caused by evaluating an arithmetic expression.
01526	Isolation level has been escalated.
01539	Connection is successful but only SBCS characters should be used.
01543	A duplicate constraint has been ignored.
01545	An unqualified column name has been interpreted as a correlated reference.
01550	The index was not created, because an index with the specified description already exists.
01560	A redundant GRANT has been ignored.
01562	The new path to the log (newlogpath) in the database configuration file is invalid.
01563	The current path to the log file (logpath) is invalid. The log file path is reset to the default.
01564	The null value has been assigned to a host variable, because division by zero occurred.
01586	Setting OFF the constraints for a parent table in a referential structure has resulted in one or more descendent tables being automatically placed into a check-pending state
01589	A statement contains redundant specifications.
01592	In a CREATE FUNCTION statement that references a SOURCE function, either: • an input parameter has a larger length, precision, or scale than that of the corresponding parameter of the source function; or • the RETURNS or CAST FROM parameter has a smaller length, precision, or scale than that of the source function; or • the CAST FROM parameter in the CREATE FUNCTION statement has a larger length, precision, or scale than that of the RETURNS parameter. Truncation may occur at run time (and may result in an error at that time).

Table 3. Class Code 01: Warning (continued)

SQLSTATE Value	Meaning
01594	Insufficient number of entries in an SQLDA for ALL information (i.e. not enough descriptors to return the distinct name).
01595	The view has replaced an existing, invalidated view.
01596	Comparison functions were not created for a distinct type based on a long string data type.
01598	An attempt has been made to activate an active event monitor or deactivate an inactive event monitor.
01599	Bind options were ignored on REBIND.
01602	The optimization level has been reduced.
01603	CHECK DATA processing found constraint violations and moved them to exception tables.
01604	The SQL statement was explained and not executed.
01605	A recursive common table expression may contain an infinite loop.
01606	The node or system database directory is empty.
01607	The difference between the times on nodes in a read-only transactions exceed the defined threshold.
01609	The procedure generated more than the maximum allowed number of result sets. Only the first integer result sets have been returned to the caller.
01610	One or more ad hoc result sets were returned from the procedure.
01611	The cursor that was closed has been re-opened on the next result set within the chain.
01616	The estimated CPU cost exceeds the resource limit.
01618	Redistribute nodegroup is required to change data partitioning.
01620	Some base tables of UNION ALL may be the same table.
01621	The retrieved LOB value may have been changed.
01622	Statement completed successfully but a system error occurred after the statement completed.
01623	Value of DEGREE is ignored.
01626	The database has only one active bufferpool.
01627	The DATALINK value may not be valid because the table is in reconcile pending or reconcile is not possible state.
01632	The number of concurrent connections has exceeded the defined entitlement for the product.

Table 3. Class Code 01: Warning (continued)

SQLSTATE Value	Meaning
01633	The summary table may not be used to optimize the processing of queries.
01636	Integrity of non-incremental data remains unverified by the database manager.
01637	Debugging is not enabled.
01HXX	Valid warning SQLSTATEs returned by a user-defined function or external procedure CALL.

Class Code 02 No Data

Table 4. Class Code 02: No Data

SQLSTATE Value	Meaning
02000	One of the following exceptions occurred: • The result of the SELECT INTO statement or the subselect of the INSERT statement was an empty table. • The number of rows identified in the searched UPDATE or DELETE statement was zero. • The position of the cursor referenced in the FETCH statement was after the last row of the result table.

Class Code 07 Dynamic SQL Error

Table 5. Class Code 07: Dynamic SQL Error

SQLSTATE Value	Meaning
07001	The number of host variables is not the same as the number of parameter markers.
07002	The call parameter list or control block is invalid.
07003	The statement identified in the EXECUTE statement is a select-statement, or is not in a prepared state.
07004	The USING clause is required for dynamic parameters.
07005	The statement name of the cursor identifies a prepared statement that cannot be associated with a cursor.
07006	An input host variable cannot be used, because of its data type.

Class Code 08 Connection Exception

Table 6. Class Code 08: Connection Exception

SQLSTATE Value	Meaning
08001	The application requester is unable to establish the connection.
08002	The connection already exists.
08003	The connection does not exist.
08004	The application server rejected establishment of the connection.
08007	Transaction resolution unknown.
08502	The CONNECT statement issued by an application process running with a SYNCPOINT of TWOPHASE has failed, because no transaction manager is available.

Class Code 09 Triggered Action Exception

Table 7. Class Code 09: Triggered Action Exception

SQLSTATE Value	Meaning
09000	A triggered SQL statement failed.

Class Code 0A Feature Not Supported

Table 8. Class Code 0A: Feature Not Supported

SQLSTATE Value	Meaning
0A001	The CONNECT statement is invalid, because the process is not in the connectable state.
0A502	The action or operation is not enabled for this database instance.

Class Code 0F Invalid Token

Table 9. Class Code 0F: Invalid Token

SQLSTATE Value	Meaning
0F001	The LOB token variable does not currently represent any value.

Class Code 21 Cardinality Violation

Table 10. Class Code 21: Cardinality Violation

SQLSTATE Value	Meaning
21000	The result of a SELECT INTO is a result table of more than one row, or the result of the subquery of a basic predicate is more than one value.
21501	A multiple-row INSERT into a self-referencing table is invalid.
21502	A multiple-row UPDATE of a primary key is invalid.
21504	A multiple-row DELETE from a self-referencing table with a delete rule of RESTRICT or SET NULL is invalid.
21505	A row function must return not more than one row.

Class Code 22 Data Exception

Table 11. Class Code 22: Data Exception

SQLSTATE Value	Meaning
22001	Character data, right truncation occurred; for example, an update or insert value is a string that is too long for the column, or a datetime value cannot be assigned to a host variable, because it is too small.
22002	A null value, or the absence of an indicator parameter was detected; for example, the null value cannot be assigned to a host variable, because no indicator variable is specified.
22003	A numeric value is out of range.
22007	An invalid datetime format was detected; that is, an invalid string representation or value was specified.
22008	Datetime field overflow occurred; for example, an arithmetic operation on a date or timestamp has a result that is not within the valid range of dates.
22011	A substring error occurred; for example, an argument of SUBSTR is out of range.
22012	Division by zero is invalid.
22018	The character value for the CAST, DECIMAL, FLOAT, or INTEGER scalar function is invalid.
22019	The LIKE predicate has an invalid escape character.
22021	A character is not in the coded character set.
22024	A NUL-terminated input host variable or parameter did not contain a NUL.

Table 11. Class Code 22: Data Exception (continued)

SQLSTATE Value	Meaning
22025	The LIKE predicate string pattern contains an invalid occurrence of an escape character.
2202D	Null instance used with a mutator method.
22501	The length control field of a variable length string is negative or greater than the maximum.
22504	A mixed data value is invalid.
22506	A reference to a datetime special register is invalid, because the TOD clock is malfunctioning or the operating system timezone parameter is out of range.
22522	A CCSID value is not valid at all, not valid for the data type or subtype, or not valid for the encoding scheme.

Class Code 23 Constraint Violation

Table 12. Class Code 23: Constraint Violation

SQLSTATE Value	Meaning
23001	The update or delete of a parent key is prevented by a RESTRICT update or delete rule.
23502	An insert or update value is null, but the column cannot contain null values.
23503	The insert or update value of a foreign key is invalid.
23504	The update or delete of a parent key is prevented by a NO ACTION update or delete rule.
23505	A violation of the constraint imposed by a unique index or a unique constraint occurred.
23510	A violation of a constraint on the use of the command imposed by the RLST table occurred.
23511	A parent row cannot be deleted, because the check constraint restricts the deletion.
23512	The check constraint cannot be added, because the table contains rows that do not satisfy the constraint definition.
23513	The resulting row of the INSERT or UPDATE does not conform to the check constraint definition.
23514	Check data processing has found constraint violations.
23515	The unique index could not be created or unique constraint added, because the table contains duplicate values of the specified key.

Table 12. Class Code 23: Constraint Violation (continued)

SQLSTATE Value	Meaning
23520	The foreign key cannot be defined, because all of its values are not equal to a parent key of the parent table.
23521	The update of a catalog table violates an internal constraint.

Class Code 24 Invalid Cursor State

Table 13. Class Code 24: Invalid Cursor State

SQLSTATE Value	Meaning
24501	The identified cursor is not open.
24502	The cursor identified in an OPEN statement is already open.
24504	The cursor identified in the UPDATE, DELETE, SET, or GET statement is not positioned on a row.
24506	The statement identified in the PREPARE is the statement of an open cursor.
24514	A previous error has disabled this cursor.
24516	A cursor has already been assigned to a result set.

Class Code 25 Invalid Transaction State

Table 14. Class Code 25: Invalid Transaction State

SQLSTATE Value	Meaning
25000	An update operation is invalid for the application execution environment.
25501	The statement is only allowed as the first statement in a unit of work.

Class Code 26 Invalid SQL Statement Identifier

Table 15. Class Code 26: Invalid SQL Statement Identifier

SQLSTATE Value	Meaning
26501	The statement identified does not exist.

Class Code 28 Invalid Authorization Specification

Table 16. Class Code 28: Invalid Authorization Specification

SQLSTATE Value	Meaning
28000	Authorization name is invalid.

Class Code 2D Invalid Transaction Termination

Table 17. Class Code 2D: Invalid Transaction Termination

SQLSTATE Value	Meaning
2D521	SQL COMMIT or ROLLBACK are invalid in the current operating environment.
2D528	Dynamic COMMIT is invalid for the application execution environment.
2D529	Dynamic ROLLBACK is invalid for the application execution environment.

Class Code 2E Invalid Connection Name

Table 18. Class Code 2E: Invalid Connection Name

SQLSTATE Value	Meaning
2E000	Connection name is invalid.

Class Code 34 Invalid Cursor Name

Table 19. Class Code 34: Invalid Cursor Name

SQLSTATE Value	Meaning
34000	Cursor name is invalid.

Class Code 38 External Function Exception

Table 20. Class Code 38: External Function Exception

SQLSTATE Value	Meaning
38XXX	Valid error SQLSTATEs returned by a user-defined function, external procedure, or trigger.
38001	The external function is not allowed to execute SQL statements.

