Version 4 Release 5

IBM DB2 Table Editor for z/OS User's Guide

SC27-8804-00

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Note:
Before using this information and the product it supports, read the "Notices" topic at the end of this information.

First Edition (May 2016)

This edition applies to Version 4 Release 5 of IBM DB2 Table Editor for z/OS (product number 5697-G65) and to all subsequent releases and modifications until otherwise indicated in new editions.

Contents

About this information

IBM DB2 Table Editor for z/OS (also referred to as DB2 Table Editor) is a product that makes it easy to view and modify your DB2® table data.

These topics are designed to help database administrators, system programmers, application programmers, and system operators perform these tasks:

- Plan for the installation of DB2 Table Editor
- Install and operate DB2 Table Editor
- Customize the DB2 Table Editor environment
- Diagnose and recover from DB2 Table Editor problems

Always check the DB2 Tools Product Documentation page for the most current version of this information:

http://www.ibm.com/software/data/db2imstools/db2tools-library.html

Chapter 1. DB2 Table Editor overview

IBM DB2 Table Editor for z/OS (also referred to as DB2 Table Editor) is a product that makes it easy to view and modify your DB2 table data. The primary function of DB2 Table Editor is to modify data stored in DB2 for z/OS® databases.

What's new in DB2 Table Editor

This topic summarizes the technical changes for this edition.

New and changed information is indicated by a vertical bar (|) to the left of a change. Editorial changes that have no technical significance are not noted.

SC27-8804-00

Deprecation of Java™ Player (Java applet)/GUI component
The Java Player (Java applet)/GUI component is no longer supported in DB2 Table Editor V4.5. For more information about migration considerations, see "Set up your environment prior to customization" on page 8.

DB2 Table Editor V4.5 is not compatible with the GUI component software of any previous versions of DB2 Table Editor.
DB2 Table Editor V4.5 is not compatible with the GUI component software of any previous versions of DB2 Table Editor. You must remove the GUI component software of any previous versions of DB2 Table Editor from all workstations prior to running DB2 Table Editor V4.5. For more information about migration considerations, see "Set up your environment prior to customization" on page 8.

CM8 and CM9 no longer supported
DB2 Table Editor V4.5 requires that you are running DB2 V10 NFM or above. DB2 V10 CM8 and CM9 are no longer supported. For more information about software requirements, see "Software requirements for DB2 Table Editor" on page 9. For more information about migration considerations, see "Set up your environment prior to customization" on page 8.

Excluding rows with the XX block command prior to making CHANGE ALL edits
You can now use the XX block command to hide rows prior to using the CHANGE ALL command. For more information, see "Excluding rows prior to using the CHANGE ALL command" on page 85.

Retrieving and displaying data from a DB2 table
When you set the fetch limit to 0 to edit large amounts of data, DB2 Table Editor V4.5 now uses the default value. For more information about setting the fetch limit, see "Specifying user settings" on page 61.

Size limitation for editing XML data removed
DB2 Table Editor V4.5 removed the 1 MB size limitation for editing XML data. XML data can be edited as long as the user region size is large enough to load the data into the memory. For more information about editing XML data, see "Editing a row that contains XML data" on page 72.

Viewing history
You can now view all committed changes that have been made for a specified cell in a table. For more information, see "Viewing history" on page 79.

DB2 Table Editor terminology

DB2 Table Editor includes several unique terms that you should understand before you begin to use DB2 Table Editor.

Data Data is the smallest unit in a database, but the most important. Examples of data might be the names, addresses, phone numbers, and social security numbers for all of the employees of a company. All this data can be stored in a table.

Database
A database is a software application that stores sets of electronically organized information on a computer. It contains a collection of tables, which contain data. DB2 is a database product built by IBM®.

Forms A form is a vehicle through which you view and change table data.

Full-screen editor
A full-screen editor is a special form that presents data from the database as a grid or in a spreadsheet format. This type of form allows edits directly in the grid itself and includes the ability to insert and delete rows; sort columns; and find and replace values.

Join A join is a connection between two tables, using a field common to both tables. For example, there could be a table that contains personal information for all the employees of a company (employee numbers, names, addresses, and social security numbers for each employee). In the same database there could be another table containing employee numbers and department numbers. In order to avoid repeating the employee personal information in the table containing department numbers, there is a join from the employee number in the personal information table, to the employee number in the department table; this allows the information to be linked, but not repeated.

Primary Table
The primary table is the table that is designated by the form developer as the updatable table. For each form there is only one primary table, but there can be any number of secondary tables, which are usually related to the primary table by join conditions. Insert, update and delete buttons on a form operate only on the primary table and perform the appropriate database modifications for the action (insert, update and delete) using the current form values for all controls that are bound to a primary table column.

Tables A table in DB2 Table Editor refers to a table that is contained in a DB2 z/OS database. A DB2 z/OS database contains data that is organized into smaller collections, or tables.

DB2 Table Editor features and benefits

DB2 Table Editor quickly and easily accesses, updates, and deletes data for DB2 z/OS databases.

DB2 Table Editor offers several unique and significant features.

Quick and easy manipulation of data

DB2 Table Editor helps you make the best use of your time. It reduces staff training time; enhances database administrator (DBA) productivity; increases the ability to respond to workforce's need for high-performance business applications; and enables the IT team to institute proactive database maintenance.

DB2 Table Editor makes quick and easy work of navigating IBM DB2 databases, tables, and views; finding related data; and updating, deleting, or creating data with full support for your existing DB2 security and logon IDs.

Easy access to data

You can edit DB2 z/OS tables using the ISPF interface. This user interface allows users of all skill levels to interact with their database.

Administrators can browse database tables and views (even with no prior understanding of the database structure), or search-and-replace, filter data, and open tables that are related to selected data. Users at the front lines of your business, such as customer service personnel, can access your database through forms that contain business rules and command buttons that make it easy to call up data and quickly perform specific, important tasks with virtually no training. DB2 Table Editor offers all your users an environment that meets their needs. Employees who do not know SQL can perform inserts, updates and deletes, thus freeing up your SQL experts for more demanding tasks.

Control of data integrity

In today's competitive environment data integrity is more important than ever. Whether your concern is as basic as accurate customer records or as complex as running applications that depend on hundreds of interdependent tables, DB2 Table Editor makes preserving data integrity easy to accomplish, no matter the level of experience of your employees. With DB2 Table Editor, all of your knowledge workers, both novice and expert, can use this single, powerful tool, to manipulate your data while maintaining tight control over data editing privileges.

Database administration and change management solutions

IBM solutions help IT organizations maximize their investment in DB2 and IMS™ databases while staying on top of some of today's toughest IT challenges. Database administration and change management are the core responsibilities of the DBA. If not managed correctly, these tasks can monopolize data center resources, waste valuable time, and can result in the generation of unwanted errors.

IBM solutions can help you manage many of the tasks that are associated with database administration and the change management process, including:

- Navigating the DB2 catalog quickly and easily
- Ensuring that all of the necessary steps are completed when making a change
- Managing and tracking the changes to database object definitions
- Propagating changes to other database environments
- Managing corrupt databases
- Keeping software versions current

DB2 Table Editor is one of several DB2 and IMS tools that help you efficiently administer and manage your database while maintaining data integrity.

Other DB2 and IMS tools that can help you administer and manage your database are:

DB2 Tools for Linux, UNIX, and Windows

- DB2 Change Management Expert
- Optim™ Test Data Management

DB2 Tools for z/OS

- DB2 Administration Tool
- DB2 Object Comparison Tool
- DB2 Storage Management Utility
- DB2 Table Editor
- Optim Test Data Management

IMS Tools

- IMS Database Repair Facility
- IMS HALDB Conversion and Maintenance Aid
- IMS HD Compression- Extended
- IMS Library Integrity Utilities
- IMS Online Reorganization Facility
- IMS Parameter Manager
- IMS Sequential Randomizer Generator
- IMS Sysplex Manager
- IMS Tools Knowledge Base

Service updates and support information

Service updates and support information for this product, including software fix packs, PTFs, frequently asked questions (FAQs), technical notes, troubleshooting information, and downloads, are available from the web.

To find service updates and support information, see the following website:

http://www.ibm.com/support/entry/portal/Overview/Software/Information_Management/DB2_Tools_for_z~OS

Product documentation and updates

DB2 Tools information is available at multiple places on the web. You can receive updates to DB2 Tools information automatically by registering with the IBM My Notifications service.

Information on the web

The DB2 Tools Product Documentation web page provides current product documentation that you can view, print, and download. To locate publications with the most up-to-date information, refer to the following web page:

http://www.ibm.com/software/data/db2imstools/db2tools-library.html

You can also access documentation for many DB2 Tools from IBM Knowledge Center:

http://www.ibm.com/support/knowledgecenter

Search for a specific DB2 Tool product or browse the **Information Management** > **DB2 for z/OS family**.

IBM Redbooks® publications that cover DB2 Tools are available from the following web page:

http://www.redbooks.ibm.com

The Data Management Tools Solutions website shows how IBM solutions can help IT organizations maximize their investment in DB2 databases while staying ahead of today's top data management challenges:

http://www.ibm.com/software/data/db2imstools/solutions/index.html

Receiving documentation updates automatically

To automatically receive emails that notify you when new technote documents are released, when existing product documentation is updated, and when new product documentation is available, you can register with the IBM My Notifications service. You can customize the service so that you receive information about only those IBM products that you specify.

To register with the My Notifications service:

1. Go to http://www.ibm.com/support/mysupport
2. Enter your IBM ID and password, or create one by clicking **register now**.
3. When the My Notifications page is displayed, click **Subscribe** to select those products that you want to receive information updates about. The DB2 Tools option is located under **Software** > **Information Management**.
4. Click **Continue** to specify the types of updates that you want to receive.
5. Click **Submit** to save your profile.

How to send your comments

Your feedback is important in helping to provide the most accurate and high-quality information. If you have any comments about this book or any other IBM product documentation, use one of the following options:

- Use the online reader comment form, which is located at http://www.ibm.com/software/data/rcf/.
- Send your comments by email to comments@us.ibm.com. Include the name of the book, the part number of the book, the version of the product that you are using, and, if applicable, the specific location of the text you are commenting on, for example, a page number or table number.

Accessibility features

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use a software product successfully.

The major accessibility features in this product enable users to perform the following activities:

- Use assistive technologies such as screen readers and screen magnifier software. Consult the assistive technology documentation for specific information when using it to access z/OS interfaces.
- Customize display attributes such as color, contrast, and font size.
- Operate specific or equivalent features by using only the keyboard. Refer to the following publications for information about accessing ISPF interfaces:
  - *z/OS ISPF User's Guide, Volume 1*
  - *z/OS TSO/E Primer*
  - *z/OS TSO/E User's Guide*

  These guides describe how to use the ISPF interface, including the use of keyboard shortcuts or function keys (PF keys), include the default settings for the PF keys, and explain how to modify their functions.

Chapter 2. Preparing to customize DB2 Table Editor

Before you start to customize DB2 Table Editor for the first time, determine all of the customization values that you need to specify during the customization process, and familiarize yourself with all of the customization tasks.

The following checklist lists and describes each significant customization step. Use this checklist to guide you through the entire customization process.

Tip: Print the following checklist and the data set names and parameter values worksheets. Use the worksheets to record your values, and refer to them during the customization process.

Task	Link to detailed instructions	Status
Tools Customizer basics		
Before you begin the customization process, familiarize yourself with Tools Customizer terminology, data sets, and other basic information about Tools Customizer.	"Tools Customizer terminology" on page 173 and "Data sets that Tools Customizer uses during customization" on page 175 and	
Software requirements		
Verify that your environment meets the minimum software requirements. To install and use DB2 Table Editor, your environment must be running a supported version of the z/OS operating system and of DB2 for z/OS. Additionally, certain levels of maintenance must be applied.	"Verify that your environment meets hardware and software requirements" on page 9	
SMP/E installation		
Verify that DB2 Table Editor was installed correctly. DB2 Table Editor is installed by using standard SMP/E processing.	"Verify that DB2 Table Editor has been installed successfully" on page 9	
Verify that Tools Customizer for z/OS was installed correctly. Tools Customizer for z/OS is installed by using standard SMP/E processing.	"Verify that Tools Customizer for z/OS has been installed successfully" on page 9	
Security requirements		
Confirm that you have the required authorizations to use DB2 Table Editor.	"Verify that your environment meets security requirements" on page 9	
Gather data set names		
During the customization process, you must specify data set names for Tools Customizer, DB2 Table Editor, and several other items.	"Worksheets: Gathering required data set names" on page 10	
Gather parameter values		
During the customization process, you must specify parameter values for DB2 Table Editor, for DB2, and for your LPAR.	"Worksheets: Gathering parameter values for Tools Customizer" on page 16	
Customize DB2 Table Editor		
Start Tools Customizer by running a REXX EXEC from the ISPF Command Shell panel.	"Starting Tools Customizer" on page 28	

Task	Link to detailed instructions	Status
Set up Tools Customizer user settings. If you are running Tools Customizer for the first time, you must modify several user settings for your environment. Otherwise, if the user settings that you have already established are still appropriate, skip this step.	"Modifying Tools Customizer user settings" on page 29	
Complete the steps in the appropriate customization roadmap based on the type of customization that you are performing.		
Customizing DB2 Table Editor for the first time Follow this roadmap if you do not have a customized version of DB2 Table Editor, and you need to customize it for the first time.	"Roadmap: Customizing DB2 Table Editor for the first time" on page 35	
Customizing a different version of DB2 Table Editor Follow this roadmap if you previously customized a version of DB2 Table Editor and want to use the same parameter values to customize a different version.	"Roadmap: Customizing a new version of DB2 Table Editor from a previous customization" on page 36	
Recustomizing DB2 Table Editor Follow this roadmap if you already customized DB2 Table Editor but want to change one or more parameter values.	"Roadmap: Recustomizing DB2 Table Editor" on page 37	

Set up your environment prior to customization

Prior to beginning the customization process, ensure that your environment meets all requirements, that you have installed all prerequisite software, and that you have considered how you want to customize optional features.

Verify that you meet requirements for migration to DB2 Table Editor V4.5

Ensure that you successfully migrate to DB2 Table Editor V4.5 by reviewing the following migration considerations:

- Ensure that you remove the GUI component software of any previous versions of DB2 Table Editor. DB2 Table Editor V4.5 is not compatible with the GUI component software of any previous versions of DB2 Table Editor, so you must remove it from all workstations prior to running DB2 Table Editor V4.5.
- DB2 Table Editor V4.5 requires that you are running DB2 V10 NFM or above. DB2 V10 CM8 and CM9 are no longer supported. For more information about software requirements, see "Software requirements for DB2 Table Editor" on page 9.
- In DB2 Table Editor V4.5, no changes were made to the ETI DB2 Control data set, so you can use the control file from a previous version.
- The existing ETI_ACTIVITY_LOG table can be used with DB2 Table Editor V4.5. During TCz customization, you will have the option to use the existing log table or to create a new one.

Verify that your environment meets hardware and software requirements

Ensure that your environment meets hardware and software requirements by reviewing the following topic:

- "Software requirements for DB2 Table Editor"

Verify that DB2 Table Editor has been installed successfully

See the Program Directory for IBM DB2 Table Editor for z/OS, GI10-8401 for installation instructions.

Verify that Tools Customizer for z/OS has been installed successfully

Tools Customizer for z/OS is a component of IBM Tools Base for z/OS (5655-V93), which is available free of charge. Tools Customizer for z/OS provides a standard approach to customizing IBM DB2 for z/OS Tools.

See the Program Directory for IBM Tools Base for z/OS, GI10-8819 for installation instructions.

Verify that your environment meets security requirements

DB2 Table Editor requires no extra security measures outside of standard DB2 security. If a user does not have authority to view a table within a DB2 subsystem, DB2 Table Editor will not allow the user to see data changes made to that table. Similarly, undo and redo SQL that generated from the product can be run through products such as SPUFI or QMF™, and therefore also adheres to normal DB2 security for the user who runs this SQL.

You must have authorization to run the SELECT statement on the following tables:

- SYSIBM.SYSAUXRELS
- SYSIBM.SYSCOLUMNS
- SYSIBM.SYSCOPY
- SYSIBM.SYSFIELDS
- SYSIBM.SYSINDEXES
- SYSIBM.SYSKEYS
- SYSIBM.SYSKEYTARGETS
- SYSIBM.SYSTABLEPART
- SYSIBM.SYSTABLES
- SYSIBM.SYSTABLESPACE
- SYSIBM.SYSXMLRELS
- SYSIBM.SYSXMLSTRINGS

Software requirements for DB2 Table Editor

DB2 Table Editor supports the following versions of DB2:

- DB2 11 for z/OS until end of service
- DB2 10 for z/OS until end of service

DB2 Table Editor supports z/OS V1.13 and higher.

To integrate DB2 Table Editor with the DB2 Administration Tool Launchpad, you must first install and configure the DB2 Administration Tool Launchpad.

Licensing

The DB2 Table Editor license is enforced based on the platform to which IBM DB2 Table Editor is connecting (the platform where DB2 resides). You can access data on z/OS.

When working with DB2 Table Editor, the license allows you to install DB2 Table Editor on z/OS machines and to connect to other z/OS machines using Aliases.

For information about the licensing required to connect to other DB2 subsystems, contact your IBM representative.

Worksheets: Gathering required data set names

Identify and record the data set names that will be used during the customization process and make sure that requirements for certain data sets are met.

Data set names for Tools Customizer

Identify and record the following Tools Customizer data set names:

Data set name	Description	Special requirements
SCCQDENU	Metadata library for Tools Customizer	
SCCQLOAD	Executable load module library for Tools Customizer	
SCCQMENU	ISPF messages for Tools Customizer	
SCCQPENU	ISPF panels for Tools Customizer	
SCCQSAMP	Sample members for Tools Customizer	
SCCQTENU	Table library for Tools Customizer	You must have write access to this data set.

Customization reference

Refer to information about DB2 Table Editor parameters, dsnames, and templates during the customization process.

- "Customization jobs generated by Tools Customizer" on page 14
- "DB2 Table Editor customization parameters"

DB2 Table Editor customization parameters

The following table shows the parameters for DB2 Table Editor that you can specify by using Tools Customizer. These parameters are displayed on the Product Parameters panel.

Table 1. DB2 Table Editor customization parameters

Parameter name	Parameter description
Previous control file	The control file that was used with DB2 Table Editor. The name of the control file can be up to 46 characters in length and must not be enclosed in quotation marks.

Table 1. DB2 Table Editor customization parameters (continued)

Parameter name	Parameter description
Previous startup CLIST data set	The name of the library in which the startup CLIST for the previous version of DB2 Table Editor is stored. The name of the library can be up to 46 characters in length and must not be enclosed in quotation marks.
Previous startup CLIST member (ETI)	Specify the name of the startup CLIST member that was used for the previous version of DB2 Table Editor. The startup CLIST member is shipped as ETIV44, however it is possible that the name was changed.
DB2 Table Editor V4.5 HLQ	The library name for the current version of DB2 Table Editor. The name of the library can be up to 38 characters in length and must not be enclosed in quotation marks.
BIND package owner	The owner of the BIND packages for the current version of DB2 Table Editor. This value is used in the DB2 BIND job and can be up to 128 characters in length. This value is required. There is no default value.
DB2 Table Editor V4.5 CLIST library	The library for the ETIV45 and ETIV45B CLISTs. These CLISTs are used to invoke the ISPF interface for DB2 Table Editor V4.5. This value is required. The name of the library can be up to 46 characters in length and must not be enclosed in quotation marks. The default value is ETI.V450.SETISAMP.
DB2 Table Editor V4.5 startup CLIST 1	The name of the first DB2 Table Editor startup CLIST. This value is required. The name can be up to 8 characters in length. The default value is ETIV45. CLIST 1: • creates the application environment • executes CLIST 2.
DB2 Table Editor V4.5 startup CLIST 2	The name of the second DB2 Table Editor startup CLIST. This value is required. The name can be up to 8 characters in length. The default value is ETIV45C. When specifying a value for CLIST 2, ensure that you: • specify the location of the control file. • specify the locations of the libraries that are used at your site. • specify the high-level qualifier. Change the PROC 0 statement to match your installation's high-level qualifiers for the DB2 Table Editor libraries by replacing ETILEVEL with the high-level qualifier of the DB2 Table Editor libraries. • when the high-level qualifier substitution data set name is generated as *USERID.ETILEVEL.ISPTLIB*, ensure that it does not exceed 44 characters. If the name exceeds 44 characters, then you will have to manually update this CLIST.
Warn when excluding columns	Use this option to issue a warning when a column is excluded in an edit session. Valid values are NO and YES. The default value is NO. The CLIST parameter is WARNA.
Warn when locking a table	Use this option to issue a warning when a user attempts to lock a table. Valid values are NO and YES. The default value is NO. The CLIST parameter is WARNB.
Warn when accessing DB2 Subsystems	Use this option to issue a warning when a user attempts to access the DB2 Subsystems panel. Valid values are NO and YES. The default value is NO. The CLIST parameter is WARNC.

Table 1. DB2 Table Editor customization parameters (continued)

Parameter name	Parameter description
Lock in browse mode	Use this option to specify that tables can be locked while in browse mode. Valid values are YES and NO. The default value is YES. The CLIST parameter is LOCKBRSE.
Show locking options	Use this option to prevent the Lock Table option from being edited. Valid values are NO and YES. The default value is NO. The CLIST parameter is DISPLOCK.
DB2 Table Editor V4.5 control file	The name of the control file for the current version of DB2 Table Editor. If you have already fun the Discover EXEC this value is displayed here for your information. This value is required. The name of the library can be up to 46 characters in length and must not be enclosed in quotation marks. There is no default value.
Volume serial number for control file	The volume serial number for the VSAM control file. This value can be up to 6 characters in length and is used only when you are creating a new control file. To let SMS select the volume, leave this field blank. This value is optional. There is no default value.
DB2 Administration Tool HLQ	The high-level qualifier of the DB2 Administration Tool data sets. If the task is selected, this value is required. The high-level qualifier can be up to 38 characters in length. The default value is ADB.V110
ADBDMTI EXEC data set	The library that contains the ADBDMTI EXEC that adds DB2 Table Editor to the DB2 Tools Launchpad. The name of the library can be up to 46 characters in length and must not be enclosed in quotation marks.
DB2 execution libraries	The names of the data sets that comprise the current load library concatenation for DB2. The name of the library can be up to 46 characters in length and must not be enclosed in quotation marks. There is no default value.
BIND plan name	The BIND plan name for the current version of DB2 Table Editor. This value is required. The plan name can be up to 8 characters in length. The default value is ETI450P1.
BIND package name	The BIND package name to use for the current version of DB2 Table Editor. The package name can be up to 18 characters in length. This value is required. The default value is ETIV45PK.
ISPF link list library	The library name of the ISPF link list library. This value is optional. The name of the library can be up to 46 characters in length and must not be enclosed in quotation marks. There is no default value.
ISPF message library	The library name for the ISPF messages. This value is optional. The name of the library can be up to 46 characters in length and must not be enclosed in quotation marks. There is no default value.
ISPF table input library	The library name for the ISPF table data. This value is optional. The name of the library can be up to 46 characters in length and must not be enclosed in quotation marks. There is no default value.
ISPF skeleton library	The library name for the ISPF skeleton lib. This value is optional. The name of the library can be up to 46 characters in length and must not be enclosed in quotation marks. There is no default value.
DB2 subsystem ID description	A description for the DB subsystem. The value must be 72 characters or less.
Group attach name	The name of the group attach name.
Load library	The data set name of the DB2 load library.
Run library	The data set name of the DB2 run library.
Exit library	The data set name of the DB2 exit library

Table 1. DB2 Table Editor customization parameters (continued)

Parameter name	Parameter description
Plan name for the DSNTEP2 utility	The plan name for the DSNTEP2 utility. The value must be 8 characters or less.
User ID for GRANT statement	This parameter specifies the name of the user ID used in the GRANT EXECUTE statement for the DB2 Table Editor plan. This value is required. The default value is PUBLIC.
SET CURRENT SQLID	This parameter specifies the DB2 user ID that will be used to create the DB2 Table Editor objects. This value is required. The default value is DB2USER.
Database name	This parameter specifies the name of the database that contains the DB2 Table Editor repository table. This value is required. The default value is ETIV45DB.
Repository table schema	This parameter specifies the table creator for the DB2 Table Editor repository table. This value is also used as the BIND qualifier for some packages. This value is required. The default value is ETIV45TB.
Repository table space STOGROUP	This value is the storage group into which to create the DB2 Table Editor V4.5 table space. This value is required. The default value is SYSDEFLT.
Repository table space buffer pool	This parameter specifies the buffer pool that is used for creating the DB2 Table Editor V4.5 table space. This value is required. The default value is BP0.
Repository table space primary quantity	This parameter specifies the primary quantity in kilobytes to allocate to the table space. This value is required. Valid values are -1 or a value from 1 to 4194304. The default value is 4194304.
Repository table space secondary quantity	This parameter specifies the secondary quantity in kilobytes to allocate to the table space. This value is optional. If you do not specify a secondary quantity, DB2 uses a formula to determine a value. Valid values are -1 or value from 1 to 4194304. The default value is 4194304.
Repository index STOGROUP	This value is the storage group into which to create the DB2 Table Editor V4.5 index. This value is required. The default value is SYSDEFLT.
Repository index buffer pool	This parameter specifies the buffer pool that is used for creating the DB2 Table Editor V4.5 index. This value is required. The default value is BP0.
Repository index primary quantity	This parameter specifies the primary quantity in kilobytes to allocate to the index. This value is required. Valid values are -1 or a value from 1 to 2097152. The default value is 2097152.
Repository index secondary quantity	This parameter specifies the secondary quantity in kilobytes to allocate to the index. This value is optional. If you do not specify a secondary quantity, DB2 uses a formula to determine a value. Valid values are -1 or a value from 1 to 2097152. The default value is 2097152.
Enable user activity log	This parameter specifies whether or not to enable user activity logging. This value is required. Valid values are NO and YES. The default value is NO.
Existing log table schema	Specify the value of the table creator used to create the DB2 Table Editor V4.4 activity log table. This value is optional. There is no default value.

Customization jobs generated by Tools Customizer

Tools Customizer generates customization jobs based on the tasks and steps that you select.

The following table shows the relationship between the tasks and steps that you select, and the customization job that Tools Customizer generates.

Table 2. List of customization jobs that Tools Customizer can generate for DB2 Table Editor

Tasks	Steps	Template name	Template type	Member
Required: Configure EXECs	Required: Configure startup CLISTs	ETICLIST	perhlq	A0CLIST
Required: Bind plans and packages	Required: Bind plans and packages	ETIBIND	perdb2dsg	A5BINDAF
Required: Create control file	Required: Create control file	ETICCNTL	perhlq	A7CCNTL
Optional: Update control file This is required when you want to make changes to the existing control file (updating SSID information or enabling/ disabling logging activity). This is also required when you are upgrading from a previous version of DB2 Table Editor.	Required: Update control file	ETIUCNTL	jperdb2dsg	A8UCNTAF
Optional: Add DB2 Table Editor to the DB2 Admin Launchpad This is required only when you want to access DB2 Table Editor from the DB2 Administration Tool.	Required: Add DB2 Table Editor to the Launchpad	ETIADBI	perhlq	A9ADBI

Table 2. List of customization jobs that Tools Customizer can generate for DB2 Table Editor (continued)

Tasks	Steps	Template name	Template type	Member
Optional: Drop the repository objects required for DB2 Table Editor V4.5 before they are re-created.	Optional: Drop the repository objects first. This step drops the repository objects if you have previously customized DB2 Table Editor and want to re-create the objects.	ETIDROP	perdb2dsg	A1DROPAF
Required: Create the repository objects required for DB2 Table Editor V4.5.	Required: Create the repository objects required for DB2 Table Editor V4.5.	ETIDDL	perdb2dsg	A2DDLAF
Optional: Create the repository cleanup job for DB2 Table Editor V4.5. This job will be saved in the HLQ.SETISAMP data set, and only needs to be run when the log table needs maintenance.	Optional: Create the repository maintenance job required to manually prune the repository table.	ETIMAINT	perdb2dsg	A3MAINAF
Optional: Free the DB2 Table Editor V4.5 packages and plans before the bind job is run.	Optional: Free the product packages and plan before rerunning the product BIND job.	ETIFREE	perdb2dsg	A4FREEAF
Required: Grant execute on the plan for DB2 Table Editor V4.5.	Required: Grant users EXECUTE authority on the product plan.	ETIGRANT	perdb2dsg	A6GRANAF

Data type support

DB2 Table Editor supports many DB2 data types. DB2 Table Editor supports all DB2 data types except those listed.

DB2 data types that are not supported

- BLOB
- CLOB
- DBCLOB

- BINARY
- VARBINARY
- ROWID
- DISTINCT

Worksheets: Gathering parameter values for Tools Customizer

During the customization process, you must provide parameter values for DB2 Table Editor, for DB2, and for your LPAR.

Customization values for the Discover EXEC

Description

Use the following worksheet to identify and record the customization values for the Tools Customizer Discover EXEC. The values in this worksheet are for extracting information from a product that has already been customized. During the customization process, you will enter these values on panel CCQPDSC.

Note: Complete this worksheet only if you are recustomizing a product that has previously been customized by using Tools Customizer.

Parameter	Sample or default value	Your value
Discover EXEC for Extracting Information from an Already Customized product		
Discover EXEC library The fully qualified data set name that contains the product Discover EXEC.	The name of the Discover EXEC Library that you entered on the settings panel.	
Discover EXEC name The name of the Discover EXEC.	ETIDISC	
Discover output data set The name of the data set for the output from the product Discover EXEC.	The name of the discover output library that you entered on the settings panel.	
New ETI load library The load library name for the new release of DB2 Table Editor. For example, if this release is V4.5, the library name might be ETI.SETILOAD or ETI.LOADLIB (using a generic load library name) or ETI.V450.SETILOAD or ETI.V450.LOADLIB (using a release specific library name).	ETI.V450.SETILOAD	
Information for Discover EXEC section		

Parameter	Sample or default value	Your value
New ETI ISPM library The message library name for the new release of DB2 Table Editor. For example, if this release is V4.5, the library name might be ETI.SETIMENU or ETI.ISPMLIB (using a generic message library name); or ETI.V450.SETIMENU or ETI.V450.ISPMLIB (using a release specific library name).	ETI.V450.SETIMENU	
Discover from previous ETI control file ETI control file name to discover from.	ETI.V450.DB2.CONTROL	
Discover from previous ETI CLIST library ETI CLIST library to discover from.	ETI.V450.SETISAMP	
Discover from previous ETI SAMPLIB library ETI SAMPLIB library to discover from.	ETI.V450.SETISAMP	

Product to Customize section

Description

The parameters that are listed in the Product to Customize section are read-only. They contain information that was provided on other panels, by Tools Customizer, or by the DB2 Table Editor metadata data set.

Parameter	Discovered?	Source of this value
Product metadata library This value is the library that you specified on the Specify the Product to Customize panel. This field is scrollable. Place your cursor anywhere on the field and press PF11 to view its full contents.	No	This value is specified on the Specify the Product to Customize panel (CCQPHLQ)
LPAR The **LPAR** field displays the LPAR on which you are customizing DB2 Table Editor.	No	This value is supplied by Tools Customizer.
Product name This value displays the product that is being customized. In this example, IBM DB2 Table Editor should be displayed in this field. This field is scrollable. Place your cursor anywhere on the field and press PF11 to view its full contents.	No	This value is provided by the product metadata file.
Version The **Version** field displays the version, release and maintenance of the product you are customizing in the format V*n*.R*n*.*nn*.	No	This value is provided by the product metadata file.
Product customization library This value displays the name of the data set in which the generated library customization jobs will be stored.	No	This value is derived from the user-specified customization library qualifier on the Tools Customizer Settings panel (CCQPSET).

Required parameters section

Description

The parameters in this task are required for all customizations. During the customization process, you will enter these values on panel CCQPPRD.

Parameter	Required?	Discovered?	Default value	Your value
Control file The name of the control file that will be used for this installation or release of DB2 Table Editor. The control file contains configuration information for each DB2 subsystem against which the product can run.	Yes	No	ETI.DB2.CONTROL	
CLIST for ETI The CLIST library name for DB2 Table Editor.	Yes	No	ETI.V450.SETISAMP	
DB2 Table Editor HLQ This parameter specifies the high level qualifier of the product data sets.	Yes	No	ETI.V450	
DB2 Table Editor startup CLIST 1 This parameter specifies the name of the first of two DB2 Table Editor startup CLISTs. This CLIST sets up the application environment, and then calls the second CLIST.	Yes	No	ETIV45	
DB2 Table Editor startup CLIST 2 This parameter specifies the name of the second of two DB2 Table Editor startup CLISTs. This second CLIST invokes the product with specific parameters.	Yes	No	ETIV45C	
Warn when excluding columns This parameter specifies to issue a warning when a column is excluded in an edit session. Valid values are NO and YES.	Yes	Yes	NO	
Warn when locking a table This parameter specifies to issue a warning when an attempt to exclusively lock a table is made. Valid values are NO and YES.	Yes	Yes	NO	
Warn when entering DB2 Subsystems This parameter specifies to issue a warning when an attempt is made to enter the DB2 Subsystems panel. Valid values are NO and YES.	Yes	Yes	NO	
Lock in browse mode This parameter specifies to allow tables to be locked while in browse mode. Valid values are YES and NO.	Yes	Yes	NO	
Show locking options This parameter specifies to prevent the Lock Table option from being displayed. Valid values are YES and NO.	Yes	Yes	YES	

Task: ETI control file

Description

This task creates the control file if it does not exist or if you are creating a new control file for a new release. The control file contains specific information about each DB2 subsystem where DB2 Table Editor might run. During the customization process, you will enter these values on panel CCQPPRD.

This task is *required / optional*.

Jobs generated

This task generates the A7CCNTL job. This job is based on the ETICCNTL template.

Required authority

TBD

Step or parameter	Required?	Discovered?	Default value	Your value
ETI control file creation This step creates the control file if it does not exist or if you are creating a new control file for a new release. The control file contains specific information about each DB2 subsystem where DB2 Table Editor might run.	No	TBD	Selected	
Volume serial number for the control file The volume serial number (VOLSER) to be used for the control file creation. May be left as blanks for SMS shops.	No	No	blank	

Task: ETI repository objects creation DDL

Description

This task creates the objects that are required to use activity log and table profile functions on a DB2 subsystem only if those objects were not previously created in this installation or a previous installation. During the customization process, you will enter these values on panel CCQPDB2.

This task is *required / optional*.

Jobs generated

This task generates the A2DDL*nn* job. This job is based on the ETIPROF1 template.

Required authority

The user ID that runs the A2DDL*nn* job must have ETIDDL authority.

Step or parameter	Required?	Discovered?	Default value	Your value
ETI repository objects creation DDL This step creates the objects that are required for activity log and table profile functions on a DB2 subsystem only if those objects were not previously created in this installation or a previous installation.	No	-	Selected	
database name This parameter indicates the database name that is used to store DB2 Table Editor objects.	Yes	No	ETIV45DB	

Step or parameter	Required?	Discovered?	Default value	Your value
SET CURRENT SQLID This parameter specifies the DB2 user ID that will be used to create the DB2 Table Editor objects.	Yes	No	DB2USER	
Repository table schema This parameter specifies the table creator for the DB2 Table Editor repository table. This value is also used as the BIND qualifier for some packages.	Yes	No	ETIV45TB	
Repository table space STOGROUP This value is the storage group into which to create the DB2 Table Editor V4.5 table space.	Yes	No	SYSDEFLT	
Repository table space buffer pool This parameter specifies the buffer pool that is used for creating the DB2 Table Editor V4.5 table space.	Yes	No	BP0	
Repository table space primary quantity This parameter specifies the primary quantity in kilobytes to allocate to the table space. Valid values are -1 or value from 1 to 4194304.	Yes	No	4194304	
Repository table space secondary quantity This parameter specifies the secondary quantity in kilobytes to allocate to the table space. If you do not specify a secondary quantity, DB2 uses a formula to determine a value. Valid values are -1 or value from 1 to 4194304.	No	No	4194304	
Repository index STOGROUP This value is the storage group into which to create the DB2 Table Editor index.	Yes	No	SYSDEFLT	
Repository index buffer pool This parameter specifies the buffer pool that is used for creating the DB2 Table Editor index.	Yes	No	BP0	
Repository index primary quantity This parameter specifies the primary quantity in kilobytes to allocate to the index. Valid values are -1 or value from 1 to 2097152.	Yes	No	2097152	
Repository index secondary quantity This parameter specifies the secondary quantity in kilobytes to allocate to the index. If you do not specify a secondary quantity, DB2 uses a formula to determine a value. Valid values are -1 or value from 1 to 2097152.	No	No	2097152	
Existing log table schema Specify the value of the table creator used to create the DB2 Table Editor V4.4 activity log table.	No	No	No default value.	

Task: ETI bind SQL

Description

This task binds the ETI SQL. During the customization process, you will enter these values on panel CCQPDB2.

This task is *required / optional*.

Jobs generated

This task generates the A5BIND*nn* job. This job is based on the ETIBIND template.

Required authority

The user ID that runs the A5BIND*nn* job must have TBD authority.

Step or parameter	Required?	Discovered?	Default value	Your value
ETI bind This step binds the ETI SQL.	Yes	-	Selected	
BIND package owner This parameter indicates the user ID for the owner of the plan and packages. The user ID value is used during the bind on the OWNER(userid) parameter.	Yes	Yes	ETIUSER	
BIND package name This parameter indicates the collection name to be used within the DB2 Table Editor bind.	Yes	Yes	ETIV45PK	
Repository table schema This parameter specifies the table creator for the DB2 Table Editor repository table. This value is also used as the BIND qualifier for some packages.	Yes	No	ETIV45TB	
Existing log table schema Specify the value of the table creator used to create the DB2 Table Editor V4.4 activity log table.	No	No	No default value.	
BIND plan name This parameter specifies the plan name (up to 8 characters) to use for DB2 Table Editor.	Yes	No	ETI450PL	

Task: Edit startup CLIST

Description

During the customization process, you will enter these values on panel CCQPPRD.

This task is *required / optional*.

Jobs generated

This task generates the A0CLIST job. This job is based on the ETICLIST template.

Required authority

The user ID that runs the A0CLIST job must have TBD authority.