Table 20. Class Code 38: External Function Exception (continued)

SQLSTATE Value	Meaning
38002	The external function attempted to modify data, but the function was not defined as MODIFIES SQL DATA.
38003	The statement is not allowed in a function or procedure.
38004	The external function attempted to read data, but the function was not defined as READS SQL DATA.
38501	Error occurred while calling a user-defined function, external procedure, or trigger (using the SIMPLE CALL or SIMPLE CALL WITH NULLS calling convention).
38502	The external function is not allowed to execute SQL statements.
38503	A user-defined function has abnormally terminated (abend).
38504	A user-defined function has been interrupted by the user to stop a probable looping condition.
38506	Function failed with error from OLE DB provider.
38552	A function in the SYSFUN schema (supplied by IBM) has abnormally terminated. One of the following reason codes can be found in the message text:
01	Numeric value out of range
02	Division by zero
03	Arithmetic overflow or underflow
04	Invalid date format
05	Invalid time format
06	Invalid timestamp format
07	Invalid character representation of a timestamp duration
08	Invalid interval type (must be one of 1, 2, 4, 8, 16, 32, 64, 128, 256)
09	String too long
10	Length or position in string function out of range
11	Invalid character representation of a floating point number

Class Code 39 External Function Call Exception

Table 21. Class Code 39: External Function Call Exception

SQLSTATE Value	Meaning
39001	A user-defined function has returned an invalid SQLSTATE.
39004	A null value is not allowed for an IN or INOUT argument.
39501	The eye-catcher associated with an argument was modified.

Class Code 40 Transaction Rollback

Table 22. Class Code 40: Transaction Rollback

SQLSTATE Value	Meaning
40001	Deadlock or timeout with automatic rollback occurred.
40003	The statement completion is unknown.
40504	A system error has caused the unit of work to be rolled back.
40506	The current transaction was rolled back because of an SQL error.

Class Code 42 Syntax Error or Access Rule Violation

Table 23. Class Code 42: Syntax Error or Access Rule Violation

SQLSTATE Value	Meaning
42501	The authorization ID does not have the privilege to perform the specified operation on the identified object.
42502	The authorization ID does not have the privilege to perform the operation as specified.
42504	A specified privilege cannot be revoked from a specified authorization-name.
42506	Owner authorization failure occurred.
42508	The specified database privileges cannot be granted to PUBLIC.
42509	SQL statement is not authorized, because of the STATICRULES option.
42601	A character, token, or clause is invalid or missing.
42602	A character that is invalid in a name has been detected.
42603	An unterminated string constant has been detected.
42604	An invalid numeric or string constant has been detected.
42605	The number of arguments specified for a scalar function is invalid.

Table 23. Class Code 42: Syntax Error or Access Rule Violation (continued)

SQLSTATE Value	Meaning
42606	An invalid hexadecimal constant has been detected.
42607	An operand of a column function is invalid.
42608	The use of NULL or DEFAULT in VALUES is invalid.
42609	All operands of an operator or predicate are parameter markers.
42610	A parameter marker is not allowed.
42611	The column or argument definition is invalid.
42612	The statement string is an SQL statement that is not acceptable in the context in which it is presented.
42613	Clauses are mutually exclusive.
42614	A duplicate keyword is invalid.
42615	An invalid alternative was detected.
42617	The statement string is blank or empty.
42618	A host variable is not allowed.
42621	The check constraint is invalid.
42622	A name or label is too long.
42625	A CASE expression is invalid.
42627	RETURNS clause must be specified prior to predicate specification using the EXPRESSION AS clause.
42701	A duplicate column name in an INSERT or UPDATE statement was detected.
42702	A column reference is ambiguous, because of duplicate names.
42703	An undefined column, attribute, or parameter name was detected.
42704	An undefined object or constraint name was detected.
42705	An undefined server-name was detected.
42707	A column name in ORDER BY does not identify a column of the result table.
42709	A duplicate column name in a PRIMARY, UNIQUE, or FOREIGN KEY clause was detected.
42710	A duplicate object or constraint name was detected.
42711	Duplicate column name or attribute name was detected in the object definition or ALTER statement.
42712	A duplicate table designator was detected in the FROM clause.
42713	A duplicate object was detected in a list of objects.

Table 23. Class Code 42: Syntax Error or Access Rule Violation (continued)

SQLSTATE Value	Meaning
42720	The nodename for the remote database was not found in the node directory.
42723	A function with the same signature already exists in the schema.
42724	Unable to access an external program used for a user-defined function or a procedure.
42725	A function was referenced directly (not by either signature or by specific instance name), but there is more than one specific instance of that function.
42726	Duplicate names for named derived tables were detected.
42727	No default primary tablespace exists for the new table.
42728	A duplicate node was detected in the nodegroup definition.
42729	The node is not defined.
42730	The container name is already used by another tablespace.
42731	The container name is already used by this tablespace.
42732	A duplicate schema name in the SET CURRENT PATH statement was detected.
42735	Nodegroup for the table space is not defined for the buffer pool.
42739	Transform already exists.
42740	No transforms were dropped.
42741	A required transform was not found.
42742	Subtable or subview of the same type already exists in the typed table or typed view hierarchy.
42743	The search method is not found in the index extension.
42802	The number of insert or update values is not the same as the number of columns.
42803	A column reference in the SELECT or HAVING clause is invalid, because it is not a grouping column; or a column reference in the GROUP BY clause is invalid.
42804	The result expressions in a CASE expression are not compatible.
42805	An integer in the ORDER BY clause does not identify a column of the result table.
42806	A value cannot be assigned to a host variable, because the data types are not compatible.
42807	The INSERT, UPDATE, or DELETE is not permitted on this object.

Table 23. Class Code 42: Syntax Error or Access Rule Violation (continued)

SQLSTATE Value	Meaning
42808	A column identified in the INSERT or UPDATE statement is not updateable.
42809	The identified object is not the type of object to which the statement applies.
42810	A view is identified in a FOREIGN KEY clause.
42811	The number of columns specified is not the same as the number of columns in the SELECT clause.
42813	WITH CHECK OPTION cannot be used for the specified view.
42815	The data type, length, scale, value, or CCSID is invalid.
42816	A datetime value or duration in an expression is invalid.
42818	The operands of an operator or function are not compatible.
42819	An operand of an arithmetic operation or an operand of a function that requires a number is not a number.
42820	A numeric constant is too long, or it has a value that is not within the range of its data type.
42821	An update or insert value is not compatible with the column.
42823	The SELECT clause of a subquery specifies multiple columns.
42824	An operand of LIKE is not a string, or the first operand is not a column.
42825	The rows of UNION, INTERSECT, EXCEPT, or VALUES do not have compatible columns.
42826	The rows of UNION, INTERSECT, EXCEPT, or VALUES do not have the same number of columns.
42827	The table identified in the UPDATE or DELETE is not the same table designated by the cursor.
42828	The table designated by the cursor of the UPDATE or DELETE statement cannot be modified, or the cursor is read-only.
42829	FOR UPDATE OF is invalid, because the result table designated by the cursor cannot be modified.
42830	The foreign key does not conform to the description of the parent key.
42831	A column of a primary or unique key cannot allow null values.
42832	The operation is not allowed on system objects.
42834	SET NULL cannot be specified, because the foreign key does not allow null values.
42835	Cyclic references cannot be specified between named derived tables.
42836	The specification of a recursive, named derived table is invalid.

Table 23. Class Code 42: Syntax Error or Access Rule Violation (continued)

SQLSTATE Value	Meaning
42838	An invalid use of a tablespace was detected.
42839	Indexes and long columns cannot be in separate tablespaces from the table.
42840	An invalid use of the AS CAST option was detected.
42841	A parameter marker can not be a user-defined type or reference type.
42842	A column definition is invalid, because a specified option is inconsistent with the column description.
42845	An invalid use of a VARIANT or EXTERNAL ACTION function was detected.
42846	Cast from source type to target type is not supported.
42852	The privileges specified in GRANT or REVOKE are invalid or inconsistent. (For example, GRANT ALTER on a view.)
42853	Both alternatives of an option were specified, or the same option was specified more than once.
42854	A result column data type in the select list is not compatible with the defined type in a typed view or summary table definition.
42855	The assignment of the LOB to this host variable is not allowed. The target host variable for all fetches of this LOB value for this cursor must be a locator or a LOB variable.
42858	Operation cannot be applied to the specified object.
42863	An undefined host variable in REXX has been detected.
42866	The data type in either the RETURNS clause of the CAST FROM clause in the CREATE FUNCTION statement is not appropriate for the data type returned from the sourced function or RETURN statement in the function body.
42875	The object to create within CREATE SCHEMA must have the same qualifier as the schema name.
42877	The column name cannot be qualified.
42878	An invalid function or procedure name was used with the EXTERNAL keyword.
42879	The data type of one or more input parameters in the CREATE FUNCTION statement is not appropriate for the corresponding data type in the source function.
42880	The CAST TO and CAST FROM data types are incompatible, or would always result in truncation of a fixed string.
42881	Invalid use of a row based function.

Table 23. Class Code 42: Syntax Error or Access Rule Violation (continued)

SQLSTATE Value	Meaning
42882	The specific instance name qualifier is not equal to the function name qualifier.
42883	No function was found with a matching signature.
42884	No function or procedure was found with the specified name and compatible arguments.
42885	The number of input parameters specified on a CREATE FUNCTION statement does not match the number provided by the function named in the SOURCE clause.
42887	The function is not valid in the context where it occurs.
42888	The table does not have a primary key.
42889	The table already has a primary key.
42890	A column list was specified in the references clause, but the identified parent table does not have a unique constraint with the specified column names.
42891	A duplicate UNIQUE constraint already exists.
42893	The object or constraint cannot be dropped, because other objects are dependent on it.
42894	The DEFAULT value is invalid.
42895	For static SQL, an input host variable cannot be used, because its data type is not compatible with the parameter of a procedure or user-defined function.
428A0	An error occurred with the sourced function on which the user-defined function is based.
428A1	Unable to access a file referenced by a host file variable.
428A2	A table cannot be assigned to a multi-node node group, because it does not have a partition key.
428A3	An invalid path has been specified for an event monitor.
428A4	An invalid value has been specified for an event monitor option.
428A5	An exception table named in a SET CONSTRAINTS statement either does not have the proper structure, or it has been defined with constraints or triggers.
428A6	An exception table named in a SET CONSTRAINTS statement cannot be the same as one of the tables being checked.
428A7	There is a mismatch in the number of tables being checked and in the number of exception tables specified in the SET CONSTRAINTS statement.

Table 23. Class Code 42: Syntax Error or Access Rule Violation (continued)

SQLSTATE Value	Meaning
428A8	Cannot reset the check-pending state using the SET CONSTRAINTS statement on a descendent table while a parent table is in the check-pending state.
428A9	The node range is invalid.
428B0	Illegal nesting inside ROLLUP, CUBE, or GROUPING SETS.
428B1	Incorrect number of table space container specifications that are not designated for specific nodes.
428B2	The path name for the container is not valid.
428B3	An invalid SQLSTATE was specified on RAISE_ERROR.
428C0	The node cannot be dropped, because it is the only node in the nodegroup.
428C2	Examination of the function body indicates that the given clause should have been specified on the CREATE FUNCTION statement.
428C4	The number of elements on each side of the predicate operator is not the same.
428C5	No data type mapping was found for a data type from the data source.
428CA	A table in append mode cannot have a clustered index.
428CB	The page size for a table space must match the page size of the associated bufferpool.
428D1	Unable to access a file referenced by a DATALINK value.
428DB	An object is not valid as a supertype, supertable, or superview.
428DC	Function not valid as the transform for this type.
428DD	A required transform is not defined.
428DE	PAGESIZE value is not supported.
428DF	Data types specified in CREATE CAST are not valid.
428DG	Function specified in CREATE CAST is not valid.
428DH	Operation is not valid for typed tables.
428DJ	Inherited column or attribute cannot be changed or dropped.
428DK	The scope for the reference column is already defined.
428DL	Parameter of external or sourced function has a scope defined.
428DM	The scope table or view is not valid for the reference type.
428DN	SCOPE is not specified in the RETURNS clause of an external function or is specified in the RETURNS clause of a sourced function.
428DP	The type is not a structured type.

Table 23. Class Code 42: Syntax Error or Access Rule Violation (continued)

SQLSTATE Value	Meaning
428DQ	A subtable or subview cannot have a different schema name than its supertable or superview.
428DR	Operation cannot be applied to a sub-table.
428DS	Index on the specified columns cannot be defined on subtable.
428DT	Operand of expression is not a valid scoped reference type.
428DU	A type is not included in the required type hierarchy.
428DV	Invalid left operand of a dereference operator.
428DW	Object identifier column cannot be referenced using the dereference operator.
428DX	Object identifier column is required to define the root table or root view of a typed table or typed view hierarchy.
428DY	Table statistics cannot be updated for a subtable.
428DZ	An object identifier column cannot be updated.
428E0	Definition of index does not match the definition of the index extension.
428E1	Result of the range-producing table function is inconsistent with that of the key transformation table function for the index extension.
428E2	Number or the type of key-target parameters does not match with the number or type of key transform function for the index extension.
428E3	Argument for function in index extension is not valid.
428E4	Function is not supported in CREATE INDEX EXTENSION statement.
428E6	The search argument of method in the user-defined predicate does not match the one in the corresponding search method of the index extension.
428E7	Type of the operand following the comparison operator in the user-defined predicate does not match the RETURNS data type.
428E8	A search target or search argument parameter does not match a parameter name of the function being created.
428E9	An argument parameter name cannot appear as both a search target and search argument in the same exploitation rule.
428EA	A fullselect in a typed view is not valid.
428EB	A column in a subview cannot be read only when the corresponding column in the superview is updatable.
428EC	The fullselect specified for the summary table is not valid.
428ED	Structured types with Datalink or Reference type attributes cannot be constructed.

Table 23. Class Code 42: Syntax Error or Access Rule Violation (continued)

SQLSTATE Value	Meaning
428EE	Option is not valid for this data source.
428EF	Value for the option is not valid for this data source.
428EG	Missing required option for this data source.
428EH	Cannot ADD an option that is already defined.
428EJ	Cannot SET or DROP an option that has not been ADDED.
42901	A column function does not include a column name.
42903	A WHERE clause or SET clause includes an invalid reference, such as a column function.
42907	The string is too long.
42908	The statement does not include a required column list.
42911	A decimal divide operation is invalid, because the result would have a negative scale.
42912	A column cannot be updated, because it is not identified in the UPDATE clause of the select-statement of the cursor.
42914	The DELETE is invalid, because a table referenced in a subquery can be affected by the operation.
42915	An invalid referential constraint has been detected.
42916	The alias cannot be created, because it would result in a repetitive chain of aliases.
42917	The object cannot be explicitly dropped.
42918	A user-defined data type cannot be created with a system-defined data type name (for example, INTEGER).
42921	Containers cannot be added to the tablespace.
42925	Recursive named derived tables cannot specify SELECT DISTINCT and must specify UNION ALL.
42932	The program preparation assumptions are incorrect.
42939	The object cannot be created, because the specified identifier is reserved for system use.
42962	A long column, LOB column, or structured type column cannot be used in an index, a key, or a constraint.
42968	The connection failed, because there is no current software license.
42969	The package was not created and the current unit of work was rolled back, because of internal limitations or an invalid section number.
42972	An expression in a join-condition references columns in more than one of the operand tables.

Table 23. Class Code 42: Syntax Error or Access Rule Violation (continued)

SQLSTATE Value	Meaning
42987	The statement is not allowed in a procedure or trigger.
42991	The BOOLEAN data type is currently only supported internally.
42993	The column, as defined, is too large to be logged.
42994	Raw device containers are not currently supported on this system.
42995	The requested function does not apply to global temporary tables.
42997	A unique index or unique constraint is not allowed because the key columns are not a superset of the partitioned key columns.
429A0	A foreign key cannot reference a parent table defined as not logged initially.
429A1	Nodegroup is not valid for the table space.
429A9	SQL statement cannot be processed by DataJoiner.
429B2	Specified length value for structured type column is too small.
429B3	Object may not be defined on a subtable.
429B4	Data filter function cannot be a LANGUAGE SQL function.
429B5	Data type of instance parameter in index extension is not valid.

Class Code 44 WITH CHECK OPTION Violation

Table 24. Class Code 44: WITH CHECK OPTION Violation

SQLSTATE Value	Meaning
44000	The INSERT or UPDATE is not allowed, because a resulting row does not satisfy the view definition.

Class Code 46 Java DDL

Table 25. Class Code 46: Java DDL

SQLSTATE Value	Meaning
46001	Java DDL - Invalid URL.
46002	Java DDL - Invalid jar name.
46003	Java DDL - Invalid class deletion.
46007	Java DDL - Invalid signature.
46008	Java DDL - Invalid method specification.
46501	Java DDL - Optional component not implemented.

Class Code 51 Invalid Application State

Table 26. Class Code 51: Invalid Application State

SQLSTATE Value	Meaning
51002	The package corresponding to an SQL statement execution request was not found.
51003	Consistency tokens do not match.
51004	An address in the SQLDA is invalid.
51005	The previous system error has disabled this function.
51008	The release number of the precompiled program is not valid.
51015	An attempt was made to execute a section that was found to be in error at bind time.
51017	The user is not logged on.
51021	SQL statements cannot be executed until the application process executes a rollback operation.
51022	A CONNECT that specifies an authorization name is invalid when a connection (either current or dormant) already exists to the server named in that CONNECT statement.
51023	The database is already in use by another instance of the database manager.
51024	A view cannot be used, because it has been marked inoperative.
51025	An application in the XA transaction processing environment is not bound with SYNCPOINT TWOPHASE.
51026	An event monitor cannot be turned on, because its target path is already in use by another event monitor.
51027	The IMMEDIATE CHECKED option of the SET CONSTRAINTS statement is not valid since a table is not in the check-pending state.
51028	A package cannot be used, because it is marked inoperative.

Class Code 54 SQL or Product Limit Exceeded

Table 27. Class Code 54: SQL or Product Limit Exceeded

SQLSTATE Value	Meaning
54001	The statement is too long or too complex.
54002	A string constant is too long.
54004	The statement has too many table names or too many items in a SELECT or INSERT list.

Table 27. Class Code 54: SQL or Product Limit Exceeded (continued)

SQLSTATE Value	Meaning
54006	The result of concatenation is too long.
54008	The key is too long, has too many columns, or a key column is too long.
54010	The record length of the table is too long.
54011	Too many columns were specified for a table or view.
54023	The limit for the number of parameters or arguments for a function or a procedure has been exceeded.
54028	The maximum number of concurrent LOB handles has been reached.
54029	The maximum number of open directory scans has been reached.
54030	The maximum number of event monitors are already active.
54031	The maximum number of files have already been assigned the event monitor.
54032	The maximum size of a table has been reached.
54033	The maximum number of partitioning maps has been reached.
54034	The combined length of all container names for the tablespace is too long.
54035	An internal object limit exceeded.
54036	The path name for the container is too long.
54037	The container map for the tablespace is too complicated.
54038	Maximum depth of cascaded triggers exceed.
54045	Maximum levels of a type hierarchy exceeded.
54046	The maximum allowable parameters is exceeded in an index extension.
54047	The maximum size of a table space is exceeded.
54048	A temporary table space with sufficient page size does not exist.

Class Code 55 Object Not in Prerequisite State

Table 28. Class Code 55: Object Not in Prerequisite State

SQLSTATE Value	Meaning
55001	The database must be migrated.
55002	The explanation table is not defined properly.
55006	The object cannot be dropped, because it is currently in use by the same application process.

Table 28. Class Code 55: Object Not in Prerequisite State (continued)

SQLSTATE Value	Meaning
55007	The object cannot be altered, because it is currently in use by the same application process.
55009	The system attempted to write to a read-only file or a write-protected diskette.
55012	A clustering index already exists on the table.
55019	The table is in an invalid state for the operation.
55022	The file server is not registered with this database.
55024	The tablespace cannot be dropped, because data related to a table is also in another tablespace.
55025	The database must be restarted.
55026	A temporary tablespace cannot be dropped.
55031	The format of the error mapping file is incorrect.
55032	The CONNECT statement is invalid, because the database manager was stopped after this application was started.
55033	An event monitor cannot be activated in the same unit of work in which it is created or modified.
55034	The event monitor is in an invalid state for the operation.
55036	The node cannot be dropped, because it has not been removed from the partitioning map.
55037	The partitioning key cannot be dropped, because the table is in a multi-node nodegroup.
55038	The nodegroup cannot be used, because it is being rebalanced.
55039	The access or state transition is not allowed, because the tablespace is not in an appropriate state.
55041	Containers cannot be added to a tablespace while a rebalance is in progress.
55043	Attributes of a structured type cannot be altered when a typed table or typed view based on the type exists.

Class Code 56 Miscellaneous SQL or Product Error

Table 29. Class Code 56: Miscellaneous SQL or Product Error

SQLSTATE Value	Meaning
56031	The clause or scalar function is invalid, because mixed and DBCS data are not supported on this system.

Table 29. Class Code 56: Miscellaneous SQL or Product Error (continued)

SQLSTATE Value	Meaning
56033	The insert or update value of a long string column must be a host variable or NULL.
56084	LOB data is not supported in DRDA.
56091	Multiple errors occurred as a result of executing a compound SQL statement.
56092	The type of authorization cannot be determined, because the authorization name is both a user id and group id.
56097	LONG VARCHAR and LONG VARGRAPHIC fields are not permitted in TABLESPACES which are built on DEVICES.
56098	An error occurred during implicit rebind or prepare.
56099	The REAL data type is not supported by the target database.
560A0	Action on a LOB value failed.
560AA	The clause or scalar function is invalid, because UCS-2 is not supported on this system.