Step or parameter	Required?	Discovered?	Default value	Your value
Edit startup CLIST This step edits the startup CLIST to provide proper dsnames for your site.	Yes	-	Selected	

Task: ETI configure DB2

Description

This task configures each DB2 subsystem within the control file.

This task is optional in the sense that you can either perform this task for all your DB2 subsystems (or any subset of them), or you can perform this same task using option #1 (DB2 Subsystems) from the DB2 Table Editor main menu to configure each DB2 subsystem individually, as needed. A DB2 subsystem must be configured using one of these methods before it can be used with DB2 Table Editor.

During the customization process, you will enter these values on panel CCQPDB2.

This task is *required / optional*.

Jobs generated

This task generates the A8UCNT*nn* job. This job is based on the ETIUCNTL template.

Required authority

The user ID that runs the A5LOAD*nn* job must have TBD authority.

Step or parameter	Required?	Discovered?	Default value	Your value
ETI configure DB2 This step configures each DB2 subsystem within the control file. It is optional in the sense that you can either perform this task here for all your DB2 subsystems (or any subset thereof), or you can perform this same task using option #1 (DB2 Subsystems) from the DB2 Table Editor main menu to configure each DB2 subsystem individually, as needed. A DB2 subsystem must be configured using one of these methods before it can be used within DB2 Table Editor.	No	-	Not selected	
BIND plan name This parameter specifies the plan name (up to 8 characters) to use for DB2 Table Editor.	Yes	No	ETI450PL	
Enable user activity log This parameter specifies to enable user activity logging. Valid values are NO and YES.	Yes	No	NO	
DB2 subsystem ID description A description for the DB2 subsystem. This value must be 72 characters or less.	No	No	No default value.	
Load library The data set name of the DB2 load library.	Yes	Yes	No default value.	

Step or parameter	Required?	Discovered?	Default value	Your value
Run library The data set name of the DB2 run library.	Yes	No	No default value.	
Exit library The data set name of the DB2 exit library.	Yes	No	No default value.	

Task: Launchpad

Description

This task adds DB2 Table Editor to the DB2 Administration Tool Launchpad. During the customization process, you will enter these values on panel CCQPPRD.

This task is *required / optional*.

Jobs generated

This task generates the A9ADBI job, which is based on the ETIADBI template.

Required authority

The user ID that runs the A9ADBI job must have TBD authority.

Step or parameter	Required?	Discovered?	Default value	Your value
Launchpad Modifies the REXX EXEC to add DB2 Table Editor to the DB2 Administration Tool Launchpad.	No	-	Not selected	
DB2 Administration Tool HLQ This parameter specifies the high-level qualifier of the DB2 Administration Tool data sets. If the task is selected, this value is required.	Yes	No	ADB.V110	
ADBDMTI EXEC data set This parameter specifies the library that contains the ADBDMTI EXEC that, when executed, adds DB2 Table Editor to the DB2 Administration Launchpad. If the task is selected, this value is required. If the data set name is longer than 42 characters it must be enclosed in quotation marks.	Yes	No	ADB.SADBEXEC	

DB2 Parameters section

Description

This section contains DB2 parameters. All parameters are required. During the customization process, you will enter these values on panel CCQPDB2.

Parameter	Required?	Discovered?	Default value	Your value
Mode This parameter indicates the mode in which the DB2 subsystem is running. The following values are valid: • CM is compatibility mode on all listed DB2 versions except DB2 10. • NFM is new-function mode on all listed DB2 versions.	Yes	No	NFM	
Level number This parameter indicates the version, release, and modification level of the DB2 subsystem. The following values are valid: • 101 is valid only for NFM. • 111 is valid only for CM or NFM. • 121 is valid only for CM and NFM.	Yes	No	blank	
Load library This parameter indicates the data set name of the DB2 load library.	Yes	Yes	DSN. SDSNLOAD	
Run library This parameter indicates the data set name of the DB2 run library.	Yes	Yes	DSN.RUNLIB. LOAD	
Exit library This parameter indicates the data set name of the DB2 exit library.	Yes	Yes	DSN.SDSNEXIT	
Repository table space buffer pool/Repository index buffer pool This parameter indicates the name of the 4 KB bufferpool to be used for customization. The value must be 8 characters or less.	Yes	No	BP0	
Plan name for the DSNTEP2 utility This parameter indicates the plan name for the DSNTEP2 utility. The value must be 8 characters or less.	Yes	No	DSNTEP2	
Repository table space STOGROUP This value is the storage group into which to create the DB2 Table Editor V4.5 table space.	Yes	No	SYSDEFLT	
Repository index STOGROUP This value is the storage group into which to create the DB2 Table Editor index.	Yes	No	SYSDEFLT	
BIND plan name This parameter indicates the plan name to be used on the DB2 Table Editor bind.	Yes	Yes	ETI450PL	

LPAR Parameters section

Description

This section contains LPAR parameters. All parameters are required. During the customization process, you will enter these values on panel CCQPLPR.

Parameter	Required?	Discovered?	Default value	Your value
Message library The data set name of the ISPF message library.	Yes	No		
Panel library The data set name of the ISPF panel library.	Yes	No		
Skeleton library The data set name of the ISPF skeleton library.	Yes	No		
ISPF table input library The data set name of the ISPF table input library.	Yes	No		

Customizing DB2 Table Editor

In order to use DB2 Table Editor, you must first install the SMP/E installation package. After you have installed it, you must customize.

To install DB2 Table Editor, complete the installation instructions that are found in the program directory. In order to install DB2 Table Editor, you must have DBADM authority.

Customization summary

After you install DB2 Table Editor, you must use Tools Customizer to customize DB2 Table Editor.

Tools Customizer overview

IBM Tools Customizer for z/OS (also referred to as Tools Customizer) standardizes many of the customization processes that are required to customize IBM Tools that run on z/OS. Tools Customizer is a component of IBM Tools Base for z/OS.

Tools Customizer provides a consistent ISPF interface to ensure that the customization process is the same for all IBM Tools products and solution pack components. It also provides the ability to "discover" parameter values from products or solution pack components that you previously customized manually or by using Tools Customizer.

Features and benefits

Tools Customizer provides the following features:

- A single, consistent ISPF interface ensures that the customization process is the same for all IBM Tools products and solution pack components.
- A Discover EXEC discovers values for common product, LPAR, and DB2 parameters from a product or solution pack component that you previously customized manually or by using Tools Customizer. Each IBM Tools product and

solution pack component has a unique Discover EXEC. The discovered parameters are stored in the data store. If the product or solution pack component that you want to customize exists in the Tools Customizer data store, Tools Customizer issues a warning before it overwrites existing values. Use the Discover EXEC by issuing the DISCOVER command on the Customizer Workplace panel.

- The data store retains discovered and manually specified parameter values. Because the parameter information is persistently stored, you have to manually specify or discover parameter values only once. Tools Customizer uses these parameter values where they are applicable.
- A metadata repository contains the members that define the following customization attributes for products and solution pack components:
  - Parameters, tasks, and steps for the product or solution pack component to be customized. Some product or solution pack parameters, tasks, and steps are required.
  - LPAR parameters for the local LPAR. All of the LPAR parameters are required.
  - DB2 parameters for the DB2 subsystem, DB2 group attach name, or DB2 data sharing member on which you will customize the product or solution pack component. All of the DB2 parameters are required.
- Default values are provided for product parameters and solution pack component parameters, LPAR parameters, and DB2 parameters. The default values show examples of how to complete fields.

Advanced customization options

Use the **Lock in browse mode** and **Warn when locking a table** options to set table locking preferences.

In the CLIST or in Tools Customizer, set your preferences using these options:

Lock in browse mode
Specify `YES` for this option if you want the ability to lock a table while in browse mode. Specify `NO` to restrict the ability to lock a table from browse mode.

Warn when locking a table
Specify `YES` for this option if you want the **Lock Table** option (on the ETI$USET panel) to appear on the screen. If you do not want this option to appear, specify `NO`. Locking will default to share locks. If you want locking to default to no locks, specify `NON`. For exclusive locks (not recommended), specify `NOE`.

Adding TSO commands to Command Limiting table

If your site uses ACF2 to restrict TSO command use, you might need to add the TSO commands that DB2 Table Editor uses to the ACF2 Command Limiting table.

About this task

The TSO commands that DB2 Table Editor uses are: ETI$MAIN, ETIV45, ETIV45C, ETIADBI, ETIDB21T, and ADB21A.

Optional: Integrating DB2 Table Editor into DB2 Tools Launchpad

Optionally, you can integrate DB2 Table Editor into DB2 Tools Launchpad. Tools Customizer will create the necessary JCL, but you must manually complete some steps after you submit the customization job.

Before you begin

Before you complete these steps, ensure that the following prerequisites have been met:

- The DB2 Tools Launchpad is installed.
- Tools Customizer generated the job from the ETIADBI template, and you submitted the job.
- DB2 Admin is installed and that the ADBDMT member exists in the Admin Tool TLIB data set.
- You have write access to the Admin Tool TLIB data set.

About this task

The DB2 Tools Launchpad is a centralized panel from which you can launch integrated DB2 Tools. After you integrate DB2 Table Editor, you can launch DB2 Table Editor from the DB2 Tools Launchpad.

Procedure

1. Run the CLIST ETIADBI in SETISAMP. The CLIST uses the high-level qualifier that you specify for the DB2 Admin data sets and the name of the library that contains the ADBDMTI EXEC. The DB2 Tools Table – ADD An Entry panel is displayed, as shown in the following figure:

```
------------------ DB2 Tools Table - ADD An Entry ---------------------
 Command ===>

Library :

Tool Name : DB2 Table Editor
Code      : ETI       (User-defined code, for shortcut tool identifier)
Prog No.  : 5697-G65  (IBM program product number or equivalent)
Release   : 450       (Product release number)
Group     : 1         (Tool category, as follows:
                          1 - Administration Tools
                          2 - Application Management Tools
                          3 - Performance Management Tools
                          4 - Recovery and Replication Management)
Installed : YES        (Y - yes, N - no)

Command   : SELECT MODE(FSCR) CMD(EX 'ETI.IBMTAPE.SETISAMP(ETIV45)' 'SNAME(DMTSSID)')
```

Figure 1. Adding an entry to the DB2 Tools Launchpad panel

2. Press Enter to confirm the new DB2 Table Editor command.

Results

When the ETIADBI CLIST completes successfully, a new line, ETI, is added to the DB2 Tools Launchpad.

Optional: Integrating DB2 Table Editor into DB2 Administration Tool

Optionally, you can integrate DB2 Table Editor into DB2 Administration Tool (DB2 Admin).

Before you begin

Before you complete these steps, ensure that:

- DB2 Admin is installed and that the ADBDMT member exists in the Admin Tool TLIB data set
- You have write access to the Admin Tool TLIB data set

About this task

DB2 Admin helps you manage DB2 environments efficiently and effectively. After you have integrated DB2 Table Editor, you can run DB2 Table Editor operations by using DB2 Admin.

If you are using DB2 Admin Tool V11.1, then you can enable access to DB2 Table Editor from within Tools Customizer when customizing DB2 Admin Tool, and skip the following steps. If you are using DB2 Admin Tool v10.1 or older, then you must follow the steps below to enable access to DB2 Table Editor.

Procedure

1. Follow the instructions that are described in ETIDB21T in the SETISAMP library. You can customize these instructions by changing the name of the library which contains DB2 Admin commands tables and the name of the library which contains the ADBDMTI EXEC.
2. Run the ETIDB21T member that you have modified. This re-creates the DB2 Admin Tool command tables.

Results

When ETIDB21T complete successfully, you can start DB2 Table Editor interactively by using the DB2 Admin.

Starting and preparing Tools Customizer for use

Use the provided REXX EXEC to start Tools Customizer. The first time that you use Tools Customizer, you must modify the settings that Tools Customizer uses to customize DB2 Table Editor.

Starting Tools Customizer

Start Tools Customizer by running a REXX EXEC from the ISPF Command Shell panel.

Before you begin

Tools Customizer must be SMP/E installed. You must know the high-level qualifier of where the Tools Customizer libraries reside. The high-level qualifier is considered to be all the segments of the data set name except the lowest-level qualifier, which is SCCQEXEC.

About this task

To run the REXX EXEC, you must either change the placeholder in the EXEC for the high-level qualifier of the Tools Customizer EXEC library or pass the high-level qualifier as a parameter when you run the EXEC. The REXX EXEC is in the CCQTCZ member of the EXEC library.

Procedure

1. Optional: Change the placeholder for the high-level qualifier in the REXX EXEC:
   a. Find the EXEC library data set for Tools Customizer. The name of the data set is *high_level_qualifier*.SCCQEXEC.
   b. Edit data set member CCQTCZ and replace the `<TCZ HLQ>` string with the high-level qualifier of the EXEC library data set. For example, if the name of the Tools Customizer EXEC library is CCQTCZ.USABSAND.SCCQEXEC, replace `<TCZ HLQ>` with `CCQTCZ.USABSAND`.

   You have to change the placeholder for the high-level qualifier only once. When you run the REXX EXEC, you do not have to pass the high-level qualifier as a parameter.
2. Run the REXX EXEC (CCQTCZ):
   a. From the ISPF Primary Option Menu, select option `6`. The ISPF Command Shell panel is displayed.
   b. Specify the EX command to run the REXX EXEC. For example, if the Tools Customizer EXEC library is CCQTCZ.USABSAND.SCCQEXEC and you changed the placeholder for the high-level qualifier in the REXX EXEC, specify: `EX 'CCQTCZ.USABSAND.SCCQEXEC(CCQTCZ)'`

      If you did not change the placeholder for the high-level qualifier in the REXX EXEC, specify: `EX 'CCQTCZ.USABSAND.SCCQEXEC(CCQTCZ)' 'CCQTCZ.USABSAND'`

Results

The IBM Customizer Tools for z/OS main menu panel is displayed.

What to do next

If you are running Tools Customizer for the first time, you must modify the Tools Customizer user settings. If you have already set the Tools Customizer user settings, either customize or recustomize DB2 Table Editor.

Modifying Tools Customizer user settings

Before you can customize DB2 Table Editor with Tools Customizer, you must review the settings that Tools Customizer uses. You might have to change the default values to suit your environment. In most cases, you can change the Tools Customizer values at any time. For example, after you have customized DB2 Table Editor and are customizing a different product or solution pack, you might have to change the settings.

Procedure

1. On the IBM Tools Customizer for z/OS main panel (CCQPHME), specify option `0`, **User settings for Tools Customizer**. The Tools Customizer Settings panel (CCQPSET) is displayed, as shown in the following figure:

```
CCQPSET            Tools Customizer Settings               14:03:51
Command ===>
Enter the settings for customizing a product or press End to save and exit.

Commands: SAVE - Save user settings

Product Customization Settings
  Customization library qualifier . .DB2TOOL.PRODUCT.CUST
  Use DB2 group attach  . . . . . .YES (YES/NO)

Tools Customizer Library Settings
  Metadata library . . . . .DB2TOOL.CCQ110.SCCQDENU
  Discover output data set .DB2TOOL.CCQ110.DISCOVER
  Data store data set  . . .DB2TOOL.CCQ110.DATASTOR

User Job Card Settings for Customization Jobs
  ===> //         JOB
  ===>
  ===>
  ===>
  ===>
```

Figure 2. The Tools Customizer Settings panel (CCQPSET)

2. Review the values for the following required fields. Use the default value or specify your own value. You must have appropriate READ and WRITE access to the data sets that are specified.

   Customization library qualifier
   The high-level qualifier that is used as the prefix for the customization library. The customization library is a data set in which the generated jobs to customize DB2 Table Editor are stored. WRITE access to this qualifier is required.

   For each product to be customized, the first value that is specified for the qualifier is always used, even if you change it after you have generated the customization jobs. For example, if you customize a product and then specify a new qualifier for recustomization, although the new qualifier is saved and displayed, the original value is used.

   To maintain multiple instances of Tools Customizer, specify a unique customization library qualifier for each instance of Tools Customizer. Data set names that exceed 42 characters must be enclosed in single quotation marks (').

   Use DB2 group attach
   Determines the value that is used in the CONNECT statements in the generated customization jobs. Specify `YES` for data sharing environments, which causes the group attach name to be used. Specifying `NO`, in most cases, causes the SSID to be used in the DB2 CONNECT statement.

   Important: This field has no effect when you are customizing a product on a DB2 subsystem that is not a member of a data sharing group. In this case, the DB2 subsystem ID (SSID) is always used in the CONNECT statements in the generated customization jobs.

   When you are customizing a product on a DB2 subsystem that is a member of a data sharing group, how the DB2 subsystem is defined and the value of the **Use DB2 group attach** field determines the value that is used in the CONNECT statements in the generated jobs. The following table shows whether the SSID or the group attach name is used:

Table 3. The effect of the value of the **Use DB2 group attach** *field in a data sharing environment*

DB2 subsystem definition	Value of the Use DB2 group attach field	Value that is used in the CONNECT statements
The DB2 subsystem is defined with an SSID.	Yes	Group attach name
	No	SSID[1]
The DB2 subsystem is not defined with an SSID.	Yes or No	Group attach name

Note 1: If you generate jobs for multiple DB2 subsystems that are defined with an SSID and belong to the same data sharing group, the SSID of the first DB2 subsystem that is selected is used.

For example, assume that on the Customizer Workplace panel, you generated jobs for the following DB2 subsystems:

- V91C, which is a stand-alone DB2 subsystem
- V91A, which is a DB2 subsystem that is a member of data sharing group DSG1
- A DB2 subsystem that was not defined with an SSID that is a member of data sharing group DSGA

The following figure shows how these DB2 entries might be listed on the Customizer Workplace panel:

```
DB2 Entries, Associations, and Parameter Status
  Line commands: G - Generate jobs E - Edit B - Browse C - Copy R - Remove
  Cmd SSID GrpAttch Lvl Mode User ID Timestamp    Status
  --- ---- -------- --- ---- ------- ---------- ------------------------
  _   V91C  --      910 NFM  SYSADM  2010/11/09   Ready to Customize
  _   V91A DSG1     910 NFM  SYSADM  2010/11/09   Ready to Customize
  _    --  DSGA     910 NFM  SYSADM  2010/11/09   Ready to Customize
------------------------------ End of DB2 entries -----------------------
```

The following table shows which values are used in the CONNECT statements in the generated jobs, based on the value of the **Use DB2 group attach** field.

Table 4. Value that is used in the CONNECT statements in the generated jobs

SSID	GrpAttch	Value of the Use DB2 group attach field	Value that is used in the CONNECT statements
V91C	--	Yes	SSID
		No	SSID
V91A	DSG1	Yes	Group attach name
		No	SSID
--	DSGA	Yes	Group attach name
		No	Group attach name

Tools Customizer metadata library

The name of the data set that contains the metadata that is used to display the DB2 and LPAR parameters. The parameters that are displayed on the LPAR Parameters panel and the DB2 Parameters panel depend on the parameters that you define and the tasks and steps that you select on the Product Parameters panel for the product that you are

customizing. For example, the DB2 parameters that are required, based on the selected tasks and steps, are displayed on the DB2 Parameters panel, and you can edit them. If they are not required, they are not displayed. READ access to this data set is required. Data set names that exceed 42 characters must be enclosed in single quotation marks (').

Discover output data set
The name of the data set in which the output from the DB2 Table Editor Discover EXEC is stored. Each product has its own Discover EXEC. The Discover EXEC retrieves the product, LPAR, and DB2 parameters from a previously customized product. WRITE access to this data set is required. Data set names that exceed 42 characters must be enclosed in single quotation marks (').

Data store data set
The name of the data set where Tools Customizer stores information about product, LPAR, and DB2 parameter values. Information about which products are associated with which DB2 entries (DB2 subsystems, DB2 group attach names, and DB2 data sharing members) is also stored in this data set. Data set names that exceed 42 characters must be enclosed in single quotation marks ('). The specified data store data set can be used with only one invocation of Tools Customizer at a time. Data set names that exceed 42 characters must be enclosed in single quotation marks (').

User job card settings for customization jobs
The job card information to be inserted into the generated jobs for customizing a product. The default value is the job statement information from the ISPF Batch Selection panel.

The first line of the job card automatically begins with the following information:

```
//          JOB
```

where characters 3 - 10 are reserved by Tools Customizer for the job name and includes a blank space after JOB. This name cannot be edited. Information that you specify on the first line of the job card cannot exceed 57 characters. This character limit includes a continuation character. All other lines of the job card cannot exceed 72 characters.

3. Press End to save and exit. If the Discover output data set and the data store data set that you specified do not exist, Tools Customizer creates them.

   Important: If the ISPF sessions unexpectedly ends before you exit Tools Customizer, the fields on the Tools Customizer Settings panel (CCQPSET) will be repopulated with default values, and you will be required to review them or specify new values again.

Results

The values are saved, and the IBM Tools Customizer for z/OS main menu panel (CCQPHME) is displayed again.

What to do next

You are ready to customize or recustomize DB2 Table Editor or to change parameter settings.

DB2 Version Migration and Fallback

When a DB2 subsystem that is being used with DB2 Table Editor is migrated to a later version, or must be reverted to a prior version, follow the steps in this section.

Using the DB2 Table Editor ISPF interface after migration or fallback of a DB2 version

After migration or fallback of a DB2 version, follow these steps to use the DB2 Table Editor ISPF interface:

Procedure

1. Start Tools Customizer.
2. Run the **Discover** command to ensure that the Tools Customizer datastore is up to date.
3. For each DB2 subsystem that has been customized, complete the following tasks:
   a. On the Customizer Workplace panel, edit the DB2 entry.
   b. On the DB2 Parameters panel, change the Mode and Level number fields to the new DB2 mode and level. Change other DB2 specific fields, such as library name, as required. Save and exit the DB2 Parameters panel.
   a. On the Customizer Workplace panel, regenerate the customization jobs for the subsystem.
   b. Submit the SSID-specific update control file job.
   c. For DB2 migrations only, submit jobs to update the repository. Skip this step when falling back.
   d. For fallback only, submit the job to free previously bound plans and packages from the fallback subsystem.
   e. Submit the bind job.

Chapter 3. Customizing DB2 Table Editor

Using Tools Customizer to customize DB2 Table Editor consists of identifying the product to customize; defining any required DB2 Table Editor, LPAR, and DB2 parameters; generating the customization jobs; and submitting the jobs.

Customization roadmaps describe the steps that you must complete to customize DB2 Table Editor. Separate roadmaps are provided for the three most common types of customizations.

Use the following table to determine which roadmap corresponds to your environment.

Table 5. Customization roadmaps

Environment description	Roadmap
You do not have a customized version of DB2 Table Editor, and you need to customize it for the first time.	"Roadmap: Customizing DB2 Table Editor for the first time"
You have already customized a version of DB2 Table Editor, and you want to use the same parameter values to customize a different version.	"Roadmap: Customizing a new version of DB2 Table Editor from a previous customization" on page 36
You have a customized version of of DB2 Table Editor, but you want to change one or more parameter values.	"Roadmap: Recustomizing DB2 Table Editor" on page 37

Roadmap: Customizing DB2 Table Editor for the first time

This roadmap lists and describes the steps that are required to customize DB2 Table Editor for the first time.

Before you complete these steps, ensure that the following prerequisites have been met:

- All of the product customization steps that must be done before Tools Customizer is started are complete.
- The LPAR ISPF libraries that are required to submit the jobs are known.
- Tools Customizer is started.
- The Tools Customizer settings have been reviewed or modified, and saved.

Complete the steps in the following table to customize DB2 Table Editor for the first time.

Table 6. Steps for customizing DB2 Table Editor for the first time

Step	Description	Instructions
1	Specify the metadata library for the product that you want to customize.	"Specifying the metadata library for the product to customize" on page 38
2	Create new DB2 entries and associate them with DB2 Table Editor.	"Creating and associating DB2 entries" on page 41
3	Define the required parameters.	"Defining parameters" on page 43

Table 6. Steps for customizing DB2 Table Editor for the first time (continued)

Step	Description	Instructions
4	Generate the customization jobs for the product or for the DB2 entries on which DB2 Table Editor is ready to be customized.	"Generating customization jobs" on page 50
5	Submit the generated customization jobs.	"Submitting customization jobs" on page 51

The following table lists some of the common administrative tasks that you might need to do during the customization process.

Table 7. Administrative tasks

Description	Instructions
Browse the different types of parameters.	"Browsing parameters" on page 53
Copy an existing DB2 entry to the list of DB2 entries on which DB2 Table Editor can be customized.	"Copying DB2 entries" on page 53
Remove one or more DB2 entries from the associated list.	"Removing DB2 entries" on page 54
Delete one or more DB2 entries from the master list.	"Deleting DB2 entries" on page 55
Display a list of customization jobs that have been previously generated.	"Displaying customization jobs" on page 55
Maintain the customization jobs in the customization library.	"Maintaining customization jobs" on page 56

Roadmap: Customizing a new version of DB2 Table Editor from a previous customization

This roadmap lists and describes the steps for customizing a new version of DB2 Table Editor based on the existing customization values of a previous version of the same product.

Before you complete these steps, ensure that the following prerequisites have been met:

- All of the product customization steps that must be done before Tools Customizer is started are complete.
- Tools Customizer is started.
- The Tools Customizer settings have been reviewed or modified, and saved.

Complete the steps in the following table to customize a new version of DB2 Table Editor from a previous customization.

Table 8. Steps for customizing a new version of DB2 Table Editor from a previous customization

Step	Description	Instructions
1	Specify the metadata library for the product that you want to customize.	"Specifying the metadata library for the product to customize" on page 38

Table 8. Steps for customizing a new version of DB2 Table Editor from a previous customization (continued)

Step	Description	Instructions
2	Use the DB2 Table Editor Discover EXEC to discover information about the version of DB2 Table Editor that you previously customized manually.	"Discovering DB2 Table Editor information automatically" on page 40
3	Define the required parameters.	"Defining parameters" on page 43
4	Generate the customization jobs for the product or for the DB2 entries on which DB2 Table Editor is ready to be customized.	"Generating customization jobs" on page 50
5	Submit the generated customization jobs.	"Submitting customization jobs" on page 51

The following table lists some of the common administrative tasks that you might need to do during the customization process.

Table 9. Administrative tasks

Description	Instructions
Browse the different types of parameters.	"Browsing parameters" on page 53
Copy an existing DB2 entry to the list of DB2 entries on which DB2 Table Editor can be customized.	"Copying DB2 entries" on page 53
Remove one or more DB2 entries from the associated list.	"Removing DB2 entries" on page 54
Delete one or more DB2 entries from the master list.	"Deleting DB2 entries" on page 55
Display a list of customization jobs that have been previously generated.	"Displaying customization jobs" on page 55
Maintain the customization jobs in the customization library.	"Maintaining customization jobs" on page 56

Roadmap: Recustomizing DB2 Table Editor

This roadmap lists and describes the steps to change parameter values and regenerate customization jobs for DB2 Table Editor after you have customized it for the first time.

The new customization jobs will replace the customization jobs that were previously generated and stored in the customization library. Part of the recustomization process includes selecting or deselecting optional tasks or steps, changing the definitions of parameters that have already been defined, or both. Use the method in this roadmap instead of deleting customization jobs from the customization library.

Before you complete these steps, ensure that the following prerequisites have been met:

- All of the product customization steps that must be done before Tools Customizer is started are complete.
- Tools Customizer is started.

Complete the steps in the following table to recustomize DB2 Table Editor.

Table 10. Required steps for recustomizing DB2 Table Editor

Step	Description	Instructions
1	Specify the metadata library for the product that you want to recustomize.	"Specifying the metadata library for the product to customize"
2	Edit the specific tasks, steps, or parameters that need to be changed.	• "Defining DB2 Table Editor parameters" on page 43 • "Defining LPAR parameters" on page 46 • "Defining DB2 parameters" on page 48
3	Generate the customization jobs for the product or for the DB2 entries on which DB2 Table Editor is ready to be customized.	"Generating customization jobs" on page 50
4	Submit the new generated customization jobs.	"Submitting customization jobs" on page 51

The following table lists some of the common administrative tasks that you might need to do during the customization process.

Table 11. Administrative tasks

Description	Instructions
Browse the different types of parameters.	"Browsing parameters" on page 53
Copy an existing DB2 entry to the list of DB2 entries on which DB2 Table Editor can be customized.	"Copying DB2 entries" on page 53
Remove one or more DB2 entries from the associated list.	"Removing DB2 entries" on page 54
Delete one or more DB2 entries from the master list.	"Deleting DB2 entries" on page 55
Display a list of customization jobs that have been previously generated.	"Displaying customization jobs" on page 55
Maintain the customization jobs in the customization library.	"Maintaining customization jobs" on page 56

Specifying the metadata library for the product to customize

You must specify a metadata library for the product that you want to customize.

About this task

The metadata library contains the information that determines which tasks, steps, and parameters are required to customize DB2 Table Editor. This information controls what is displayed on the Product Parameters panel, the LPAR Parameters panel, and the DB2 Parameters panel.

After DB2 Table Editor has been SMP/E installed, the default name of the product metadata library is *high_level_qualifier*.SETIDENU, where *high_level_qualifier* is all of the segments of the data set name except the lowest-level qualifier.

Procedure

1. Specify option 1 on the Tools Customizer for z/OS panel. The Specify the Metadata Library panel is displayed. This panel contains a list of the metadata libraries that you specified most recently. If you are using Tools Customizer for the first time, this list is empty, as shown in the following figure:

```
CCQPHLQ                Specify the Metadata Library             13:09:50
 Command ===>                                                 Scroll ===> PAGE

 Type the name of the metadata library for the pack or the product in the
 Metadata library field, or select the library in the list of previous
 libraries and press Enter to populate the field. Press Enter to continue.

 The default name of the metadata library after the pack or product has been
 SMP/E installed is <hlq>.SxxxDENU, where <hlq> is the high-level qualifier for
 the pack or the product, and xxx is the 3-character prefix for the pack or
 the product.

 Metadata library . ETI.V450.SETIDENU

 Previously Used Metadata Library:

 =>
 =>
 =>
 =>
 =>
```

Figure 3. The Specify the Metadata Library panel

2. Use one of the following methods to specify the product metadata library:
   - Type the name of a fully qualified partitioned data set (PDS) or an extended partitioned data set (PDSE) in the **Metadata library** field. Double quotation marks (") cannot be used around the name. Single quotation marks (') can be used but are not required. If you are customizing DB2 Table Editor for the first time, you must use this method.
   - Place the cursor on the library name in the Recent Metadata Libraries list, and press Enter.

Results

If you are customizing DB2 Table Editor for the first time, the Run Discover EXEC panel is displayed. Otherwise, the Customizer Workplace panel is displayed.

What to do next

- Complete the steps that correspond to your environment:

  Customizing DB2 Table Editor for the first time
  Do not run the DB2 Table Editor Discover EXEC. Press End. The Customizer Workplace panel is displayed. If your environment requires associated DB2 entries, ensure that they are created and associated. If your environment does not require associated DB2 entries, skip this step, and edit DB2 Table Editor parameters.

  Customizing DB2 Table Editor from a previous or current customization
  Press Enter to run the DB2 Table Editor Discover EXEC. The Discover Customized Product Information panel is displayed. Specify the required information for running the EXEC.

Discovering DB2 Table Editor information automatically

You can use the DB2 Table Editor Discover EXEC to discover information from a previous or current customization of DB2 Table Editor.

About this task

Tip: Using the DB2 Table Editor Discover EXEC to discover information from a previous or current customization saves time and reduces errors that can occur when parameters are specified manually.

DB2 Table Editor provides the Discover EXEC that you will run. Therefore, the information that can be discovered depends on DB2 Table Editor.

Parameter values that are discovered and parameter values that are specified manually are saved in the data store. If parameter values for the product that you want to customize exist in the data store, Tools Customizer issues a warning before existing values are replaced.

Procedure

1. On the Customizer Workplace panel, issue the `DISCOVER` command. If you chose to run the DB2 Table Editor Discover EXEC on the pop-up panel after you specified the product to customize, skip this step.

   Tip: You can run any Tools Customizer primary command by using either of the following methods:
   - Place the cursor on the name of the primary command, and press Enter.
   - Type the primary command name in the command line, and press Enter.

   The Discover Customized Product Information panel is displayed, as shown in the following figure:

```
CCQPDSC             Discover Customized Product Information           14:11:22
Command ===>                                                  Scroll ===> PAGE

For the product you are customizing, the Discover EXEC retrieves product
information from an already customized product. Specify the required
information. To save your information and run the Discover EXEC, issue the RUN
command. To save your information and stay on this panel, issue the SAVE
command. To verify the syntax of your information without saving it, press
Enter. To save and exit, press  End.

Commands: RUN  SAVE
                                                                    More:     +
Discover EXEC for Extracting Information from an Already Customized Product
 Discover EXEC library  . . . ETI.V450.SETIDENU
 Discover EXEC name . . . . : ETIDISC
 Discover output data set . . CSJENN.ETITEST.DISCOVER

Information for Discover EXEC
 Previous control file . . . . . . . . . . . ETI.V440.CONTROL             >
 Previous startup CLIST data set . . . . . . DB2TOOL.ETI440.SETISAMP      >
 Previous startup CLIST member (ETI) . . . . ETIV44
```

Figure 4. The Discover Customized Product Information panel

2. Either accept the default values for the following input fields that Tools Customizer generates, or replace the default values with your own values:

Discover EXEC library
The fully qualified data set name that contains the DB2 Table Editor Discover EXEC.

Discover EXEC name
The name of the DB2 Table Editor Discover EXEC.

Discover output data set
The fully qualified data set where output from the DB2 Table Editor Discover EXEC is stored.

3. Either accept or change the default values in the **Information for Discover EXEC** fields. These fields are generated by DB2 Table Editor. They show the information that is required to run the DB2 Table Editor Discover EXEC.
4. Issue the `RUN` command to run the DB2 Table Editor Discover EXEC. Alternatively, save your information without running the DB2 Table Editor Discover EXEC by issuing the `SAVE` command. If you issue the `RUN` command to run the DB2 Table Editor Discover EXEC, the parameter information is discovered for DB2 Table Editor, and the Customizer Workplace panel is displayed.

Results

The discovered parameter values for DB2 Table Editor replace any existing values.

What to do next

The next step depends on your environment:

- If DB2 entries were not discovered, or if you need to customize DB2 Table Editor on new DB2 entries, create and associate the entries.
- If DB2 entries were discovered and you want to customize DB2 Table Editor on only these entries, define the parameters.

Related tasks:

"Creating and associating DB2 entries"
You can create new DB2 entries and associate them with DB2 Table Editor.

"Defining parameters" on page 43
To customize DB2 Table Editor, you must define DB2 Table Editor parameters, LPAR parameters, and DB2 parameters, if your customization requires DB2 entries.

Creating and associating DB2 entries

You can create new DB2 entries and associate them with DB2 Table Editor.

About this task

The list of associated DB2 entries is on the Customizer Workplace panel.

Procedure

1. Issue the `ASSOCIATE` command on the Customizer Workplace panel. The Associate DB2 Entry for Product panel is displayed, as shown in the following figure:

```
CCQPDAD                Associate DB2 Entry for Product              14:24:38
Command ===>                                                 Scroll ===> CSR

Select any of the following DB2 entries to add them to the Customizer
Workplace panel. You use the Customizer Workplace panel to choose the DB2
subsystems, data sharing members, and group attach names on which to
customize the product.

Commands:  CREATE - Create a new DB2 entry

DB2 Entries
  Line commands: A - Associate  C - Copy  D - Delete

Cmd SSID GrpAttch
------------------------------ End of DB2 entries -----------------------------
```

Figure 5. The Associate DB2 Entry for Product panel

2. Create DB2 entries. If you need to associate DB2 entries that are already in the master list, skip this step and go to step 3.
   a. Issue the CREATE command. The Create DB2 Entries panel is displayed, as shown in the following figure:

```
CCQPDCR         Create a DB2 Entry
 Command ===>

 Specify the SSID, the group attach name, or both in the appropriate columns
 for each new DB2 entry and press Enter. To create additional entries, issue
 the Inn line command, where nn is the number of entries to be inserted, and
 press Enter. To cancel, press End.

 New DB2 Entries
   Line commands: I - Insert into list   R - Remove from list
   Cmd  SSID  GrpAttch  Message

--------------------------- End of DB2 entries ----------------------------
```

Figure 6. The Create a DB2 Entry panel

   b. In the appropriate columns, specify a DB2 subsystem ID, DB2 group attach name, or DB2 data sharing member name for the DB2 entry that you want to create, and press Enter. Valid values are 1 - 4 characters. You can use symbolic characters. You cannot use blanks.

      Tips:

      - To insert multiple DB2 entries, specify the I*nn* line command, where *nn* is the number of DB2 entries to be inserted.
      - You will define specific parameters for these new DB2 entries on the DB2 Parameters panel. This panel is displayed after you select these new DB2 entries and issue the line command to generate the jobs, after you issue the primary command to generate the jobs for all associated DB2 entries, or when you manually edit the DB2 parameters.

      The Associate DB2 Entry for Product panel is displayed, and the new DB2 entry is displayed in the master list, as shown in the following figure:

```
CCQPDAD                Associate DB2 Entry for Product      DB2 entry created
Command ===>                                                 Scroll ===> CSR

Select any of the following DB2 entries to add them to the Customizer
Workplace panel. You use the Customizer Workplace panel to choose the DB2
subsystems, data sharing members, and group attach names on which to
customize the product.

Commands:  CREATE - Create new DB2 entries

DB2 Entries
  Line commands: A - Associate  C - Copy  D - Delete
  Cmd SSID GrpAttch
      DB02   --
------------------------------ End of DB2 entries -----------------------------
```

Figure 7. The Associate DB2 Entry for Product panel with a new DB2 entry in the master list

c. Repeat steps b and c for each DB2 entry that you want to create.
d. When you have created all the DB2 entries, associate them with DB2 Table Editor, or press End to display the Customizer Workplace panel.

3. Associate DB2 entries.
   a. Specify A against one or more DB2 entries in the master list, and press Enter to associate them with DB2 Table Editor.

Results

The Customizer Workplace panel is displayed with the associated DB2 entries displayed in the associated list.

What to do next

Define the parameters.

Related concepts:

"Tools Customizer terminology" on page 173
Tools Customizer uses several unique terms that you should be familiar with before you begin to use Tools Customizer.

Defining parameters

To customize DB2 Table Editor, you must define DB2 Table Editor parameters, LPAR parameters, and DB2 parameters, if your customization requires DB2 entries.

About this task

You must define the DB2 Table Editor parameters first for the following reasons:

- If you ran the DB2 Table Editor Discover EXEC, you must review the values that were discovered.
- If you select optional tasks and steps on the Product Parameters panel that affect the DB2 entry on which you will customize DB2 Table Editor, additional parameters might be displayed on the DB2 Parameters panel.
- If other steps must be completed in a specific sequence, customization notes on the Product Parameters panel will display the correct sequence.

Defining DB2 Table Editor parameters

DB2 Table Editor parameters are specific to DB2 Table Editor.

About this task

If you ran the DB2 Table Editor Discover EXEC, you must review the parameters that were discovered.

Procedure

1. Specify `E` next to the **Product parameters** field on the Customizer Workplace panel, and press Enter. The Product Parameters panel is displayed, as shown in the following figure. If other steps must be completed in a specific sequence before you define the DB2 Table Editor parameters, a note labeled **Important** will display the correct sequence on this panel.

```
CCQPPRD            Product Parameters: DB2 Table Editor              08:30:33
Command ===>                                                 Scroll ===> PAGE

Complete the following tasks to customize the products. The required tasks,
required steps within a required or selected task, and required parameters
are preceded by an asterisk (*). Ensure that values are specified for the
required parameters. Press End to save and exit.


Commands: SAVE  VERIFYOFF
Line Commands: / - Select

Product customization library  : TSNSB.TCZ.ETI.$RS22$.ETI450

Common parameters
 *DB2 Table Editor HLQ . . ETI.V450
 *Control file . . . . . . ETI.DB2.CONTROL

* Configure the product CLISTs

  * Configure the startup CLISTs
   *DB2 Table Editor CLIST library
      ETI.V450.SETISAMP
   *DB2 Table Editor startup CLIST 1 . . . . ETIV45
   *Warn when excluding columns  . . . . . . NO  (YES, NO)
   *Warn when exclusively locking  . . . . . NO  (YES, NO)
   *Warn when entering setup . . . . . . . . NO  (YES, NO)
   *Lock in browse mode  . . . . . . . . . . NO  (YES, NO)
   *Show locking options . . . . . . . . . . YES (YES, NO)
   *DB2 Table Editor startup CLIST 2 . . . . ETIV45C

* Create repository and BIND jobs

  / Drop the repository objects first

  / Create the repository objects

  / Create the repository maintenance job

  / Free packages and plan

  / Bind packages and plan

  / Grant EXECUTE authority

* Create and update the control file

  / Create control file
    Volume serial number for control file  .

  / Update the control file

/ Add product to the DB2 Admin Launchpad

  / Create the REXX to add product to launchpad
   *DB2 Administration Tool HLQ
      ADB.V110
   *ADBDMTI EXEC data set  ADB.SADBEXEC
```

Figure 8. The Product Parameters panel

2. Select any required tasks and steps, and specify values for any parameters. After you select a task or step with a slash (/), put the cursor in the selected field and press Enter. If tasks, steps, and parameters are required, they are preselected with a slash (/). Otherwise, they are not preselected.

   All of the required parameters have default values, which you can either accept or change.

   Tips:

- In the command line, specify the KEYS command, and map EXPAND to one of the function keys.
- For a detailed description of all input fields, put the cursor in the field, and press F1 or the key that is mapped to Help.
- The following elements apply to specific fields:
  - **Add...** is displayed when parameters can have multiple values but currently have only one value. To specify multiple values in these fields, place the cursor on **Add...**, and press Enter. Use the displayed panel to add or delete additional values.
  - **List...** is displayed when the complete list of valid values for the fields is too long to be displayed on the panel. To see the complete list of values, place the cursor on **List...**, and press F1 or the key that is mapped to Help.
  - **More...** is displayed when input fields contains multiple values. To see all of the values in the field, place the cursor on **More...**, and press Enter.

3. Optional: Select other tasks and steps with a slash (/) and press Enter to activate the input fields. Either accept or change the default values that are displayed.
4. Press End to save your changes and exit, or issue the `SAVE` command to save your changes and stay on the Product Parameters panel.

Results

The Customizer Workplace panel is displayed, and the status of the product parameters is Ready to Customize.

What to do next

If the status of other parameters on the Customizer Workplace panel is Incomplete or Discovered, edit these parameters.

Related tasks:

"Defining LPAR parameters"
LPAR parameters are parameters on the local LPAR that are required to customize DB2 Table Editor.

"Defining DB2 parameters" on page 48
DB2 parameters are parameters for a DB2 entry.

Defining LPAR parameters

LPAR parameters are parameters on the local LPAR that are required to customize DB2 Table Editor.

Procedure

1. Specify `E` next to the **LPAR parameters** field, and press Enter. The LPAR Parameters panel is displayed, as shown in the following figure:

```
CCQPLPR           LPAR Parameters: DB2 Table Editor                 08:30:07
Command ===>                                                 Scroll ===> PAGE

Ensure that values are specified for the required LPAR parameters. Press End
to save and exit.

Commands: SAVE  VERIFYOFF


ISPF Libraries - common
 *Message library  . . . . ISP.SISPMENU                                  Add
 *Panel library  . . . . . ISP.SISPPENU                                  Add
 *Skeleton library . . . . ISP.SISPSENU                                  Add
 *ISPF table input library ISP.SISPTENU                                  Add
```

Figure 9. The LPAR Parameters panel

2. Specify values for all required parameters that are displayed. Many parameters have default values, which you can either accept or change.

   Tips:

   - In the command line, specify the KEYS command, and map EXPAND to one of the function keys.
   - For a detailed description of all input fields, put the cursor in the field, and press F1 or the key that is mapped to Help.
   - The following elements apply to specific fields:
     - **Add...** is displayed when parameters can have multiple values but currently have only one value. To specify multiple values in these fields, place the cursor on **Add...**, and press Enter. Use the displayed panel to add or delete additional values.
     - **List...** is displayed when the complete list of valid values for the fields is too long to be displayed on the panel. To see the complete list of values, place the cursor on **List...**, and press F1 or the key that is mapped to Help.
     - **More...** is displayed when input fields contains multiple values. To see all of the values in the field, place the cursor on **More...**, and press Enter.

   The following LPAR parameters can contain 1 - 64 values:

   - LPAR macro library
   - Message library
   - Panel library
   - Skeleton library
   - ISPF table input library
   - ISPF user profile library
   - File tailoring output library
   - Link list library
   - Command procedures library
   - Macro library
   - Link-edit library
   - Load library
   - Started task library name

3. Press End to save your changes and exit, or issue the SAVE command to save your changes and stay on the same panel.

Results

The Customizer Workplace panel is displayed, and the status of the LPAR parameters is Ready to Customize.

What to do next

If the status of other parameters on the Customizer Workplace panel is Incomplete or Discovered, edit these parameters.

Related tasks:

"Defining DB2 Table Editor parameters" on page 43
DB2 Table Editor parameters are specific to DB2 Table Editor.

"Defining DB2 parameters"
DB2 parameters are parameters for a DB2 entry.

Defining DB2 parameters

DB2 parameters are parameters for a DB2 entry.

About this task

If you did not run the DB2 Table Editor Discover EXEC, you must create and associate one or more DB2 entries before you can define the DB2 parameters. For more information, see "Creating and associating DB2 entries" on page 41.

Procedure

1. Specify `E` next to one or more DB2 entries in the associated list, which is in the Associated DB2 Entries and Parameter Status section on the Customizer Workplace panel, and press Enter. The DB2 Parameters panel is displayed, as shown in the following figure:

```
CCQPDB2           DB2 Parameters: DB2 Table Editor                  08:31:45
Command ===>                                                 Scroll ===> PAGE

Ensure that values are specified for the required DB2 parameters. Press End
to save and exit.

Commands: SAVE  VERIFYOFF

 DB2 subsystem ID  . . . . . . . . . . . . : TTTT
 DB2 subsystem ID description

 Group attach name . . . . . . . . . . . .

General DB2 Information - common
 *Mode . . . . . . . . . . . . . . . . . . NFM (CM, NFM)
 *Level number . . . . . . . . . . . . . .     (101, 111, 121)

DB2 Libraries - common
 *Load library . . . . . . DB1D.SDSNEXIT                              Add
 *Run library  . . . . . . DSN.RUNLIB.LOAD                            Add
 *Exit library . . . . . . DSN.SDSNEXIT                               Add

DB2 Utilities - common
  SYSAFF for DB2 utilities . . . . . . . . .
 *Plan name for the DSNTEP2 utility  . . . . DSNTEP2

DB2 Table Editor for z/OS DB2 Parameters
 *BIND plan name . . . . . . . . . . . . . . ETI450PL
 *BIND package name  . . . . . . . . . . . . ETIV45PK
 *BIND package owner . . . . . . . . . . . . ETIUSER                   >
 *User ID for GRANT statement  . . . . . . . PUBLIC
 *SET CURRENT SQLID  . . . . . . . . . . . . DB2USER
 *Database name  . . . . . . . . . . . . . . ETIV45DB
 *Repository table schema  . . . . . . . . . ETIV45TB                  >
 *Repository table space STOGROUP  . . . . . SYSDEFLT                  >
 *Repository table space buffer pool . . . . BP0
 *Repository table space primary quantity  . 4194304
  Repository table space secondary quantity  4194304
 *Repository index STOGROUP  . . . . . . . . SYSDEFLT                  >
 *Repository index buffer pool . . . . . . . BP0
 *Repository index primary quantity  . . . . 2097152
  Repository index secondary quantity  . . . 2097152
 *Enable user activity log . . . . . . . . . NO  (YES, NO)
  Existing log table schema  . . . . . . . .
```

Figure 10. The DB2 Parameters panel

2. Specify values for all parameters that are displayed.

   Tips:

   - In the command line, specify the KEYS command, and map EXPAND to one of the function keys.
   - For a detailed description of all input fields, put the cursor in the field, and press F1 or the key that is mapped to Help.
   - The following elements apply to specific fields:
     - **Add...** is displayed when parameters can have multiple values but currently have only one value. To specify multiple values in these fields, place the cursor on **Add...**, and press Enter. Use the displayed panel to add or delete additional values.
     - **List...** is displayed when the complete list of valid values for the fields is too long to be displayed on the panel. To see the complete list of values, place the cursor on **List...**, and press F1 or the key that is mapped to Help.
     - **More...** is displayed when input fields contains multiple values. To see all of the values in the field, place the cursor on **More...**, and press Enter.

   Many parameters have default values, which you can either accept or change.

3. Press End to save your changes and exit, or issue the SAVE command to save your changes and stay on the same panel.

Results

The status of the DB2 entries that you selected on the Customizer Workplace panel is Ready to Customize.

What to do next

If the status of other parameters on the Customizer Workplace panel is Incomplete or Discovered, edit these parameters.

Related tasks:

"Defining DB2 Table Editor parameters" on page 43
DB2 Table Editor parameters are specific to DB2 Table Editor.

"Defining LPAR parameters" on page 46
LPAR parameters are parameters on the local LPAR that are required to customize DB2 Table Editor.

Generating customization jobs

To generate customization jobs for DB2 Table Editor and any associated DB2 entries, issue the GENERATEALL command, or select one or more DB2 entries on which to customize DB2 Table Editor.

Procedure

Generate the customization jobs by using one of the following methods.

- If you want to generate customization jobs at the product level and for any associated DB2 entries, issue the GENERATEALL command, and press Enter.
- If you want to generate customization jobs for specific DB2 entries, select the DB2 entries by specifying the G line command against them, and press Enter. The available DB2 entries are in the associated list in the Associated DB2 Entries and Parameter Status section.

Important: Regenerating customization jobs will replace any existing jobs, including jobs that you might have manually modified after they were generated.

Results

If the status is Incomplete or Discovered for DB2 Table Editor parameters, LPAR parameters, or DB2 parameters, Tools Customizer automatically starts an editing session for the types of parameters that are required. The session continues until the panel for each type of required parameter has been displayed.

What to do next

If an automatic editing session is started, accept the displayed parameter values or define values for the required types of parameters, select optional parameters, tasks, or steps for your environment, and save the parameter values. Otherwise, the customization jobs are generated, and you can submit them.

Tip: If the customization jobs are generated, but you are not ready to submit them, you can see them later by issuing the JOBLIST command on the Customizer

Workplace panel. The JOBLIST command displays the Finish Product Customization panel, which you can use to submit the jobs.

Submitting customization jobs

Submit the customization jobs to customize DB2 Table Editor.

Before you begin

Ensure that the correct jobs are generated.

About this task

The following figure shows part of the Finish Product Customization panel. The table on this panel shows the customization jobs that are generated by Tools Customizer. They are grouped by job sequence number.

```
CCQPCST                  Finish Product Customization         Row 1 to 9 of 9
Command ===>                                                 Scroll ===> CSR

Submit the members in the order in which they apply to all DB2 entries. To
submit the job, browse the member and issue the TSO SUBMIT command, or browse
the customized library and submit the jobs from there.

Product to Customize
  Product metadata library : ETI.V450.SETIDENU        > LPAR  . . : RS25
  Product name . . . . . . : IBM DB2 Table Editor for z  > Version . : 4.5.0

Line Commands: E - Edit  B - Browse

   Product customization library . : CSJENN.ETI.TEST.$RS25$.ETI450           >

 Cmd Member   SSID GrpAttch Template Date       Description
 -   -------- ---- ----     -------- ---------- ------------------------------>
     A0V45     --   --      ETIV45   2012/04/17 Configure startup CLIST 1
     A1V45B    --   --      ETIV45B  2012/04/17 Configure startup CLIST 2
     A2#BINAA DA1A  --      ETI#BIND 2012/04/17 DB2 bind jobs
     A2#BINAB D91A  --      ETI#BIND 2012/04/17 DB2 bind jobs
     A3CNTFL   --   --      ETICNTFL 2012/04/17 Create Control File
     A4CF2UAA DA1A  --      ETICF2UP 2012/04/17 Update ETI control file
     A4CF2UAB D91A  --      ETICF2UP 2012/04/17 Update ETI control file
     A5ADBI    --   --      ETIADBI  2012/04/17 Add to DB2 Admin Launchpad: cre
     A6ADBI2   --   --      ETIADBI2 2012/04/17 Add to Admin Tool Launchpad: ex
--------------------------- End of customized jobs ----------------------------
```

Figure 11. The Finish Product Customization panel

The member-naming conventions depend on whether the customization jobs are for DB2 entries, and LPAR, or the product.

Customization jobs for DB2 entries

The members use the following naming convention:

<job_sequence_number><job_ID><DB2_entry_ID>

where

job_sequence_number

Two alphanumeric characters, A0 - Z9, that Tools Customizer assigns to a customization job. The number for the first template in the sequence is A0, the number for the second template is A1, and so on.

job_ID

Characters 4 - 7 of the template name, if the template name

contains five or more characters. Otherwise, only character 4 is used. DB2 Table Editor assigns the template name.

DB2_entry_ID
Two alphanumeric characters, AA - 99, that Tools Customizer assigns to a DB2 entry.

For example, the XYZBND*DB2_entry_ID_1* and XYZBND*DB2_entry_ID_2* jobs are generated from the XYZBNDGR template, and the XYZ4*DB2_entry_ID_1* and XYZ4*DB2_entry_ID_2* jobs are generated from the XYZ4 template. If the jobs are generated on two DB2 entries, the following member names are listed sequentially: A0BNDGAA, A0BNDGAB, A14AA, A14AB.

Customization jobs for an LPAR or the product
The members use the following naming convention:

`<job_sequence_number><job_ID>`

where

job_sequence_number
Two alphanumeric characters, A0 - Z9, that Tools Customizer assigns to a customization job. The number for the first template in the sequence is A0, the number for the second template is A1, and so on.

job_ID
Characters 4 - 8 of the template name, if the template name contains five or more characters. Otherwise, only character 4 is used. For example, for the XYZMAKE template, the job ID is MAKE. For the XYZM template, the job ID is M. DB2 Table Editor assigns the template name, and it is displayed in the Template column.

For example, the XYZBNDGR job is generated from the XYZBNDGR template, and the XYZ4 job is generated from the XYZ4 template. The following member names are listed sequentially: A0BNDGR, A14.

Procedure

1. Submit the generated customization jobs by following the process that you use in your environment or by using the following method:
   a. Specify `B` against a customization job or the product customization library, and press Enter. An ISPF browsing session is started.
   b. Browse the customization job or each member in the library to ensure that the information is correct.
   c. Run the TSO `SUBMIT` command.
2. Press End.

Results

DB2 Table Editor is customized, and the Customizer Workplace panel is displayed. The status is Customized for the DB2 entries on which DB2 Table Editor was customized.

What to do next

You can generate more customization jobs for other DB2 entries, view a list of customization jobs that you previously generated, or recustomize DB2 Table Editor.

Browsing parameters

You can browse the product parameters, the LPAR parameters, and the DB2 parameters in read-only mode.

Procedure

1. On the Customizer Workplace panel, specify `B` next to the **Product parameters** field, the **LPAR parameters** field, or the DB2 entry that you want to browse, and press Enter. The panel that corresponds to your specification is displayed.
2. Press End to exit.

Copying DB2 entries

You can copy associated and not associated DB2 entries to other DB2 entries or to new DB2 entries.

About this task

Go to the step that applies to your environment:

- To copy an associated DB2 entry to another associated DB2 entry or to an entry that is not associated, go to step 1.
- To copy an associated DB2 entry to a new entry, go to step 2.
- To copy a DB2 entry that is not associated to a new entry, go to step 3.

Procedure

1. To copy an associated DB2 entry to another associated DB2 entry or to an entry that is not associated, complete the following steps:
   a. Specify `C` against a DB2 entry in the associated list of DB2 entries on the Customizer Workplace panel, and press Enter. The Copy Associated DB2 Entry panel is displayed.
   b. Select one or more DB2 entries to which information will be copied by specifying the / line command, and press Enter. The Associated column indicates whether the DB2 entry is associated.

      Tip: To copy information into all of the DB2 Entries in the list, issue the SELECTALL primary command, and press Enter.
      The Copy DB2 Parameter Values panel is displayed.
   c. Specify an option for copying common and product-specific DB2 parameter values. Common DB2 parameter values apply to all DB2 entries for all products that you have customized by using Tools Customizer. Product-specific DB2 parameter values apply only to the product that you are currently customizing.
      - To copy the common DB2 parameter values and the product-specific DB2 parameter values, specify option 1, and press Enter.
      - To copy only the product-specified DB2 parameter values, specify option 2, and press Enter.

      In some cases, the DB2 parameter values might contain the DB2 subsystem ID as an isolated qualifier in data set names. For example, in the DB01.DB01TEST.DB01.SANLLOAD, data set name, the DB01 subsystem ID is isolated in the first and third qualifiers but is not isolated in the second qualifier. When the DB2 subsystem ID is an isolated qualifier in data set names, the Change DB2 Subsystem ID in DB2 Parameter Values panel is displayed. Otherwise, the Customizer Workplace panel is displayed.

d. If the Change DB2 Subsystem ID in DB2 Parameter Values panel is displayed, specify an option for changing the subsystem IDs. Otherwise, skip this step.
   - To change the subsystem ID in isolated qualifiers in data set names, specify option 1, and press Enter.
   - To use the same subsystem ID in all values, specify option 2, and press Enter.

   The Customizer Workplace panel is displayed with the copied associated entry in the list.

2. To copy an associated DB2 entry to a new entry, complete the following steps:
   a. Specify `C` against a DB2 entry in the associated list of DB2 entries on the Customizer Workplace panel, and press Enter. The Copy Associated DB2 Entry panel is displayed.
   b. Issue the CREATE command. The Create DB2 Entries panel is displayed.
   c. Specify the SSID, the group attach name, or both in the appropriate columns for each new DB2 entry, and press Enter.

      Tip: To add rows for additional entries, specify the I*nn* line command, where *nn* is the number of entries to be created, and press Enter.
      The Copy Associated DB2 Entry panel is displayed with the new entries in the list. The new entries are preselected.
   d. Press Enter to complete the copy process. The Customizer Workplace panel is displayed with the copied entries in the list.
3. To copy a DB2 entry that is not associated to a new entry, complete the following steps:
   a. Issue the ASSOCIATE command on the Customizer Workplace panel. The Associate DB2 Entry for Product panel is displayed.
   b. Select one or more DB2 entries by specifying the / line command, and press Enter. The Copy a DB2 Entry panel is displayed.
   c. Specify the SSID, the group attach name, or both in the appropriate columns for the new DB2 entry, and press Enter. The Associate DB2 Entry for product panel is displayed with the copied entry in the list.
   d. If you want to associate the copied entry, specify `A` against it, and press Enter. The Customizer Workplace panel is displayed with the copied entries in the list.

What to do next

Edit any of the parameters or generate the jobs.

Related concepts:

"Tools Customizer terminology" on page 173
Tools Customizer uses several unique terms that you should be familiar with before you begin to use Tools Customizer.

Removing DB2 entries

You can remove DB2 entries from the associated list.

About this task

When you remove DB2 entries from the associated list, any customization jobs for the entries are removed from the list of jobs on the Finish Product Customization panel, and they are deleted.

Procedure

On the Customizer Workplace panel, specify `R` next to one or more DB2 entries that you want to remove, and press Enter. The selected DB2 entries are removed from the associated list and added to the master list on the Associate DB2 Entry for Product panel, and the customization jobs are deleted.

Related concepts:

"Tools Customizer terminology" on page 173
Tools Customizer uses several unique terms that you should be familiar with before you begin to use Tools Customizer.

Deleting DB2 entries

You can delete DB2 entries from the master list.

About this task

When you delete DB2 entries from the master list, any associations and all customization jobs for products that are customized on the entries will be deleted.

Procedure

1. On the Customizer Workplace panel, issue the ASSOCIATE command. The Associate DB2 Entry for Product panel is displayed.
2. Specify `D` next to one or more DB2 entries that you want to delete, and press Enter. If the entry is associated with any products, the Delete Associated DB2 Entry panel for the first DB2 entry that you selected is displayed. Otherwise, the Delete DB2 Entry panel is displayed.
3. To delete the DB2 entries, press Enter. If the DB2 entries are associated with any products in the table on the Delete Associated DB2 Entry panel, any associations and all customization jobs for the products that are customized on it are deleted. Otherwise, only the DB2 entries are deleted. If you selected multiple DB2 entries to delete, the next DB2 entry that you selected is displayed on either the Delete Associated DB2 Entry panel or the Delete DB2 Entry panel. Otherwise, the Associate DB2 Entry for Product panel is displayed.

What to do next

If you selected multiple DB2 entries to delete, repeat step 3 until all selected entries are deleted. Then, continue the customization process.

Displaying customization jobs

You can view a list of the members that contain the customization jobs before or after you submit the jobs.

About this task

The customization jobs that you generate for one DB2 entry are also displayed when you customize DB2 Table Editor for another DB2 entry later.

Procedure

On the Customizer Workplace panel, issue the JOBLIST command. The Finish Product Customization panel is displayed. This panel shows the list of jobs that you have previously generated. They are grouped by job sequence number. Use this panel to browse or edit the generated jobs before you submit them.

Maintaining customization jobs

Instead of deleting customization jobs outside of Tools Customizer, you can maintain the correct jobs for DB2 Table Editor by completing the steps for recustomization.

About this task

You cannot delete or rename customization jobs from the customization library by starting an ISPF browse or edit session from the Finish Product Customization panel. If you try to delete customization jobs by using this method, the CCQC034S message is issued. If you try to rename customization jobs, the CCQC035S message is issued.

If you delete or rename customization jobs from the customization library by using ISPF outside of Tools Customizer, Tools Customizer will not recognize that the jobs were deleted, and the Finish Product Customization panel will still display them. If you browse or edit jobs that were deleted from the library outside of Tools Customizer, the CCQC027S message is issued.

Procedure

To maintain the correct customization jobs in the customization library, complete the steps for recustomization.

Using Tools Customizer in a multiple-LPAR environment

Currently, Tools Customizer supports only the local LPAR; however, you can propagate customizations to additional LPARs by using either of two different methods.

About this task

In a multiple-LPAR environment, Tools Customizer identifies the LPAR to which you are logged on. Tools Customizer uses this LPAR name for several different parameter settings, one of which is the data store. When you use the data store during the customization of DB2 Table Editor that is on a different LPAR, Tools Customizer issues message CCQD586S, which indicates that the product has already been customized based on values from the data store on the first LPAR. This message is issued to prevent the data store from becoming corrupted.

This behavior occurs in the following conditions:

- Tools Customizer is installed on a DASD device that is shared by multiple LPARs.
- After a product is customized by using Tools Customizer, the data store is copied to another LPAR.

Procedure

To customize products running against a DB2 subsystem on an LPAR where Tools Customizer is not installed, consider using one of the following methods:

Install one instance of Tools Customizer on one LPAR
If you intend to reuse the customization values for all the instances of your products on all LPARs, use this method.

1. Associate all the DB2 entries in this one instance of Tools Customizer. The LPARs on which the DB2 subsystems reside do not matter.
2. Generate the customization jobs for each DB2 entry.
3. Copy the generated customization jobs to the LPAR to run against the specific DB2 entries. Some LPAR-specific edits might be required. You can make these edits in the customized jobs that you copied. Note that this situation is one of the few situations where you might need to make manual changes to the jobs that are customized by Tools Customizer.

Install one instance of Tools Customizer on each LPAR
If you do not want to reuse previous customization values and you want to start new customizations, use this method.

Important: This method will likely not be the preferred approach for most organizations because most organizations tend to use similar or identical customization values for each product instance on all LPARs.

Chapter 4. The DB2 Table Editor ISPF Interface

DB2 Table Editor for z/OS ISPF interface can be used to access z/OS. The ISPF interface allows database administrators and developers to use DB2 Table Editor to edit table data in an ISPF environment without setting up a server. DB2 Table Editor allows you to work with DB2 tables in an ISPF environment using a quick and easy interface. You can access, edit, and search data stored on databases through DB2 Table Editor. You can also perform Inserts, Updates, and Deletes without writing SQL. This documentation assumes that you are familiar with ISPF and basic DB2 concepts.

Topics:

Working with the DB2 Table Editor ISPF interface

To use the DB2 Table Editor ISPF interface, first invoke DB2 Table Editor. Then, specify the table name that you want to view or edit, and make choices about the way that you want to view or edit it.

Starting DB2 Table Editor on ISPF

You can invoke the DB2 Table Editor ISPF interface by running the CLIST ETIV45.

About this task

For example, from the ISPF TSO command panel, issue the following command:

```
EX &CLIST(ETIV45)
```

where *&CLIST* is the name that was specified in the Startup CLIST library panel (CCQPPRD).

This will open the DB2 Table Editor Main Menu panel (ETI$MAIN).

Starting DB2 Table Editor from the DB2 Administration Tool

Before you begin

You can invoke the DB2 Table Editor ISPF interface from the DB2 Administration Tool if you added DB2 Table Editor to the DB2 Administration Tool during installation and configuration.

Procedure

1. From the DB2 Administration Tool menu panel (ADB2), select **1** (**DB2 system catalog**).

2. From the System Catalog panel (ADB21), fill in the **Standard Selection Criteria** near the bottom of the panel to specify the tables that you want to see; then select **T** (**Tables, views, and aliases**).
3. From the Tables, Views, and Aliases panel (ADB21T), place a "?" in the **Sel** column and press Enter. From the list of available commands, select the option from the list that indicates that you can edit the table.

The DB2 Table Editor ISPF main menu panel

The DB2 Table Editor ISPF main menu panel (ETI$MAIN) is the primary menu from which you navigate through DB2 Table Editor.

```
ETI$MAIN                IBM DB2 Table Editor           2016/03/02  17:29:43

 0  User settings                                      User ID  . . : PDMONA
 1  DB2 subsystems                                     System ID  . : RS23
 2  Display log                                        Appl ID  . . : ETI
 X  Exit                                               Version  . . : 4.5

                                                       DB2 SSID . . . ______
 DB2 table options:                                    DB2 SQL ID . . PDMONA
   Location . . . . ____________________
   Creator like . . ____________________________________ >
   Name like  . . . ____________________________________ >

 Option ===> ____________________________________________________________
```

Figure 12. DB2 Table Editor main menu panel (ETI$MAIN)

Specify or view information in the following fields on the DB2 Table Editor main menu panel (ETI$MAIN):

Field	Description
User ID	Displays the current user.
System ID	Displays the system ID.
Appl ID	Displays the application ID.
Version	Displays the version of the product you are using.
DB2 SSID	Specify the DB2 subsystem ID. You must specify a DB2 Subsystem ID. You can specify a question mark (?) in the field to open a list of existing subsystems from which to choose on the DB2 Subsystems panel (ETI$SSLS); specify the S (Select) line command to select a SSID.
DB2 SQL ID	Displays the current user's SQL ID.
DB2 table options	Specify DB2 table options in the **Location**, **Creator like**, and **Name like** fields.
Location	Specify the location of the table in this field.
Creator like	Specify the table creator name for which you want to search. You can use wildcard characters in your search. Use the * character or the % character as the wildcard character. Specifying * returns all table creators.
Name like	Specify the table name for which you want to search. You can use wildcard characters in your search. Use the * character or the % character as the wildcard character. Specifying * returns all table names.

On this panel, you can specify the following commands:

Command	Description
DISPLAY MEPL	To open the Build Display MEPL JCL panel, specify the **DISPLAY MEPL** command on the Option line and press Enter. For more information about this option, see "Gathering diagnostic information with the DISPLAY MEPL command" on page 67
0	To specify user settings for tables that you want to view or edit, specify option **0** (User settings) on the Option line and press Enter. For more information about the User Settings option, see "Specifying user settings."
1	To select or edit information about the DB2 subsystem on which to run DB2 Table Editor, specify option **1** (DB2 subsystems) on the Option line and press Enter. For more information about the DB2 subsystems option, see "Specifying DB2 subsystem information" on page 63.
2	To view the DB2 Table Editor activity log, specify option **2** (Display log) on the Option line and press Enter. For more information about the Display log option, see "Viewing the DB2 Table Editor activity log" on page 65.
X	To exit DB2 Table Editor, specify **X** and press Enter.

Specifying user settings

About this task

To specify user settings for tables that you want to view or edit, specify option `0` (User settings) on the DB2 Table Editor main menu panel (ETI$MAIN).

```
ETI$USET                   User Settings                    2016/03/17  13:48

Fetch limit  . . . . . . . 0          (0-999999)
Max char display . . . . . 30         (1-32768)
Lock table . . . . . . . . NO         (Shared, Exclusive, or No)
Skip locked data . . . . . NO         (Yes/No)
NULL default value . . . . YES        (Yes/No)
Use default values . . . . YES        (Yes/No)

Display hidden columns . . YES        (Yes/No)
Show column labels . . . . YES        (Yes/No)
Save options . . . . . . . YES        (Yes/No)

Print to file options:
  Data set name  . . . . . *                                            >
  Delimiter  . . . . . . . ,
  Column headers . . . . . YES        (Yes/No)
  Allocation . . . . . . . AUTOMATIC  (Automatic/Manual)

Command ===> ____________________________________________________________
```

Figure 13. DB2 Table Editor User Settings panel (ETI$USET)

Specify or view information in the following fields on the User Settings panel (ETI$USET):

Field	Description
Fetch limit	Specify the maximum number of rows that you want to fetch in one frame. The product loads data from DB2 by a small portion called frame. If the value is less than the screen depth, the screen depth will be used. Specify `0` to use default frame size.

Field	Description
Max char display	Specify the maximum number of characters that you want to be displayed in each column. If a field exceeds this maximum, you can use the **EXPAND** command to see all of the data or scroll data right or left.
Lock table	Specify NO to edit the table without locking it. Specify SHARED to prevent other applications from performing anything but read-only operations on the table while you edit it. Specify EXCLUSIVE to prevent concurrent applications from performing any operations on the table while you edit it. For more information, see "Locking a table."
Skip locked data	When you specify YES, all SELECT, INSERT, UPDATE, and DELETE statements performed by DB2 Table Editor will append the DB2 clause SKIP LOCKED DATA.
NULL default value	When you specify YES, empty cells are filled with nulls when you insert a blank row. When you specify NO, empty cells are left empty when you insert a blank row. **Note:** This value has no effect on columns that are declared as NOT NULL.
Use default values	When you specify YES, DB2 Table Editor fills NOT NULL columns with values depending on the data types of the columns. The default value is NO.
Display hidden columns	When you specify YES, columns that are defined as hidden to the DB2 system catalog are displayed. When you specify NO, these columns are hidden.
Show column labels	When you specify YES, column labels, where present, are displayed. When you specify NO, they are not displayed.
Save options	Specify YES to save the options that you have specified on this panel permanently. Specify NO if you do not want to save these options between DB2 Table Editor run sessions.
Data set name	This value is the name of the physical sequential data set to write committed data rows to when using the **EXPORT** command. DB2 Table Editor will create this data set if it does not exist. This field can also be a fully qualified HFS directory. This value is required.
Delimiter	This value is the separator character used between column data when writing committed table data to a file using the **EXPORT** command. The default value is a comma (,). This value is required.
Column headers	When you specify YES, the **EXPORT** command will include column name and column data types as the first record in the print file. When you specify NO, no column headers are included in the print file. The default value is YES. This value is required.
Allocation	When you specify AUTOMATIC, DB2 Table Editor will automatically create the data set with the following DCB parameters: DSORG PS, RECFM V, and LRECL 32756. When you specify MANUAL, you can manually provide the data set allocation parameters. The default value is AUTOMATIC. This value is required.

Press F3 to save settings, or use the **CANCEL** command to return to the DB2 Table Editor main panel (ETI$MAIN).

Locking a table:

On the User Settings panel (ETI$USET), you can specify locking preferences.

The LOCK TABLE statement is used to control locking. The options for locking mode are either SHARE MODE or EXCLUSIVE MODE.

- In share mode, concurrent application processes are prevented from executing all but read-only operations on the table.
- In exclusive mode, concurrent application processes are prevented from executing any operations on the table. Exclusive mode does not prevent concurrent application processes that are running at the Uncommitted Read (UR) isolation level from executing read-only operations on the table.

On the User Settings panel (ETI$USET), if you specify NO in the **Lock table** field, then DB2 Table Editor does not issue the LOCK TABLE statement, but only obtains locks as needed to perform updates, inserts, or deletes. Note that if a table contains a large number of rows, and no row conditions are specified, then not all of data is automatically loaded into the grid until requested. In this case a read cursor will remain open until all of the data is loaded.

Specifying DB2 subsystem information

About this task

To specify or edit information about the DB2 subsystem on which to run DB2 Table Editor, specify option 1 (DB2 subsystems) on the DB2 Table Editor main menu panel (ETI$MAIN).

On the Confirm Action panel that appears, press Enter to proceed.

```
ETI$SSLS                   DB2 Subsystems                   2016/03/02  17:34

 Commands:      CREATE
 Line commands: S - Select  D - Delete  E - Edit  V - View  C - Copy

 Current DB2 SSID . . . : DB2SSID
 DB2 control data set . : TSNSB.ETI.DB2.CONTROL
                                                              Row 1 of 26   +
 Cmd SSID Description
 --- ---- ---------------------------------------------
 __  AA1F
 __  A91A
 __  A91B
 __  DC1A
 __  D9CM
 __  D91A
 Command ===>_____________________________________________ Scroll ===> PAGE
****************************** Bottom of data ********************************
```

Figure 14. DB2 Subsystems panel (ETI$SSLS)

On the DB2 Subsystems panel (ETI$SSLS), information is displayed in the following fields:

Field	Description
Current DB2 SSID	The DB2 subsystem being edited, viewed, or created.
DB2 control data set	The name of the DB2 control data set. This is the VSAM control file that you have previously created and specified in the CLIST. You cannot change this field.

You can specify the following line commands in the **Cmd** field next to an existing SSID:

Line Command	Description
S (Select)	Specify S to select the DB2 subsystem with which you want to work.
D (Delete)	Specify D to delete the selected DB2 subsystem from the control file. This command opens the Confirm Action panel so that you can confirm or cancel your request.
E (Edit)	Specify E to edit information about the DB2 subsystem. This command opens the DB2 Subsystem Parameters panel (ETI$SSPR).
V (View)	Specify V to view information about the DB2 subsystem. This command opens the DB2 Subsystem Parameters panel (ETI$SSPR).
C (Copy)	Specify C to copy information from one subsystem to another. This command opens the New DB2 Subsystem panel (ETI$SSCR).

To create a new DB2 subsystem entry, specify CREATE on the Command line and press Enter.

Creating, viewing, or editing DB2 subsystems:
About this task

On the DB2 Subsystems panel (ETI$SSLS), you can create, select, delete, edit, view, or copy information about a DB2 subsystem on which to run DB2 Table Editor.

Procedure

- To create a new DB2 subsystem entry, specify CREATE on the Command line and press Enter.

```
             New DB2 Subsystem
ETI$SSCR
Enter new DB2 subsystem profile options:
  DB2 SSID . .____________

Press ENTER to process
Press F12 to cancel
```

Figure 15. The New DB2 Subsystem panel (ETI$SSCR)

  On the New DB2 Subsystem panel (ETI$SSCR), specify a new DB2 subsystem on which to run DB2 Table Editor, and press Enter.
- To select, delete, edit, view, or copy information, on the DB2 Subsystems panel (ETI$SSLS), specify S (Select), D (Delete), E (Edit), V (View), or C (Copy) in the **Cmd** field next to an existing SSID and press Enter.

  If you specify E (Edit) or V (View), you can edit or view information for the DB2 subsystem on the DB2 Subsystem Parameters panel (ETI$SSPR).