Class Code 57 Resource Not Available or Operator Intervention

Table 30. Class Code 57: Resource Not Available or Operator Intervention

SQLSTATE Value	Meaning
57001	The table is unavailable, because it does not have a primary index.
57003	The specified bufferpool has not been activated.
57007	The object cannot be used, because a DROP or ALTER is pending.
57009	Virtual storage or database resource is temporarily unavailable.
57011	Virtual storage or database resource is not available.
57012	A non-database resource is not available. This will not affect the successful execution of subsequent statements.
57013	A non-database resource is not available. This will affect the successful execution of subsequent statements.
57014	Processing was canceled as requested.
57016	The table cannot be accessed, because it is inactive.
57017	Character conversion is not defined.
57019	The statement was not successful, because of a problem with a resource.
57020	The drive containing the database is locked.
57021	The diskette drive door is open.

Table 30. Class Code 57: Resource Not Available or Operator Intervention (continued)

SQLSTATE Value	Meaning
57022	The table could not be created, because the authorization ID of the statement does not own any suitable dbspaces.
57030	Connection to application server would exceed the installation-defined limit.
57032	The maximum number of concurrent databases have already been started.
57033	Deadlock or timeout occurred without automatic rollback.
57036	The transaction log does not belong to the current database.
57046	A new transaction cannot start because the database or instance is quiesced.
57047	An internal database file cannot be created, because the directory is not accessible.
57048	An error occurred while accessing a container for a tablespace.
57049	The operating system process limit has been reached.
57050	The file server is not currently available.
57051	The estimated CPU cost exceeds the resource limit.
57052	Node is unavailable, because it does not have containers for all temporary table spaces.
57055	A temporary table space with sufficient page size was not available.
57056	Package is not available because the database is in NO PACKAGE LOCK mode.
57057	The SQL statement cannot be executed due to a prior condition in a DRDA chain of SQL statements.

Class Code 58 System Error

Table 31. Class Code 58: System Error

SQLSTATE Value	Meaning
58004	A system error (that does not necessarily preclude the successful execution of subsequent SQL statements) occurred.
58005	A system error (that prevents the successful execution of subsequent SQL statements) occurred.
58008	Execution failed due to a distribution protocol error that will not affect the successful execution of subsequent DDM commands or SQL statements.

Table 31. Class Code 58: System Error (continued)

SQLSTATE Value	Meaning
58009	Execution failed due to a distribution protocol error that caused deallocation of the conversation.
58010	Execution failed due to a distribution protocol error that will affect the successful execution of subsequent DDM commands or SQL statements.
58011	The DDM command is invalid while the bind process in progress.
58012	The bind process with the specified package name and consistency token is not active.
58014	The DDM command is not supported.
58015	The DDM object is not supported.
58016	The DDM parameter is not supported.
58017	The DDM parameter value is not supported.
58018	The DDM reply message is not supported.
58023	A system error has caused the current program to be canceled.
58030	An I/O error has occurred.
58031	The connection was unsuccessful, because of a system error.
58032	Unable to use the process for a fenced mode user-defined function.
58034	An error was detected while attempting to find pages for an object in a DMS tablespace.
58035	An error was detected while attempting to free pages for an object in a DMS tablespace.
58036	The internal tablespace ID specified does not exist.

Appendix A. Communications Errors

If your application generates an SQL error (sqlcode) of -30081, a communications error has been detected. The actual error encountered by the communications subsystem is returned in the list of error tokens for the 30081 error message. The following sections list possible communications errors that can be returned.

The error codes are grouped by protocol as follows:

- “TCP/IP”
- “APPC” on page 682
- “NETBIOS” on page 685
- “IPX/SPX” on page 687

TCP/IP

For users of TCP/IP in a UNIX-based environment, the following table lists some of the error reason codes (*errno*s) that are most frequently encountered. It is *not* a complete list of errors. *Errnos* can be found in the file **/usr/include/sys/errno.h**. The *errno* number itself is indicated for each operating system.

Table 32. UNIX-based TCP/IP *errno*s.

Errno	Errno Number					Description
	AIX	HP-UX	Solaris	UnixWare	Linux	
EINTR	4	4	4	4	4	Interrupted system call.
EAGAIN	11	11	11	11	11	Resource temporarily unavailable.
EBUSY	16	16	16	16	16	Resource busy.
EMFILE	24	24	24	24	24	The per-process file descriptor table is full.
EPIPE	32	32	32	32	32	Broken pipe.
EADDRINUSE	67	226	125	125	98	The specified address is already in use.
ENETDOWN	69	228	127	127	100	The network is down.

Table 32. UNIX-based TCP/IP errnos. (continued)

Errno	Errno Number					Description
	AIX	HP-UX	Solaris	UnixWare	Linux	
ENETUNREACH	70	229	128	128	101	No route to the network is available.
ENETRESET	71	230	129	129	102	The network has dropped the connection on reset.
ECONNRESET	73	232	131	131	104	Connection has been reset by the partner.
ENOBUFS	74	233	132	132	105	Insufficient buffer space resources were available in the system to complete the call.
ENOTCONN	76	235	134	134	107	The socket is not connected.
ETIMEDOUT	78	238	145	145	110	The connection timed out.
ECONNREFUSED	79	239	146	146	111	The connection has been refused. If you are trying to connect to the database, check that the database manager and TCP/IP protocol support at the server have been started successfully. If using SOCKS protocol support, also ensure that TCP/IP protocol support at the SOCKS server has been started successfully.
EHOSTDOWN	80	241	147	147	112	The host is down.
EHOSTUNREACH	81	242	148	148	113	No route to the host is available.

For more information on UNIX-based TCP/IP communication errors, refer to the technical reference manuals for the appropriate operating system.

For users of TCP/IP in an OS/2 environment, the following list shows *errno*s that are most frequently encountered. It is *not* a complete list of errors. *Errnos* can be found in the file **nerino.h**. This file is part of the TCP/IP product include files. It may not be present on your system if they have not been installed. The *errno* number itself is in parentheses.

- SOCEINTR (10003): Interrupted system call.
- SOCEMFILE (10024): Too many open files.
- SOCEPIPE (10032): Broken pipe.
- EADDRINUSE (10048): The specified address is already in use.
- ENETDOWN (10050): The network is down.
- ENETUNREACH (10051): No route to the network is available.
- ENETRESET (10052): The network has dropped the connection on reset.
- SOCECONNABORTED (10053): The software caused a connection abort.
- ECONNRESET (10054): Connection has been reset by the partner.
- ENOBUFS (10055): No buffer space available.
- ENOTCONN (10057): The socket is not connected.
- ETIMEDOUT (10060): The establishment of a connection timed out before a connection was made.
- ECONNREFUSED (10061): The connection has been refused. If you are trying to connect to the database, check that the database manager and TCP/IP protocol support at the server have been started successfully.
If using SOCKS protocol support, also ensure that TCP/IP protocol support at the SOCKS server has been started successfully.
- EHOSTDOWN (10064): The host is down.
- EHOSTUNREACH (10065): No route to the host is available.
- SOCEOS2ERR (10100): OS/2 error.

For more information on OS/2 TCP/IP communication errors, refer to the OS/2 TCP/IP documentation.

For users of TCP/IP or IPX/SPX under Windows 95, Windows 98, or Windows NT, the following list shows error codes that are most frequently encountered. It is *NOT* a complete list of errors. Errors returned by `WSAGetLastError()` can be found in the file **winsock.h**.

- WSAEINVAL (10022): If this error is received on function `WSAStartup`, then the Windows Sockets version supported by the application is not supported by this DLL.
- WSAEMFILE (10024): There are no file descriptors available.
- WSAEWOULDBLOCK (10035): The socket is marked as non-blocking and the operation would block.

- WSAEINPROGRESS (10036): A blocking Windows Sockets operation is in progress.
- WSAENOPROTOOPT (10042): The option is unknown or unsupported.
- WSAEADDRINUSE (10048): The specified address is already in use.
- WSAENETDOWN (10050): The network subsystem has failed.
- WSAENETUNREACH (10051): The network can't be reached from this host at this time.
- WSAENETRESET (10052): The connection has been broken due to remote host resetting.
- WSAECONNABORTED (10053): The virtual circuit was aborted due to timeout or other failure. The network has dropped the connection on reset.
- WSAECONNRESET (10054): Connection has been reset by the partner.
- WSAENOBUFS (10055): No buffer space available, too many connections.
- WSAENOTCONN (10057): The socket is not connected.
- WSAETIMEDOUT (10060): The establishment of a connection timed out before a connection was made.
- WSAECONNREFUSED (10061): The connection has been refused. If you are trying to connect to the database, check that the database manager and TCP/IP protocol support at the server has been started successfully.
- WSAEHOSTUNREACH (10065): The network can't be reached from this host at this time.
- WSASYSNOTREADY (10091): The underlying network subsystem is not ready for network communication.
- WSAVERNOTSUPPORTED (10092): The version of Windows Sockets API support requested is not provided by this particular Windows Sockets implementation.
- WSAHOST_NOT_FOUND (11001): Host not found.
- WSATRY_AGAIN (11002): Host not found. Request to retrieve the hostname's IP address from the name server failed.
- WSANO_DATA (11004): Valid name, no data record of requested type. The name server or hosts file does not recognize the hostname, or the service name is not specified in the services file.

For more information on TCP/IP communication errors under Windows, refer to the Windows Sockets documentation.

APPC

Below is a list of CPI-C function return codes which the user may encounter most frequently. It is NOT a complete list of return codes. The number in parentheses indicates the defined number corresponding to the return code.

- **CM_ALLOCATE_FAILURE_NO_RETRY (1):** Allocation failed because of a non-temporary condition. For example, the session cannot be activated due to a system definition error or session-activation protocol error. This return code is also returned when the session is deactivated because of a session protocol error before the conversation can be allocated.
- **CM_ALLOCATE_FAILURE_RETRY (2):** Allocation failed because of a temporary condition. For example, the session cannot be activated due to a temporary lack of resources at the local system or remote system.
- **CM_CONVERSATION_TYPE_MISMATCH (3):** Allocation failed because the remote program does not support the conversation type in the allocation request. This is likely a problem with the TP at the server. Ensure that the TP at the server is configured to support a conversation type of *basic*.
- **CM_TPN_NOT_RECOGNIZED (9):** This error occurs when the allocate request is sent to the remote system. It indicates that the remote system does not recognize the transaction program name specified in the request. If you are not using global directory services, ensure that the TP name specified in the CPI-C Side Information profile at the client, matches the TP name specified at the server. If you are using global directory services, request your database administrator's help to ensure that the TP name specified in the global directory entry matches the TP name specified at the server.
- **CM_TP_NOT_AVAILABLE_NO_RETRY (10):** This error occurs when the allocate request is sent to the remote system. It indicates that the remote LU recognizes the TP name sent, but cannot start the program. If you are trying to connect to DB2 for AIX, ensure that the path to the executable, specified at the server, is correct. Also check that the userid specified in the TPN profile at the server is valid.
- **CM_TP_NOT_AVAILABLE_RETRY (11):** This error occurs when the allocate request is sent to the remote system. It indicates that the remote LU recognizes the TP name sent, but for some reason which may be temporary, it cannot start the program. If you are trying to connect to DB2 for OS/2, check that the database manager and APPC protocol support at the server have been started successfully.
- **CM_DEALLOCATED_ABEND (17):** This error occurs when the remote program deallocates the conversation. This can occur if the remote program has abnormally terminated, or has encountered a fatal error condition. If you are trying to connect to DB2 for AIX, check that the database manager and APPC protocol support at the server have been started successfully. For an AIX server, this error could also be caused by one of the following:
 - The database agent at the server was forced off by the system administrator.