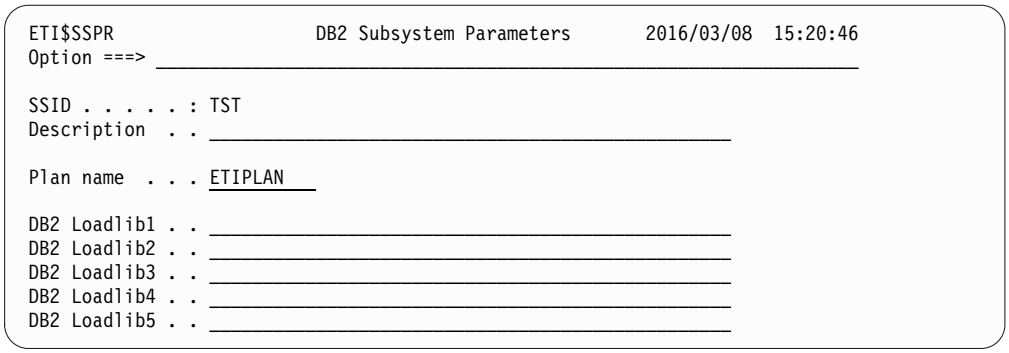


Figure 16. DB2 Subsystem Parameters panel (ETI$SSPR)

On the DB2 Subsystem Parameters panel (ETI$SSPR), you can view or edit information in the following fields:

Field	Description
SSID	The DB2 subsystem being edited, viewed, or created.
Description	A meaningful description of the subsystem; this value can be up to 44 alphanumeric characters.
Plan name	(Required) The product plan to be used when connecting to the DB2 catalog; this value can be up to 8 alphanumeric characters. There is no default value.
DB2 Loadlib	(Required) The name of the data set that comprises the current load library concatenation for DB2, and is used during batch job processing; this value can be up to 47 alphanumeric characters. There is no default value. The load library usually consists of a subsystem-specific DSNEXIT library, the base DSNEXIT library for the current DB2 version, and the base DSNLOAD library for the current DB2 version.
DB2 Loadlib2,3,4,5	(Optional) The names of additional libraries that are required for the subsystem during batch job processing.

Viewing the DB2 Table Editor activity log

DB2 Table Editor logs all activity that takes place within the ISPF interface.

Procedure

1. To view user activity in DB2 Table Editor, specify option 2 (Display log) on the Option line of the DB2 Table Editor main panel (ETI$MAIN) and press Enter.

```
ETI$LOG            Log Display - SSID: DA1A              2016/03/09  10:24:54
Command ===> ____________________________________________ Scroll ===> PAGE

Commands: CLEAR - Clear search criteria

Creator like . . ____________________________________  >
Name like  . . . ____________________________________  >
Timestamp  . . . ___________________ (YYYY/MM/DD hh:mm:ss)
Row count  . . . ___(EQ, NE, GT, LT)
Action . . . . . _____ (Update, Delete, Insert, Edit, Browse)
User ID  . . . . PDMONA

Action Row Count  Timestamp           Creator  Name                 User ID
------ ---------- ------------------- -------> -------------------> --------
EDIT              2016/03/09 16:40:56  ETITST  ETI_RT_ORG           PDMONA
UPDATE          3 2016/03/09 16:40:56  ETITST  ETI_RT_ORG           PDMONA
******************************* Bottom of data ********************************
```

Figure 17. The Log Display panel (ETI$LOG)

Note: If logging is not enabled, then you will receive an informational message instructing you to reconfigure DB2 Table Editor for use with logging.

2. To filter data, on the Log Display panel (ETI$LOG), specify search criteria in the following fields, which appear at the top of the panel, and press Enter to view the filtered data.

Field	Description
Creator like	To search for data in the log table by the object's creator, specify a name of up to 128 characters. This field is scrollable, which enables you to specify longer creator names. You can also specify wildcard characters (* or %) in this field to return all creator names.
Table like	To search for data in the log table by the object's name, specify a name of up to 128 characters. This field is scrollable, which enables you to specify longer object names. You can also specify wildcard characters (* or %) in this field to return all table names.
Timestamp	To search for data in the log table by the timestamp when the object's data was affected by an insert, update, or delete action, specify a timestamp in the following format: *YYYY/MM/DD hh:mm:ss*. To view all timestamps, leave this field blank.
Row count	To search for data in the log table by the number of rows affected by an insert, update, or delete action, specify one of the following conditional operators: `EQ` (equal), `NE` (not equal), `GT` (greater than), or `LT` (less than) followed by the number of rows. To view all data, leave this field blank.
Action	To search for data in the log table by the action performed (update, delete, insert, edit, or browse), specify one of the following actions: `Update`, `Delete`, `Insert`, `Edit`, or `Browse`. To view all actions, leave this field blank.
User ID	To search for data in the log table by the user who made the change, specify their user ID. To view all users, leave this field blank.

When you specify multiple search criteria, each entry is joined together by `AND` and searched together. To clear criteria and begin a new search, use the `CLEAR` command. This clears all criteria in the search criteria fields so that you can specify new search criteria.

When you specify search criteria and press Enter, information is displayed in the following fields:

Field	Description
Action	The action that occurred on the object. Valid values are Update, Browse, Insert, Delete, or Edit (which indicates that you specified EDIT mode on a table).
Row Count	The number of affected data rows as a result of an update, insert, or delete.
Timestamp	The recorded timestamp when the corresponding action was performed on the data. This is the system timestamp.
Creator	The creator of the DB2 object. If the object is a table, then this is the creator of the table. If the object is a view, then this is the creator of the view. This value can be up to 128 characters. This field is scrollable if the content is longer than 8 characters.
Name	The name of the DB2 object. If the object is a table, then this is the name of the table. If the object is a view, then this is the name of the view. This value can be up to 128 characters. This field is scrollable if the content is longer than 16 characters.
User ID	The user ID associated with the corresponding action.

Data within columns can be sorted using the standard ISPF panel **CSORT** command, or by pressing Enter when the cursor is on the column name. The **CSORT** command sorts data in ascending or descending order. For more information about sorting data, see "Sort rows and columns" on page 91.

Gathering diagnostic information with the DISPLAY MEPL command

The DISPLAY MEPL ISPF command allows you to see the applied PTF number and compilation date for each ETI object module in a table with the Object, Service, Date, and Time columns. This command also allows you to provide diagnostic information to the IBM programming team when software errors arise.

About this task

To build display MEPL JCL:

Procedure

1. On the DB2 Table Editor main panel (ETI$MAIN), specify `DISPLAY MEPL` on the Option line and press Enter.

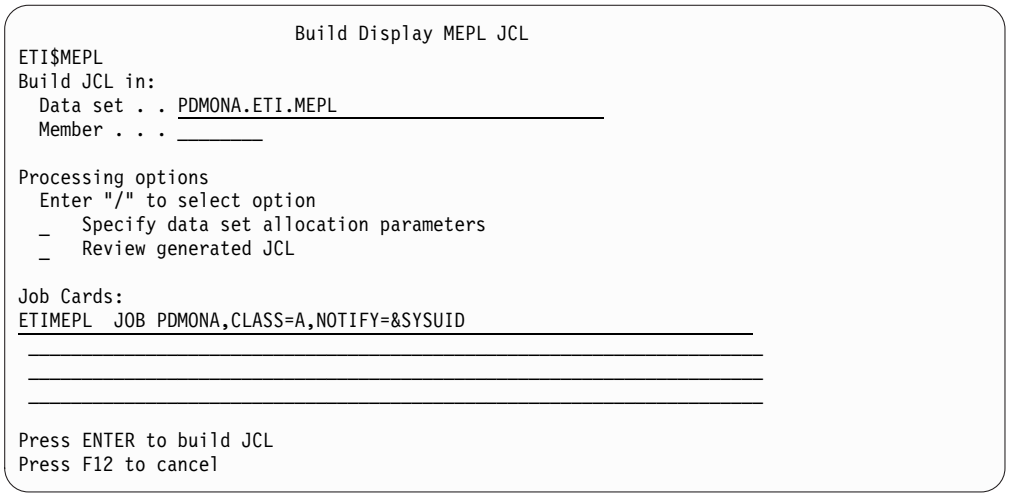


Figure 18. The Build Display MEPL JCL panel (ETI$MEPL)

2. On the Build Display MEPL JCL panel (ETI$MEPL), specify information in the following fields:

Field	Description
Build JCL in Data set and Member	Specify a data set name and a member name.
Specify data set allocation parameters	Select this option to specify data set allocation parameters.
Review generated JCL	Select this option to review generated JCL.
Job Cards	Specify job card information.

When you press Enter, a job is generated and displayed on the screen. This job can be submitted and its output can be attached with any correspondence with IBM. The output of the job contains compilation, level, and APAR information that is useful to the programming staff for diagnosing software problems.

For all DB2 Table Editor software problems, you must provide the number of the last program temporary fix (PTF) and any relevant authorized program analysis reports (APARs) that were applied. APARs can be determined by using the **DISPLAY MEPL** command as shown in the example below.

Sample JCL

The following example displays the JCL that is generated when you use the **DISPLAY MEPL** command:

```
//ETIMEPL7 JOB
TSNSB,CLASS=A,NOTIFY=&SYSUID
//*
//DISPMEPL EXEC PGM=ETI3MEPL,REGION=0M
//STEPLIB  DD   DISP=SHR,DSN=ETI.V450.SETILOAD
//SYSOUT   DD   SYSOUT=*
```

Viewing or editing a table

About this task

From the DB2 Table Editor ISPF main menu panel (ETI$MAIN), you can view or edit table data.

Procedure

1. From the DB2 Table Editor ISPF main menu panel, in the **DB2 SSID** field, specify the ID for the DB2 Subsystem where the table that you want to open is located. You must specify a DB2 Subsystem ID. You can specify a question mark (?) in the field to open a list of existing subsystems from which to choose on the DB2 Subsystems panel (ETI$SSLS); specify the S (Select) line command to select a SSID.
2. In the **Location** field, if you want to connect to a DB2 location, specify the location name here. If you do not want to connect to a location, leave this field blank.
3. In the **Creator like** field, specify the table creator name for which you want to search. You can use wildcard characters in your search; use the asterisk, percent sign, or underscore character. The underscore character represents any single character. An asterisk returns all table creators.
4. In the **Name like** field, specify the table name for which you want to search. You can use wildcard characters in your search; use the asterisk, percent sign, or underscore character. The underscore character represents any single character. An asterisk returns all table creators.
5. Press Enter. A list of tables that match the criteria that you specified is displayed on the Table Selection panel (ETI$DPTB).

```
ETI$DPTB                    Table Selection             2016/03/22  13:42:06
Command ===> ____________________________________________ Scroll ===> PAGE

Line commands: S - Select table  C - Count rows

Location . . . . ____________________                DB2 Subsystem . : DA1A
Creator like . . ____________________________________ >
Tables like  . . ____________________________________ >
                                                       Row 1 of 14190   +>
Cmd Table Name          Creator   Database   Tablespace  Row Count Created Time
--- ------------------> --------> ---------- ----------- --------- ------------
___  CIRF01T1           ROW_FORM  CIRF001D   CIRF001S    4         2013-06-20-
___  STAFF              PDSPIRI   DSN00502   MSTAFFMM    -1        2015-03-04-
___ /BIC/B0000697000    PDGREG    DBGPDSIZ   XBICXB00    0         2013-08-27
```

Figure 19. The Table Selection Panel (ETI$DPTB)

6. If the table that you want to open is not listed you can search further as follows:
   - In the **Location** field, if you want to connect to a DB2 location, specify the location name here. If you do not want to connect to a location, leave this field blank.
   - In the **Creator like** field, to narrow your search, specify a table creator. You can use wildcard characters in your search. An underscore character represents any single character. An asterisk character returns all table creators.
   - In the **Tables like** field, to narrow your search, specify a table name. You can use wildcard characters in your search. An underscore character represents any single character. An asterisk character returns all table creators.

Note: If row count information is unavailable, the value in the **Row Count** column will be **-1**. To make it available, you can issue the RUNSTATS command, or issue the C line command.

7. Specify S in the **Cmd** column next to the table that you want to open, and press Enter.

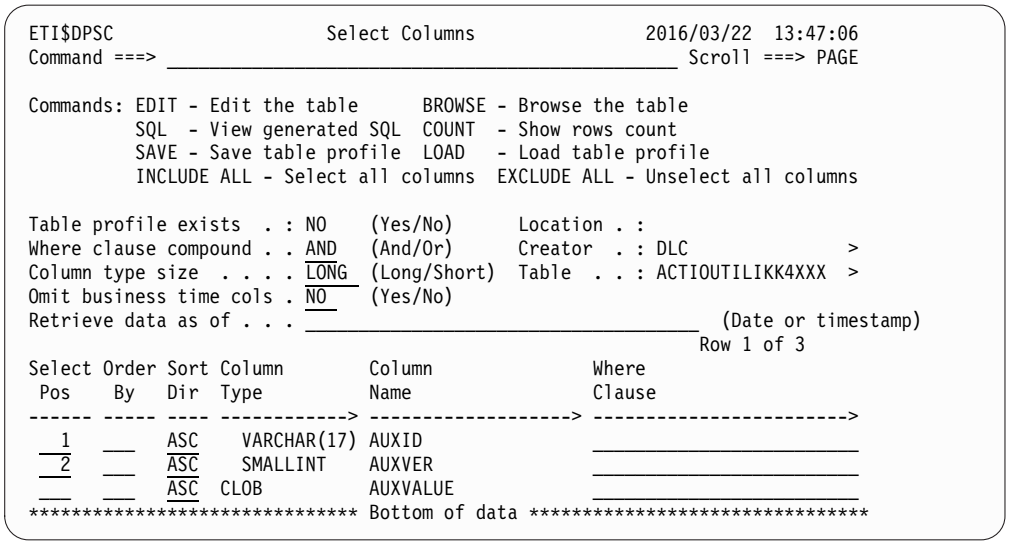


Figure 20. Select Columns panel (ETI$DPSC)

8. On the Select Columns panel (ETI$DPSC), view or specify information in the following fields:

Field	Description
Table Profile exists	Displays YES or NO to indicate whether or not the table profile already exists.
Location	Displays the location of the table.
Where clause compound	Specify And or Or as the where clause compound.
Creator	Displays the table creator.
Column type size	Specify Long or Short as the column size type.
Table	Displays the table name.
Omit business time cols	Specify Yes or No to indicate whether you want to omit business time columns.
Retrieve data as of	Specify the date or timestamp from which to retrieve data.

When you are finished, press Enter. The table will be displayed according to your specifications.

Also, you can specify the following commands on the Select Columns panel (ETI$DPSC):

Command	Description
EDIT	Specify this command to edit the table. **Note:** When you attempt to edit UNICODE data, a popup message informs you that one or more columns contain unprintable substitution characters. For more information about editing UNICODE data, see “Editing UNICODE data” on page 74.

Command	Description
BROWSE	Specify this command to browse the table.
SQL	Specify this command to view the generated SQL.
COUNT	Specify this command to show the rows count.
SAVE	Specify this command to permanently save the panel settings for this table.
LOAD	Specify this command to load previously saved panel settings for this table.
INCLUDE ALL	Specify this command to select all columns.
EXCLUDE ALL	Specify this command to deselect all columns.

Editing a row

You can use the Edit Table Rows panel (ETI$EDIT) to edit a row in a table.

About this task

To edit a row in a table:

Procedure

1. On the Select Columns panel (ETI$DPSC), specify `EDIT` on the Command line and press Enter.

```
ETI$EDIT                   Edit Table Rows              2016/03/24  22:15:16
Command ===> ____________________________________________ Scroll ===> PAGE

Commands: SAVE   - Save changes  INSERT  - Insert first row
          EXPORT - Export data   HISTORY - View history
          RESET  - Show hidden rows
Line commands: I - Insert  R - Repeat  D - Delete  C - Copy  U - Undo  F - Form
               X - Hide

Creator . . : TEST         >  Table . . : 1Q                              >
                                                          Row 1 of 25   +>
Cmd S ID       N NAME       N DEPT     N JOB     N YEARS    N SALARY       N CO
      SMALLINT   VARCHAR(9)   SMALLINT   CHAR(5)   SMALLINT   DECIMAL(7,2)   DE
--- - -------- - ---------- - -------- - ------- - -------- - ------------ - --
 __       110   N NGAN       N     15   N CLERK   N      5   N  12508.20    N
 __       120   N NAUGHTON   N     38   N CLERK   Y          N  12954.75    N
 __       130   N YAMAGUCHI  N     42   N CLERK   N      6   N  10505.90    N
 __       140   N FRAYE      N     51   N MGR     N      6   N  21150.00    Y
 __       150   N WILLIAMS   N     51   N SALES   N      6   N  19456.50    N
```

Figure 21. The Edit Table Rows panel (ETI$EDIT)

On the Edit Table Rows panel (ETI$EDIT), the **Creator** field displays the creator of the table, and the **Table** field displays the table name.

You can specify the following Commands on this panel:

Command	Description
SAVE	Specify this command to save changes.
INSERT	Specify this command to insert first row.
EXPORT	Specify this command to export data.
HISTORY	Specify this command to view history.
RESET	Specify this command to show hidden rows.

You can also specify the following Line Commands on this panel:

Command	Description
I	Specify this command to insert rows.
R	Specify this command to repeat rows.
D	Specify this command to delete rows.
C	Specify this command to copy rows.
U	Specify this command to undo changes.
F	Specify this command to view data in form mode.
X	Specify this command to hide rows.

Note: When editing a row, you can choose to view the row alone (one row is shown at a time) in form mode or you can view the row in tabular mode where you will see more than one row displayed at a time.

2. In the open table, move the cursor to the cell in the row that you want to edit and specify the necessary changes. If the data in the cell is too long to appear on the screen, you can press PF11 to scroll the data within the value. If the data in the cell is XML data, `<xml data>` will appear instead of the cell contents. To view or edit the contents of the cell, use the **Expand** command.

   To edit one row at a time, select the row that you want to edit, and specify **F** in the **Cmd** column corresponding to that row. Press Enter. The row appears in form mode. In form mode, you can browse through the rows in a table using `PROW` to go to the previous row and `NROW` to go to the next row. To return to tabular format, press PF3.
3. When you have completed your changes, press Enter. DB2 Table Editor marks the row as updated. The changes that you have made will be committed in DB2 when you exit the table that you are editing.

Editing a row that contains XML data:

You can use the Edit Table Rows panel (ETI$EDIT) and the XML Processor panel (ETI$XMLE) to edit a row in a table that contains XML data.

Procedure

1. On the Edit Table Rows panel (ETI$EDIT), in an open table, move the cursor to the cell in the row that you want to edit. Rows that contain XML data will show `<xml data>` instead of the cell contents.
2. Specify `Expand` on the Command line and press Enter.

```
ETI$XMLE          XML Processor                          2016/03/08  19:07:12
Command ===> ____________________________________________ Scroll ===> PAGE

Commands:      OPTIONS - Setup processing  INSERT - Insert tag (for empty only)
Line Commands: I - Insert tag  A - Add data  C - Collapse  X - Expand
               D - Delete

XML CONTENTS
_  <GRI>
_   <LOCATIONS>
_    <LOCATION name="DB2F (db2zos)" user="" password="" vendor="db2zos" driver=
_     <LOCATION name="DB2T (db2zos)" user="" password="" vendor="" driver="COM.i
_   </LOCATIONS>
_   <SOURCES encoding="UTF-8">
_    <SOURCE name="ADM.LPR_EDITEUR" type="SQL" seed="5">
_     <CONTENT type="embed" location="DB2F (db2zos)">
_  --
_  --
_  123
_     </CONTENT>
_     <ROWS start="-1" end="-1" skip="1"/>
_    </SOURCE>
_   </SOURCES>
_  </GRI>
***************************** Bottom of Data ********************************
```

Figure 22. The XML Processor panel (ETI$XMLE)

3. On the XML Processor panel (ETI$XMLE), edit the XML data as necessary.
   You can use the following Commands on this panel:

Command	Description
OPTIONS	Setup processing.
INSERT	Use this command to insert the first tag in your XML when it contains only the XML declaration. If the document already contains tags, use the **Insert tag** line command. The default tag name is "TAG"; this name can be changed.

You can use the following Line Commands on this panel:

Command	Description
I (Insert new tag)	Insert new tag. If you use this command on a start-tag line, the new child tag will be created for the selected tag. If you use this command on an end-tag line, the new tag will be added after the selected tag. The default tag name is "TAG".

A (Add data into the selected tag)	The default data value is "DATA"; you can change this value. Example:
	`_ <TAG>`
	`A contents`
	`_  <TAG2>`
	`_  contents2`
	`_  </TAG2>`
	`_ </TAG>`
	
	A line with DATA value is added. You can type new content on the newly added line.
	`_ <TAG>`
	`_ contents`
	`DATA  <TAG2>`
	`_  contents2`
	`_  </TAG2>`
	`_ </TAG>`

Command	Description

C (Collapse the tag)	This command is only available on start-tag lines. They are marked with the hyphen (-) symbol. Example:
	`C <TAG>`
	`_ contents`
	`_ <TAG2>`
	`_ contents2`
	`_ </TAG2>`
	`_ </TAG>`
	Will be collapsed to:
	`_ +<TAG></TAG>`

X (Expand the tag)	This command is only available for previously collapsed lines. Example:
	`X +<TAG></TAG>`
	Will be expanded to:
	`_ <TAG>`
	`_ contents_`
	`_ <TAG2>`
	`_ contents2`
	`_ </TAG2>`
	`_ </TAG>`

D (Delete)	Depending upon the content of the line, this command deletes either data, comment, or the whole tag with all child elements. The only line you are not allowed to delete is the XML declaration. Example:
	`_ <TAG>`
	`_ contents`
	`D <TAG2>`
	`_ contents2`
	`_ </TAG2>`
	`_ </TAG>`
	TAG2 will be deleted:
	`_ <TAG>`
	`_ contents`
	`_ </TAG>`

4. When you have completed your changes, press PF3 to exit the XML Processor panel (ETI$XMLE) and save your changes.

What to do next

Note: DB2 Table Editor V4.5 removed the 1 MB size limitation for editing XML data. The XML data can be edited as long as the user region size is large enough to load the data into the memory.

Editing UNICODE data:
About this task

To edit UNICODE data, on the Select Columns panel (ETI$DPSC), specify `EDIT` on the Command line and press Enter. The following informational message appears:

```
You are about to edit a table with UNICODE data that may be
incorrectly displayed. Editing converted UNICODE data may result
in data corruption. Do you want to proceed?

Press ENTER to process
Press F12 to cancel
```

To continue to edit converted data, press Enter. If you do not want to edit converted data, press F12. If you press Enter, the Edit Table Rows panel (ETI$EDIT) is displayed and all column data is editable, including those columns with data that could not be converted to displayable characters in EBCDIC.

If you press F12, the Edit Table Rows panel is displayed, and only those columns with data that could be converted to displayable characters in EBCDIC are editable. Columns with data that cannot be converted in EBCDIC are displayed in white, indicating that they are not editable because they might contain non-displayable characters.

Editing a long cell:

You can view or edit the entire contents of a long cell with the **Expand** command.

About this task

If data in a cell is too long to appear on the screen, you can press PF11 to scroll the data within the value. If the data in the cell is XML data, `<xml data>` will appear instead of the cell contents. To view or edit the contents of the cell, use the **Expand** command.

Procedure

1. In an open table, specify `Expand` on the Command line, and then move the cursor to the cell that you want to edit. Alternatively, you can place the cursor on the cell that you want to edit, and press PF4.

```
ETI$EXPL         Column Editor                          2016/03/08  19:26:39
Command ===> ____________________________________________ Scroll ===> PAGE

Creator . : USERID         >  Table . : TABLENAME                        >
Column  . : COLNAME        >  Type  . : DATATYPE
Length  . : ________          Null  . . NO
Max . . . : ________

****** ----+----1----+----2----+----3----+----4----+----5----+----6----+----7--
000001 COLUMN CONTENTS
***************************** Bottom of Data ********************************
```

Figure 23. Column Editor panel (ETI$EXPL)

On the Column Editor panel (ETI$EXPL), the following fields are displayed:

Field	Description
Table	The name of the table in which the selected cell exists.
Creator	The creator of the table in which the selected cell exists.
Column	The name of the column in which the selected cell exists.
Type	The data type of the column in which the selected cell exists.
Length	The length in characters of the data in the selected cell.
Max	The maximum length in characters of the data in the selected cell.
Null	This value is NO if the selected cell does not have a value of null. The value is YES if the selected cell does have a value of null.

2. On this panel, view or edit the full content of cells that contain too much data to fit on the screen. You can also view additional information about the selected cell.

3. When you are finished viewing or editing the data, press PF3. If you have made changes to the cell, DB2 Table Editor updates the cell with the information that you specified and returns to the Edit Table Rows (ETI$EDIT) panel.

Viewing and editing the contents of a cell with a hexadecimal editor:
About this task

You can view the contents of a cell with hexadecimal (hex) values on the Column Editor panel (ETI$EXPL).

Procedure

- On the Column Editor panel (ETI$EXPL), specify `HEX` or `HEX ON` on the Command line and press Enter. The hex editor is turned on.
- To turn the hex editor off, specify `HEX OFF`. The hex editor is turned off.

Updating a row:
About this task

When DB2 Table Editor updates a row, it searches for the row by the row id; each row in a DB2 table has a unique row id.

Saving changes to DB2:
About this task

You can commit the changes that you have made during your edit session in DB2 Table Editor in two ways.

- Changes are automatically committed when you exit a table with PF3. If you press PF12, unsaved changes are not saved.
- You can manually commit changes at any time; specify `SAVE` on the Command line of the Edit Table Rows panel (ETI$EDIT) and press Enter.

Inserting a blank row:
About this task

You can insert a blank row into a table using the Edit Table Rows panel (ETI$EDIT). You can insert a row into a table that contains data or into an empty table.

Procedure

1. On the Edit Table Rows panel (ETI$EDIT), specify `I` in the **Cmd** column of the row below which you want the new row to appear, and press Enter.

   Note: To remove the row that you inserted and exit the Edit Table Rows panel without committing your changes, specify `CANcel` on the Command line and press Enter.
   A blank row appears below the row that you selected.
2. Specify data in any fields that are required in that row. For example, if one of the cells must have a value that is not null, you must specify a value in that cell. The changes that you make are committed in DB2 when you exit the table that you are editing.
3. To cancel your changes before you exit the table, specify `CANcel` on the Command line and press Enter. You will exit the panel without committing your changes.

What to do next

Notes:

- To insert more than one row into the table that you are editing, specify `I`, followed by the number of new rows that you want to insert in the **Cmd** column of the row below which you want the new rows to appear. You can only insert multiple rows on the Edit Table Rows panel.
- You can insert a blank row into an empty table by opening an empty table from the DB2 Table Editor main panel (ETI$MAIN); then, in the Edit Table Rows panel (ETI$EDIT), specify `INSERT` on the Command line and press Enter. A blank row is inserted into the table.
- To see all committed changes that have been made for a specified cell in the table, set the cursor in that cell and specify `HISTORY` on the Command line and press Enter. The History View panel (ETI$HIST) displays versions of data (in the Data column) and the date these changes were made (in the Date Changed column). Data is sorted by the Date Changed column in descending order.
- To write all data (both saved and unsaved) to a flat file, specify `EXPORT` on the Command line and press Enter. For more information, see "Exporting data."

Exporting data:

On the Edit Table Rows panel (ETI$EDIT), use the **EXPORT** command to write a table's data to a flat file, which can then be used as input into programs such as Microsoft Excel or Microsoft Access that parse delimited files as input.

Before you begin

Before you use the **EXPORT** command on the Edit Table rows panel (ETI$EDIT), ensure that you specify a value in the **Print to file options** field on the DB2 Table Editor main menu panel (ETI$MAIN). For more information, see "The DB2 Table Editor ISPF main menu panel" on page 60.

About this task

To export table data:

Procedure

1. On the Edit Table rows panel (ETI$EDIT), specify `EXPORT` on the Command line and press Enter.

   If you specified `A` in the **Allocation** field on the DB2 Table Editor main menu panel (ETI$MAIN) to allow DB2 Table Editor to allocate the print file automatically (rather than manually providing the parameters), then data is written to the print file and a message appears to confirm that the data has been successfully exported to the specified data set. If you specified `M` to manually allocate your own print file (rather than allowing DB2 Table Editor to allocate it automatically), then the Data set allocation parameters panel (ETI$DSAP) is displayed.

```
ETI$DSAP
The following data set does not exist. Table Editor will create it for
you. Specify allocation parameters for new created data set.

Allocation parameters:
  Data set name  . . . . : DSNAME
  Management class . . . . _______  (Blank for default management class)
  Storage class  . . . . . _______  (Blank for default storage class)
    Volume serial  . . . . _______  (Blank for system default volume)
    Device type  . . . . . _______  (Generic unit or device address)
  Data class . . . . . . . _______  (Blank for default data class)
    Space units  . . . . . _______  (TRKS or CYLS)
    Primary quantity . . . _______  (In above units)
    Secondary quantity . . _______  (In above units)
    Record format  . . . . _______
    Record length  . . . . _______
    Block size . . . . . . _______

Press ENTER to use specified allocation parameters
Press F12 to use default allocation parameters
```

2. On the Data set allocation parameters panel (ETI$DSAP), define the following allocation parameters for the new data set.

Allocation parameter	Description
Management class	The SMS management class for the new data set.
Storage class	The SMS storage class for the new data set.
Volume serial	The volume serial number to use for the new data set creation. To let SMS select the volume on which to allocate the data set, leave this field blank.
Device type	The device type to use for the new data set creation. To let SMS select the device type on which to allocate the data set, leave this field blank.
Data class	The SMS data class (up to 8 alphanumeric characters) to use for the data set creation.
Space units	The allocation unit to be used when allocating the data set.
Primary quantity	The primary allocation quantity of space to use when allocating the data set. The unit of measure that you specify in the **Space units** field is used.
Secondary quantity	The secondary allocation quantity of space to use when allocating the data set. The unit of measure that you specify in the **Space units** field is used.
Record format	The record format to be stored in the data set. Valid values: F, V, U, M, A, S, B, D, FB, VB, FBS, or VBS.
Record length	The logical record length, in bytes, of the records to be stored in the data set.
Block size	The block size (physical record length), in bytes, of the blocks to be stored in the data set.

3. When you are finished, press Enter.

   Data is written to the print file, and a message appears to confirm that the data has been successfully exported to the specified data set.

When you view data in the output file, the column header information is contained in the first row of the file, as shown in the following figure. If you choose not to include column header information, then the table data begins at row 1.

```
 Menu  Utilities  Compilers  Help

BROWSE    SYSID.ETI1234.OUTPUT                        Line 00000000 Col 001 080
Command ===> ____________________________________________ Scroll ===> CSR
********************************************************************************
INSERTED(TIMESTAMP),ABPID(CHAR),USERID(CHAR),ENVIRONMENT(CHAR),SESSION(INTEGER),
2010-11-30-09.15.26.152068,DB2A,SYSID  ,M,1,SIGNON                        ,SUCC
2010-11-30-09.15.26.214946,DB2A,SYSID  ,M,1,SIGNOFF                       ,SUCC
2010-11-30-09.15.31.198670,DB2A,SYSID  ,U,2,SIGNON                        ,SUCC
2010-11-30-09.15.40.470779,DB2A,SYSID  ,U,2,SIGNOFF                       ,SUCC
2010-11-30-09.22.34.988635,DB2A,SYSID  ,M,3,SIGNON                        ,SUCC
2010-11-30-09.22.34.995850,DB2A,SYSID  ,M,3,SIGNOFF                       ,SUCC
2010-11-30-09.22.37.090469,DB2A,SYSID  ,U,4,SIGNON                        ,SUCC
2010-11-30-09.22.43.982567,DB2A,SYSID  ,U,4,SIGNOFF                       ,SUCC
****************************** Bottom of Data ******************************
```

After this file has been created, it can be used as input to other applications that can accept and parse delimited format data, such as Microsoft Excel or Microsoft Access.

Viewing history:
About this task

You can view all committed changes that have been made for a specified cell in a table on the History View panel (ETI$HIST). This panel displays versions of data (in the Data column) and the date these changes were made (in the Date Changed column). Data is sorted by the Date Changed column in descending order.

On the Edit Table Rows panel (ETI$EDIT), set the cursor in a cell and specify `HISTORY` on the Command line. Press Enter.

```
ETI$HIST                    History View                2016/03/30  10:32:23
Command ===> ____________________________________________ Scroll ===> PAGE

Creator  . : ETITST           >   Table  . . : ETI_RT_S_TIME               >
                                                          Row 1 of 28   +
Date Changed                     Data
------------------------------ -----------
2016-02-25-02.07.53.843436113000 13
2016-02-12-05.13.56.967538861000 13
2015-06-24-08.23.32.981565489000 12
2015-06-23-06.49.55.867934049000 11
2015-05-29-06.16.43.613392112000 11
2015-05-28-03.55.41.747829487000 11
2015-04-27-03.07.49.609515364000 11
```

Figure 24. History View panel (ETI$HIST)

Repeating rows: You can repeat one row or a range of rows using the Edit Table Rows (ETI$EDIT) panel.

- To repeat a row more than once, in an open table, specify `R` followed by the number of times that you want the row repeated, in the **Cmd** column of the row that you want to repeat. Press Enter. For example, `R5` would repeat a row five times. The changes that you have made will be committed in DB2 when you exit the table that you are editing.

- To repeat a range of rows, in an open table, specify RR in the **Cmd** columns of 2 rows: the row at the beginning, and the row at the end of the range of rows that you want to repeat. Press Enter. The changes that you have made will be committed in DB2 when you exit the table that you are editing.

Deleting rows: You can delete a row or many rows using the Edit Table Rows (ETI$EDIT) panel.

- To delete a row, in an open table, specify D in the **Cmd** column of the row that you want to delete. Press Enter. DB2 Table Editor marks the selected row for deletion. The row will appear in green. The delete will be committed to the database when you exit the table.
- To delete more than one row, in an open table, specify D followed by the number of rows that you want to delete in the **Cmd** column of the first row that you want to delete, and press Enter. For example, D5 would delete the row next to which you specified the command and the four following rows. DB2 Table Editor marks the selected rows for deletion. The rows will appear in green. The deletions will be committed in DB2 when you exit the table.
- To delete a range of rows, in an open table, specify DD in the **Cmd** column of two rows: the row at the beginning and the row at the end of the range of rows that you want to delete. Press Enter. DB2 Table Editor marks the selected rows for deletion. The rows will appear in green. The deletes will be committed to the database when you exit the table.

Copying rows:

You can copy rows using the C (Copy) command on the Edit Table Rows (ETI$EDIT) panel.

To copy a row:

1. Specify C in the **Cmd** column of the row that you want to copy.
2. Specify A in the **Cmd** column of the row after which you want the row to be inserted, or specify B in the **Cmd** column of the row before which you want the row to be inserted. Press Enter.

To copy a range of rows:

1. In an open table, specify CC in the **Cmd** column of two rows: the row at the beginning and the row at the end of the range of rows that you want to copy.
2. Specify A in the **Cmd** column of the row after which you want the rows to be inserted, or specify B in the **Cmd** column of the row before which you want the rows to be inserted. Press Enter.

Undoing an action: You can undo an action before it is committed. You can undo the deletion of a row before committing the delete to the database, remove an inserted row before the insert has been committed to the database, and undo changes that have been made.

- To undo an action, in an open table, specify U in the **Cmd** column of the row that contains the result of the action that you want to undo. For example, if you want to undo an insert, specify U in the **Cmd** column of the row that was inserted. Press Enter.
- To undo an action in more than one consecutive row, in an open table, specify U followed by the number of rows that you want to undo in the **Cmd** column of the first row. For example, U5 would undo the actions done to the row next to which you typed the command and the four following rows. Press Enter.

- To undo actions in a range of rows, in an open table, specify UU in the **Cmd** column of two rows: the row at the beginning and the row at the end of the range of rows where you want to undo actions. Press Enter.

Viewing and editing rows in form mode:

To view or edit a row in vertical format:

About this task

Procedure

1. On the Edit Table Rows panel (ETI$EDIT), specify the F line command next to a row and press Enter.

```
ETI$FORM                       Form View                  2016/03/24  21:00:00
Command ===> _____________________________________________  Scroll ===> PAGE

Commands: PROW    - Show previous row  NROW - Show next row
          HISTORY - View history

Creator . . : TEST         >  Table . . : 1Q                               >
                                                                 Row 1 of 25
Column Name Type       N Data
----------- ---------> - ---------
ID          SMALLINT   N 110
NAME        VARCHAR(9) N NGAN
DEPT        SMALLINT   N 15
JOB         CHAR(5)    N CLERK
YEARS       SMALLINT   N 5
SALARY      DECIMAL(7, N 12508.20
COMM        DECIMAL(7, N 206.60
****************************** Bottom of data ********************************
```

Figure 25. Column Editor panel (ETI$FORM)

2. On the Column Editor panel (ETI$FORM), you can use the following commands:

Command	Description
FIND or **CHANGE**	Specify FIND or CHANGE within the row that you are browsing or editing. FIND and CHANGE cannot be used to specify a column on this panel. For more information about these options, see "FIND command" on page 83.
NROW or **PROW**	To change the current table row, specify NROW to go down a row, or PROW to go up a row.
PF4	Use the PF4 zoom command in Form mode on column names to obtain column data. You can use PF4 directly on data. The N column is the NULL indicator column. Y is a NULL value. If N is present, the field must contain a value.

3. To save changes, press END/PF3.

   Note: While editing data in Form Mode, your changes will be sent to the Edit Table Rows panel unless you use the CANcel command.

Viewing or editing the generated SQL statement that is used to display table data

You can view and edit the SQL statement that DB2 Table Editor uses to display table data, and you can edit parts of the SQL statement.

About this task

The SQL statement is generated based on the criteria that you specify on the Select Columns panel (ETI$DPSC); for more information, see "Viewing or editing a table" on page 69. You can edit or add a WHERE clause to your SQL statement.

To view or edit the SQL statement:

Procedure

1. On the Select Columns panel (ETI$DPSC), specify SQL on the Command line and press Enter.

```
ETI$DSQL              Generated Select Statement          2016/03/24  21:15:38
Command ===> ____________________________________________  Scroll ===> PAGE

Commands: EDIT  - Edit result      BROWSE - Browse result
          SAVE  - Save to profile  LOAD   - Load from profile
          COUNT - Show rows count  RESET  - Reset to default
Line commands: I - Insert  R - Repeat  D - Delete  C - Copy  M - Move

Creator . . : TEST         >  Table . . : 1Q                                 >
                                                                 Row 1 of 10
Cmd Statement Text
--- ------------------------------------------------------------------------>
__  SELECT
__    "ID"
__    , "NAME"
__    , "DEPT"
__    , "JOB"
__    , "YEARS"
__    , "SALARY"
__    , "COMM"
__  FROM
__    "TEST"."1Q"
```

Figure 26. The Generated Select Statement panel (ETI$DSQL)

The Generated Select Statement panel (ETI$DSQL) displays the SQL statement that DB2 Table Editor generated from the criteria that you specified. You can view or edit the SQL on this panel.