- A database agent could not be started at the server because the *maxagents* database manager configuration parameter has been exceeded. Check the First Failure Service Log (DB2DIAG.LOG) at the server to see if an error message has been logged.
- The database agent at the server was terminated due to an abnormal termination of a key database manager process.
- CM_PRODUCT_SPECIFIC_ERROR (20): A product-specific error has been detected, and a description of the error has been stored in the product's system error log. Check that the local APPC subsystem has been started successfully. For Communication Server for AIX, to get more information about a product-specific error, it is necessary to check the value of the global variable *errno*. See the section below for more information on possible *errno*s that can be returned. Communication Server for OS/2 records errors in the OS/2 system error log.
- CM_RESOURCE_FAILURE_NO_RETRY (26): This error occurs when the conversation terminates prematurely (on either the remote or local end) from an error related to resources (such as sessions or links). For an OS/2 server, this error could also be caused by one of the following:
 - The database agent at the server was forced off by the system administrator.
 - A database agent could not be started at the server because the *maxagents* database manager configuration parameter has been exceeded. Check the First Failure Service Log (DB2DIAG.LOG) at the server to see if an error message has been logged.
 - The database agent at the server was terminated due to an abnormal termination of a key database manager process.
- CM_RESOURCE_FAILURE_RETRY (27): This error occurs when the conversation terminates prematurely (on either the remote or local end) for about the same reason as the NO_RETRY condition described above. The only difference is that the error may not be permanent.

For the most part, CPI Communications return codes are enough to deduce the cause of the error. But when CM_PRODUCT_SPECIFIC_ERROR is returned, additional information is provided.

For Communication Server for AIX, the *errno* provides additional information. Below is a list of some of the more common *errno*s. It is NOT a complete list. *Errnos* numbered 101 and higher can be found in the file **/usr/include/luxsna.h**, which contains the Communication Server for AIX specific *errno*s. Most of these *errno*s are translated to CPI-C return codes. Lower-numbered *errno*s are related to AIX problems and can be found in the file **/usr/include/sys/errno.h**. The *errno* number itself is in parentheses.

- EBADF (9): This is a "bad file descriptor" error. If this error occurs when trying to connect to the database, it usually means that the SNA subsystem

at the server has not been started, or that there is some problem with the SNA configuration profiles. Check that the SNA subsystem at the server has been started. Check that the link station to the server node can be activated.

- EACCESS (13): This is a "permission denied" error. If this error occurs when trying to connect to the database, it usually means that there is some problem with the SNA configuration profiles.

On HP-UX, for SNAPPlus2, please refer to the `/usr/include/sys/errno.h` file for a description of the error.

For OS/2, when CPI Communications returns `CM_PRODUCT_SPECIFIC_ERROR`, an entry is created in the error log. Information in the error log entry identifies CPIC as the originator. If Communications Manager/2 is installed, Communications Manager records the error in the OS/2 system error log. Refer to the problem determination guide for the specific product, for a complete description of the error, and the recommended action to take.

For more information on CPI Communications errors, refer to *Systems Application Architecture Common Programming Interface Communications Reference*.

NETBIOS

When using NetBIOS, the following is a list of hexadecimal return codes that the user may encounter most frequently. It is NOT a complete list of return codes.

01	Invalid buffer length
03	Invalid command
05	Command timed out
06	Message incomplete
07	Data not received
08	Invalid local session number
09	No resource available
0A	Session closed

This error could be caused by one of the following:

- The database agent at the server was forced off by the system administrator.
- A database agent could not be started at the server because the *maxagents* database manager configuration parameter has been

exceeded. Check the First Failure Service Log (DB2DIAG.LOG) at the server to see if an error message has been logged.

- The database agent at the server was terminated due to an abnormal termination of a key database manager process.

0B Command cancelled

0D Duplicate name used on the network. Ensure that the nname parameter defined in the database manager configuration file is unique on the network.

0E Name table full

0F Command completed (name has active sessions and is now deregistered)

11 Local session table full

12 Session open rejected

13 Invalid name number

14 Remote name not found

If this error occurs when trying to connect to the database, ensure that:

- The database manager has been successfully started at the server, and NetBIOS support has also been successfully started.
- The server nname specified in the NETBIOS node entry at the client, matches the workstation name specified in the database manager configuration file at the server.

15 Local name not found

16 Name in use on remote node

17 Name deleted

18 Session ended abnormally

19 Name conflict detected

21 Interface busy

22 Too many commands outstanding

23 Invalid adapter

24 Command already completed

26 Command invalid to cancel

30 Name defined by another environment

34 Environment not defined, RESET must be issued

35	Required operating system resources exhausted, retry later
36	Max applications exceeded
37	No SAPs available
38	Requested resources not available
39	Invalid NCB address
3A	Invalid reset
3B	Invalid NCB DD ID
3C	Segment lock unsuccessful
3F	Device driver open error.
40	OS error detected
4F	Perm ring status
F6	Unexpected CCB error
F8	Adapter open error
F9	Adapter support software internal error
FA	Adapter check
FB	NetBIOS not operational
FC	Open failures
FD	Unexpected adapter close
FF	Command in process

For more information on NetBIOS return codes, refer to the Local Area Network technical reference.

IPX/SPX

When using IPX/SPX OS/2 or Unix systems, the following is a list of *t_errnos* which the user may encounter most frequently. It is NOT a complete list of errors. *Error values* can be found in the file *tiuser.h*. The *t_errno* number itself is in parentheses.

- TBADF (4): Specified file handle does not refer to a transport endpoint.
- TNOADDR (5): Transport provider could not allocate an address.
- TOUTSTATE (6): A function was issued in the wrong sequence.
- TSYSERR (8): A system error occurred during execution of this function.
- TLOOK (9): An asynchronous event has occurred on this connection.
- TNODATA (13): No data is currently available from the transport provider.

- TADDRBUSY (23): Specified address is in use and the transport provider could not allocate a new address.

When the first error token specifies `t_errno = TLOOK`, the second error token specifies an event. Below is a list of *events* which the user may encounter most frequently. It is NOT a complete list of *events*. *Events* can be found in the file `tiuser.h`. The *event* value is in parentheses.

- T_DISCONNECT (0x0010): Disconnect received.

This error could be caused by one of the following:

- The server was not started, or IPX/SPX support on the server was not started. Check the First Failure Service Log (DB2DIAG.LOG) at the server to see if messages have been logged.
- The node directory information specified on the client is incorrect.
- The client or server IPX/SPX communications stack was not installed and/or configured properly.
- The database agent at the server was forced off by the system administrator.
- A database agent could not be started at the server because the *maxagents* database manager configuration parameter has been exceeded. Check the First Failure Service Log (DB2DIAG.LOG) at the server to see if an error message has been logged.
- The database agent at the server was terminated due to an abnormal termination of a key database manager process.

When the first error token specifies `t_errno = TLOOK`, and the second error token specifies the event T_DISCONNECT, the third error token specifies a disconnect *reason code*. Below is a list of disconnect *reason codes* which the user may encounter most frequently. It is NOT a complete list of *reason codes*. Disconnect *reason codes* can be found in the file `tispxipx.h`. On UNIX platforms, the reason codes are defined in the file `spx_app.h`. The *reason code* value is in parentheses.

- TLI_SPX_CONNECTION_TERMINATED (0xEC): Disconnect received from remote peer.
- TLI_SPX_CONNECTION_FAILED (0xED): Connection failure.

For more information on TLI IPX/SPX communication errors, refer to the Transport Layer Interface documentation.

When using OS/2 IPX/SPX file server addressing mode, the following is a list of *return values* which the user may encounter most frequently. It is NOT a complete list of errors. *Return values* can be found in the file `nwerror.h`.

0x880F -

This is a "NO CONNECTION TO SERVER" error. Ensure that the file server specified is up and running, and can be accessed by the client and server workstations.

0x88FF -

If this error occurs when trying to connect to the database, and the function is *NWAttachToFileServer*, ensure that the IPX/SPX protocol support at the client has been installed correctly, and is started.

0x89EF -

This is an "INVALID NAME" error. Illegal characters were specified in the file server or object name. Control characters, the comma, semicolon, slash, backslash, question mark, asterisk, and tilde are invalid.

0x89F2

This is a "NO OBJECT READ PRIVILEGE" error. The client does not have access to read the DB2 server's object registered at the Netware file server.

0x89F4

This is a "NO OBJECT DELETE PRIVILEGE" error. Ensure that the userid/password specified during deregister has sufficient authority to delete an object and its properties, on the file server.

0x89F5

This is a "NO OBJECT CREATE PRIVILEGE" error. Ensure that the userid/password specified during register has sufficient authority to create an object and its properties, on the file server.

0x89F6

This is a "NO PROPERTY DELETE PRIVILEGE" error. Ensure that the userid/password specified during deregister has sufficient authority to delete an object and its properties, on the file server.

0x89F7

This is a "NO PROPERTY CREATE PRIVILEGE" error. Ensure that the userid/password specified during register has sufficient authority to create an object and its properties, on the file server.

0x89F8

This is a "NO PROPERTY WRITE PRIVILEGE" error. Ensure the that the userid/password specified during register has sufficient authority to write object property values, on the file server.

0x89FC -

This is an "UNKNOWN FILE SERVER" or "NO SUCH OBJECT" error.

If this error occurs when running the REGISTER/DEREGISTER command, ensure that:

- An object name has been specified in the database manager configuration file, and the name contains valid characters.
- A file server name has been specified in the database manager configuration file, and the name contains valid characters.

If this error occurs when trying to connect to the database, and the function is *NWScanProperty*, ensure that:

- The network address of the database manager has been successfully registered at the NetWare file server. This is done by running the REGISTER command at the server.
- The object name specified in the IPXSPX node directory entry at the client, matches the object name specified in the database manager configuration file at the server.
- The file server name specified in the IPXSPX node directory entry at the client, matches the file server name specified in the database manager configuration file at the server.

If this error occurs on function *NWAttachToFileServer*, ensure that the files server name was configured correctly in the database manager configuration file.

If this error occurs on function *NWLoginToFileServer*, ensure that the userid specified on the register / deregister is valid for logging into the file server.

0x89FF -

This is a "NO SUCH OBJECT OR BAD PASSWORD" error. Ensure that the password you have specified is defined, and has not expired.

For more information on IPX/SPX file server addressing mode errors, refer to the NetWare Client API for C documentation.

When using Unix IPX/SPX file server addressing mode, the following is a list of *error generators* that identify what location generated the error.

- 0x00 - File server
- 0x10 - API
- 0x20 - API

When using Unix IPX/SPX file server addressing mode, the following is a list of *error codes* which the user may encounter most frequently. It is NOT a complete list of errors. On AIX, *error codes* can be found in the file *nwerrors.h*.

0x02 - This is a "TRANSPORT OPEN" error. Ensure that IPX/SPX communications was installed and configured correctly.

0xDE -

This is a "BAD PASSWORD" error. Ensure that the password specified on register/deregister is valid for logging into the file server.

0xEF -

This is an "INVALID NAME" error. Ensure that the file server and object name specified in the database manager configuration file is valid. Check that the name does not contain illegal characters.

0xF2 -

This is a "NO OBJECT READ PRIVILEGE" error. The client does not have access to read the DB2 server's object registered at the NetWare file server.

0xF4 -

This is a "NO OBJECT DELETE PRIVILEGE" error. Ensure that the userid/password specified during deregister has sufficient authority to delete an object and its properties, on the file server.

0xF5 -

This is a "NO OBJECT CREATE PRIVILEGE" error. Ensure that the userid/password specified during register has sufficient authority to create an object and its properties, on the file server.

0xF6 -

This is a "NO PROPERTY DELETE PRIVILEGE" error. Ensure that the userid/password specified during deregister has sufficient authority to delete an object and its properties.

0xF7

This is a "NO PROPERTY CREATE PRIVILEGE" error. Ensure that the userid/password specified during register has sufficient authority to create an object and its properties.

0xF8 -

This is a "NO PROPERTY WRITE PRIVILEGE" error. Ensure that the userid/password specified during register has sufficient authority to write object property values, on the file server.

0xFC -

This is a "UNKNOWN FILE SERVER" or "NO SUCH OBJECT" error.

If this error occurs when running the REGISTER/DEREGISTER command, ensure that:

- An object name has been specified in the database manager configuration file, and the name contains valid characters.
- A file server name has been specified in the database manager configuration file, and the name contains valid characters.

If this error occurs when trying to connect to the database, and the function is *NWScanProperty*, ensure that:

- The network address of the database manager has been successfully registered at the NetWare file server. This is done by running the REGISTER command at the server.
- The object name specified in the IPXSPX node directory entry at the client, matches the object name specified in the database manager configuration file at the server.

- The file server name specified in the IPXSPX node directory entry at the client, matches the file server name specified in the database manager configuration file at the server.

If this error occurs on function *NWAttachToServerPlatform*, ensure that the files server name was configured correctly in the database manager configuration file.

If this error occurs on function *NWLoginToServerPlatform*, ensure that the userid specified on the register / deregister is valid for logging into the file server.

0xFF - This is a "NO RESPONSE FROM FILE SERVER". Ensure that the file server is up and running and accessible by the DB2 server and client.

For more information on IPX/SPX file server addressing mode errors, refer to the NetWare C Interface for UNIX API reference.

Appendix B. SPM Protocol Violation Records

This section shows the Protocol Violation records generated by the DB2 SPM. These records will be directed to the first failure service log (db2diag.log) and will follow the corresponding message.

Resync Protocol Violation Record

```

/*****
* SQLCSPM_RESYNC_PROTOCOL_VIOLATION_206 - Resync Protocol error.
*
* This trace is produced when a protocol error occurs during a Resync Compare
* States (CS) exchange with a remote LU. The following are examples of SNA
* Compare States protocol errors:
*   * an unknown STATE was found in the SNA CS message
*   * an invalid data message was received from the remote site
*   * an invalid LU6.2 verb sequence was detected
*
*****/
#define SQLCSPM_RPV_206_T "SQLCSPM_RESYNC_PROTOCOL_VIOLATION_206" /* Title.*/
typedef struct sqlcspm_resync_protocol_violation_206
{
    SQLCSPM_LUNAME luname; /* Site involved in violation.
    SQLCSPM_LUWID luwid; /* LUWID for the unit of work.
    SQLXA_XID xid; /* XID of the thread.
    char role; /* Role of DB2 in LUW -- C or P.
    /* C for coordinator.
    /* P for participant.
    char status; /* Local thread status -- C, A or I
    /* C for COMMIT.
    /* A for ABORT.
    /* I for INDOUBT.
    SQLCSPS_TRACE comm_trace; /* Communication trace of violation.
} SQLCSPM_RESYNC_PROTOCOL_VIOLATION_206;
```

Syncpoint Protocol Violation Record

```

/*****
* SQLCSPM_2PHASE_PROTOCOL_VIOLATION_208 - SNA syncpoint protocol error.
*
* This trace is produced when a protocol error occurs during the SNA
* syncpoint process with a remote LU. The following are examples of SNA
* syncpoint protocol errors:
*   * an unknown SNA PS header was received.
*   * an SNA PS header was received in the wrong sequence.
*   * an invalid LU6.2 verb sequence was detected.
*   * the remote site issued DEALLOCATE TYPE(ABEND_SVC).
*
*****/
#define SQLCSPM_2PPV_208_T "SQLCSPM_2PHASE_PROTOCOL_VIOLATION_208" /* Title.*/
typedef struct sqlcspm_2phase_protocol_violation_208
```



```

{
    SQLCSPM_LUNAME  luname;      /* Site involved in violation. */
    SQLCSPM_LUWID   luwid;       /* LUWID for the unit of work. */
    SQLXA_XID       xid;         /* XID of the thread. */
    char            role;        /* Role of DB2 in LUW -- C or P. */
                                /* C for coordinator. */
                                /* P for participant. */
    char            local_status; /* Local thread status -- C, A or I */
                                /* C for COMMIT. */
                                /* A for ABORT. */
                                /* I for INDOUBT. */
    char            partner_status; /* Partner thread status -- C, A or I */
                                /* C for COMMIT. */
                                /* A for ABORT. */
                                /* I for INDOUBT. */
    SQLCSPS_TRACE   comm_trace;  /* Communication trace of violation. */
} SQLCSPM_2PHASE_PROTOCOL_VIOLATION_208;

```

XLN Protocol Violation Record

```

/*****
 * SQLCSPM_XLN_PROTOCOL_VIOLATION_236 - SNA XLN protocol error.
 *
 * This trace is produced when a protocol error occurs during the SNA
 * syncpoint process with a remote LU. The following are examples of SNA
 * syncpoint protocol errors:
 *   * an unknown SNA PS header was received.
 *   * an SNA PS header was received in the wrong sequence.
 *   * an invalid LU6.2 verb sequence was detected.
 *   * the remote site issued DEALLOCATE TYPE(ABEND_SVC).
 *****/
#define SQLCSPM_XPV_236_T "SQLCSPM_XLN_PROTOCOL_VIOLATION_236" /* Title.*/
typedef struct sqlcspm_xln_protocol_violation_236
{
    SQLCSPM_LUNAME  luname;      /* Site involved in violation. */
    SQLCSPX_XLN_INF xln_inf;     /* Current XLN information
                                in LUB. */
    SQLCSPX_XLN_INF txln_inf;    /* Temporary XLN information
                                in LUB. */
    SQLCSPM_GDSAREA xln;        /* Current XLN GDS being
                                processed. */
    SQLCSPS_TRACE   comm_trace;  /* Communication trace of violation. */
} SQLCSPM_XLN_PROTOCOL_VIOLATION_236;

```

Appendix C. How the DB2 Library Is Structured

The DB2 Universal Database library consists of SmartGuides, online help, books and sample programs in HTML format. This section describes the information that is provided, and how to access it.

To access product information online, you can use the Information Center. You can view task information, DB2 books, troubleshooting information, sample programs, and DB2 information on the Web. See “Accessing Information with the Information Center” on page 706 for details.

Completing Tasks with SmartGuides

SmartGuides help you complete some administration tasks by taking you through each task one step at a time. SmartGuides are available through the Control Center and the Client Configuration Assistant. The following table lists the SmartGuides.

Note: Create Database, Index, and Configure Multisite Update SmartGuide are available for the partitioned database environment.

SmartGuide	Helps You to...	How to Access...
Add Database	Catalog a database on a client workstation.	From the Client Configuration Assistant, click Add .
Back up Database	Determine, create, and schedule a backup plan.	From the Control Center, click with the right mouse button on the database you want to back up and select Backup->Database using SmartGuide .
Configure Multisite Update SmartGuide	Perform a multi-site update, a distributed transaction, or a two-phase commit.	From the Control Center, click with the right mouse button on the Database icon and select Multisite Update .
Create Database	Create a database, and perform some basic configuration tasks.	From the Control Center, click with the right mouse button on the Databases icon and select Create->Database using SmartGuide .

SmartGuide	Helps You to...	How to Access...
Create Table	Select basic data types, and create a primary key for the table.	From the Control Center, click with the right mouse button on the Tables icon and select Create->Table using SmartGuide .
Create Table Space	Create a new table space.	From the Control Center, click with the right mouse button on the Table spaces icon and select Create->Table space using SmartGuide .
Index	Advise which indexes to create and drop for all your queries.	From the Control Center, click with the right mouse button on the Index icon and select Create->Index using SmartGuide .
Performance Configuration	Tune the performance of a database by updating configuration parameters to match your business requirements.	From the Control Center, click with the right mouse button on the database you want to tune and select Configure using SmartGuide .
Restore Database	Recover a database after a failure. It helps you understand which backup to use, and which logs to replay.	From the Control Center, click with the right mouse button on the database you want to restore and select Restore->Database using SmartGuide .

Accessing Online Help

Online help is available with all DB2 components. The following table describes the various types of help. You can also access DB2 information through the Information Center. For information see “Accessing Information with the Information Center” on page 706.

Type of Help	Contents	How to Access...
Command Help	Explains the syntax of commands in the command line processor.	From the command line processor in interactive mode, enter: <i>? command</i> where <i>command</i> is a keyword or the entire command. For example, <i>? catalog</i> displays help for all the CATALOG commands, while <i>? catalog database</i> displays help for the CATALOG DATABASE command.

Type of Help	Contents	How to Access...
Control Center Help Client Configuration Assistant Help Event Analyzer Help Command Center Help	Explains the tasks you can perform in a window or notebook. The help includes prerequisite information you need to know, and describes how to use the window or notebook controls.	From a window or notebook, click the Help push button or press the F1 key.
Message Help	Describes the cause of a message, and any action you should take.	From the command line processor in interactive mode, enter: <code>? XXXnnnnn</code> where <i>XXXnnnnn</i> is a valid message identifier. For example, <code>? SQL30081</code> displays help about the SQL30081 message. To view message help one screen at a time, enter: <code>? XXXnnnnn more</code> To save message help in a file, enter: <code>? XXXnnnnn > filename.ext</code> where <i>filename.ext</i> is the file where you want to save the message help.
SQL Help	Explains the syntax of SQL statements.	From the command line processor in interactive mode, enter: <code>help statement</code> where <i>statement</i> is an SQL statement. For example, help SELECT displays help about the SELECT statement. Note: SQL help is not available on UNIX-based platforms.