The following fields are displayed on the Generated Select Statement panel (ETI$DSQL):

Field	Description
Creator	Displays the current creator name.
Table	Displays the current table name.

On this panel, you can specify the following commands:

Command	Description
EDIT	Specify this command to edit results.
BROWSE	Specify this command to browse results.
SAVE	Specify this command to save the statement to the statement profile.
LOAD	Specify this command to load the previous statement from the statement profile.
COUNT	Specify this command to show rows count.

Command	Description
RESET	Specify this command to reset the statement to default, generated from the criteria you specified on the Select Columns panel.
EXIT	Specify this command to save changes in the statement temporarily while working with the table.
CANCEL	Specify this command to discard current changes in the statement.

Line Command	Description
I	To insert a row, specify `I` in the Command column of the line that you want to insert.
R	To repeat a row, specify `R` in the Command column next to the line that you want to repeat.
D	To delete a row, specify `D` in the Command column of the line that you want to delete. To delete more than one row at a time, specify `D` in the Command column of the row that you want to delete, followed by the number of rows that you want to delete.
C	To copy a row, specify `C` in the Command column of the row that you want to copy. To copy a block of rows, specify `CC` in the Command columns of the first and last rows of the block. Then, specify `A` in the Command column of the row above which you want the row(s) to be inserted, or specify `B` in the Command column of the row below which you want the row(s) to be inserted.
M	To move a row, specify `M` in the Command column of the row that you want to move. To move a block of rows, specify `MM` in the Command columns of the first and last rows of the block. Then, specify `A` in the Command column of the row above which you want the row(s) to be inserted, or specify `B` in the Command column of the row below which you want the row(s) to be inserted.

2. When you are finished viewing or editing the SQL on the Generated Select Statement panel (ETI$DSQL), specify `EDIT` or `BROWSE` on the Command line and press Enter to apply changes, run the SQL, and edit the generated table.

   Note: If you use the `EDIT` or `BROWSE` command on the Select Columns panel (ETI$DPSC), your changes will not be applied to Generated Select Statement panel (ETI$DSQL).

FIND command

You can search a table using the **FIND** command:

After you use the **FIND** command, the cursor moves to the first value found. To find the next value, press F5.

Searching a table using the FIND command

You can search a table using the **FIND** command.

Procedure

On the Edit Table Rows (ETI$EDIT) panel, in an open table, specify FIND on the Command line followed by the text string that you want to find. If you are searching for a text string that includes spaces, enclose the string in single quotes. Press Enter.

Notes:

1. To search for a text string that contains spaces, enclose the text string in single quote marks.
2. The **FIND** command searches all data in a table; it does not search only currently fetched data (as it functioned in the previous version of DB2 Table Editor). As a result, using the **FIND** command on larger tables will take a considerable amount of time.

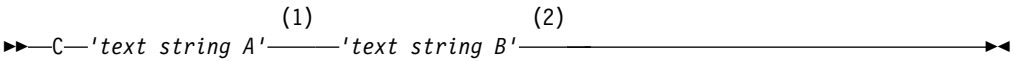
DB2 Table Editor moves the cursor to the first occurrence of the text you specified.

Tip: To find the next occurrence of the text that you specified, press PF5 or specify RFND on the Command line.

Searching a table and changing the contents of cells in the table

You can search a table and replace the contents of a cell using the **CHANGE** command.

On the Edit Table Rows (ETI$EDIT) panel, in an open table, specify CHANGE on the Command line:

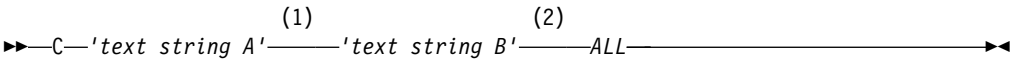


Notes:

1 Where text string A is the text for which you are searching.

2 Where text string B is the text that will replace text string A.

You can also change all occurrences of one text string to another text string by using the **CHANGE ALL** command. In an open table, specify CHANGE ALL on the Command line:



Notes:

1 Where text string A is the text for which you are searching.

2 Where text string B is the text that will replace text string A.

Note: Before using the **CHANGE ALL** command, you can exclude specific rows of data by using the **XX** block command. See "Excluding rows prior to using the CHANGE ALL command" on page 85 for more information.

Searching a table and changing the contents of a cell

Procedure

On the Edit Table Rows (ETI$EDIT) panel, in an open table, specify `C` on the Command line followed by the text that you want to change, followed by the text that you want to change it to. If either text string contains spaces, enclose the text string in single quotes.
For example, if you want to find the text "JENNIFER SMITH" and change it to "JENNIFER JONES", specify `C 'JENNIFER SMITH' 'JENNIFER JONES'` on the Command line. Press Enter.
DB2 Table Editor changes the first occurrence of the text that you specified and marks this row as `updated`.

Note: To find and change the next occurrence of the text that you specified, press PF6.

Searching a table and changing the contents of all cells that match the search criteria

Procedure

On the Edit Table Rows (ETI$EDIT) panel, in an open table, specify *C* on the Command line followed by the text that you want to change, followed by the text that you want to change it to, followed by `ALL`. If either text string contains spaces, enclose the text string in single quotes.
For example, if you want to find all of the instances of the text "4500" and change them to "5600", specify `C '4500' '5600' ALL` on the Command line. Press Enter.
DB2 Table Editor changes all of the occurrences of the first text string that you specified to the second text string that you specified, and marks all rows as `updated`.

Results

Note: If a match is found in a truncated cell (a cell that contains data that is too long to appear on the screen), the cursor will be positioned at the beginning of the row. You can edit the cell by using the **Expand** command.

Excluding rows prior to using the CHANGE ALL command

You can use the **XX** block command to exclude specific rows of data before using the **CHANGE ALL** command to change DB2 column data in a table.

About this task

Note: The **XX** block command is not intended for hiding a large number of rows; this will result in slow performance. For editing that requires the exclusion of a large number of rows prior to using the **CHANGE ALL** command, first issue an SQL request using the Where clause to filter rows; for more information, see "Viewing or editing the generated SQL statement that is used to display table data" on page 81.

Procedure

1. On the Edit Table Rows (ETI$EDIT) panel, in an open table, specify `X` or `XX` in the **Cmd** column next to any rows that you want to exclude, and press Enter.

A confirmation message is displayed, which indicates that the requested rows have been hidden. The rows that are displayed do not include the rows that were hidden.

2. Specify `CHANGE ALL` to edit the displayed rows.

   When you have saved your edits, you can use the **RESET** command to re-display the hidden data rows. A confirmation message is displayed, indicating that the hidden rows are now displayed.

Column display functions

The DB2 Table Editor CSETUP functionality enables you to:

- Rearrange report columns horizontally using the **CFIX** and **CORDER** commands.
- Change the width of individual columns using the **CSIZE** command.
- Control the vertical ordering of columns using the **CSORT** command.
- Hide columns using the **CHIDE** command.

The customizations, or "views" you configure using **CFIX**, **CORDER**, **CSIZE**, and **CSORT** can be saved across sessions.

Tip: DB2 Table Editor displays Column labels when they are available; otherwise, column names are displayed.

Accessing the CSETUP primary option menu

Procedure

1. On any dynamic display (for example, the Edit Table Rows panel, the Select Columns panel, or the Log Display panel), specify `CSETUP` (or `CSET`) on the Option line and press Enter.

```
ETI$SET                 Setup Primary Option Menu         2016/03/16  14:36:51
Command ===> ____________________________________________________  Temporary View

1  CFIX        Select columns to be fixed on the left side of the report
2  CORDER      Modify the horizontal placement of columns
3  CSIZE       Customize the size of columns
4  CSORT       Select columns to sort
5  CHIDE       Select columns to be hidden
6  CRESET      Reset column values
7  PVIEW       Permanent view (toggle between temporary and permanent)


HELP           Setup Tutorial
```

Figure 27. The Setup Primary Option Menu panel (ETI$SET)

From the Setup Primary Option Menu panel (ETI$SET), you can access the various CSETUP options and configure column display functions according to your display needs.

On this panel, you can use the following Line Commands:

Line Command	Description
1 CFIX	Fix and unfix columns.
2 CORDER	Reposition columns.
3 CSIZE	Change the displayed width of columns.
4 CSORT	Select one or more columns for sorting and thus modify the order of the rows displayed.

Line Command	Description
5 CHIDE	Select columns to be hidden.
6 CRESET	Reset all customizations.
7 PVIEW	Toggle between permanent view and temporary view.

2. Specify the number corresponding to the option that you want to access on the Command line and press Enter.

   Note: You can also directly invoke each CSETUP option; specify the corresponding command (for example, `CFIX`, `CORDER`, `CSIZE`, `CSORT`, `CHIDE`, or `PVIEW`) on the Command line on any dynamic display, and press Enter.

Fixing a column

The **CFIX** command enables you to fix and unfix columns. A fixed column is always located at the far left side of the display. It does not shift horizontally (as unfixed columns do) when scrolling to the left or right. Certain columns might be permanently fixed in the report and cannot be unfixed. Such a column has a fix status of P (permanently fixed). A column cannot be fixed if it is larger than the available display area. There are also restrictions for fixing columns related to the size requirements of other columns.

Procedure

1. On any display panel, specify `CFIX` on the Option line, and press Enter.

```
ETI$FIX                  Define Fixed Columns           2016/03/16  14:41:07
Option ===>_____________________________________________________ Scroll ===> PAGE
Line commands: F - Fix  U - Unfix

Column function . . . 1 (1-Fix/Unfix, 2-Order, 3-Size, 4-Sort, 5-Hide/Unhide)
Permanent view  . . . N (Y-Perm, N-Temp)     Reset view . . N (Y/N)

Scroll area width . : 79
Old fixed width . . : 4      Old unfixed width . : 75
New fixed width . . :        New unfixed width . :
                                                              Row 1 of 3

Cmd New Old Len Hide Column_Name
--- --- --- --- ---- ------------------------------------------------------->
__  P   P     4      Cmd
__              5      SSID
__             45      Description
****************************** Bottom of data ********************************
```

Figure 28. Define Fixed Columns panel (ETI$FIX)

On the Define Fixed Columns panel (ETI$FIX), specify information in the following fields:

Field	Description
Column function	Enables you to jump to any of the CSET functions by specifying the appropriate number. The number corresponding to the current option displays in this field.
Permanent view	Indicates whether or not the view you define is permanent or temporary. Specify `Y` if customizations are permanent, or `N` if customizations are temporary.
Reset view	Resets all customizations.
Scroll area width	Shows the current display device size (screen width).

Field	Description
Old fixed width	Shows the sum of the FIXED column widths prior to any changes in the current CFIX panel.
Old unfixed width	Shows the UNFIXED area prior to any changes in the current CFIX panel. (The Old unfixed width equals the Scroll area width minus the Old fixed width).
New fixed width	Shows the sum of the FIXED column widths that will result if the FIXUNFIX changes are saved.
New unfixed width	Shows the UNFIXED area that will result if the FIXUNFIX changes are saved. (The New unfixed width equals the Scroll area width minus the New fixed width).
Cmd	Use this field to specify line commands. Valid line commands are `F` (Fix) and `U` (Unfix).
New	Displays the new CFIX view settings.
Old	Displays the previous CFIX view settings.
Len	Displays the length of the column.
Hide	Displays hidden columns.
Column Name	Displays the name of the column.

On this panel, you can use the following Line Commands:

Line Command	Description
F	Specify `F` in the **Cmd** field next to the column(s) you want to fix. Press Enter. `F` is displayed in the **New** field next to the corresponding column(s).
U	Specify `U` in the **Cmd** field next to the column(s) you want to unfix. Press Enter. `U` is displayed in the **New** field next to the corresponding column(s).
END	Exit this panel.

2. Specify `F` in the **Cmd** field next to column(s) you want to fix, or specify `U` in the **Cmd** field next to column(s) you want to unfix. Press Enter. The changed values display in the **New** column next to the corresponding column(s).
3. Press PF3 to save changes and return to the display panel.

Repositioning columns

About this task

The **CORDER** command enables you to reposition report columns. You can specify a number next to the column to specify its column position.

If any columns are fixed, they are grouped together as the leftmost report columns. The unfixed columns are grouped together to the right of any fixed columns. The **CORDER** command does not move a column out of its group. A fixed column cannot be relocated to the right of an unfixed column. Likewise, an unfixed column cannot be relocated to the left of a fixed column.

Procedure

1. Specify `CORDER` on the Option line on any display panel, and press Enter.

```
ETI$ORD                Define Column Display Order        2016/03/16  14:52:40
Option ===> ____________________________________________________ Scroll ===> PAGE

Line commands: Specify number for column position

Column function  . 2 (1-Fix/Unfix, 2-Order, 3-Size, 4-Sort, 5-Hide/Unhide)
Permanent view . . N (Y-Perm, N-Temp)     Reset view . . N (Y/N)
                                                          Row 1 of 3

Cmd Fix New Old Hide Column_Name
--- --- --- --- ---- ------------------------------------------------------->
__  P         1      Cmd
__            2      SSID
__            3      Description
****************************** Bottom of data ********************************
```

Figure 29. Define Column Display Order panel (ETI$ORD)

On the Define Column Display Order panel (ETI$ORD), specify information in the following fields:

Field	Description
Column function	Enables you to jump to any of the CSET functions by specifying the appropriate number. The number corresponding to the current option displays in this field.
Permanent view	Indicates whether or not the view you define is permanent or temporary. CSETUP customization refers to the changes made in the CSETUP functions CFIX, CORDER, CSIZE, and CSORT. Specify `Y` if customizations are permanent, or `N` if customizations are temporary.
Reset view	Resets all customizations.
Cmd	Specify the number for the column position.
Fix	If this column contains a P, the column is permanent. It can be reordered within a group of permanent columns, but cannot be moved outside a group of permanent columns.
New	Displays the new CORDER view settings.
Old	Displays the previous CORDER view settings.
Hide	Displays hidden columns.
Column Name	Displays the name of the column.

On this panel, you can use the following commands:

Command	Description
n	Specify a number in the **Cmd** field next to the column(s) you want to reorder, and press Enter.
END	Specify `END` on the Option line to exit this panel.

2. Specify a number in the **Cmd** field next to a column to specify its order, and press Enter. The new column order numbers display in the **New** column next to each column.
3. Press PF3 to return to the display panel.

Resizing columns

About this task

The **CSIZE** command enables you to change the displayed width of columns. This function is primarily intended for non-numeric data where there are large blank

areas in all (or most) rows in a given column. Although the displayed width can change, the underlying data does not change.

If the size of a column is less than the column maximum, some data might not be displayed. You can use the **CEXPAND** command to see data outside the display range of the resized column.

Note: If the minimum and maximum column widths are equal, the column cannot be resized.

Procedure

1. On any display panel, specify `CSIZE` on the Option line and press Enter.

```
ETI$SIZ                    Define Column Size            2016/03/16  15:00:48
Option ===> ____________________________________________________ Scroll ===> PAGE

Line commands: Column size, between MIN and MAX

Column function . . . 3 (1-Fix/Unfix, 2-Order, 3-Size, 4-Sort, 5-Hide/Unhide)
Permanent view  . . . N (Y-Perm, N-Temp)     Reset view . . N (Y/N)

Scroll area Width . : 79
Old fixed width . . : 4      Old unfixed width . : 75
New fixed width . . :        New unfixed width . :
                                                              Row 1 of 3

Cmd Fix New Old Min Max Hide Column_Name
--- --- --- --- --- --- ---- ------------------------------------------------>
__  P     4   4   4   4      Cmd
__        5   5   5   5      SSID
__       45  45  45  45      Description
****************************** Bottom of data ********************************
```

Figure 30. Define Column size panel (ETI$SIZ)

On the Define Column size panel (ETI$SIZ), specify information in the following fields:

Field	Description
Column function	Enables you to jump to any of the CSET functions by specifying the appropriate number. The number corresponding to the current option displays in this field.
Permanent view	Indicates whether or not the view you define is permanent or temporary. CSETUP customization refers to the changes made in the CSETUP functions **CFIX**, **CORDER**, **CSIZE**, and **CSORT**. Specify `Y` if customizations are permanent, or `N` if customizations are temporary.
Reset view	Resets all customizations.
Scroll area width	Displays the current display size of the scroll area.
Old fixed width	Displays the sum of the FIXED column widths.
Old unfixed width	Displays the UNFIXED area prior to any changes in the current CSIZE panel. (The Old unfixed width equals the Scroll area width minus the Old fixed width).
New fixed width	Displays the sum of the FIXED column widths that will result if the FIXUNFIX changes are saved.
New unfixed width	Shows the UNFIXED area that will result if the FIXUNFIX changes are saved. (The New unfixed width equals the Scroll area width minus the New fixed width).
Cmd	Specify the size for the column position.

Field	Description
Fix	Displays fixed columns.
New	Displays the new CSIZE view settings.
Old	Displays the previous CSIZE view settings.
Min	Displays the minimum column length. If the minimum and maximum column widths are equal, the column cannot be resized.
Max	Displays the maximum column length. If the minimum and maximum column widths are equal, the column cannot be resized.
Hide	Displays hidden columns.
Column Name	Displays the name of the column.

On this panel, you can use the following commands:

Command	Description
n	Specify the new column size in the **Cmd** field next to the column(s) you want to resize, and press Enter.
END	Specify END on the Option line to exit this panel.

2. Specify the desired column size in the **Cmd** field next to the column you want to resize, and press Enter. The new view settings display in the **New** column.

   Note: The column size you specify must be between the **Min** and **Max** values shown for that column.
3. Press PF3 to return to the display panel.

Sort rows and columns

You can sort the rows and columns that appear in DB2 Table Editor. There are two commands that can be used to sort rows and columns.

Command	Description
SORT	Using the **SORT** command, you can sort on single or multiple columns and specify sort order (ascending or descending) for each column in the sort.
CSORT	Using the **CSORT** command, you can select one or more columns for sorting and thus modify the order of the rows that are displayed on many of the DB2 Table Editor product panels. Columns are selected by sort priority and direction. Direction is either ascending (default) or descending. When more than one column is selected for sorting, the second column only differentiates when rows have matching data in the first column. Similarly, a third column only impacts the sort when data in both the first two columns are identical. A maximum of nine columns can be selected for sorting at one time. Internal requirements may create a smaller maximum. A message is issued if the maximum number of columns selected for sorting is exceeded.

SORT command

The SORT command is a primary (fastpath) command. You can sort on a single or multiple columns. You can also specify sort order (ascending or descending) for each column in the sort.

You can sort on any report panel: specify the appropriate SORT syntax in the Option line of any report panel and press Enter.

Single-column sorting

The syntax for single-column sorting is:

```
SORT column_identifier dir
```

Where *column_identifier* is the column number, and *dir* is the direction in which to sort the column data. Valid values for *dir* are:

- a - (default) sorts data in ascending order
- d – sorts data in descending order

When you are working with the sort command:

- There must be a space between the *column_identifier* and its *dir* (if used).
- The relative column number for a column is determined based on the column's placement when visible on the screen. Thus, relative column numbers are only available for columns currently visible on the screen. Relative column numbers are determined by counting the displayed columns from left to right, with the leftmost visible column being assigned the number '1' and each successive column (reading left to right) being assigned a relative column number in increments of 1.

Multi-column sorting

The syntax for multi-column sorting is:

```
SORT column_identifier dir column_identifier dir
```

Where *column_identifier* is the column number, and *dir* is the direction in which to sort the column data. Valid values for *dir* are:

- a - (default) sorts data in ascending order
- d – sorts data in descending order

When you are sorting on multiple columns, *column_identifier* and *dir* values must all be separated by spaces. The maximum number of columns that can be sorted at a time is 9.

Sorting using the CSORT command

The **CSORT** command enables you to modify the order of the rows displayed on many DB2 Table Editor product panels by selecting one or more columns for sorting.

Procedure

1. Specify `CSORT` on the Option line on any display panel and press Enter.

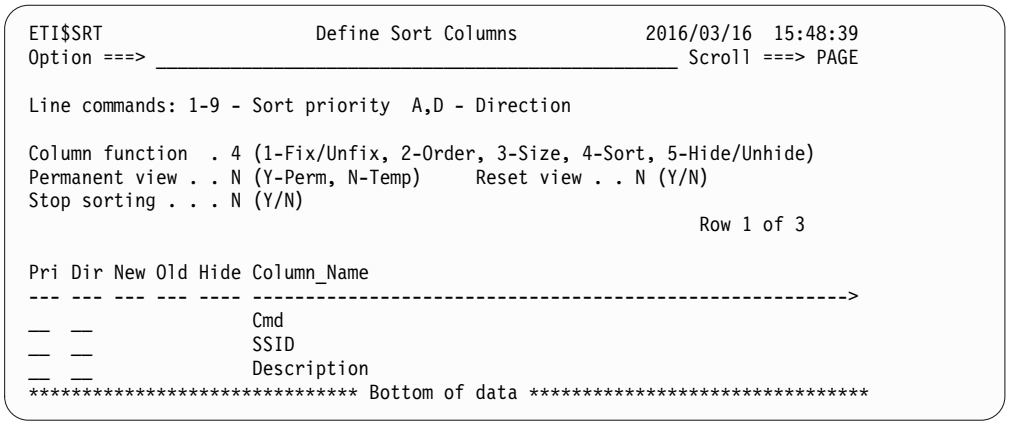


Figure 31. Define Sort Columns panel (ETI$SRT)

On the Define Sort Columns panel (ETI$SRT), specify information in the following fields:

Field	Description
Column function	Enables you to jump to any of the CSET functions by specifying the appropriate number. The number corresponding to the current option displays in this field.
Permanent view	Indicates whether or not the view you define is permanent or temporary. Specify `Y` if customizations are permanent, or `N` if customizations are temporary.
Reset view	Resets all customizations.
Stop sorting	Indicates whether or not to stop sorting as specified. Valid values are `Y` to stop sorting, or `N` to continue sorting.
Pri	Indicates the sort priority of the column. You can specify a value from `1` to `9`, with the value of `1` having the highest priority.
Dir	Indicates the lexicographic order for the column. Specify `A` to indicate that values are listed in ascending order, smallest to largest. Specify `D` to indicate that values are listed in descending order, largest to smallest.
New	Displays the new CSORT view settings.
Old	Displays the previous CSORT view settings.
Hide	Displays hidden columns.
Column Name	Displays the name of the column.

On this panel, you can use the following Commands:

Command	Description
1 - 9	Specify a number from `1` to `9` in the **Pri** field next to the column(s) that you want to sort. This number is the sort priority; for example, specify `1` in the column that you want to sort on first, and then specify `2` in the column to sort on second.
A,D	Specify `A` in the **Dir** field next to column(s) that you want to sort in ascending order. Specify `D` to sort in descending order. If this is not specified, the default is ascending.
END	Specify `END` on the Option line to exit this panel.

2. Specify A or D in the **Cmd** field next to the columns on which you want to base your sort, and press Enter. The new sort preferences are displayed in the **New** column.
3. Press PF3 to return to the display panel.

Hiding columns

About this task

The **CHIDE** command enables you to hide one or more columns from the display. Certain columns might be permanently fixed in the report and cannot be hidden. Such a column has a fix status of P (permanently fixed).

Procedure

1. Specify CHIDE on the Option line on any display panel and press Enter.

```
ETI$HID                   Define Hidden Columns          2016/03/16  15:55:02
Option ===> ____________________________________________ Scroll ===> PAGE

Line commands: H - Hide  U - Unhide

Column function  . 5 (1-Fix/Unfix, 2-Order, 3-Size, 4-Sort, 5-Hide/Unhide)
Permanent view . . N (Y-Perm, N-Temp)     Reset view . . N (Y/N)
                                                          Row 1 of 3

Cmd Fix New Old Column_Name
--- --- --- --- ------------------------------------------------------------->
__  P           Cmd
__              SSID
__              Description
****************************** Bottom of data ********************************
```

Figure 32. Define Hidden Columns panel (ETI$HID)

2. On the Define Hidden Columns panel (ETI$HID), specify information in the following fields:

Field	Description
Column function	Enables you to jump to any of the CSET functions by specifying the appropriate number. The number corresponding to the current option displays in this field.
Permanent view	Indicates whether or not the view you define is permanent or temporary. Specify Y if customizations are permanent, or N if customizations are temporary.
Reset view	Resets all customizations.
Cmd	Specify line commands in this column.
Fix	Displays fixed columns. If this column contains a P, the column is permanent and cannot be hidden.
New	Displays the new CHIDE view settings.
Old	Displays the previous CHIDE view settings.
Column Name	Displays the name of the column.

On this panel, you can use the following commands:

Command	Description
H	Specify H in the **Cmd** field next to the column(s) you want to hide.

Command	Description
U	Specify U in the **Cmd** field next to a previously hidden column to unhide it.
END	Specify END on the Option line and press Enter to exit this panel. The new view settings display in the **New** column.

3. Press PF3 to return to the display panel.

Resetting CSET customizations

The **CRESET** command enables you to reset all customizations. After you specify the **CRESET** command, all fixed columns are unfixed (except for any permanently fixed columns); all selected sort columns are deselected and sorting is disabled; all column sizes are set to the initial values or maximum values if no suggested value previously existed; and original column locations are restored. You can specify the **CRESET** command from the Setup Primary Option Menu (option 6) or issued as a primary command.

CSET restrictions

The following restrictions apply to **CSET** command options:

- Total fixed column sizes cannot exceed panel width.
- Total fixed column sizes must leave enough unfixed space for the minimum allowed size for all unfixed columns. If a column is not eligible for resizing, the column's minimum size requirement is the same as its maximum size. Minimum and maximum sizes for all columns are shown in the CSIZE display.
- If a column has been resized, then its current width is treated as its smallest allowable size. When a column is resized, its current size must fit on the panel completely. For example, on an 80-byte panel with no fixed columns, a 128-byte column can only be resized to 80 bytes or less (assuming no conflicting minimum size is associated with the column). If there were two 10-byte fixed columns, for a total fixed area size of 20-bytes, the 128-byte column would be limited to 60 bytes or its minimum allowed size, whichever was smaller.

The use of color in DB2 Table Editor ISPF interface

Color is used in DB2 Table Editor to indicate the state of rows and columns as outlined in the following table (called The use of color in DB2 Table Editor):

Table 12. The use of color in DB2 Table Editor

Color	Meaning
Yellow	Indicates a primary key column header.
White	The value cannot be edited.

Data type abbreviations that are used in the DB2 Table Editor ISPF interface

To save space in DB2 Table Editor, abbreviations are used to represent data types.

The following table (Data types and their corresponding abbreviations as used in DB2 Table Editor) contains the abbreviations and the long names for all of the data types used in DB2 Table Editor.

Table 13. Data types and their corresponding abbreviations as used in DB2 Table Editor

Data Type	Abbreviation
INTEGER	INT
SMALLINT	SMA
CHAR	CHR
DECIMAL	DEC
FLOAT	FLT
VARCHAR	VCH
LONGVAR	LVC
GRAPHIC	GRA
VARGRAPHIC	VGR
LONGVARG	LVG
DATE	DTE
TIME	TME
TIMESTAMP	TST
BLOB	BLB
CLOB	CLB
DBCLOB	DBC
ROWID	ROW
DISTINCT	DST
BIGINT	BIG
TIMESTZ	TSZ
DECFLOAT	DFL

DB2 Table Editor ISPF interface line commands

The following table (DB2 Table Editor Commands) lists and describes all of the line commands that can be used in the DB2 Table Editor ISPF interface.

Table 14. DB2 Table Editor Commands

Command	Function	Panel where available
EX &CLIST (ETIV45)	To start DB2 Table Editor, run CLIST ETIV45.	N/A
ABOUT	To display the IBM copyright notice, specify ABOUT on the Command line. This information is also displayed when you start the product the first time.	All panels
PF3	To return to the previous screen and save work, press PF3.	main menu panel (ETI$MAIN)
INCLUDE ALL	To select and renumber all columns, specify INCLUDE ALL on the Command line. The **Select** column will be renumbered. If two or more columns have the same number, the order in which they appear on the screen will prevail.	Select Columns panel (ETI$DPSC)

Table 14. DB2 Table Editor Commands (continued)

Command	Function	Panel where available
EXCLUDE ALL	To have all columns excluded from the generated table, specify EXCLUDE ALL on the Command line. An empty value will appear in the **Select** column next to all rows.	Select Columns panel (ETI$DPSC)
E	Specify E on the Command line to edit the table in the Edit Table Rows panel.	Select Columns panel (ETI$DPSC) and Generated Select Statement panel (ETI$DSQL)
B	Specify B on the Command line to browse the table in the Edit Table Rows panel.	Select Columns panel (ETI$DPSC) and Generated Select Statement panel (ETI$DSQL)
F	Specify F on the Command line of the row that you want to edit in the Edit Table Rows panel to edit the row in form format.	Edit Table Rows panel (ETI$EDIT)
SQL	Specify SQL on the Command line of the Select Columns panel to open the Generated Select Statement panel. From this panel you can edit the SQL.	Select Columns panel (ETI$DPSC)
SAVE	• Specify SAVE on the Command line of the Select Columns panel or the Generated Select Statement panel to save your SQL for future use. • Specify SAVE on the Command line of the Edit Table Rows panel to save the changes that you have made to the table that you are editing.	Select Columns panel (ETI$DPSC), Edit Table Rows panel (ETI$EDIT), and Generated Select Statement panel (ETI$DSQL)
LOAD	Specify LOAD on the Command line of the Select Columns panel or the Generated Select Statement panel to load SQL that you have previously saved.	Select Columns panel (ETI$DPSC), and Generated Select Statement panel (ETI$DSQL)
COUNT	Specify COUNT on the Command line to display a pop-up box indicating the number of rows that will be returned by your SQL statement. Or, specify C on the line next to a table to count rows on the Table Selection panel (ETI$DPTB).	Select Columns panel (ETI$DPSC), Generated Select Statement panel (ETI$DSQL), and Table Selection panel (ETI$DPTB)
EXPAND, PF4	To view or edit the entire contents of a long cell, and additional information about the cell, specify EXPAND on the Command line or press PF4. For more information on using this command, see "Editing a long cell" on page 75.	Edit Table Rows panel (ETI$EDIT), and Browse Table Rows panel (ETI$BRWS)
HEX ON	In the Column Editor Panel, to edit a row with a hex editor, specify HEX ON or HEX on the Command line.	Column Editor panel (ETI$EXPL)
HEX OFF	In the Column Editor Panel, to turn the hex editor off, specify HEX OFF on the Command line.	Column Editor panel (ETI$EXPL)

Table 14. DB2 Table Editor Commands (continued)

Command	Function	Panel where available
I	To insert a new row into the table that you are editing, specify I in the **Cmd** column of the row below which you want to insert a new row. For more information on using this command, see "Inserting a blank row" on page 76.	Edit Table Rows panel (ETI$EDIT), and Generated Select Statement panel (ETI$DSQL)
I<nn>	To insert more than one row into the table that you are editing, specify I, followed by the number of new rows that you want to insert in the **Cmd** column of the row below which you want the new rows to appear.	Edit Table Rows panel (ETI$EDIT) and Generated Select Statement panel (ETI$DSQL)
R	To repeat a row, specify R in the **Cmd** column of the row that you want to repeat.	Edit Table Rows panel (ETI$EDIT) and Generated Select Statement panel (ETI$DSQL)
R<nn>	To insert a repeated row more than once, specify R in the **Cmd** column of the row that you want to repeat, followed by the number of times that you want to repeat that row.	Edit Table Rows panel (ETI$EDIT) and Generated Select Statement panel (ETI$DSQL)
RR	To repeat a range of rows between two specified rows, specify RR in the **Cmd** columns of two different rows.	Edit Table Rows panel (ETI$EDIT) and Generated Select Statement panel (ETI$DSQL)
C	To copy a row, specify C in the **Cmd** column of the row that you want to copy, then specify A in the **Cmd** column of the row after which you want the row to be inserted, or, specify B in the **Cmd** column of the row before which you want the row to be inserted.	Edit Table Rows panel (ETI$EDIT) and Generated Select Statement panel (ETI$DSQL)
CC	To copy all rows between two specified rows, specify CC in the **Cmd** columns of two different rows, then specify A in the **Cmd** column of the row after which you want the rows to be inserted, or, specify B in the **Cmd** column of the row before which you want the rows to be inserted.	Edit Table Rows panel (ETI$EDIT) and Generated Select Statement panel (ETI$DSQL)
D	To delete a row, specify D in the **Cmd** column of the row that you want to delete. For more information on using this command, see "Deleting rows" on page 80.	Edit Table Rows panel (ETI$EDIT) and Generated Select Statement panel (ETI$DSQL)
D<nn>	To delete more than one row, specify D in the **Cmd** column of the row that you want to delete, followed by the number of rows that you want to delete.	Edit Table Rows panel (ETI$EDIT) and Generated Select Statement panel (ETI$DSQL)
DD	To delete all rows between two specified rows, specify DD in the **Cmd** columns of two different rows to delete the range of rows in between those two rows.	Edit Table Rows panel (ETI$EDIT) and Generated Select Statement panel (ETI$DSQL)

Table 14. DB2 Table Editor Commands (continued)

Command	Function	Panel where available
U	To undo an action previously performed on a row, specify U in the **Cmd** column. For more information on using this command, see "Undoing an action" on page 80.	Edit Table Rows panel (ETI$EDIT)
U<nn>	Specify U in the **Cmd** column of the row for which you want to undo an action, followed by the number of rows for which you want to undo actions.	Edit Table Rows panel (ETI$EDIT)
UU	Specify UU in the **Cmd** columns of two different rows to undo the previous actions for the range of rows in between those two rows.	Edit Table Rows panel (ETI$EDIT)
FIND <text string>	Specify F followed by the text that you want to search for, enclosed in quotes followed by a keyword. For more information on using this command, see "Searching a table using the FIND command" on page 83.	All panels
PF5	To find the next occurrence of the text string that you were searching for using the **FIND** command, press PF5.	All panels
C or CHANGE <text string> <new text string<	To change one text string to a new value, specify C or CHANGE followed by the text string that you want to replace, followed by the text string that you want to replace it with. For more information on using this command, see "Searching a table and changing the contents of cells in the table" on page 84.	Edit Table Rows panel (ETI$EDIT), Generated Select Statement panel (ETI$DSQL), Form View panel (ETI$FORM), and Column Editor panel (ETI$EXPL)
PF6	To change the next occurrence of the text string that you were searching for using the **Change** command, press PF6.	Edit Table Rows panel (ETI$EDIT), or Form View panel (ETI$FORM)
C or CHANGE <text string> <new text string> ALL	To change all matching text strings to a new value, specify C or CHANGE followed by the text string that you want to replace, followed by the text string that you want to replace it with. For more information on using this command, see "Searching a table and changing the contents of all cells that match the search criteria" on page 85.	Edit Table Rows panel (ETI$EDIT), Generated Select Statement panel (ETI$DSQL), Form View panel (ETI$FORM), and Column Editor panel (ETI$EXPL)
CANcel	Specify CANcel on the Command line to exit panels without committing the changes that were made.	Edit Table Rows panel (ETI$EDIT), Generated Select Statement panel (ETI$DSQL), Form View panel (ETI$FORM), and Column Editor panel (ETI$EXPL)
EXPORT (EXP)	Specify EXPORT (or EXP) on the Option line of the Edit Table Rows panel or the Browse Table Rows panel to write a table's data to a flat file, which can then be used as input into programs such as Microsoft Excel or Microsoft Access that parse delimited files as input.	Edit Table Rows panel (ETI$EDIT), and Browse Table Rows panel (ETI$BRWS)

Table 14. DB2 Table Editor Commands (continued)

Command	Function	Panel where available
HISTORY	Specify HISTORY on the Option line to view data history.	Edit Table Rows panel (ETI$EDIT), Form View panel (ETI$FORM), and Browse Table Rows panel (ETI$BRWS)
RESET	Specify RESET on the Generated Select Statement panel (ETI$DSQL) to reset the statement to default (generated from the criteria you specified on the Select Columns panel); or on the Edit Table Rows panel (ETI$EDIT) to show hidden rows.	Generated Select Statement panel (ETI$DSQL), or Edit Table Rows panel (ETI$EDIT)
X	To hide a row, specify X in the **Cmd** column of the row that you want to hide.	Edit Table Rows panel (ETI$EDIT)
XX	To hide all rows between two specified rows, specify XX in the **Cmd** columns of two different rows to hide the range of rows in between those two rows.	Edit Table Rows panel (ETI$EDIT)
M (Move)	To move a row, specify M in the **Cmd** column of the row that you want to move, then specify A in the **Cmd** column of the row after which you want the row to be moved; or, specify B in the **Cmd** column of the row before which you want the row to be moved.	Generated Select Statement panel (ETI$DSQL)
CREATE	Specify CREATE on the Command line to create a new DB2 subsystem entry.	DB2 Subsystems panel (ETI$SSLS)
CLEAR	Specify CLEAR on the Command line to clear search criteria.	Log Display panel (ETI$LOG)
DISPLAY MEPL	Specify DISPLAY MEPL on the Command line to invoke the Build Display MEPL JCL panel (ETI$MEPL).	main menu panel (ETI$MAIN)
PROW and **NROW**	Specify NROW to go down a row, or specify PROW to go up a row.	Form View panel (ETI$FORM)
CNUM	Specify CNUM to see column numbers.	Edit Table Rows panel (ETI$EDIT), and Browse Table Rows panel (ETI$BRWS)

Chapter 5. Troubleshooting

Use these topics to diagnose and correct problems that you experience with DB2 Table Editor and with Tools Customizer.

Recovery procedures

Recovery procedures have been developed for a few common DB2 Table Editor problems.

Recovering from disk failure

You can recover from a disk hardware failure that results in the loss of an entire unit.

Symptoms

No I/O activity occurs for the affected disk address. Databases and tables that reside on the affected unit are unavailable.

Resolving the problem

Operator response:

1. Ensure that no incomplete I/O requests exist for the failing device. One way to do this is to force the volume offline by issuing the following z/OS command, where *xxx* is the unit address:

   ```
   VARY xxx,OFFLINE,FORCE
   ```

   To check disk status, issue the following command:

   ```
   D U,DASD,ONLINE
   ```

   The following console message is displayed after you force a volume offline:

   ```
   UNIT  TYPE  STATUS   VOLSER  VOLSTATE
   4B1   3390  O-BOX    XTRA02  PRIV/RSDNT
   ```

   The disk unit is now available for service.

   If you previously set the I/O timing interval for the device class, the I/O timing facility terminates all requests that are incomplete at the end of the specified time interval, and you can proceed to the next step without varying the volume offline. You can set the I/O timing interval either through the IECIOSxx z/OS parameter library member or by issuing the following z/OS command:

   ```
   SETIOS MIH,DEV=devnum,IOTIMING=mm:ss.
   ```

2. Issue (or request that an authorized operator issue) the following DB2 command to stop all databases and table spaces that reside on the affected volume:

   ```
   -STOP DATABASE(database-name) SPACENAM(space-name)
   ```

   If the disk unit must be disconnected for repair, stop all databases and table spaces on all volumes in the disk unit.

3. Select a spare disk pack, and use ICKDSF to initialize from scratch a disk unit with a different unit address (*yyy*) and the same volume serial number (VOLSER).

```
// Job
//ICKDSF   EXEC PGM=ICKDSF
//SYSPRINT DD   SYSOUT=*
//SYSIN    DD   *
       REVAL UNITADDRESS(yyy) VERIFY(volser)
```

If you initialize a 3380 or 3390 volume, use REVAL with the VERIFY parameter to ensure that you initialize the intended volume, or to revalidate the home address of the volume and record 0. Alternatively, use ISMF to initialize the disk unit.

4. Issue the following z/OS console command, where *yyy* is the new unit address:

   ```
   VARY yyy,ONLINE
   ```

5. To check disk status, issue the following command:

   ```
   D U,DASD,ONLINE
   ```

   The following console message is displayed:

   ```
   UNIT  TYPE  STATUS   VOLSER  VOLSTATE
   7D4   3390  O        XTRA02  PRIV/RSDNT
   ```

6. Issue the following DB2 command to start all the appropriate databases and table spaces that were previously stopped:

   ```
   -START DATABASE(database-name) SPACENAM(space-name)
   ```

7. Delete all table spaces (VSAM linear data sets) from the ICF catalog by issuing the following access method services command for each one of them, where *y* is either I or J:

   ```
   DELETE catnam.DSNDBC.dbname.tsname.y0001.A00x CLUSTER NOSCRATCH
   ```

8. For user-managed table spaces, define the VSAM cluster and data components for the new volume by issuing the access method services DEFINE CLUSTER command with the same data set name as in the previous step, in the following format: *catnam*.DSNDBC.*dbname.tsname.y*0001.A00*x*. The *y* is I or J, and the *x* is C (for VSAM clusters) or D (for VSAM data components).
9. For a user-defined table space, define the new data set before an attempt to recover it. You can recover table spaces that are defined in storage groups without prior definition.
10. Recover the table spaces by using the DB2 RECOVER utility.

Recovering from subsystem termination

You can recover DB2 Table Editor after DB2 Table Editor or an operator-issued cancel causes the subsystem to terminate.

Symptoms

When an DB2 Table Editor subsystem terminates, the specific failure is identified in one or more messages. The following messages might be issued at the z/OS console:

```
DSNV086E - DB2 ABNORMAL TERMINATION REASON=XXXXXXXX
DSN3104I - DSN3EC00 -TERMINATION COMPLETE
DSN3100I - DSN3EC00 - SUBSYSTEM ssnm READY FOR -START COMMAND
```

The following message might be issued to the IMS master terminal:

```
DSNM002I   IMS/TM xxxx DISCONNECTED FROM SUBSYSTEM
     yyyy RC=rc
```

The following message might be issued to the CICS® transient data error destination, which is defined in the RDO:

```
DSNC2025I  - THE ATTACHMENT FACILITY IS INACTIVE
```

Environment

- IMS and CICS continue.
- In-process IMS and CICS applications receive SQLCODE -923 (SQLSTATE '57015') when accessing DB2.

  In most cases, if an IMS or CICS application program is running when a -923 SQLCODE is returned, an abend occurs. This is because the application program generally terminates when it receives a -923 SQLCODE. To terminate, some synchronization processing occurs (such as a commit). If DB2 is not operational when synchronization processing is attempted by an application program, the application program abends. In-process applications can abend with an abend code X'04F'.
- IMS applications that begin to run after subsystem termination begins are handled according to the error options.
  - For option R, SQL return code -923 is sent to the application, and IMS pseudo abends.
  - For option Q, the message is enqueued again, and the transaction abends.
  - For option A, the message is discarded, and the transaction abends.
- CICS applications that begin to run after subsystem termination begins are handled as follows:
  - If the CICS attachment facility has not terminated, the application receives a -923 SQLCODE.
  - If the CICS attachment facility has terminated, the application abends (code AEY9).

Resolving the problem

Operator response:

1. Restart DB2 Table Editor by issuing the START command.
2. For IMS environments, reestablish the IMS connection by issuing the IMS command /START SUBSYS DB2.
3. For CICS environments, reestablish the CICS connection by issuing the CICS attachment facility command DSNC STRT.

Determining the trace data set name

You will need to identify the name of the trace data set if you cannot allocate the trace data set, the trace data set runs out of space, or IBM Software Support asks for it.

The name of the trace data set depends on the prefix setting in the TSO profile. To identify the name of the trace data set, you must know the prefix setting.

- If PREFIX is set, the name of the trace data set is *prefix*.CCQ.TRACE, where *prefix* is the TSO prefix that you specified in the profile.
- If NOPREFIX is set, the name of the trace data set is *user_ID*.CCQ.TRACE, where *user_ID* is your TSO user ID.

DB2 Table Editor troubleshooting

This section contains information on problems that can occur while using DB2 Table Editor.

Double quotes around column and field names in DB2 Table Editor forms

Symptom

When designing a form using the DB2 Table Editor application tools, certain field labels or column names might contain double-quotes, while others might not.

Cause The presence of double-quotes in a column or field indicates that the column or field has the same name as a DB2 reserved word or keyword. Double quotes are applied to column names that are the same as DB2 reserved words or keywords by DB2 Table Editor.

Action

Double-quotes are used as a visual indicator by the DB2 Table Editor application to show that these labels or columns are named the same name as a DB2 Reserved Word. The DB2 database allows any such keywords to be used as ordinary identifiers, except in a context where they could also be interpreted as SQL keywords. In such cases, the word must be specified as a delimited identifier, with double-quotes used as the delimiter. DB2 Table Editor automatically supplies these delimiters within the wizards and screens used to build forms, and in the SQL and other code it generates when communicating with the DB2 database server.

For a list of DB2 Reserved words or keywords, refer to the DB2 Information Center.

Messages

Use the information in these messages to help you diagnose and solve DB2 Table Editor problems.

Message format

DB2 Table Editor messages adhere to the following format:

`ETI`*`nnnx`*

where:

ETI Indicates that the message was issued by DB2 Table Editor

nnn Indicates the message identification number

x Indicates the severity of the message:

- **E** Indicates that an error occurred, which might or might not require operator intervention.
- **I** Indicates that the message is informational only.
- **W** Indicates that the message is a warning to alert you to a possible error condition.

Each message also includes the following information:

Explanation:

The Explanation section explains what the message text means, why it occurred, and what its variables represent.

User response:
The User response section describes whether a response is necessary, what the appropriate response is, and how the response will affect the system or program.

DB2 Table Editor ISPF interface messages

These topics provide the messages and error codes that DB2 Table Editor issues for ISPF.

ETI001I **'IBM* ROCKET** 'Licensed Materials - Property of IBM '5697-G65 'Copyright IBM Corp. 2016 All Rights Reserved. 'Copyright Rocket Software, Inc. 2001-2016 All Rights Reserved. '*Trademark of International Business Machines '**Trademark of Rocket Software, Inc. '**

Explanation: This is an informational message detailing the copyrights for DB2 Table Editor.

User response: None required.

ETI002E **Insufficient region size. Available region size of at least 40000 is required.**

Explanation: The available region size is not large enough to work with the product.

User response: Contact your system administrator to increase the region size to at least 40000.

ETI003E **Not enough memory. Close other applications and try again or contact your system administrator to increase the region size.**

Explanation: There is not enough memory available to perform this function.

User response: Close other open applications and try again, or contact your system administrator to increase the region size.

ETI005E **The command** *command* **entered in the Command or Option line is not valid for this panel. Reenter a valid command.**

Explanation: For a list of valid commands on this panel, press F1 to view the associated online help panel.

User response: Specify a valid command on this panel to continue.

ETI006E **Load entry point** *entry name* **failed. RC=***return code***. Reason=***reason code***.**

Explanation: An error occurred while loading the product function *entry name* using standard LOAD macro.

User response: For an explanation of the error codes, see the documentation for the routine. If you are unable to determine the reason for the failure from the associated z/OS messages, contact IBM Software Support.

ETI010E **File tailoring OPEN failed: file tailoring already in progress condition.**

Explanation: An attempt to perform file tailoring failed because a file tailoring session was already in progress. File tailoring sessions cannot be performed concurrently.

User response: Contact IBM Software Support. Ensure that you have available the listing that contains this message.

ETI011E **File tailoring CLOSE returned a file not open condition -- severe error.**

Explanation: An attempt to perform file tailoring failed because a File-Not-Open condition was encountered on close.

User response: Verify that all required files are allocated and accessible, and that no other tailoring sessions are running concurrently with your session.

ETI012E **Skeleton file** *name* **does not exist.**

Explanation: An attempt to perform file tailoring failed because the tailoring process could not locate a required tailoring skeleton.

User response: Verify that all required files are allocated to perform file tailoring.

ETI013E **An error was encountered while opening skeleton file** *name* **for read:** *error message***.**

Explanation: An attempt to perform the file opening for read failed. The reason is specified in *error message*

User response: If you cannot determine the reason for the failure from the associated z/OS messages, contact IBM Software Support. Ensure that you have available the listing that contains these messages.

ETI014E **ISPF table** *name* **is in use by another user or the current user.**

Explanation: The ISPTLIB and ISPTABL DDs are in use. Only temporary views will be available.

User response: Review the ISPTLIB and ISPTABL allocations. For information about ISPTLIB and ISPTABL, see the ISPF user guides for your version of ISPF. If you cannot determine the reason for this message, contact IBM Software Support. Ensure that you have available the listing that contains this message.

ETI015E **ISPF table input library was not allocated.**

Explanation: The ISPTLIB and ISPTABL DDs have not been allocated. Only temporary views will be available.

User response: Review the ISPTLIB and ISPTABL allocations. For information about ISPTLIB and ISPTABL, see the ISPF user guides for your version of ISPF. If you cannot determine the reason for this message, contact IBM Software Support. Ensure that you have available the listing that contains this message.

ETI016E **Opening ISPF table** *name* **failed: severe error occurred. RC=20.**

Explanation: The TBOPEN command was issued to open an existing VIEW, but the command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBOPEN.

ETI017E **Creating ISPF table** *name* **failed. RC=***return code***.**

Explanation: The TBCREATE command was issued to create a VIEW, but it failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBCREATE.

ETI018E **Closing ISPF table** *name* **failed. RC=***return code***.**

Explanation: The TBCLOSE command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBCLOSE.

ETI019E **Erasing ISPF table** *name* **failed. RC=***return code***.**

Explanation: The TBERASE command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBERASE.

ETI020E **Moving to next row in ISPF table** *name* **failed. RC=***return code***.**

Explanation: The TBSKIP command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBSKIP.

ETI021E **Deleting a row in ISPF table** *name* **failed. RC=***return code***.**

Explanation: The TBDELETE command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBDELETE.

ETI022E **Modifying a row in ISPF table** *name* **failed. RC=***return code***.**

Explanation: The TBMOD command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBMOD.

ETI023E **Retrieving a row from ISPF table** *name* **failed. RC=***return code***.**

Explanation: The TBGET command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBGET.

ETI024E **The line command cannot be within a block command.**

Explanation: There was a command conflict. The line command cannot be within the range of the block command.

User response: Remove the conflicting line command

that is inside the command block.

ETI025E Block line command is incomplete.

Explanation: Only one part of the block command was specified.

User response: Specify a matching block command to complete the block command pair.

ETI101E ISPF error: &ZERRLM

Explanation: An ISPF error occurred and caused the displayed message to be generated.

User response: Correct the error and retry. If necessary, review the ISPF documentation to determine the cause of the error.

ETI102E An invalid command was entered in the Command or Option line.

Explanation: The command you specified is not valid. Valid commands are listed on the panel.

User response: Specify a valid command.

ETI103E Enter a valid line command as listed at the top of the panel.

Explanation: The command you specified is not valid. Valid line commands are listed at the top of the panel.

User response: Specify a valid line command.

ETI104E An invalid option was entered. Enter a valid option.

Explanation: The specified option is not valid in the field.

User response: Specify a valid option.

ETI105E An invalid value was entered.

Explanation: The specified value is not valid in the field.

User response: Specify a valid value in the field.

ETI106I Move is pending. Enter A(After) or B(Before).

Explanation: The M(Move) line command was specified, but an A(After) or B(Before) command was not specified.

User response: Specify the A(After) or B(Before) line command to move the object after or before the position at which the M(Move) line command is issued.

ETI107E Element was not found.

Explanation: The specified element was not found.

User response: Verify the element name and reenter it.

ETI108I No element was selected from the list.

Explanation: At least one element must be selected from the list.

User response: Select one or more elements.

ETI501E Invalid fetch limit. Enter the maximum number of rows to fetch for your browse/edit session.

Explanation: The specified value is not valid.

User response: Specify the number of rows that you want to fetch at a time while you are browsing or editing.

ETI502E Invalid max char display. Enter a value from 1 to 32768.

Explanation: Character and variable character data types cannot exceed 32,768 characters.

User response: Specify a value from 1 to 32768 for the number of characters to be displayed for CHAR and VARCHAR data types.

ETI503E Invalid lock table value. Valid values are SHARED, EXCLUSIVE, or NO.

Explanation: The specified value in the field is not valid.

User response: Enter SHARED to lock the table in shared mode, EXCLUSIVE to lock the table in exclusive mode, or NO to bypass locking the table during your edit session.

ETI504E Invalid skip locked data. Valid values are YES or NO.

Explanation: The value that was specified in the field is not valid.

User response: Specify YES to enable the ability to skip locked rows when encountered, or NO to wait on locked rows.

ETI505E Invalid NULL default value. Valid values are YES or NO.

Explanation: The value that was specified in the field is not valid.

User response: Specify YES to have empty cells filled with nulls when you insert a blank row. Specify NO to have empty cells left empty when you insert a blank row.

ETI506E **Invalid use default values. Valid values are YES or NO.**

Explanation: The specified value in the field is not valid.

User response: Specify YES to have NOT NULL columns filled with values depending on the data types of the columns. Specify NO to leave cells empty.

ETI510E **Invalid display hidden columns. Valid values are YES or NO.**

Explanation: The specified value in the field is not valid.

User response: Specify YES to display hidden columns, or NO to hide hidden columns.

ETI511E **Invalid show column labels. Valid values are YES or NO.**

Explanation: The specified value in the field is not valid.

User response: Specify YES to display column labels, where present, or NO to hide column labels.

ETI513E **Invalid save options. Valid values are YES or NO.**

Explanation: The specified value in the field is not valid.

User response: Specify YES to save options on this screen in your ISPF profile, or NO to bypass saving options.

ETI514E **Invalid column headers. Valid values are YES or NO.**

Explanation: The specified value in the field is not valid.

User response: Specify YES to put column names and data types in the print file, or NO if you do not want them in the print file.

ETI515E **Invalid allocation. Valid values are AUTOMATIC or MANUAL.**

Explanation: The specified value in the field is not valid.

User response: Specify AUTOMATIC to have an automatically created print file with DSORG PS, RECFM V, and LRECL 32756 DCB parameters, or MANUAL to have the data set allocation parameter panel shown on EXPORT command.

ETI516E **Connection program load modules (DSNALI, DSNHLI2, DSNWLI2, DSNTIAR) were not found in specified load libraries for DB2 subsystem.**

Explanation: The listed load modules were not found in the specified load libraries. The load library usually consists of a subsystem-specific DSNEXIT library, and the base DSNEXIT library and base DSNLOAD library for the current DB2 version.

User response: Specify the data set that comprises the current load library concatenation for DB2 and is used during batch job processing. To do this, use the DB2 Subsystems panel and use line command `E` (Edit).

ETI517E **Invalid data set name for Display MEPL Utility JCL:** *data set name***.**

Explanation: The specified MVS™ data set name is not valid.

User response: Specify a valid MVS data set name. The product will use it to generate Display MEPL Utility JCL.

ETI518E **Invalid member name for Display MEPL Utility JCL:** *member name***.**

Explanation: The specified MVS member name is not valid.

User response: Specify the valid MVS member name of the partitioned data set that the product will use to put generated Display MEPL Utility JCL.

ETI519E **Data set name for Display MEPL Utility JCL is required. Enter a valid data set name.**

Explanation: The required field is empty.

User response: Specify the valid MVS data set name that the product will use to put generated Display MEPL Utility JCL. If the data set does not exist, the Allocate New Data Set panel will be displayed.

ETI520E **Member name for Display MEPL Utility JCL is required. Enter a valid member name.**

Explanation: If the data set that is to hold the generated job is a PDS, you must specify a valid member name for the job output. If the member does not exist, the product will create it.

User response: Specify a valid PDS member name.

ETI521E Member name is allowed only for partitioned data set.

Explanation: If the data set to hold the generated job is a PDS, specify a member name. If the member does not exist, the product will create it.

User response: Remove the member name, or specify a partitioned data set.

ETI522I Display MEPL JCL was built successfully.

Explanation: The generated utility JCL was successfully submitted to the internal reader.

User response: No action is required.

ETI523E An error occurred while building MEPL JCL file: *error message***.**

Explanation: The product cannot open the file for JCL generation.

User response: Ensure that the file for JCL generation exists, and that you have the proper authority to write to it.

ETI524E Invalid space units. Valid values are TRKS or CYLS.

Explanation: The specified space units value is not valid.

User response: Specify TRKS or CYLS.

ETI525E Invalid primary quantity. Specify a numeric value.

Explanation: The field requires a numeric value.

User response: Specify a numeric value.

ETI526E Invalid secondary quantity. Specify a numeric value.

Explanation: The field requires a numeric value.

User response: Specify a numeric value.

ETI527E Invalid block size. Specify a numeric value.

Explanation: The field requires a numeric value.

User response: Specify a numeric value.

ETI528E Specified device type could not be found in MVS. Enter another device type.

Explanation: The specified device type could not be found in MVS.

User response: Specify another device type.

ETI529E Invalid record format. Valid values are F, V, U, M, A, S, B, D, FB, VB, FBS, or VBS.

Explanation: The specified value is not valid.

User response: Specify a valid value.

ETI530E Invalid record length. Specify a numeric value.

Explanation: The field requires a numeric value.

User response: Specify a numeric value.

ETI531E Control file *name* **does not exist.**

Explanation: The base PDS is not a DB2 control file HLQ.

User response: Ensure that the DB2CNTFL variable specified for the DB2 control file in ETICLIST is correct. If you are unable to resolve the problem, contact IBM Software Support.

ETI532E The *name* **data set could not be found in the MVS catalog.**

Explanation: You must specify a fully qualified data set name without quotation marks.

User response: Specify a valid data set name.

ETI533E DB2 subsystem ID is required. Enter a valid DB2 SSID.

Explanation: You must specify a DB2 subsystem ID. You can specify a question mark (?) in the field to open a list of existing subsystems from which to choose.

User response: Choose or specify a valid DB2 SSID.

ETI534E DB2 subsystem ID is invalid. Enter a valid DB2 SSID.

Explanation: You must specify a DB2 subsystem ID. You can specify a question mark (?) in the field to open a list of existing subsystems from which to choose.

User response: Choose or specify a valid DB2 SSID value.

ETI535E DB2 subsystem ID already exists. Enter another DB2 SSID to create.

Explanation: The specified DB2 subsystem is already defined in the program.

User response: Specify another valid value for the DB2 SSID.

ETI536E **Plan name is required. Enter a valid DB2 plan.**

Explanation: You must specify the product plan to be used when connecting to the DB2 catalog. The value can contain up to 8 alphanumeric characters.

User response: Specify a valid plan name.

ETI537E **Plan name is invalid. Enter a valid DB2 plan.**

Explanation: You must specify the product plan to be used when connecting to the DB2 catalog. The value can contain up to 8 alphanumeric characters.

User response: Specify a valid plan name.

ETI538I **No entries match the entered like criteria.**

Explanation: This message is informational.

User response: Specify valid like criteria in the **Creator** or **Table** fields. Ensure that only the characters that you specify exist in the field by scrolling or expanding the field to view the entire contents of the field. To view all characters in a scrollable field, use the **EXPAND** command or press PF4.

ETI542E **DB2 Loadlib is a required field. Enter the full DSN of the DB2 load library data set.**

Explanation: You must specify the full name of the data set that comprises the current load library concatenation for DB2; up to 47 alphanumeric characters.

User response: Specify the load library data set name.

ETI543E **DB2 Release *number* is not supported by this version of the product.**

Explanation: The product requires DB2 10 NFM or later.

User response: Select a DB2 subsystem with a supported DB2 version.

ETI544I **No DB2 subsystem was defined in the DB2 control file.**

Explanation: A DB2 subsystem must be defined in the DB2 control file.

User response: Specify a DB2 subsystem in the control file.

ETI545I **Operation completed successfully.**

Explanation: This is an informational message.

User response: No action is required.

ETI546I **DB2 subsystem *SSID* was successfully selected.**

Explanation: The specified DB2 subsystem was successfully selected.

User response: No action is required.

ETI547E **Failed to obtain DB2 version.**

Explanation: An error occurred while obtaining the DB2 version.

User response: Rebind the specified DB2 plan and try again.

ETI548E **Row count compare sign you specified in the search criteria is invalid. Valid values are EQ, NE, GT, LT, or blank.**

Explanation: An invalid character was specified in the Row count compare sign field in search criteria. Valid characters are EQ, NE, GT, LT, or blank.

User response: Specify a valid value in this field, or issue the CLEAR command.

ETI549E **Row count value in search criteria is invalid. Value must be numeric or blank.**

Explanation: An invalid character was specified in the Row count field in search criteria. Valid characters are numeric.

User response: Specify a valid numeric value, or issue the CLEAR command.

ETI550E **Action value in search criteria is invalid. Valid values are U, D, I, E, B, or blank.**

Explanation: An invalid character was specified in the Action field in search criteria. Valid values are U, D, I, E, B, or blank.

User response: Specify a valid value, or issue the CLEAR command.

ETI551E **Select position value is invalid. Valid value must be numeric or blank.**

Explanation: The select position must be a numeric value, or blank.

User response: Specify a numeric value for the select position, or leave this field blank.

ETI552E **Order by value is invalid. Valid value must be numeric or blank. Enter a valid number to sort the column.**

Explanation: The order by value must be numeric.

User response: Specify a numeric value in the order by field.

ETI553E **Column type size value is invalid. Valid values are LONG or SHORT.**

Explanation: Valid values are LONG or SHORT.

User response: Specify LONG to indicate a long data type, or SHORT to indicate a short data type.

ETI554E **Where clause compound value is invalid. Valid values are AND or OR.**

Explanation: The specified value is not valid.

User response: Specify AND to use the AND operand between columns in the where clause. Specify OR to use the OR operand.

ETI555E **Column type size value is invalid. Valid values are LONG or SHORT.**

Explanation: The specified value is not valid.

User response: Specify LONG to indicate a long data type. Specify SHORT to indicate a short data type.

ETI556E **Omit business time columns value is invalid. Valid values are YES or NO.**

Explanation: The specified value is not valid.

User response: Specify YES to omit business time columns, or NO to display business time columns.

ETI557E **You must choose at least one column to proceed.**

Explanation: A column must be selected in order to edit data.

User response: Select a column to edit.

ETI558I **Table profile was saved successfully.**

Explanation: This is an informational message.

User response: No action is required.

ETI559I **Table profile was loaded successfully.**

Explanation: This is an informational message.

User response: No action is required.

ETI560I **Statement was saved to table profile successfully.**

Explanation: This is an informational message.

User response: No action is required.

ETI561I **Saved statement was found in table profile.**

Explanation: This is an informational message.

User response: No action is required.

ETI562I **Statement was loaded from table profile successfully.**

Explanation: This is an informational message.

User response: No action is required.

ETI563I **Statement was reset to Select Columns panel settings successfully.**

Explanation: This is an informational message.

User response: No action is required.

ETI565E **Invalid NULL value. Valid values are YES or NO.**

Explanation: The specified value is not valid.

User response: Specify YES for NULL value, or NO if the column value will not be NULL.

ETI566W **BROWSE substituted because the result set for the SQL request is read only.**

Explanation: This message is informational. For more information about why your result set is read only, see the IBM DB2 SQL Reference document.

User response: No action is required.

ETI567E **Export file name is empty.**

Explanation: An empty value was specified for Print to file function.

User response: Specify the file name on the User Settings panel or as EXPORT command parameter.

ETI568E **An error occurred while opening file for export:** *error message*.

Explanation: An attempt to perform the file opening for write failed. The reason is specified in *error message*.

User response: If you cannot determine the reason for the failure from the associated z/OS messages, contact IBM Software Support. Have available the listing that contains these messages.

ETI569E **An error occurred while writing data to file for export:** *error message*.

Explanation: An attempt to perform the writing to the file failed. The reason is specified in *error message*.

User response: If you cannot determine the reason for the failure from the associated z/OS messages, contact IBM Software Support. Have available the listing that contains these messages.

ETI570I **Data has been successfully exported to file** *name*.

Explanation: DB2 Table Editor has successfully exported the data to the output file. This message is informational.

User response: No action is required.

ETI571W **Inserted row cannot be hidden.**

Explanation: Newly inserted rows cannot be hidden. You can only hide existing rows in the DB2 table.

User response: Save inserted rows before attempting to hide them.

ETI572I **No changes were made since last COMMIT.**

Explanation: No changes were made to the data. This is an informational message.

User response: No action is required.

ETI573E **It is not possible to perform a lock operation on a system table.**

Explanation: DB2 Table Editor cannot lock a system table.

User response: Turn off locking or select a different table.

ETI574E **It is not possible to perform a lock operation because the result set for the SQL request is read only.**

Explanation: For more information about why your result set is read only, see the IBM DB2 SQL Reference document.

User response: Turn off locking or change the SQL request.

ETI575E **It is not possible to perform a lock operation on a temporary table, view, or alias.**

Explanation: The selected table is a temporary table, view, or alias and therefore cannot be locked.

User response: Turn off locking or select a different table.

ETI576E **The insert command is disabled. You have chosen to exclude at least one column of data that is necessary to allow insert.**

Explanation: The insert command is currently disabled because one or more columns of data that is needed to perform an insert has been excluded.

User response: Ensure that no necessary data columns are excluded.

ETI577I **Logging is not in effect.**

Explanation: The ability to log table activity is not enabled.

User response: Reconfigure DB2 Table Editor for use with logging.

ETI578I **No rows to display.**

Explanation: The query that you ran did not return any data. If no data is returned, then there is nothing to edit or browse.

User response: If you want to insert data, use the INSERT command on the Edit Table Rows panel.

ETI579I **History is not available.**

Explanation: No history data was found for the data that you selected. This can be caused by a missing DB2 versioning table, or because no matching data is found in the DB2 versioning table.

User response: If one does not already exist, create a versioning table for the DB2 table that is being browsed or edited.

ETI580E **Cursor must be in a valid cell for the** *command name* **command.**

Explanation: The cursor is not positioned in a data cell. The *command name* command requires a data cell position. A data cell is a cell of the table that contains data fetched from the DB2 table.

User response: Place the cursor on a data cell and issue the command again.

ETI581E **No columns required for versioning found in the table.**

Explanation: DB2 versioning requires SYSTEM TIME period columns and the TRANSACTION START ID column. There is no such column in the table. The History command does not work for the table.

User response: Choose another table.

ETI582I **The beginning of the data has been reached.**

Explanation: You have reached the beginning of the data. This is an informational message.

User response: No action is required.

ETI583I **The end of the data has been reached.**

Explanation: You have reached the end of the data. This is an informational message.

User response: No action is required.

ETI584I **Reset successful. Hidden rows displayed.**

Explanation: This is an informational message.

User response: No action is required.

ETI585I **Hide command successful;** *count* **rows not displayed.**

Explanation: You have reached the end of the data. This is an informational message.

User response: No action is required.

ETI586W **BROWSE substituted because a table with the maximum number of columns was specified.**

Explanation: BROWSE mode was substituted for EDIT mode because a table with the maximum number of columns was specified. This message is informational.

User response: No action is required.

ETI700E **An error occurred while opening the DB2 load libraries: RC =** *return code***.**

Explanation: The product encountered the error with the specified return code while opening the DB2 load library data sets.

User response: Ensure that the load library data sets that are specified on the DB2 Subsystem Parameters panel exist, and that you have the proper authority to read them.

ETI701E **An error occurred while attaching the DB2 attachment facility subtask: RC =** *return code***.**

Explanation: The product encountered the error with the specified return code while attaching the DB2 attachment facility subtask.

User response: See the DB2 for z/OS Codes guide for information about the return code.

ETI703S **The DB2 attachment facility subtask ended unexpectedly: RC =** *return code***.**

Explanation: The product encountered the error with the specified return code.

User response: Ensure that the DB2 subsystem is active.

ETI704E **The specified user ID and password are invalid.**

Explanation: A valid user ID and password are required to establish a connection to the DB2 subsystem.

User response: Specify a valid user ID and password.

ETI705E **The specified password for user ID has expired.**

Explanation: A valid user ID and password are required to establish a connection to the DB2 subsystem.

User response: Contact your system administrator for a valid password.

ETI706E **Access for the specified user ID has been revoked.**

Explanation: A valid user ID and password with proper authority are required to establish a connection to the DB2 subsystem.

User response: Ensure that you have the proper authority to connect to the DB2 subsystem.

ETI707E **An error occurred while performing authentication: SAF RC =** *return code***, RC =** *return code***, RSN =** *reason code***.**

Explanation: You must have the proper authority to access the DB2 subsystem.

User response: Ensure that you have the proper authority. See the z/OS Security Server RACF® Callable Services guide for information about the codes.

ETI708E **An invalid dynamic allocation parameter was specified: code =** *code***.**

Explanation: The DD allocation for the DB2 load library data set failed.

User response: If you cannot determine the reason for the failure, contact IBM Software Support. Have available the listing that contains this message.

ETI709E **A dynamic allocation error occurred: info code = *code*, error code = *code*.**

Explanation: The product encountered an error with the specified codes.

User response: See z/OS MVS Programming Authorized Assembler Services Guide for information about the codes. If unable to determine the cause of the error, contact IBM Software Support. Have available the listing that contains this message.

ETI710E **Dynamic allocation query error occurred: info code = *code*, error code = *code*.**

Explanation: The product encountered an error with the specified codes.

User response: See z/OS MVS Programming Authorized Assembler Services Guide for information about the codes. If unable to determine the cause of the error, contact IBM Software Support. Have available the listing that contains this message.

ETI711E **Dynamic free error occurred: info code = *code*, error code = *code*.**

Explanation: The product encountered an error with the specified codes.

User response: See z/OS MVS Programming Authorized Assembler Services Guide for information about the codes. If unable to determine the cause of the error, contact IBM Software Support. Have available the listing that contains this message.

ETI712E **Dynamic concatenation error occurred: info code = *code*, error code = *code*.**

Explanation: The product encountered an error with the specified code.

User response: See z/OS MVS Programming Authorized Assembler Services Guide for information about the codes. If unable to determine the cause of the error, contact IBM Software Support. Have available the listing that contains this message.

ETI713E **SQL error occurred: SQL code = *code*, SQL state = *code*.**

Explanation: The product encountered an error with the specified codes.

User response: See DB2 for z/OS Codes for information about the codes. If unable to determine the cause of the error, contact IBM Software Support. Have available the listing that contains this message.

ETI714E **SQL error occurred: error code=*code*.**

Explanation: The product encountered an error with the specified code.

User response: See DB2 for z/OS Messages for information about the code. If unable to determine the cause of the error, contact IBM Software Support. Have available the listing that contains this message.

ETI715S **DB2 attachment facility error occurred: function = *code*, RC = *code*, reason = *code*.**

Explanation: The product encountered an error with the specified codes.

User response: See DB2 for z/OS Application Programming and SQL Guide for information about the codes. If unable to determine the cause of the error, contact IBM Software Support. Have available the listing that contains this message.

ETI716E **Input DB2 command is too long.**

Explanation: The DB2 command failed because the command is not valid.

User response: If unable to determine the reason for the failure, contact IBM Software Support. Have available the listing that contains this message.

ETI717E **Error occurred while making an IFI call.**

Explanation: The product encountered an error while making the DB2 request that is described in the message.

User response: See DB2 for z/OS Codes for information about the codes. If unable to determine the cause of the error, contact IBM Software Support. Have available the listing that contains this message.

ETI810E **Invalid CNUM parameter. Valid values are ON, OFF, and blank.**

Explanation: CNUM was issued with a parameter that is not valid. Issuing CNUM with no parameter acts as an ON/OFF toggle. ON and OFF are the only parameters that are accepted. ON turns the CNUM display on. OFF turns the CNUM display off.

User response: Use a valid CNUM parameter (ON, OFF, or blank).

ETI811E **Invalid COLS parameter. Valid values are ON, OFF, and blank.**

Explanation: COLS was issued with a parameter that is not valid. Issuing COLS with no parameters acts as an ON/OFF toggle. ON and OFF are the only parameters that are accepted.

User response: Specify a valid value for the COLS

parameter. COLS ON turns the COLS display on, and COLS OFF turns the COLS display off.

ETI812I The FIND command requires a match string.

Explanation: No parameters were specified with the FIND command. A match string must be specified.

User response: Specify FIND parameters.

ETI813E The RFIND key can only be used after a FIND character string is entered.

Explanation: A repeat FIND (RFIND) command was issued before the FIND command was issued. You must issue FIND before RFIND.

User response: Issue FIND before attempting to issue RFIND.

ETI814E An unknown column *column* was specified.

Explanation: The product does not recognize the column that was specified with the SORT command.

User response: Verify that you correctly typed the name of the column, or select another column.

ETI815E SORT is not supported for the specified column.

Explanation: The column that you attempted to SORT is not supported as a column on which to sort.

User response: See the Define Sort Columns panel for a list of valid columns on which the sort can be based, and redefine the sort.

ETI816E Max Sort Columns exceeded. Sorting first 9 columns.

Explanation: More columns were selected for sorting than are supported. Nine columns can be sorted at a time. Under certain circumstances, the limit is less than nine, due to internal constraints.

User response: Specify an allowable maximum number of sort columns.

ETI817E Invalid column selection. Set cursor to valid column.

Explanation: A column that was selected is not valid.

User response: Move the cursor to a valid column.

ETI818E Invalid command parameters.

Explanation: The specified command parameters are not valid.

User response: Correct the command input and resubmit.

ETI819E Invalid location for moved column. The source column cannot be moved to the new position.

Explanation: The source column cannot be moved to the new position.

User response: Correct the command input and resubmit.

ETI820E Not enough space for scrolling unfixed columns.

Explanation: The screen has insufficient space for some unfixed columns.

User response: Leave enough space for unfixed columns on the right side of the panel.

ETI821E Operation not valid for specified column.

Explanation: The specified operation is not valid.

User response: Specify a valid operation.

ETI822E Fixed columns cannot be hidden.

Explanation: An attempt was made to hide a fixed column, but fixed columns cannot be hidden.

User response: Either make a selected column unfixed, or select another column to hide.

ETI823E Invalid value entered for column size: non-numeric data.

Explanation: The specified Cmd value is not valid. The column size value must be a number between the values in the MIN and MAX fields.

User response: Either remove the current number, or specify a valid value.

ETI824E Invalid value entered for column size: out of range.

Explanation: The specified Cmd value is not valid. The column size value must be a number between the values in the MIN and MAX fields. MIN is the smallest acceptable value, and MAX is the largest acceptable value.

User response: Either remove the current number, or specify a valid value.

ETI825E SIZE is not supported for the specified column.

Explanation: An attempt was made to change the size of a column, but SIZE is not supported for that column.

User response: You can change the size of another column in which the minimum and maximum sizes are not equal.

ETI870E TBCREATE failed. RC=*return code*.

Explanation: The TBCREATE command was issued to create a VIEW, but it failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBCREATE.

ETI871E TBOPEN failed. RC=*return code*.

Explanation: The TBOPEN command was issued to open an existing VIEW, but the command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBOPEN.

ETI872E TBCLOSE failed. RC=*return code*.

Explanation: The TBCLOSE command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBCLOSE.

ETI873E TBDELETE failed. RC=*return code*.

Explanation: The TBDELETE command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBDELETE.

ETI874E TBMOD failed. RC=*return code*.

Explanation: The TBMOD command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBMOD.

ETI875E TBGET failed. RC=*return code*.

Explanation: The TBGET command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBGET.

ETI876E View Table is in use.

Explanation: The ISPTLIB and ISPTABL DDs are in use. Only temporary views are available.

User response: Review ISPTLIB and ISPTABLE allocations. For information about ISPTLIB and ISPTABL, see the ISPF user guides for your version of ISPF. If you cannot determine the reason for this message, contact IBM Software Support. Have available the listing that contains this message.

ETI877E View Library not allocated.

Explanation: The ISPTLIB and ISPTABL DDs have not been allocated. Only temporary views are available.

User response: Review ISPTLIB and ISPTABLE allocations. For information about ISPTLIB and ISPTABL, see the ISPF user guides for your version of ISPF. If you cannot determine the reason for this message, contact IBM Software Support. Have available the listing that contains this message.

ETI878E TBTOP failed. RC=*return code*.

Explanation: The TBTOP command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBTOP.

ETI879E TBSKIP failed. RC=*return code*.

Explanation: The TBSKIP command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBSKIP.

ETI940E Invalid selection character. Valid values are "F" and "U".

Explanation: The specified Cmd character is not valid. Valid characters are F (FIX) and U (UNFIX).

User response: Either remove the current character or specify a valid value.

ETI941E Column move failed - invalid location.

Explanation: An attempt to move a column was made, but the attempt failed because the new location is not valid. The new column number cannot be greater than the number of columns.

User response: Specify a column number that is less than the number of columns.

ETI942E Invalid column size. Column size must be numeric.

Explanation: The specified Cmd value is not valid. Column size must be a number between the values in the MIN and MAX fields.

User response: Either remove the current value or specify a valid value.

ETI943E Invalid column size. The specified value is out of range.