Type of Help	Contents	How to Access...
SQLSTATE Help	Explains SQL states and class codes.	From the command line processor in interactive mode, enter: <i>? sqlstate</i> or <i>? class-code</i> where <i>sqlstate</i> is a valid five-digit SQL state and <i>class-code</i> is the first two digits of the SQL state. For example, <i>? 08003</i> displays help for the 08003 SQL state, while <i>? 08</i> displays help for the 08 class code.

DB2 Information – Hardcopy and Online

The table in this section lists the DB2 books. They are divided into two groups:

Cross-platform books

These books contain the common DB2 information for all platforms.

Platform-specific books

These books are for DB2 on a specific platform. For example, there are separate *Quick Beginnings* books for DB2 on OS/2, on Windows NT, and on the UNIX-based platforms.

Cross-platform sample programs in HTML

These samples are the HTML version of the sample programs that are installed with the SDK. They are for informational purposes and do not replace the actual programs.

Most books are available in HTML and PostScript format, or you can choose to order a hardcopy from IBM. The exceptions are noted in the table.

On OS/2 and Windows platforms, HTML documentation files can be installed under the `doc\html` subdirectory. Depending on the language of your system, some files may be in that language, and the remainder are in English.

On UNIX platforms, you can install multiple language versions of the HTML documentation files under the `doc/%L/html` subdirectories. Any documentation that is not available in a national language is shown in English.

You can obtain DB2 books and access information in a variety of different ways:

View	See “Viewing Online Information” on page 705.
Search	See “Searching Online Information” on page 708.
Print	See “Printing the PostScript Books” on page 708.
Order	See “Ordering the Printed Books” on page 710.

Name	Description	Form Number File Name for Online Book	HTML Directory
Cross-Platform Books			
<i>Administration Guide</i>	<i>Administration Guide, Design and Implementation</i> contains information required to design, implement, and maintain a database. It also describes database access using the Control Center(whether local or in a client/server environment), auditing, database recovery, distributed database support, and high availability. <i>Administration Guide, Performance</i> contains information that focuses on the database environment, such as application performance evaluation and tuning. You can order both volumes of the <i>Administration Guide</i> in the English language in North America using the form number SBOF-8922.	Volume 1 SC09-2839 db2d1x60 Volume 2 SC09-2840 db2d2x60	db2d0
<i>Administrative API Reference</i>	Describes the DB2 application programming interfaces (APIs) and data structures you can use to manage your databases. Explains how to call APIs from your applications.	SC09-2841 db2b0x60	db2b0
<i>Application Building Guide</i>	Provides environment setup information and step-by-step instructions about how to compile, link, and run DB2 applications on Windows, OS/2, and UNIX-based platforms. This book combines the <i>Building Applications</i> books for the OS/2, Windows, and UNIX-based environments.	SC09-2842 db2axx60	db2ax

Name	Description	Form Number File Name for Online Book	HTML Directory
<i>APPC, CPI-C and SNA Sense Codes</i>	Provides general information about APPC, CPI-C, and SNA sense codes that you may encounter when using DB2 Universal Database products. Note: Available in HTML format only.	No form number db2apx60	db2ap
<i>Application Development Guide</i>	Explains how to develop applications that access DB2 databases using embedded SQL or JDBC, how to write stored procedures, user-defined types, user-defined functions, and how to use triggers. It also discusses programming techniques and performance considerations. This book was formerly known as the <i>Embedded SQL Programming Guide</i> .	SC09-2845 db2a0x60	db2a0
<i>CLI Guide and Reference</i>	Explains how to develop applications that access DB2 databases using the DB2 Call Level Interface, a callable SQL interface that is compatible with the Microsoft ODBC specification.	SC09-2843 db2l0x60	db2l0
<i>Command Reference</i>	Explains how to use the command line processor, and describes the DB2 commands you can use to manage your database.	SC09-2844 db2n0x60	db2n0
<i>Data Movement Utilities Guide and Reference</i>	Explains how to use the Load, Import, Export, Autoloader, and Data Propagation utilities to work with the data in the database.	SC09-2858 db2dmx60	db2dm
<i>DB2 Connect Personal Edition Quick Beginnings</i>	Provides planning, installing, and configuring information for DB2 Connect Personal Edition.	GC09-2830 db2c1x60	db2c1
<i>DB2 Connect User's Guide</i>	Provides concepts, programming and general usage information about the DB2 Connect products.	SC09-2838 db2c0x60	db2c0

Name	Description	Form Number File Name for Online Book	HTML Directory
<i>Connectivity Supplement</i>	Provides setup and reference information on how to use DB2 for AS/400, DB2 for OS/390, DB2 for MVS, or DB2 for VM as DRDA application requesters with DB2 Universal Database servers, and on how to use DRDA application servers with DB2 Connect application requesters. Note: Available in HTML and PostScript formats only.	No form number db2h1x60	db2h1
<i>Glossary</i>	Provides a comprehensive list of all DB2 terms and definitions. Note: Available in HTML format only.	No form number db2t0x50	db2t0
<i>Installation and Configuration Supplement</i>	Guides you through the planning, installation, and set up of platform-specific DB2 clients. This supplement contains information on binding, setting up client and server communications, DB2 GUI tools, DRDA AS, distributed installation, and the configuration of distributed requests and access methods to heterogeneous data sources.	GC09-2857 db2iyx60	db2iy
<i>Message Reference</i>	Lists messages and codes issued by DB2, and describes the actions you should take.	GC09-2846 db2m0x60	db2m0
<i>Replication Guide and Reference</i>	Provides planning, configuration, administration, and usage information for the IBM Replication tools supplied with DB2.	SC26-9642 db2e0x60	db2e0
<i>SQL Getting Started</i>	Introduces SQL concepts, and provides examples for many constructs and tasks.	SC09-2856 db2y0x60	db2y0
<i>SQL Reference, Volume 1 and Volume 2</i>	Describes SQL syntax, semantics, and the rules of the language. Also includes information about release-to-release incompatibilities, product limits, and catalog views. You can order both volumes of the <i>SQL Reference</i> in the English language in North America with the form number SBOF-8923.	SBOF-8923 Volume 1 db2s1x60 Volume 2 db2s2x60	db2s0

Name	Description	Form Number File Name for Online Book	HTML Directory
<i>System Monitor Guide and Reference</i>	Describes how to collect different kinds of information about databases and the database manager. Explains how to use the information to understand database activity, improve performance, and determine the cause of problems.	SC09-2849 db2f0x60	db2f0
<i>Troubleshooting Guide</i>	Helps you determine the source of errors, recover from problems, and use diagnostic tools in consultation with DB2 Customer Service.	S10J-8169	db2p0
<i>What's New</i>	Describes the new features, functions, and enhancements in DB2 Universal Database, Version 6.0, including information about Java-based tools.	SC09-2851 db2q0x60	db2q0
Platform-Specific Books			
<i>Administering Satellites Guide and Reference</i>	Provides planning, configuration, administration, and usage information for satellites.	GC09-2821 db2dsx60	db2ds
<i>DB2 Personal Edition Quick Beginnings</i>	Provides planning, installation, migration, and configuration information for DB2 Universal Database Personal Edition on the OS/2, Windows 95, and Windows NT operating systems.	GC09-2831 db2i1x60	db2i1
<i>DB2 for OS/2 Quick Beginnings</i>	Provides planning, installation, migration, and configuration information for DB2 Universal Database on the OS/2 operating system. Also contains installing and setup information for many supported clients.	GC09-2834 db2i2x60	db2i2
<i>DB2 for UNIX Quick Beginnings</i>	Provides planning, installation, migration, and configuration information for DB2 Universal Database on UNIX-based platforms. Also contains installing and setup information for many supported clients.	GC09-2836 db2ixx60	db2ix
<i>DB2 for Windows NT Quick Beginnings</i>	Provides planning, installation, migration, and configuration information for DB2 Universal Database on the Windows NT operating system. Also contains installing and setup information for many supported clients.	GC09-2835 db2i6x60	db2i6

Name	Description	Form Number File Name for Online Book	HTML Directory
<i>DB2 Enterprise - Extended Edition for UNIX Quick Beginnings</i>	Provides planning, installation, and configuration information for DB2 Enterprise - Extended Edition for UNIX. Also contains installing and setup information for many supported clients.	GC09-2832 db2v3x60	db2v3
<i>DB2 Enterprise - Extended Edition for Windows NT Quick Beginnings</i>	Provides planning, installation, and configuration information for DB2 Enterprise - Extended Edition for Windows NT. Also contains installing and setup information for many supported clients.	GC09-2833 db2v6x60	db2v6
<i>DB2 Connect Enterprise Edition for OS/2 and Windows NT Quick Beginnings</i>	Provides planning, migration, installation, and configuration information for DB2 Connect Enterprise Edition on the OS/2 and Windows NT operating systems. Also contains installation and setup information for many supported clients. This book was formerly part of the <i>DB2 Connect Enterprise Edition Quick Beginnings</i> .	GC09-2828 db2c6x60	db2c6
<i>DB2 Connect Enterprise Edition for UNIX Quick Beginnings</i>	Provides planning, migration, installation, configuration, and usage information for DB2 Connect Enterprise Edition in UNIX-based platforms. Also contains installation and setup information for many supported clients. This book was formerly part of the <i>DB2 Connect Enterprise Edition Quick Beginnings</i> .	GC09-2829 db2cyx60	db2cy
<i>DB2 Data Links Manager for AIX Quick Beginnings</i>	Provides planning, installation, configuration, and task information for DB2 Data Links Manager for AIX.	GC09-2837 db2z0x60	db2z0
<i>DB2 Data Links Manager for Windows NT Quick Beginnings</i>	Provides planning, installation, configuration, and task information for DB2 Data Links Manager for Windows NT.	GC09-2827 db2z6x60	db2z6
<i>DB2 Query Patroller Administration Guide</i>	Provides administration information on DB2 Query Patrol.	SC09-2859 db2dwx60	db2dw

Name	Description	Form Number File Name for Online Book	HTML Directory
<i>DB2 Query Patroller Installation Guide</i>	Provides installation information on DB2 Query Patrol.	GC09-2860 db2iwx60	db2iw
<i>DB2 Query Patroller User's Guide</i>	Describes how to use the tools and functions of the DB2 Query Patrol.	SC09-2861 db2wwx60	db2ww
Cross-Platform Sample Programs in HTML			
Sample programs in HTML	Provides the sample programs in HTML format for the programming languages on all platforms supported by DB2 for informational purposes (not all samples are available in all languages). Only available when the SDK is installed. See <i>Application Building Guide</i> for more information on the actual programs. Note: Available in HTML format only.	No form number	db2hs/c db2hs/cli db2hs/clp db2hs/cpp db2hs/cobol db2hs/cobol_mf db2hs/fortran db2hs/java db2hs/rexx