Explanation: The specified Cmd value is not valid. Column size must be a number between the values in the MIN and MAX fields. MIN is the smallest acceptable value. MAX is the largest acceptable value.

User response: Either remove the current value or specify a valid value.

ETI944E Total fixed column sizes cannot exceed screen size.

Explanation: The specified Cmd values would have caused the sum of the FIXed column sizes to exceed the screen size. Because FIXed columns are always displayed, they must fit on the screen. The FIXed columns contain an F or P in the Fix column.

User response: Either change the FIXed column sizes so that the total is less than the screen size, or CANCEL to return to the previous panel.

ETI945E Configuration request failed - at least one unfixed column would not be displayed.

Explanation: The requested column sizes would cause at least one unfixed column to become undisplayable. The cursor is positioned on the value where the problem was detected. The unfixed area on the screen would be too small to show the column where the cursor is placed.

User response: To correct the problem:

- Decrease the size of the column at which the cursor is pointing so that it can fit in the available unfixed area.
- Set the unfixed area to its maximum size (width).
- Decrease the size of the fixed area.
- CANCEL to return to the previous panel.

ETI946E Configuration request failed - the unfixed area would be too small to display this column.

Explanation: The requested column sizes would make the unfixed column where the cursor is positioned undisplayable. The unfixed area on the panel would be too small to show this column.

User response: You can shrink the FIXed area by either unfixing columns or making FIXed columns smaller.

ETI947E Configuration request failed - not all columns can be displayed.

Explanation: Fixing the requested columns would shrink the available area for unfixed columns so that some might not display. The cursor is placed on a row that represents one of the columns that would cause the error.

User response: To change column sizes, cancel the CFIX function and invoke the CSIZE function. Either cancel to exit CFIX with no change, or clear one or more FIX selections until an allowable fixed size is reached.

ETI948E Invalid FIXed selections. Operation would not leave enough space for this column.

Explanation: Fixing the columns requested would make at least one unfixed column undisplayable. The cursor is positioned on the row that represents one of the unfixed columns that would cause an error, where the minimum displayable size would not fit in the available screen area.

User response: To shrink the requested fixed area:

- Request fewer fixed columns.
- Unfix one or more fixed columns.
- Cancel CFIX and invoke CSIZE to shrink one or more fixed columns enough so that all unfixed columns have the space that they require.

ETI949E Duplicate Cmd values entered.

Explanation: Duplicate Cmd numbers were specified. The cursor points to the second instance of a Cmd value.

User response: Either change this value, clear it, or exit the CORDER function.

ETI950E Invalid sort number. Enter a valid numeric digit.

Explanation: A specified character in the Srt column is not valid.

User response: Specify a valid character. Valid

characters include digits 1 through 9, or the number of sortable columns, whichever value is less.

ETI951E Duplicate sort sequence number.

Explanation: The same sort sequence number was specified for more than one column. The screen is positioned to the second instance.

User response: Specify a unique sort sequence number.

ETI952E Sort sequence skips a number.

Explanation: The selected sorting sequence skips a number. The screen is positioned to a selection after the missing number in the sequence.

User response: Specify a valid sort sequence that does not skip a number.

ETI953E Invalid Dir entered. Direction must be A (ascending) or D (descending).

Explanation: The selected sorting direction is not valid.

User response: Specify a valid value. Valid values include "A" for ascending, "D" for descending, or leave the field blank to use the default direction (ascending).

ETI954E Dir not valid without Ord.

Explanation: a sorting direction (Dir) was selected for a column that was not selected to be sorted (Ord). Sorting direction is only a valid choice for selected columns.

User response: Specify a column to be sorted (Ord) before specifying a sort order direction.

ETI955E Fixed columns cannot exceed screen size.

Explanation: More columns were selected to be FIXed than will fit on the screen.

User response: Remove the FIXed (F) selection character from one or more columns.

ETI956E Invalid entry. Cmd values must be numeric.

Explanation: The specified Cmd value is not valid. Cmd values must be numeric.

User response: Either remove the current value or specify a valid value.

ETI957E Invalid entry for permanent column.

Explanation: The specified entry for a permanent column is not valid.

User response: Specify a valid value.

ETI958E Invalid entry for fixed column.

Explanation: The specified Cmd value for a FIXed column is not valid. Valid selections for a FIXed column are numeric values from 1 through n, where n is the total number of fixed columns.

User response: Either remove the current value or specify a valid number.

ETI959E Invalid entry for unfixed column.

Explanation: The specified Cmd value for an UNFIXed column is not valid. The number must be less than the total number of columns, and greater than the number of FIXed columns.

User response: Either remove the current value or specify a valid number.

ETI960E Invalid Column Function value. Valid values: 1, 2, 3, and 4.

Explanation: The specified character in the Column Function field is not valid. Valid characters are 1, 2, 3, and 4.

User response: Correct the field or issue the CANCEL command.

ETI961E Invalid Permanent View value. Valid values: Y, N.

Explanation: The specified character in the Permanent View field is not valid. Valid characters are Y (Yes) and N (No).

User response: Correct the field or issue the CANCEL command.

ETI962E Invalid Reset View value. Valid values are Y, N.

Explanation: The character specified in the Reset View field is not valid. Valid characters are Y (Yes) or N (No).

User response: Correct the field or issue the CANCEL command.

ETI963E Invalid Stop Sorting value. Valid values: Y, N.

Explanation: The character specified in the Stop Sorting field is not valid. Valid characters are Y (Yes) or N (No).

User response: Correct the field or issue the CANCEL command.

ETI964E Invalid data set name.

Explanation: The specified data set name is syntactically incorrect. A data set name can be a one name segment, or a series of joined name segments. Segments are limited to eight characters, the first of which must be alphabetic (A to Z) or special (&S @ $). The remaining seven characters are either alphabetic, numeric (0 - 9), special, or a hyphen (-). Name segments are separated by a period (.). Including all name segments and periods, the length of the data set name must not exceed 44 characters. Thus, a maximum of 22 name segments can make up a data set name.

User response: Specify a valid data set name.

ETI965E Invalid member name.

Explanation: A member name can be up to eight characters long, and it can consist of the characters A-Z, 0-9, $, &S, and @.

User response: Specify a valid member name.

ETI966E Unable to allocate the report file.

Explanation: An error occurred when allocating the data set for the report.

User response: If unable to determine the reason for the error, contact IBM Software Support. Have available the listing that contains this message.

ETI967E Unable to open the report file.

Explanation: An error occurred when opening the data set for the report.

User response: If unable to determine the reason for the error, contact IBM Software Support. Have available the listing that contains this message.

ETI968E Invalid selection character. Valid values: "H" and "U".

Explanation: The specified Cmd character is not valid. Valid values are H (HIDE) and U (UNHIDE).

User response: Either remove the current value or specify a valid value.

ETI970E TBCREATE failed. RC=*return code***.**

Explanation: The TBCREATE command was issued to create a VIEW, but it failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBCREATE.

ETI971E TBOPEN failed. RC=*return code***.**

Explanation: The TBOPEN command was issued to open an existing VIEW, but the command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, refer to the ISPF Services Guide under TBOPEN.

ETI972E TBCLOSE failed. RC=*return code***.**

Explanation: The TBCLOSE command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, refer to the ISPF Services Guide under TBCLOSE.

ETI973E TBDELETE failed. RC=*return code***.**

Explanation: The TBDELETE command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, refer to the ISPF Services Guide under TBDELETE.

ETI974E TBMOD failed. RC=*return code***.**

Explanation: The TBMOD command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, see the ISPF Services Guide under TBMOD.

ETI975E TBGET failed. RC=*return code***.**

Explanation: The TBGET command failed with a (hex) return code as indicated in the message.

User response: Review ISPTLIB allocation and data set characteristics. Review security controlled access to ISPTLIB data sets. For information about return codes, refer to the ISPF Services Guide under TBGET.

ETI976E View Table is in use.

Explanation: The ISPTLIB and ISPTABL DDs are in use. Only temporary views are available.

User response: Review the ISPTLIB and ISPTABLE allocations. For information about ISPTLIB and ISPTABL, see the ISPF user guides for your version of ISPF. If you cannot determine the reason for this message, contact IBM Software Support. Have available

the listing that contains this message.

ETI977E View Library not allocated.

Explanation: The ISPTLIB and ISPTABL DDs have not been allocated. Only temporary views are available.

User response: Review the ISPTLIB and ISPTABLE allocations. For information about ISPTLIB and ISPTABL, see the ISPF user guides for your version of ISPF. If you cannot determine the reason for this message, contact IBM Software Support. Have available the listing that contains this message.

Tools Customizer messages

Use the information in these messages to help you diagnose and solve Tools Customizer problems.

CCQB000I The product parameter data was saved in the data store.

Explanation: Changes that were made to the product parameters were saved in the data store.

System action: None.

User response: No action is required.

CCQB001I The DB2 parameter data was saved in the data store.

Explanation: Changes that were made to the DB2 parameters were saved in the data store.

System action: None.

User response: No action is required.

CCQB002I The LPAR parameter data was saved in the data store.

Explanation: Changes that were made to the LPAR parameters were saved in the data store.

System action: None.

User response: No action is required.

CCQB003E At least one step must be selected in a selected task. The selected task is *task_description***.**

Explanation: When a task is selected, at least one step must be selected. A selected step is missing from the specified task.

System action: Processing stops.

User response: Select a step in the specified task or deselect the task.

CCQB004I The required information to run the Discover EXEC was saved in the data store.

Explanation: The data store contains all the information that is required to run the Discover EXEC.

System action: None.

User response: No action is required.

CCQB005E The conflicting values for the *parameter_name* **parameter must be resolved before the information can be saved.**

Explanation: Two values for one parameter conflict with each other, and they must be resolved to save the information.

System action: Processing stops.

User response: Resolve the conflicting values for the parameter.

CCQB006E One row must be selected.

Explanation: One row in the table must be selected.

System action: Processing stops.

User response: Select one row.

CCQB007E Only one row can be selected.

Explanation: Multiple rows in the table are selected, but only one row is allowed to be selected.

System action: Processing stops.

User response: Select only one row.

CCQC000I The jobs have been customized on the selected DB2 entries.

Explanation: The jobs were customized on the DB2 entries that were selected.

System action: None.

User response: Press Enter to clear the message.

CCQC001W The jobs were not generated on one or more of the selected DB2 entries. Press PF3 to check the DB2 entries that were not customized.

Explanation: The product was not customized on one or more of the DB2 entries that were selected.

System action: None.

User response: Press PF3 to see the DB2 entries on which the product was not customized. The status of these DB2 entries is Errors in Customization.

CCQC002I The edit session was started automatically because values for required parameters are missing or must be verified.

Explanation: If product, LPAR parameters, or DB2 parameters are not defined or if parameter definitions must be verified, an editing session for the undefined or unverified parameters starts automatically.

System action: None.

User response: Define values for all required product, LPAR parameters, or DB2 parameters.

CCQC003W The *template_name* template in the *library_name* metadata library does not contain any parameters.

Explanation: The specified template does not have parameters.

System action: None.

User response: No action is required.

CCQC004S The value of the "type" attribute for the *template_name* template in the *library_name* metadata library does not match the value that was previously specified. The value is *value_name*, and the previously specified value is *value_name*.

Explanation: The value of the "type" attribute must match the value that was previously specified.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC005S The *template_name* template exceeds the number of allowed templates for a customization sequence. The template is in the *library_name* metadata library.

Explanation: The customization sequence can process only *number* templates. The specified template cannot be processed because the customization sequence already contains the maximum number of templates.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC006E The jobs could not be generated for the *group_attach_name* DB2 group attach name.

Explanation: The customization jobs could not be generated for the specified DB2 group attach name.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC007E The jobs could not be generated for the *subsystem_ID* DB2 subsystem.

Explanation: The customization jobs could not be generated for the specified DB2 subsystem.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC008E The jobs could not be generated for the *member_name* DB2 member.

Explanation: The customization jobs could not be generated for the specified DB2 member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC009S The jobs were not generated for the DB2 entries.

Explanation: One or more errors occurred while customization jobs were being generated for the selected DB2 entries.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC010S The *template_name* template could not be accessed in the *library_name* metadata library.

Explanation: The specified template could not be accessed because the user does not have RACF access to the data set, the data set has incorrect data characteristics, or the data set is not cataloged.

System action: Processing stops.

User response: Ensure that you have RACF access to the data set, that the characteristics are correct according to the specifications of the product that you are customizing, and that the data set is cataloged. If the problem persists, contact IBM Software Support.

CCQC011S The *template_name* template could not be written to the *library_name* customization library.

Explanation: The specified template could not be accessed because the user does not have RACF access to the data set, the data set has incorrect data characteristics, or the data set is not cataloged.

System action: Processing stops.

User response: Ensure that you have RACF access to the data set, that the characteristics are correct according to the specifications of the product that you are customizing, and that the data set is cataloged. If the problem persists, contact IBM Software Support.

CCQC012W The job card was generated with default values because the JOB keyword was missing.

Explanation: Default values were used to generate the job card because the JOB keyword was not specified in the first line of the job card.

System action: The job card was generated with default values.

User response: No action is required. To generate the job card with your own values, add the JOB keyword in the first line of the job card.

CCQC013W The job card was generated with the default value for the programmer name because the specified programmer name exceeded 20 characters.

Explanation: Default values were used to generate the job card because the specified programmer name contained too many characters.

System action: The job card was generated with default values.

User response: No action is required. To generate the job card with your own values, add a valid programmer name in the job card. A valid programmer name is 1 - 20 characters.

CCQC014W The job card was generated with default values because the JOB keyword was not followed by a space.

Explanation: Default values were used to generate the job card because a space did not follow the JOB keyword.

System action: The job card was generated with default values.

User response: No action is required. To generate the job card with your own values, add a space after the JOB keyword in the job card.

CCQC015S The *template_name* template in the *library_name* metadata library contains the following file-tailoring control statement: *statement_name*. This control statement is not valid in a *template_type* template.

Explanation: The *template_type* template cannot contain the specified type of file-tailoring control statement.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC016S The)DOT file-tailoring control statement exceeded the number of allowed occurrences for the *template_name* template in the *library_name* metadata library.

Explanation: The)DOT file-tailoring control statement can occur only a limited number of times in the specified template.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC017S The nested)DOT file-tailoring control statements exceeded the number of allowed occurrences in the *template_name* template in the *library_name* metadata library.

Explanation: Nested)DOT file-tailoring control statements can occur only *number* times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC018S The *template_name* template in the *library_name* metadata library is not valid because it does not contain any data.

Explanation: The specified template is missing required data.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC019S The *template_name* template in the *library_name* metadata library is not valid because an)ENDDOT file-tailoring control statement is missing.

Explanation: A)ENDDOT file-tailoring control statement is required in the specified template.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC021S The *template_name* template in the *library_name* metadata library is not valid because the template must start with the *parameter_name* job card parameter.

Explanation: The specified template must start with the specified job card parameter.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC022S **The parameters used in a)DOT file-tailoring control statement exceeded the number of allowed parameters in the** *template_name* **template. The template is in the** *library_name* **metadata library. The error occurs in)DOT section** *section_number***.**

Explanation: A)DOT file-tailoring control statement can contain only a limited number of parameters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC023S **The)DOT file-tailoring control statement must include the** *table-name* **table name in the** *template_name* **template. The template is in the** *library_name* **metadata library. The error occurs in)DOT section** *section_number***.**

Explanation: The)DOT file-tailoring control statement is missing a required table name.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC024S **ISPF file tailoring failed for the** *template_name* **template in the** *library_name* **metadata library.**

Explanation: An error occurred during ISPF file tailoring for the specified template.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC025I **Customized jobs do not exist because they have not been generated.**

Explanation: The list of customized jobs cannot be displayed because the product has not been customized for any DB2 entries.

System action: None.

User response: Complete the steps to customize a product. Customized jobs are generated when all required product, LPAR parameters, and DB2 parameters are defined and at least one DB2 entry on which to customize the product has been selected.

CCQC026S **The value of the "customized" attribute for the** *parameter_name* **parameter in the** *library_name* **metadata library template does not match the value that was previously specified. The value is** *value_name***, and the previously specified value is** *value_name***.**

Explanation: The value for the "customized" attribute for a parameter must match the value that was previously specified.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC027S **The** *job_name* **customization job was not found in the** *library_name* **customization library.**

Explanation: The selected customization job does not exist in the customization library.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC028S **The** *library_name* **customization library was not found.**

Explanation: The customization library does not exist.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQC029I **The customization jobs were generated for** *Product_name***.**

Explanation: The customization jobs were generated for the specific product.

System action: None.

User response: No action is required.

CCQC030S **The customization jobs cannot be generated because at least one DB2 entry must be associated with this product.**

Explanation: The product that you are customizing requires at least one DB2 entry to be associated with it before customization jobs can be generated.

System action: None.

User response: Associate a DB2 entry with the product that you are customizing, and regenerate the jobs.

CCQC031I **The jobs were generated for the associated DB2 entries.**

Explanation: The customization jobs were generated for the DB2 entries that are associated with the product.

System action: None.

User response: No action is required.

CCQC032S **The customization jobs were not generated for** *Product_name***.**

Explanation: A severe error occurred while the jobs were being generated for the specified product.

System action: None.

User response: Contact IBM Software Support.

CCQC033S **The** *customization_library_name* **has no customized jobs.**

Explanation: The specified customization library cannot be browsed or edited because it is empty.

System action: None.

User response: Generate customization jobs for the specified library, and browse or edit the library again.

CCQC034S **The specified operation is not allowed.**

Explanation: Issuing commands against customization jobs from the customization library from an ISPF browse or edit session that was started on the Finish Product Customization panel is restricted.

System action: None.

User response: To make changes to customization jobs, follow the steps for recustomization.

CCQC035E **Before you generate customization jobs, edit the product parameters to select one or more tasks or steps, and then issue the G line command or the GENERATEALL command again.**

Explanation: One or more tasks or steps must be selected before customization jobs can be generated.

System action: None.

User response: Edit the product parameters to select one or more tasks or steps. Then, issue the G line command or the GENERATEALL command again.

CCQC036E **Before you exit the Product Parameters panel, you must select one or more tasks or steps to generate customization jobs or issue the CANCEL command.**

Explanation: One or more tasks or steps must be selected to generate customization jobs or the CANCEL command must be issued before you can exit the Product Parameters panel.

System action: None.

User response: Select one or more tasks or steps, or issue the CANCEL command.

CCQD000W **The** *member_name* **environment index member is not valid. The PL/I XML parser issued the following exception warning code:** *code_number***.**

Explanation: While determining if the specified environment index member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the warning.

CCQD001S **The** *member_name* **environment index member is not valid. The PL/I XML parser issued the following exception error code:** *code_number***.**

Explanation: While determining if the specified environment index member is valid, the PL/I XML parser issued an exception error code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the error.

CCQD002S **The XML structure of the** *member_name* **environment index member is not valid. The** *element_name* **element is unknown.**

Explanation: The specified environment index member contains an unknown element.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD003S **The XML structure of the** *member_name* **environment index member is not valid. Content is not allowed for the** *element_name* **element, but content was found.**

Explanation: Content was found in an element that cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD004S **The XML structure of the** *member_name* **environment index member is not valid. Content is required for the** *element_name* **element, but content was not found.**

Explanation: The specified element does not contain required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD005S **The XML structure of the *member_name* environment index member is not valid. The content length for the *element_name* element exceeds *maximum_number* characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD006S **The XML structure of the *member_name* environment index member is not valid. The *element_name* element cannot occur more than *maximum_number* times.**

Explanation: The specified element occurs too many times in the environment index member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD007S **The XML structure of the *member_name* environment index member is not valid. The *element_name* element must occur at least *minimum_number* times.**

Explanation: The specified element does not occur enough times in the environment index member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD008S **The XML structure of the *member_name* environment index member is not valid. The *attribute_name* attribute in the *element_name* element cannot occur more than *maximum_number* times.**

Explanation: The specified attribute occurs too many times in the environment index member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD009S **The XML structure of the *member_name* environment index member is not valid. The *attribute_name* attribute in the *element_name* element must occur at least *minimum_number* times.**

Explanation: The specified attribute does not occur enough times in the environment index member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD010S **The XML structure of the *member_name* environment index member is not valid. Content is not allowed for the *attribute_name* attribute in the *element_name* element, but content was found.**

Explanation: Content was found in an attribute that cannot contain content. The name of the attribute and the name of the element that contains it are indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD011S **The XML structure of the *member_name* environment index member is not valid. Content is required for the *attribute_name* attribute in the *element_name* element, but content was not found.**

Explanation: An attribute does not contain required content. The name of the attribute and the name of the element that contains it are indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD012S **The XML structure of the *member_name* environment index member is not valid. The content length for the *element_name* element exceeds *maximum_number* characters.**

Explanation: An element contains too many characters. The name of the element and the maximum number of allowed characters are indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD013S **The XML structure of the *member_name* environment index member is not valid. The *attribute_name* attribute in the *element_name* element is unknown.**

Explanation: The environment index member contains an unknown attribute. The name of the unknown attribute and the name of the element that contains it are indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD050S The following LPAR serial number is duplicated in the environment index member: *serial_number*.

Explanation: The environment index member contains duplicate LPAR serial numbers. The duplicate serial number is indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD051S The following DB2 serial number is duplicated in the environment index member: *serial_number*.

Explanation: The environment index member contains duplicate DB2 serial numbers. The duplicate serial number is indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD052S The following DB2 group attach name is duplicated in the environment index member: *group_attach_name*.

Explanation: The environment index member contains duplicate group attach names.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD053S The reference to the following DB2 subsystem for a DB2 group attach name is duplicated in the environment index member: *subsystem_ID*.

Explanation: The environment index member contains duplicate references to a DB2 subsystem for a DB2 group attach name.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD054S The reference to the following DB2 subsystem for the *LPAR_name* **LPAR is duplicated in the environment index member:** *subsystem_ID*.

Explanation: The environment index member contains duplicate references to a DB2 subsystem for an LPAR. The duplicate subsystem ID is indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD055S The following DB2 group attach name was not found in the environment index member: *group_attach_name*.

Explanation: A group attach name that is referenced by a DB2 member does not exist in the environment index member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD056S The following LPAR was not found in the environment index member: *LPAR_name*.

Explanation: The LPAR does not exist in the environment index member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD057S The following LPAR is duplicated in the environment index member: *LPAR_name*.

Explanation: The environment index member contains duplicate LPARs. The name of the duplicate LPAR name is indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD100W The *member_name* **product index member is not valid. The PL/I XML parser issued the following exception warning code:** *code_number*.

Explanation: While determining if the product index member is valid, the PL/I XML parser issued the specified exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the specified exception warning code.

CCQD101S The *member_name* **product index member is not valid. The PL/I XML parser issued the following exception error code:** *code_number*.

Explanation: While determining if the product index member is valid, the PL/I XML parser issued the specified exception error code.

System action: Processing stops.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the specified exception error code.

CCQD102S **The XML structure of the** *member_name* **product index member is not valid. The** *element_name* **element is unknown.**

Explanation: The specified product index member contains an unknown element.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD103S **The XML structure of the** *member_name* **product index member is not valid. Content is not allowed for the** *element_name* **element, but content was found.**

Explanation: Content was found for an element that cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD104S **The XML structure of the** *member_name* **product index member is not valid. Content is required for the** *element_name* **element, but content was not found.**

Explanation: The specified element does not contain required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD105S **The XML structure of the** *member_name* **product index member is not valid. The content length for the** *element_name* **element exceeds** *maximum_number* **characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD106S **The XML structure of the** *member_name* **product index member is not valid. The** *element_name* **element cannot occur more than** *maximum_number* **times.**

Explanation: The specified element occurs too many times in the product index member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD107S **The XML structure of the** *member_name* **product index member is not valid. The** *element_name* **element must occur at least** *minimum_number* **times.**

Explanation: The specified element does not occur enough times in the product index member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD108S **The XML structure of the** *member_name* **product index member is not valid. The** *attribute_name* **attribute in the** *element name* **element cannot occur more than** *maximum_number* **times.**

Explanation: An attribute occurs too many times. The name of the attribute and the element that contains it are indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD109S **The XML structure of the** *member_name* **product index member is not valid. The** *attribute_name* **attribute in the** *element_name* **element must occur at least** *minimum_number* **times.**

Explanation: The specified attribute does not occur enough times in the product index member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD110S **The XML structure of the** *member_name* **product index member is not valid. Content is not allowed for the** *attribute_name* **attribute in the** *element_name* **element, but content was found.**

Explanation: An attribute cannot contain content. The name of the attribute and the element that contains it are indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD111S **The XML structure of the** *member_name* **product index member is not valid. Content is required for the** *attribute_name* **attribute in the** *element_name* **element, but content was not found.**

Explanation: An attribute requires content. The name of the attribute and the name of the element that contains it are indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD112S **The XML structure of the** *member_name* **product index member is not valid. The content length for the** *element_name* **element exceeds** *maximum_number* **characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD113S **The XML structure of the** *member_name* **product index member is not valid. The** *attribute_name* **attribute in the** *element_name* **element is unknown.**

Explanation: The specified attribute in the product index member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD118S **The content of the** *member_name* **product index member is not valid. The** *configuration_ID* **configuration ID for the** *configuration-name* **configuration name is not unique.**

Explanation:

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD120S **The content of the** *member_name* **product index member is not valid. The pack ID** *pack_ID* **that is referenced by product prefix** *product_prefix* **in the metadata library** *library_name* **could not be found.**

Explanation: The specified pack ID could not be found in the metadata library.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD121I **The specified pack contains the** *component_name***, which was previously specified as a stand-alone product.**

Explanation: The specified component of the pack was previously specified as a stand-alone product.

System action: None.

User response: No action is required.

CCQD122I **The specified component metadata library was previously specified as part of the** *pack_name***.**

Explanation: The specified metadata library for the component was previously specified as part of a pack.

System action: None.

User response: No action is required.

CCQD123E **The customization library name** *library_name* **is being used by another product or component. Specify another customization library qualifier on the Tools Customizer Settings panel.**

Explanation: A different product or component is using the specified customization library.

System action: None.

User response: Specify another customization library qualifier on the Tools Customizer Settings panel.

CCQD300W **The** *member_name* **product environment member is not valid. The PL/I XML parser issued the following exception warning code:** *code_number***.**

Explanation: While determining if the product environment member is valid, the PL/I XML parser issued the specified exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the specified exception warning code.

CCQD301S **The** *member_name* **product environment member is not valid. The PL/I XML parser issued the following exception error code:** *code_number***.**

Explanation: While determining if the product environment member is valid, the PL/I XML parser issued the specified exception error code.

System action: Processing stops.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the specified exception error code.

CCQD302S **The XML structure of the** *member_name* **product environment member is not valid. The** *element_name* **element is unknown.**

Explanation: The specified product environment member contains an unknown element.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD303S **The XML structure of the** *member_name* **product environment member is not valid. Content is not allowed for the** *element_name* **element, but content was found.**

Explanation: Content was found for an element that cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD304S **The XML structure of the** *member_name* **product environment member is not valid. Content is required for the** *element_name* **element, but content was not found.**

Explanation: The specified element does not contain required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD305S **The XML structure of the** *member_name* **product environment member is not valid. The content length for the** *element_name* **element exceeds** *maximum_number* **characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD306S **The XML structure of the** *member_name* **product environment member is not valid. The** *element_name* **element cannot occur more than** *maximum_number* **times.**

Explanation: The specified element occurs too many times in the product environment member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD307S **The XML structure of the** *member_name* **product environment member is not valid. The** *element_name* **element must occur at least** *minimum_number* **times.**

Explanation: The specified element does not occur enough times in the product environment member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD308S **The XML structure of the** *member_name* **product environment member is not valid. The** *attribute_name* **attribute in the** *element name* **element cannot occur more than** *maximum_number* **times.**

Explanation: The specified attribute occurs too many times. The name of the attribute and the element that contains it are indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD309S **The XML structure of the** *member_name* **product environment member is not valid. The** *attribute_name* **attribute in the** *element_name* **element must occur at least** *minimum_number* **times.**

Explanation: The specified attribute does not occur enough times in the product environment member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD310S **The XML structure of the** *member_name* **product environment member is not valid. Content is not allowed for the** *attribute_name* **attribute in the** *element_name* **element, but content was found.**

Explanation: The specified attribute cannot contain content. The name of the attribute and the element that contains it are indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD311S **The XML structure of the** *member_name* **product environment member is not valid. Content is required for the** *attribute_name* **attribute in the** *element_name* **element, but content was not found.**

Explanation: The specified attribute requires content. The name of the attribute and the name of the element that contains it are indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD312S **The XML structure of the** *member_name* **product environment member is not valid. The content length for the** *element_name* **element exceeds** *maximum_number* **characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD313S **The XML structure of the *member_name* product environment member is not valid. The *attribute_name* attribute in the *element_name* element is unknown.**

Explanation: The specified attribute in the product environment member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD350I **The *subsystem_ID* DB2 subsystem is associated with this product.**

Explanation: The specified DB2 subsystem was added and saved in the Tools Customizer data store for the product to be customized.

System action: Processing continues.

User response: No action is required.

CCQD351I **The *member_name* DB2 member for the *group_attach_name* DB2 group attach name is associated with this product.**

Explanation: The specified DB2 member for the group attach name was added and saved in the Tools Customizer data store for the product to be customized.

System action: Processing continues.

User response: No action is required.

CCQD352I **The *group_attach_name* DB2 group attach name is associated with this product.**

Explanation: The specified DB2 group attach name was added and saved in the Tools Customizer data store for the product to be customized.

System action: Processing continues.

User response: No action is required.

CCQD353E **The *subsystem_ID* DB2 subsystem is already associated with this product.**

Explanation: The specified DB2 subsystem cannot be added for the product to be customized because it already exists in the product environment in the data store.

System action: None.

User response: Ensure that the DB2 subsystem is specified correctly. If the problem persists, contact IBM Software Support.

CCQD354E **The *member_name* DB2 member for the *group_attach_name* DB2 group attach name is already associated with this product.**

Explanation: The specified DB2 member for the group attach name cannot be added for the product to be customized because it already exists in the product environment in the data store.

System action: None.

User response: Ensure that the DB2 group attach name is specified correctly. If the problem persists, contact IBM Software Support.

CCQD355E **The *group_attach_name* DB2 group attach name is already associated with this product.**

Explanation: The specified DB2 group attach name cannot be added for the product to be customized because it already exists in the product environment in the data store.

System action: Processing stops.

User response: Ensure that the DB2 group attach name is specified correctly. If the problem persists, contact IBM Software Support.

CCQD356S **The *library_name* metadata library is already associated with the maximum number of allowed DB2 entries for this product.**

Explanation: The specified metadata library cannot be associated with more DB2 entries because it is already associated with the number of DB2 entries that are allowed.

System action: Processing stops.

User response: Delete an associated DB2 entry, and associate the specified library with another DB2 entry again.

CCQD357I **The *subsystem_ID* DB2 subsystem is unassociated with this product.**

Explanation: The specified DB2 SSID was unassociated with the product that you are customizing.

System action: Processing continues.

User response: No action is required.

CCQD358I **The *member_name* DB2 member for the *group_attach_name* DB2 group attach name is unassociated with this product.**

Explanation: The specified DB2 member for the DB2

group attach name was unassociated with the product that you are customizing.

System action: Processing continues.

User response: No action is required.

CCQD359I **The *group_attach_name* DB2 group attach name is unassociated with this product.**

Explanation: The specified DB2 group attach name was unassociated with the product that you are customizing.

System action: Processing continues.

User response: No action is required.

CCQD360S **The *library_name* metadata library is not associated with the specified DB2 subsystem *subsystem_ID*.**

Explanation: The specified DB2 subsystem and metadata library are not associated with each other.

System action: None.

User response: Ensure that the DB2 subsystem and the metadata library are associated. If the problem persists, contact IBM Software Support.

CCQD361S **The *library_name* metadata library is not associated with the specified DB2 data sharing group member *member_name* for the *group_attach_name* DB2 group attach name.**

Explanation: The specified DB2 data sharing group member for the group attach name and metadata library are not associated with each other.

System action: None.

User response: Ensure that the DB2 data sharing group member for the group attach name and the metadata library are associated. If the problem persists, contact IBM Software Support.

CCQD362S **The *library_name* metadata library is not associated with the specified *group_attach_name* DB2 group attach name.**

Explanation: The specified DB2 group attach name and metadata library are not associated with each other.

System action: None.

User response: Ensure that the DB2 group attach name and the metadata library are associated. If the problem persists, contact IBM Software Support.

CCQD400W **The customization parser issued the *code_number* warning code while it parsed the product customization member *member_name*. See the PL/I programming guide for more information about this XML parser continuable exception code.**

Explanation: While determining if the specified member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing stops.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the warning.

CCQD401S **The customization parser issued the *code_number* error code while it parsed the product customization member *member_name*. See the PL/I programming guide for more information about this XML parser terminating exception code.**

Explanation: While determining if the specified member is valid, the PL/I XML parser issued an exception error code.

System action: Processing stops.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the error.

CCQD500W **The *data_set_name* data store data set was not found.**

Explanation: Tools Customizer could not find the specified data store data set.

System action: None.

User response: No action is required.

CCQD501W **The *data_set_name* data store data set was not found, so it was created.**

Explanation: Tools Customizer created the specified data set because it could not be found.

System action: None.

User response: No action is required.

CCQD502E **The *data_set_name* data store data set is not writable.**

Explanation: Tools Customizer cannot write to the specified data set.

System action: None.

User response: Ensure that the data set is writable.

CCQD503E The *data_set_name* data store data set could not be opened with the *disposition_type* disposition.

Explanation: Tools Customizer could not open the data set with the specified disposition.

System action: Processing stops.

User response: Ensure that you have WRITE authority access to this data set.

CCQD504E The *data_set_name* data store data set could not be opened with the *option_name* option.

Explanation: Tools Customizer could not open the data set with the specified option.

System action: Processing stops.

User response: Ensure that you have WRITE authority access to this data set.

CCQD505E The *data_set_name* data store data set could not be created.

Explanation: Tools Customizer could not create the specified data set.

System action: Processing stops.

User response: Ensure that you have the authority to create data sets and that the DASD is not full.

CCQD510I The DB2 SSID and DB2 group attach name were created.

Explanation: The DB2 SSID and DB2 group attach name were created and saved in the data store.

System action: None.

User response: No action is required.

CCQD511E The DB2 entry already exists in the list of DB2 entries to be associated.

Explanation: The DB2 entry cannot be added because it already exists in the list of DB2 entries to be associated.

System action: None.

User response: Specify a different DB2 entry.

CCQD512S An error occurred while a DB2 entry was being created.

Explanation: A severe error occurred while a DB2 entry was being created.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD513E The specified DB2 entry already exists and is associated with the current product on the Customizer Workplace panel.

Explanation: The DB2 entry cannot be added because it already exists, and it is already associated with the product to be customized.

System action: None.

User response: Press F3 to go to the Customizer Workplace panel to see the DB2 entry, or specify a different DB2 entry.

CCQD514E A value is required for a DB2 subsystem, a DB2 group attach name, or both before they can be created.

Explanation: Required information is missing. A DB2 subsystem, a DB2 group attach name, or both must be specified.

System action: None.

User response: Specify a DB2 subsystem, a DB2 group attach name, or both.

CCQD515E The specified DB2 entry already exists in the list of DB2 entries and is already associated with the current product.

Explanation: The DB2 entry has already been created and associated with the product that you want to customize.

System action: None.

User response: Specify a different DB2 entry.

CCQD516E The specified DB2 entry already exists in the list of DB2 entries on the Associate DB2 Entry with Product panel but is not associated with the current product.

Explanation: The DB2 entry exists, but it must be associated with the product to be customized.

System action: None.

User response: On the Customizer Workplace panel, issue the ASSOCIATE command to associate the DB2 entry with the product.

CCQD517S An error occurred while a DB2 entry was being copied.

Explanation: A severe error occurred while a DB2 entry was being copied

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD518E A value is required for a DB2 subsystem, a DB2 group attach name, or both before they can be copied.

Explanation: Required information is missing. A DB2 subsystem, a DB2 group attach name, or both must be specified.

System action: None.

User response: Specify a DB2 subsystem, a DB2 group attach name, or both.

CCQD519I The DB2 entry was copied.

Explanation: The DB2 entry was copied and saved in the Tools Customizer data store.

System action: None.

User response: No action is required.

CCQD520S The DB2 entry was copied to the list of DB2 entries but was not associated because the product is already associated with the allowed number of DB2 entries.

Explanation: The DB2 entry was not completely copied because a product can be associated with only 1200 DB2 entries.

System action: Processing stops.

User response: Remove a DB2 entry from the list, and copy the specified DB2 entry again.

CCQD521E *Line_command* **is not a valid line command.**

Explanation: The specified line command is not valid. Valid line commands are on the panel.

System action: Processing stops.

User response: Specify a valid line command.

CCQD522E The *subsystem_ID* **DB2 subsystem ID occurs more than once in the list. Each row must be unique.**

Explanation: The specified DB2 subsystem ID can be used only once.

System action: Processing stops.

User response: Specify a different DB2 subsystem ID.

CCQD523E The *group_attach_name* **DB2 group attach name occurs more than once in the list. Each row must be unique.**

Explanation: The specified DB2 group attach name can be used only once.

System action: Processing stops.

User response: Specify a different DB2 group attach name.

CCQD524E The *member_name* **DB2 member for the DB2 group attach name occurs more than once in the list. Each row must be unique.**

Explanation: The specified DB2 member for the DB2 group attach name can be used only once.

System action: Processing stops.

User response: Specify a different DB2 member for the DB2 group attach name.

CCQD525I The DB2 entries were created.

User response: No action is required.

CCQD526E The *subsystem_ID* **DB2 subsystem ID occurs more than once in the list. Each DB2 subsystem ID must be unique.**

Explanation: The specified DB2 subsystem ID can be used only once.

System action: Processing stops.

User response: Specify a different DB2 subsystem ID.

CCQD527I DB2 group attach names cannot be created during the copy process.

Explanation: The ability to create DB2 group attach names is not available during the copy process.

System action: None.

User response: Create DB2 group attach names by issuing the CREATE command on the Customizer Workplace panel.

CCQD528E The *metadata_library* **metadata library is already associated with** *number* **DB2 entries. The maximum number of associated DB2 entries for this &CCQMPOPL is 256.**

Explanation:

System action: Processing stops.