Notes:

1. The character in the sixth position of the file name indicates the language of a book. For example, the file name db2d0e60 indicates that the *Administration Guide* is in English. The following letters are used in the file names to indicate the language of a book:

Language	Identifier
Brazilian Portuguese	b
Bulgarian	u
Czech	x
Danish	d
Dutch	q
English	e
Finnish	y
French	f
German	g
Greek	a
Hungarian	h
Italian	i
Japanese	j
Korean	k
Norwegian	n
Polish	p

Portuguese	v
Russian	r
Simp. Chinese	c
Slovenian	l
Spanish	z
Swedish	s
Trad. Chinese	t
Turkish	m

2. For late breaking information that could not be included in the DB2 books:

- On UNIX-based platforms, see the Release.Notes file. This file is located in the DB2DIR/Readme/%L directory, where %L is the locale name and DB2DIR is:
 - /usr/lpp/db2_06_01 on AIX
 - /opt/IBMdbs2/V6.1 on HP-UX, Solaris, SCO UnixWare 7, and Silicon Graphics IRIX
 - /usr/IBMdbs2/V6.1 on Linux.
- On other platforms, see the RELEASE.TXT file. This file is located in the directory where the product is installed.
- Under Windows Start menu

Viewing Online Information

The manuals included with this product are in Hypertext Markup Language (HTML) softcopy format. Softcopy format enables you to search or browse the information, and provides hypertext links to related information. It also makes it easier to share the library across your site.

You can view the online books or sample programs with any browser that conforms to HTML Version 3.2 specifications.

To view online books or sample programs on all platforms other than SCO UnixWare 7:

- If you are running DB2 administration tools, use the Information Center. See “Accessing Information with the Information Center” on page 706 for details.
- Select the Open Page menu item of your Web browser. The page you open contains descriptions of and links to DB2 information:
 - On UNIX-based platforms, open the following page:


```
file:/INSTHOME/sqllib/doc/%L/html/index.htm
```

where %L is the locale name.

- On other platforms, open the following page:

`sql1lib\doc\html\index.htm`

The path is located on the drive where DB2 is installed.

If you have not installed the Information Center, you can open the page by double-clicking on the **DB2 Online Books** icon. Depending on the system you are using, the icon is in the main product folder or the Windows Start menu.

To view online books or sample programs on the SCO UnixWare 7:

- DB2 Universal Database for SCO UnixWare 7 uses the native SCOhelp utility to search the DB2 information. You can access SCOhelp by the following methods:
 - entering the "scohelp" command on the command line,
 - selecting the Help menu in the Control Panel of the CDE desktop or
 - selecting Help in the Root menu of the Panorama desktop

For more information on SCOhelp, refer to the *Installation and Configuration Supplement*.

Accessing Information with the Information Center

The Information Center provides quick access to DB2 product information. The Information Center is available on all platforms on which the DB2 administration tools are available.

Depending on your system, you can access the Information Center from the:

- Main product folder
- Toolbar in the Control Center
- Windows Start menu
- Help menu of the Control Center

The Information Center provides the following kinds of information. Click the appropriate tab to look at the information:

Tasks	Lists tasks you can perform using DB2.
Reference	Lists DB2 reference information, such as keywords, commands, and APIs.
Books	Lists DB2 books.
Troubleshooting	Lists categories of error messages and their recovery actions.
Sample Programs	Lists sample programs that come with the

DB2 Software Developer's Kit. If the Software Developer's Kit is not installed, this tab is not displayed.

Web

Lists DB2 information on the World Wide Web. To access this information, you must have a connection to the Web from your system.

When you select an item in one of the lists, the Information Center launches a viewer to display the information. The viewer might be the system help viewer, an editor, or a Web browser, depending on the kind of information you select.

The Information Center provides some search capabilities, so you can look for specific topics, and filter capabilities to limit the scope of your searches.

For a full text search, click the Search button of the Information Center follow the Search DB2 Books link in each HTML file.

The HTML search server is usually started automatically. If a search in the HTML information does not work, you may have to start the search server by double-clicking its icon on the Windows or OS/2 desktop.

Refer to the release notes if you experience any other problems when searching the HTML information.

Note: Search function is not available in the Linux and Silicon Graphics environments.

Setting Up a Document Server

By default, the DB2 information is installed on your local system. This means that each person who needs access to the DB2 information must install the same files. To have the DB2 information stored in a single location, use the following instructions:

1. Copy all files and subdirectories from `\sqlib\doc\html` on your local system to a Web server. Each book has its own subdirectory containing all the necessary HTML and GIF files that make up the book. Ensure that the directory structure remains the same.
2. Configure the Web server to look for the files in the new location. For information, see the NetQuestion Appendix in *Installation and Configuration Supplement*.

3. If you are using the Java version of the Information Center, you can specify a base URL for all HTML files. You should use the URL for the list of books.
4. Once you are able to view the book files, you should bookmark commonly viewed topics. Among those, you will probably want to bookmark the following pages:
 - List of books
 - Tables of contents of frequently used books
 - Frequently referenced articles, such as the ALTER TABLE topic
 - The Search form

For information about setting up a search, see the NetQuestion Appendix in *Installation and Configuration Supplement* book.

Searching Online Information

To search for information in the HTML books, you can do the following:

- Click on **Search the DB2 Books** at the bottom of any page in the HTML books. Use the search form to find a specific topic. This function is not available in the Linux or Silicon Graphics IRIX environments.
- Click on **Index** at the bottom of any page in an HTML book. Use the index to find a specific topic in the book.
- Display the table of contents or index of the HTML book, and then use the find function of the Web browser to find a specific topic in the book.
- Use the bookmark function of the Web browser to quickly return to a specific topic.
- Use the search function of the Information Center to find specific topics. See “Accessing Information with the Information Center” on page 706 for details.

Printing the PostScript Books

If you prefer to have printed copies of the manuals, you can decompress and print PostScript versions. For the file name of each book in the library, see the table in “DB2 Information – Hardcopy and Online” on page 698. Specify the full path name for the file you intend to print.

On OS/2 and Windows platforms:

1. Copy the compressed PostScript files to a hard drive on your system. The files have a file extension of .exe and are located in the `x:\doc\language\books\ps` directory, where x: is the letter representing the

CD-ROM drive and *language* is the two-character country code that represents your language (for example, EN for English).

2. Decompress the file that corresponds to the book that you want. Each compressed book is a self-extracting executable file. To decompress the book, simply run it as you would run any other executable program. The result from this step is a printable PostScript file with a file extension of .ps.
3. Ensure that your default printer is a PostScript printer capable of printing Level 1 (or equivalent) files.
4. Enter the following command from a command line:

```
print filename.ps
```

On UNIX-based platforms:

1. Mount the CD-ROM. Refer to your *Quick Beginnings* manual for the procedures to mount the CD-ROM.
2. Change to /cdrom/doc/%L/ps directory on the CD-ROM, where /cdrom is the mount point of the CD-ROM and %L is the name of the desired locale. The manuals will be installed in the previously-mentioned directory with file names ending with .ps.Z.
3. Decompress and print the manual you require using the following command:
 - For AIX:

```
zcat filename | qprt -P PSprinter_queue
```
 - For HP-UX, Solaris, or SCO UnixWare 7:

```
zcat filename | lp -d PSprinter_queue
```
 - For Linux:

```
zcat filename | lpr -P PSprinter_queue
```
 - For Silicon Graphics IRIX:

```
zcat < filename | lp -d PSprinter_queue
```

where *filename* is the full path name and extension of the compressed PostScript file and *PSprinter_queue* is the name of the PostScript printer queue.

For example, to print the English version of *DB2 for UNIX Quick Beginnings* on AIX, you can use the following command:

```
zcat /cdrom/doc/en/ps/db2ixe60.ps.Z || qprt -P ps1
```

Ordering the Printed Books

You can order the printed DB2 manuals either as a set or individually. There are three sets of books available. The form number for the entire set of DB2 books is SB0F-8926-00. The form number for the books listed under the heading "Cross-Platform Books" is SB0F-8924-00.

Note: These form numbers only apply if you are ordering books that are printed in the English language in North America.

You can also order books individually by the form number listed in "DB2 Information – Hardcopy and Online" on page 698. To order printed versions, contact your IBM authorized dealer or marketing representative, or phone 1-800-879-2755 in the United States or 1-800-IBM-4YOU in Canada.

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C Set++	SP
C/370	SQL/DS
DATABASE 2	SQL/400
DataHub	S/370
DataJoiner	System/370
DataPropagator	System/390
DataRefresher	SystemView
DB2	VisualAge
DB2 Connect	VM/ESA
DB2 Universal Database	VSE/ESA
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IMS	
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Contacting IBM

This section lists ways you can get more information from IBM.

If you have a technical problem, please take the time to review and carry out the actions suggested by the *Troubleshooting Guide* before contacting DB2 Customer Support. Depending on the nature of your problem or concern, this guide will suggest information you can gather to help us to serve you better.

For information or to order any of the DB2 Universal Database products contact an IBM representative at a local branch office or contact any authorized IBM software remarketer.

Telephone

If you live in the U.S.A., call one of the following numbers:

- 1-800-237-5511 to learn about available service options.
- 1-800-IBM-CALL (1-800-426-2255) or 1-800-3IBM-OS2 (1-800-342-6672) to order products or get general information.
- 1-800-879-2755 to order publications.

For information on how to contact IBM outside of the United States, see Appendix A of the IBM Software Support Handbook. You can access this document by accessing the following page:

<http://www.ibm.com/support/>

then performing a search using the keyword “handbook”.

Note that in some countries, IBM-authorized dealers should contact their dealer support structure instead of the IBM Support Center.

World Wide Web

<http://www.software.ibm.com/data/>

<http://www.software.ibm.com/data/db2/library/>

The DB2 World Wide Web pages provide current DB2 information about news, product descriptions, education schedules, and more. The DB2 Product and Service Technical Library provides access to frequently asked questions, fixes, books, and up-to-date DB2 technical information. (Note that this information may be in English only.)

Anonymous FTP Sites

<ftp.software.ibm.com>

Log on as anonymous. In the directory /ps/products/db2, you can find demos, fixes, information, and tools concerning DB2 and many related products.

Internet Newsgroups

comp.databases.ibm-db2, bit.listserv.db2-l

These newsgroups are available for users to discuss their experiences with DB2 products.

CompuServe

GO IBMDB2 to access the IBM DB2 Family forums

All DB2 products are supported through these forums.

To find out about the IBM Professional Certification Program for DB2 Universal Database, go to http://www.software.ibm.com/data/db2/db2tech/db2cert.html



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