User response:

CCQD529I At least one row is required.

CCQD560E The *subsystem_ID* **DB2 subsystem already exists and is associated with the current product on the Customizer Workplace panel.**

Explanation: The specified DB2 subsystem exists and is associated with the product that you are customizing.

System action: None.

User response: Specify another DB2 subsystem.

CCQD561E **The *member_name* DB2 member for the *group_attach_name* DB2 group attach name already exists and is associated with the current product on the Customizer Workplace panel.**

Explanation: The specified DB2 data sharing group for the DB2 group attach namer exists and is associated with the product that you are customizing.

System action: None.

User response: Specify another DB2 subsystem.

CCQD562E **The *group_attach_name* DB2 group attach name already exists and is associated with the current product on the Customizer Workplace panel.**

Explanation: The specified DB2 group attach name exists and is associated with the product that you are customizing. The subsystem is in the table on the Customizer Workplace panel.

System action: None.

User response: Specify another DB2 group attach name.

CCQD563E **A value is required for a DB2 subsystem, a DB2 group attach name, or both before they can be created.**

Explanation: A DB2 subsystem, a DB2 group attach name, or both are not specified so one or both of them cannot be created.

System action: None.

User response: Specify a value for the DB2 subsystem, the DB2 group attach name, or both.

CCQD565E **The *subsystem_ID* DB2 subsystem already exists in the list of DB2 entries and is already associated with the current product.**

Explanation: The specified subsystem is already associated.

System action: None.

User response: Specify a different DB2 subsystem.

CCQD566E **The *member_name* DB2 member for the *group_attach_name* DB2 group attach name already exists in the list of DB2 entries and is already associated with the current product.**

Explanation: The specified DB2member is already associated.

System action: None.

User response: Specify a different DB2 member.

CCQD567E **The *group_attach_name* DB2 group attach name already exists in the list of DB2 entries and is already associated with the current product.**

Explanation: The specified DB2 group attach name is already associated.

System action: None.

User response: Specify another DB2 group attach name.

CCQD568I **To customize *product_name*, at least one DB2 entry must be associated with this product.**

Explanation: The specified product requires at least one associated DB2 entry.

System action: None.

User response: To continue the customization process for the specified product, associate one or more DB2 entries with it.

CCQD569I **To customize the *product_name* product configuration, at least one DB2 entry must be associated with this configuration.**

Explanation: The configuration for the specified product requires at least one associated DB2 entry.

System action: None.

User response: To continue the customization process for the configuration of the specified product, associate one or more DB2 entries with the configuration.

| **CCQD577W** **The *mode_name* DB2 mode of the *subsystem_ID* DB2 subsystem is not supported by the product.**

| **Explanation:** The product does not support the specified DB2 mode.

| **System action:** None.

| **User response:** Specify a supported DB2 mode.

| **CCQD578W** **The *mode_name* DB2 mode of the *member_name* DB2 member for the DB2 group is not supported by the product.**

| **Explanation:** The product does not support the specified DB2 mode.

| **System action:** None.

User response: Specify a supported DB2 mode.

CCQD579W **The *mode_name* DB2 mode of the *group_name* DB2 group attach name is not supported by the product.**

Explanation: The product does not support the specified DB2 mode.

System action: None.

User response: Specify a supported DB2 mode.

CCQD580S **The *subsystem_ID* DB2 subsystem was copied to the list of DB2 entries but was not associated because the product is already associated with the allowed number of DB2 entries.**

Explanation: The copied DB2 subsystem was not associated with the product because the product is associated with the maximum number of DB2 entries.

System action: None.

User response: Remove an associated DB2 entry and associate the product with the copied DB2 subsystem.

CCQD581S **The *member_name* DB2 member for the *group_attach_name* DB2 group attach name was copied to the list of DB2 entries but was not associated because the product is already associated with the allowed number of DB2 entries.**

Explanation: The copied DB2 member for the DB2 group attach name was not associated with the product because the product is associated with the maximum number of DB2 entries.

System action: None.

User response: Remove an associated DB2 entry and associate the product with the copied DB2 member.

CCQD582S **The *group_attach_name* DB2 group attach name was copied to the list of DB2 entries but was not associated because the product is already associated with the allowed number of DB2 entries.**

Explanation: The copied DB2 group attach name was not associated with the product because the product is associated with the maximum number of DB2 entries.

System action: None.

User response: Remove an associated DB2 entry and associate the product with the copied DB2 group attach name.

CCQD584I **The *member_name* DB2 member for the *group_attach_name* DB2 group attach name is copied to the *subsystem_ID* DB2 subsystem.**

Explanation: The specified DB2 member was copied.

System action: None.

User response: No action is required.

CCQD585I **The *group_attach_name* DB2 group attach name cannot be copied because a DB2 member is required.**

Explanation: The specified DB2 group attach name was not copied because a DB2 member was missing.

System action: None.

User response: No action is required.

CCQD586S **The current LPAR is *LPAR_name*, but the data store contains information about the *LPAR_name* LPAR. You must use the *LPAR_name* LPAR to customize the product.**

Explanation: The LPAR that is stored in the data store data set must be used to customize the product.

System action: Processing stops.

User response: Use the LPAR that is stored in the data store data set.

CCQD587W **The *level_number* DB2 level of the *subsystem_name* DB2 subsystem is not supported by the product.**

Explanation: The product does not support the specified DB2 level.

System action: Processing continues.

User response: Specify a supported level of DB2.

CCQD588W **The *level_number* DB2 level of the *member_name* DB2 member of the *group_name* DB2 group is not supported by the product.**

Explanation: The product does not support the specified DB2 level.

System action: Processing continues.

User response: Specify a supported level of DB2.

CCQD589W **The *level_number* DB2 level of the *group_name* DB2 group attach name is not supported by the product.**

Explanation: The product does not support the specified DB2 level.

System action: Processing continues.

User response: Specify a supported level of DB2.

CCQD593I **The *subsystem_ID* DB2 subsystem was deleted.**

User response: No action is required.

CCQD594I **The *member_name* DB2 for the *group_attach_name* DB2 group attach name was deleted.**

User response: No action is required.

CCQD595I **The *group_attach_name* DB2 group attach name was deleted.**

User response: No action is required.

CCQD596E **The *subsystem_ID* DB2 subsystem was not deleted.**

Explanation: An internal error occurred while the specified DB2 subsystem was being deleted.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD597E **The *member_name* DB2 member for the *group_attach_name* DB2 group attach name was not deleted.**

Explanation: An internal error occurred while the specified DB2 member was being deleted.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD598E **The *group_attach_name* DB2 group attach name was not deleted.**

Explanation: An internal error occurred while the specified DB2 group attach name was being deleted.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD600W **The *member_name* product customization member is not valid. The PL/I XML parser issued the following exception warning code: *code_number*.**

Explanation: While determining if the XML structure of the product customization member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQD601S **The *member_name* product customization member is not valid. The PL/I XML parser issued the following exception error code: *code_number*.**

Explanation: While determining if the XML structure of the product customization member is valid, the PL/I XML parser issued an exception error code.

System action: Processing stops.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception error code.

CCQD602S **The XML structure of the *member_name* product customization member is not valid. The *element_name* element is unknown.**

Explanation: The data store member contains an unknown element.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD603S **The XML structure of the *member_name* product customization member is not valid. Content is not allowed for the *element_name* element, but content was found.**

Explanation: The specified element cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD604S **The XML structure of the *member_name* product customization member is not valid. Content is required for the *element_name* element, but content was not found.**

Explanation: The specified element is missing required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD605S **The XML structure of the *member_name* product customization member is not valid. The content length for the *element_name* element exceeds *maximum_number* characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD606S **The XML structure of the *member_name* product customization member is not valid. The *element_name* element cannot occur more than *maximum_number* times.**

Explanation: The specified element occurs too many times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD607S **The XML structure of the *member_name* product customization member is not valid. The *element_name* element must occur at least *minimum_number* times.**

Explanation: The specified element does not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD608S **The XML structure of the *member_name* product customization member is not valid. The *attribute_name* attribute in the *element_name* element cannot occur more than *maximum_number* times.**

Explanation: The specified attribute occurs too many times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD609S **The XML structure of the *member_name* product customization member is not valid. The *attribute_name* attribute in the *element_name* element must occur at least *minimum_number* times.**

Explanation: The specified attribute does not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD610S **The XML structure of the *member_name* product customization member is not valid. Content is not allowed for the *attribute_name* attribute in the *element_name* element, but content was found.**

Explanation: The specified attribute cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD611S **The XML structure of the *member_name* product customization member is not valid. Content is required for the *attribute_name* attribute in the *element_name* element, but content was not found.**

Explanation: The specified attribute does not contain required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD612S **The XML structure of the *member_name* product customization member is not valid. The content length for the *element_name* element exceeds *maximum_number* characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD613S **The XML structure of the *member_name* product customization member is not valid. The *attribute_name* attribute in the *element_name* element is unknown.**

Explanation: The specified attribute in the data store member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD614S **The content of the *member_name* product customization member is not valid. The value of the *element_name* element is not valid. The value is *value_name*.**

Explanation: The specified value is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQD700W **The *member_name* DB2 data member is not valid. The PL/I XML parser issued the following exception warning code: *code_number*.**

Explanation: While determining if the XML structure of the DB2 data member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQD701S **The *member_name* DB2 data member is not valid. The PL/I XML parser issued the following exception error code: *code_number*.**

Explanation: While determining if the XML structure of the DB2 data member is valid, the PL/I XML parser issued an exception error code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception error code.

CCQD750W **The *value_number* value in the DB2 parameter *parameter_name* was skipped because only *maximum_number* values are allowed.**

Explanation: The specified value was skipped because it exceeds the number of allowed values in the DB2 parameter.

System action: Processing continues.

User response: No action is required. To stop this message from being issued, remove the extra values from the DB2 parameter.

CCQD800W **The *member_name* LPAR data member is not valid. The PL/I XML parser issued the following exception warning code: *code_number*.**

Explanation: While determining if the XML structure of the LPAR data member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQD801S **The *member_name* LPAR data member is not valid. The PL/I XML parser issued the following exception error code: *code_number*.**

Explanation: While determining if the XML structure of the LPAR data member is valid, the PL/I XML parser issued an exception error code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception error code.

CCQD850W **The *value_number* value in the LPAR parameter *parameter_name* was skipped because only *maximum_number* values are allowed.**

Explanation: The specified value was skipped because it exceeds the number of allowed values in the LPAR parameter.

System action: Processing continues.

User response: No action is required. To stop this message from being issued, remove the extra values from the LPAR parameter.

CCQD851I **The *subsystem_ID* DB2 subsystem is copied to the *member_name* DB2 member for the *group_attach_name* DB2 group attach name.**

User response: No action is required.

CCQD852I **The *member_name* DB2 member for the *group_attach_name* DB2 group attach name is copied to the *member_name* DB2 member for the *group_attach_name* DB2 group attach name.**

User response: No action is required.

CCQD854I **The *member_name* DB2 member for the *group_attach_name* DB2 group 'attach name is copied to multiple DB2 entries.**

User response: No action is required.

CCQD900W **The *member_name* product data member is not valid. The PL/I XML parser issued the following exception warning code: *code_number*.**

Explanation: While determining if the XML structure of the product data member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQD901S **The *member_name* product data member is not valid. The PL/I XML parser issued the following exception error code: *code_number*.**

Explanation: While determining if the XML structure of the product data member is valid, the PL/I XML parser issued an exception error code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS*

Programming Guide for more information about the exception warning code.

CCQD950W The *value_number* value in the product parameter *parameter_name* was skipped because only *maximum_number* values are allowed.

Explanation: The specified value was skipped because it exceeds the number of allowed values in the product parameter.

System action: Processing continues.

User response: No action is required. To stop this message from being issued, remove the extra values from the product parameter.

CCQD960I The *subsystem_ID* DB2 subsystem was changed to the *member_name* DB2 member for the *group_attach_name* DB2 group attach name.

User response: No action is required.

CCQD961I The *member_name* DB2 member for the *group_attach_name* DB2 group attach name was changed to the *subsystem_ID* DB2 subsystem.

User response: No action is required.

CCQD962I The *member_name* DB2 member for the *group_attach_name* DB2 group attach name was changed to the *member_name* DB2 member for the *group_attach_name* DB2 group attach name.

User response: No action is required.

CCQD963E The DB2 group attach name cannot be blank when the DB2 subsystem ID is blank.

Explanation: A DB2 group attach name, DB2 subsystem ID, or both must be specified.

System action: Processing stops.

User response: Specify a DB2 group attach name, DB2 subsystem ID, or both.

CCQE000S The specified message field name or message *message_ID* was not found.

Explanation: An error occurred while displaying a message field name or the specified message.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQE001E An incorrect trace level was specified. Valid trace levels are 0 - 4.

Explanation: A wrong trace level was specified. Valid trace levels are 0 - 4.

System action: Processing stops.

User response: Specify a valid trace level 0 - 4.

CCQH001W The specified option *option_name* is not valid.

Explanation: The option that was specified is not a valid option on the panel.

System action: Tools Customizer stops.

User response: Specify a valid option on the panel.

CCQH006W Before you customize a product, verify your user settings.

Explanation: The user settings must be verified before a product can be customized.

System action: Tools Customizer stops.

User response: Verify the user settings.

CCQH007E Check the user settings. One or more current values are not valid.

Explanation: One or more of the values in the user settings is not valid.

System action: Tools Customizer stops.

User response: Ensure that the specified values for the user settings are valid.

CCQH008W Before you use Tools Customizer, you must select option 0 to verify your user settings.

Explanation: The user settings must be changed before a product can be customized.

System action: Tools Customizer stops.

User response: Change the user settings.

CCQH009E You must select option 0 to change your user settings.

Explanation: User settings must be changed before a product can be customized.

System action: Tools Customizer stops.

User response: Change the user settings.

CCQI000W **The XML structure of the** *member_name* **DB2 parameter metadata member is not valid. The PL/I XML parser issued the following exception warning code:** *code_number***.**

Explanation: While determining if the DB2 parameter metadata member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQI001S **The XML structure of the** *member_name* **DB2 parameter metadata member is not valid. The PL/I XML parser issued the following exception error code:** *code_number***.**

Explanation: While determining if the DB2 parameter metadata member is valid, the PL/I XML parser issued an exception error code.

System action: Processing stops.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQI002S **The XML structure of the** *member_name* **DB2 parameter metadata member is not valid. The** *element name* **element is unknown.**

Explanation: The specified element in the DB2 parameter metadata member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI003S **The XML structure of the** *member_name* **DB2 parameter metadata member is not valid. Content is not allowed for the** *element_name* **element, but content was found.**

Explanation: The specified element cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI004S **The XML structure of the** *member_name* **DB2 parameter metadata member is not valid. Content is required for the** *element_name* **element, but content was not found.**

Explanation: The specified element requires content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI005S **The XML structure of the** *member_name* **DB2 parameter metadata member is not valid. The content length for the** *element_name* **element cannot exceed** *maximum_number* **characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI006S **The XML structure of the** *member_name* **DB2 parameter metadata member is not valid. The content length for the** *element_name* **element must be at least** *minimum_number* **characters.**

Explanation: The specified element does not contain enough characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI007S **The XML structure of the** *member_name* **DB2 parameter metadata member is not valid. The** *element_name* **element must occur at least** *minimum_number* **times.**

Explanation: The specified element does not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI008S **The XML structure of the** *member_name* **DB2 parameter metadata member is not valid. The** *attribute_name* **attribute in the** *element_name* **element cannot occur more than** *maximum_number* **times.**

Explanation: The specified attribute occurs too many times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI009S **The XML structure of the** *member_name* **DB2 parameter metadata member is not valid. The** *attribute_name* **attribute in the** *element_name* **element must occur at least** *minimum_number* **times.**

Explanation: The specified attribute did not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI010S **The XML structure of the *member_name* DB2 parameter metadata member is not valid. Content is not allowed for the *attribute_name* attribute in the *element_name* element, but content was found.**

Explanation: The specified attribute cannot have content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI011S **The XML structure of the *member_name* DB2 parameter metadata member is not valid. Content is required for the *attribute_name* attribute in the *element_name* element, but content was not found.**

Explanation: The specified attribute is missing required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI012S **The XML structure of the *member_name* DB2 parameter metadata member is not valid. The content length for the *element_name* element cannot exceed *maximum_number* characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI013S **The XML structure of the *member_name* DB2 parameter metadata member is not valid. The *attribute_name* attribute in the *element_name* element is unknown.**

Explanation: The specified attribute in the DB2 parameter metadata member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI014S **The content of the *member_name* DB2 parameter metadata member is not valid because the value of the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified value of the element is not a valid value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI015S **The content of the DB2 parameter metadata member is not valid because the value of the *attribute_name* attribute in the *element_name* element is incorrect. The value of the attribute is *value_name*.**

Explanation: The specified value of the attribute is not a valid value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI016S **The content of the DB2 parameter metadata member is not valid because the data type of the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified data type is not a valid data type.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI017S **The content of the DB2 parameter metadata member is not valid because the data type of the *attribute_name* attribute in the *element_name* element is incorrect. The value of the attribute is *value_name*.**

Explanation: The specified data type is not a valid data type.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI050S **The *member_name* DB2 parameter metadata member was not found in the *data_set_name* data set.**

Explanation: Tools Customizer could not find the specified DB2 parameter metadata member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI051S **The *parameter_name* LPAR parameter in the *template_name* template does not have associated metadata in the *member_name* LPAR parameter metadata member.**

Explanation: The specified template does not contain metadata for an LPAR parameter. The name of the LPAR parameter metadata member, the name of the LPAR parameter, and the name of the template are indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI052S **The *parameter_name* product parameter in the *template_name* template does not have associated metadata in the *member_name* product parameter metadata member.**

Explanation: The specified template does not contain metadata for a product parameter. The name of the product parameter metadata member, the name of the product parameter, and the name of the template are indicated in the message text.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI053E **The following metadata data set was not found: *data_set_name*.**

Explanation: Tools Customizer could not find the specified metadata data set.

System action: Processing stops.

User response: Ensure that the metadata data set is specified correctly. If the problem persists, contact IBM Software Support.

CCQI054E **The following metadata data set could not be opened: *data_set_name*.**

Explanation: Tools Customizer could not open the specified LPAR metadata data set.

System action: Processing stops.

User response: Ensure the metadata data set was specified correctly.

CCQI055S **The CCQ$$DB2 DB2 parameter metadata member was not found in the *data_set_name* Tools Customizer metadata data set.**

Explanation: Tools Customizer could not find the DB2 parameter metadata member in the specified Tools Customizer metadata data set.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI056S **The CCQ$$LPR LPAR parameter metadata member was not found in the *data_set_name* data set.**

Explanation: Tools Customizer could not find the specified LPAR parameter metadata member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI057S **The *member_name* product parameter metadata member was not found in the *data_set_name* data set.**

Explanation: The product parameter metadata member was not found in the specified data set.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI058I ***Product_name* does not have any DB2 parameters.**

Explanation: DB2 parameters are not required to customize the specified product.

System action: Processing continues.

User response: No action is required.

CCQI059I ***Product_name* does not have any LPAR parameters.**

Explanation: LPAR parameters are not required to customize the specified product.

System action: Processing continues.

User response: No action is required.

CCQI060S **The *parameter_name* DB2 parameter in the *task_description* task condition does not have associated metadata in the *member_name* DB2 parameter metadata member.**

Explanation: Associated metadata is missing for the specified DB2 parameter in a task.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI061S **The *parameter_name* LPAR parameter in the *task_description* task condition does not have associated metadata in the *member_name* LPAR parameter metadata member.**

Explanation: Associated metadata is missing for the specified LPAR parameter in a task.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI062S **The *parameter_name* product parameter in the *task_description* task condition does not have associated metadata in the *member_name* product parameter metadata member.**

Explanation: Associated metadata is missing for the specified product parameter in a task.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI063S **The** *parameter_name* **DB2 parameter in the** *task_description* **task and the** *step_description* **step does not have associated metadata in the** *member_name* **DB2 parameter metadata member.**

Explanation: Associated metadata is missing for the specified DB2 parameter in a task and step.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI064S **The** *parameter_name* **LPAR parameter in the** *task_description* **task and the** *step_description* **step does not have associated metadata in the** *member_name* **LPAR parameter metadata member.**

Explanation: Associated metadata is missing for the specified LPAR parameter in a task and step.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI065S **The** *parameter_name* **product parameter in the** *task_description* **task and the** *step_description* **step does not have associated metadata in the** *member_name* **parameter metadata member.**

Explanation: Associated metadata is missing for the specified parameter in a task and step.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI066S **The** *parameter_name* **DB2 parameter in the** *task_description* **task,** *step_description* **step, and** *template_name* **template condition does not have associated metadata in the** *member_name* **DB2 parameter metadata member.**

Explanation: Associated metadata is missing for the specified DB2 parameter in a task, step, and template.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI067S **The** *parameter_name* **LPAR parameter in the** *task_description* **task,** *step_description* **step, and** *template_name* **template condition does not have associated metadata in the** *member_name* **LPAR parameter metadata member.**

Explanation: Associated metadata is missing for the specified LPAR parameter in a task, step, and template.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI068S **The** *parameter_name* **product parameter in the** *task_description* **task,** *step_description* **step, and** *template_name* **template condition does not have associated metadata in the** *member_name* **product parameter metadata member.**

Explanation: Associated metadata is missing for the specified product parameter in a task, step, and template.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI069S **Product metadata does not support multiple configurations, but the** *template_name* **product template contains the** *parameter_name* **parameter. Enable multiple configurations support for this product, and try again.**

Explanation: The specified template contains a parameter for multiple configurations, but the product is not enabled to support multiple configurations.

System action: Processing stops.

User response: Enable multiple configurations support, and try again.

CCQI070E **The** *parameter_name* **DB2 parameter metadata member is not valid. The default length for the** *parameter-element_name* **parameter element exceeds the length of the parameter. The default length is** *default_length***, and the specified length is** *specified_length***. The default length will be truncated accordingly.**

Explanation: The specified length cannot be shorter than the default length.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI071E **The** *parameter_name* **LPAR parameter metadata member is not valid. The default length for the** *parameter-element_name* **parameter element exceeds the length of the parameter. The default length is** *default_length***, and the specified length is** *specified_length***. The default length will be truncated accordingly.**

Explanation: The specified length cannot be shorter than the default length.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI072E **The *parameter_name* product parameter metadata member is not valid. The default length for the *parameter-element_name* parameter element exceeds the length of the parameter. The default length is *default_length*, and the specified length is *specified_length*. The default length will be truncated accordingly.**

Explanation: The specified length cannot be shorter than the default length.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI073S **The XML structure of the *member_name* DB2 parameter metadata member is not valid. The following value of the *attribute_name* attribute in the *element_name* element already exists: *value_name*.**

Explanation: The specified value already exists for an attribute.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI074S **The XML structure of the *member_name* LPAR parameter metadata member is not valid. The following value of the *attribute_name* attribute in the *element_name* element already exists: *value_name*.**

Explanation: The specified value already exists for an attribute.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI075S **The XML structure of the *member_name* product parameter metadata member is not valid. The following value of the *attribute_name* attribute in the *element_name* element already exists: *value_name*.**

Explanation: The specified value already exists for an attribute.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI076S **The XML structure of the *member_name* DB2 parameter metadata member is not valid. The *parameter_name* parameter refers to the *section-name* section. This section was not found in the DB2 parameter metadata member.**

Explanation: The specified value already exists for an attribute.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI077S **The XML structure of the *member_name* LPAR parameter metadata member is not valid. The *parameter_name* parameter refers to the *section-name* section. This section was not found in the LPAR parameter metadata member.**

Explanation: The specified parameter refers to a section that is not in the LPAR parameter metadata member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI078S **The XML structure of the *member_name* product parameter metadata member is not valid. The *parameter_name* parameter refers to the *section-name* section. This section was not found in the product parameter metadata member.**

Explanation: The specified parameter refers to a section that is not in the product parameter metadata member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI080S **The content of the *member_name* DB2 parameter metadata member is not valid because the value of the *attribute_name* attribute in the *element_name* element is incorrect. The value of the attribute is *value_name*.**

Explanation: The specified value for an attribute in the DB2 parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI081S **The content of the *member_name* LPAR parameter metadata member is not valid because the value of the *attribute_name* attribute in the *element_name* element is incorrect. The value of the attribute is *value_name*.**

Explanation: The specified value for an attribute in the LPAR parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI082S **The content of the *member_name* product parameter metadata member is not valid because the value of the *attribute_name* attribute in the *element_name* element is incorrect. The value of the attribute is *value_name*.**

Explanation: The specified value for an attribute in the product parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI090S **The product-defined DB2 parameter *parameter_name* in the *member_name* parameter metadata member references the *section_ID* section ID, but this ID does not exist in either the parameter metadata member or the DB2 parameter metadata member.**

Explanation: A section that does not exist in the parameter metadata member or the DB2 parameter metadata member is referenced by the specified DB2 parameter.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI091S **The product-defined LPAR parameter in the *member_name* parameter metadata member references the *section_ID* section ID, but this ID does not exist in either the parameter metadata member or the LPAR parameter metadata member.**

Explanation: A section that does not exist in the parameter metadata member or the LPAR parameter metadata member is being referenced by the specified LPAR parameter.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI092S **The overridden DB2 parameter *parameter_name* in the *member_name* parameter metadata member does not exist in the DB2 parameter metadata member.**

Explanation: The specified parameter does not exist.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI093S **The overridden LPAR parameter *parameter_name* in the *member_name* parameter metadata member does not exist in the LPAR parameter metadata member.**

Explanation: The specified parameter does not exist.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI094S **The CCQ$$PRD product customization parameter metadata member was not found in the *data_set_name* data set.**

Explanation: The specified data set must contain the CCQ$$PRD product customization parameter metadata member

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI100W **The XML structure of the *member_name* LPAR parameter metadata member is not valid. The PL/I XML parser issued the following exception warning code: *code_number*.**

Explanation: While determining if the LPAR parameter metadata member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQI101S **The XML structure of the *member_name* LPAR parameter metadata member is not valid. The PL/I XML parser issued the following exception error code: *code_number*.**

Explanation: While determining if the LPAR parameter metadata member is valid, the PL/I XML parser issued an exception error code.

System action: Processing stops.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQI102S **The XML structure of the *member_name* LPAR parameter metadata member is not valid. The *element_name* element is unknown.**

Explanation: The specified element in the LPAR parameter metadata member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI103S **The XML structure of the** *member_name* **LPAR parameter metadata member is not valid. Content is not allowed for the** *element_name* **element, but content was found.**

Explanation: The specified element cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI104S **The XML structure of the** *member_name* **LPAR parameter metadata member is not valid. Content is required for the** *element_name* **element, but content was not found.**

Explanation: The specified element requires content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI105S **The XML structure of the** *member_name* **LPAR parameter metadata member is not valid. The content length for the** *element_name* **element cannot exceed** *maximum_number* **characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI106S **The XML structure of the** *member_name* **LPAR parameter metadata member is not valid. The content length for the** *element_name* **element must be at least** *minimum_number* **characters.**

Explanation: The specified element does not contain enough characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI107S **The XML structure of the** *member_name* **LPAR parameter metadata member is not valid. The** *element_name* **element must occur at least** *minimum_number* **times.**

Explanation: The specified element does not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI108S **The XML structure of the** *member_name* **LPAR parameter metadata member is not valid. The** *attribute_name* **attribute in the** *element_name* **element cannot occur more than** *maximum_number* **times.**

Explanation: The specified attribute occurs too many times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI109S **The XML structure of the** *member_name* **LPAR parameter metadata member is not valid. The** *attribute_name* **attribute in the** *element_name* **element must occur at least** *minimum_number* **times.**

Explanation: The specified attribute did not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI110S **The XML structure of the** *member_name* **LPAR parameter metadata member is not valid. Content is not allowed for the** *attribute_name* **attribute in the** *element_name* **element, but content was found.**

Explanation: The specified attribute cannot have content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI111S **The XML structure of the** *member_name* **LPAR parameter metadata member is not valid. Content is required for the** *attribute_name* **attribute in the** *element_name* **element, but content was not found.**

Explanation: The specified attribute is missing required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI112S **The XML structure of the** *member_name* **LPAR parameter metadata member is not valid. The content length for the** *element_name* **element cannot exceed** *maximum_number* **characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI113S **The XML structure of the *member_name* LPAR parameter metadata member is not valid. The *attribute_name* attribute in the *element_name* element is unknown.**

Explanation: The specified attribute in the LPAR parameter metadata member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI114S **The content of the *member_name* LPAR parameter metadata member is not valid because the value of the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified value for an element in the LPAR parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI115S **The content of the *member_name* LPAR parameter metadata member is not valid because the value of the *attribute_name* attribute in the *element_name* element is incorrect. The value of the attribute is *value_name*.**

Explanation: The specified value for an attribute in the LPAR parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI116S **The content of the *member_name* LPAR parameter metadata member is not valid because the data type of the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified data type value for an element in the LPAR parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI117S **The content of the *member_name* LPAR parameter metadata member is not valid because the data type of the *attribute_name* attribute in the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified data type value for an attribute in the LPAR parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI120S **The XML structure of the *member_name* DB2 parameter metadata member is not valid. The *element_name* element in the *parameter_name* parameter contains duplicate values for the *element_name* element. The duplicate value is *value_name*.**

Explanation: An element contains the specified duplicate value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI121S **The XML structure of the *member_name* LPAR parameter metadata member is not valid. The *element_name* element in the *parameter_name* parameter contains duplicate values for the *element_name* element. The duplicate value is *value_name*.**

Explanation: An element contains the specified duplicate value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI122S **The XML structure of the *member_name* parameter metadata member is not valid. The *element_name* element in the *parameter_name* parameter contains duplicate values for the *element_name* element. The duplicate value is *value_name*.**

Explanation: An element contains the specified duplicate value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI123S **The XML structure of the *member_name* discover metadata member is not valid. The *element_name* element in the *parameter_name* parameter contains duplicate values for the *element_name* element. The duplicate value is *value_name*.**

Explanation: An element contains the specified duplicate value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI124S **The XML structure of the** *member_name* **product customization parameter metadata member is not valid. The** *element_name* **element in the** *parameter_name* **parameter contains duplicate values for the** *element_name* **element. The duplicate value is** *value_name***.**

Explanation: An element contains the specified duplicate value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI200W **The XML structure of the** *member_name* **information metadata member is not valid. The PL/I XML parser issued the following exception warning code:** *code_number***.**

Explanation: While determining if the information metadata member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQI201S **The XML structure of the** *member_name* **information metadata member is not valid. The PL/I XML parser issued the following exception error code:** *code_number***.**

Explanation: While determining if the information metadata member is valid, the PL/I XML parser issued an exception error code.

System action: Processing stops.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQI202S **The XML structure of the** *member_name* **information metadata member is not valid. The** *element name* **element is unknown.**

Explanation: The specified element in the information metadata member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI203S **The XML structure of the** *member_name* **information metadata member is not valid. Content is not allowed for the** *element_name* **element, but content was found.**

Explanation: The specified element cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI204S **The XML structure of the** *member_name* **information metadata member is not valid. Content is required for the** *element_name* **element, but content was not found.**

Explanation: The specified element requires content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI205S **The XML structure of the** *member_name* **information metadata member is not valid. The content length for the** *element_name* **element cannot exceed** *maximum_number* **characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI206S **The XML structure of the** *member_name* **information metadata member is not valid. The content length for the** *element_name* **element must be at least** *minimum_number* **characters.**

Explanation: The specified element does not contain enough characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI207S **The XML structure of the** *member_name* **information metadata member is not valid. The** *element_name* **element must occur at least** *minimum_number* **times.**

Explanation: The specified element does not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI208S **The XML structure of the *member_name* information metadata member is not valid. The *attribute_name* attribute in the *element_name* element cannot occur more than *maximum_number* times.**

Explanation: The specified attribute occurs too many times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI209S **The XML structure of the *member_name* information metadata member is not valid. The *attribute_name* attribute in the *element_name* element must occur at least *minimum_number* times.**

Explanation: The specified attribute did not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI210S **The XML structure of the *member_name* information metadata member is not valid. Content is not allowed for the *attribute_name* attribute in the *element_name* element, but content was found.**

Explanation: The specified attribute cannot have content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI211S **The XML structure of the *member_name* information metadata member is not valid. Content is required for the *attribute_name* attribute in the *element_name* element, but content was not found.**

Explanation: The specified attribute is missing required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI212S **The XML structure of the *member_name* information metadata member is not valid. The content length for the *element_name* element cannot exceed *maximum_number* characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI213S **The XML structure of the *member_name* information metadata member is not valid. The *attribute_name* attribute in the *element_name* element is unknown.**

Explanation: The specified attribute in the information metadata member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI214S **The content of the *member_name* information metadata member is not valid because the value of the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified value for an element in the information metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI215S **The content of the *member_name* information metadata member is not valid because the value of the *attribute_name* attribute in the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified value for an attribute in the information metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI216S **The content of the *member_name* information metadata member is not valid because the data type of the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified data type value for an element in the information metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI217S **The content of the *member_name* information metadata member is not valid because the data type of the *attribute_name* attribute in the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified data type value for an

attribute in the information metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI218S **The content of the *member_name* information metadata member is not valid. The length of the *value_name* value that of the *attribute_name* attribute is longer than the *value_name* value of the *attribute_name* attribute.**

Explanation: The first specified value cannot be longer than the second specified value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI219S **The content of the *member_name* information metadata member is not valid. The *value_name* value of the *attribute_name* attribute contains the *value_name* value.**

Explanation: The first specified value cannot be longer than the second specified value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI220S **The XML structure of the *member_name* information metadata member is not valid. Content for the *attribute_name* attribute in the *element_name* element exceeds *maximum_number* characters.**

Explanation: The specified attribute contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI223S **The XML structure of the *member_name* information metadata member is not valid. The value that is specified for the DB2 Level already exists. The value is *value_name*.**

Explanation: The specified value already exists.

System action: Processing stops.

User response: Specify a different DB2 level. If the problem persists, contact IBM Software Support.

CCQI224S **The XML structure of the *member_name* information metadata member is not valid. The value that is specified for the DB2 Mode already exists. The value is *value_name*.**

Explanation: The specified value already exists.

System action: Processing stops.

User response: Specify a different DB2 mode. If the problem persists, contact IBM Software Support.

CCQI250S **The information metadata member was not found in the *data_set_name* data set.**

Explanation: Tools Customizer could not find the information metadata member in the specified data set.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI251E **The *member_name* member was not accessible in the *data_set_name* data set.**

Explanation: The specified member could not be accessed in the data set.

System action: Processing stops.

User response: Specify the correct metadata library.

CCQI252S **The information metadata member was not found in the *library_name* component metadata library that is part of the *library_name* pack metadata library. The name of the pack is *pack_name*.**

Explanation: The specified component metadata library does not contain the information metadata member.

System action: Processing stops.

User response: Specify the correct metadata library.

CCQI253E **The *library_name* Tools Customizer metadata library is not current. Update the metadata library on the Tools Customizer Settings panel.**

Explanation: The specified metadata library is not current.

System action: Processing stops.

User response: Specify a current metadata library on the Tools Customizer Settings panel.

CCQI300W **The XML structure of the** *member_name* **sequence metadata member is not valid. The PL/I XML parser issued the following exception warning code:** *code_number***.**

Explanation: While determining if the sequence metadata member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQI301S **The XML structure of the** *member_name* **sequence metadata member is not valid. The PL/I XML parser issued the following exception error code:** *code_number***.**

Explanation: While determining if the sequence metadata member is valid, the PL/I XML parser issued an exception error code.

System action: Processing stops.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception error code, and contact IBM Software Support.

CCQI302S **The XML structure of the** *member_name* **sequence metadata member is not valid. The** *element_name* **element is unknown.**

Explanation: The specified element in the sequence metadata member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI303S **The XML structure of the** *member_name* **sequence metadata member is not valid. Content is not allowed for the** *element_name* **element, but content was found.**

Explanation: The specified element cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI304S **The XML structure of the** *member_name* **sequence metadata member is not valid. Content is required for the** *element_name* **element, but content was not found.**

Explanation: The specified element is missing required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI305S **The XML structure of the** *member_name* **sequence metadata member is not valid. Content length for the** *element_name* **element cannot exceed** *maximum_number* **characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI306S **The XML structure of the** *member_name* **sequence metadata member is not valid. The** *element_name* **element cannot occur more than** *maximum_number* **times.**

Explanation: The specified element occurs too many times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI307S **The XML structure of the** *member_name* **sequence metadata member is not valid. The** *element_name* **element must occur at least** *minimum_number* **times.**

Explanation: The specified element does not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI308S **The XML structure of the** *member_name* **sequence metadata member is not valid. The** *attribute_name* **attribute in the** *element_name* **element cannot occur more than** *maximum_number* **times.**

Explanation: The specified attribute occurs too many times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI309S **The XML structure of the** *member_name* **sequence metadata member is not valid. The** *attribute_name* **attribute in the** *element_name* **element must occur at least** *minimum_number* **times.**

Explanation: The specified attribute does not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI310S **The XML structure of the** *member_name* **sequence metadata member is not valid. Content is not allowed for the** *attribute_name* **attribute in the** *element_name* **element, but content was found.**

Explanation: The specified attribute cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI311S **The XML structure of the** *member_name* **sequence metadata member is not valid. Content is required for the** *attribute_name* **attribute in the** *element_name* **element, but content was not found.**

Explanation: The specified attribute is missing required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI312S **The XML structure of the** *member_name* **sequence metadata member is not valid. The content length for the** *element_name* **element cannot exceed** *maximum_number* **characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI313S **The XML structure of the** *member_name* **sequence metadata member is not valid. The** *attribute_name* **attribute in the** *element_name* **element is unknown.**

Explanation: The specified attribute in the sequence metadata member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI314S **The content of the** *member_name* **sequence metadata member is not valid because the value of the** *element_name* **element is incorrect. The value is** *value_name***.**

Explanation: The specified value for an element in the sequence metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI315S **The content of the** *member_name* **sequence metadata member is not valid because the value of the** *attribute_name* **attribute in the** *element_name* **element is incorrect. The value is** *value_name***.**

Explanation: The specified value for an attribute in the sequence metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI316S **The content of the** *member_name* **sequence metadata member is not valid because the data type of the** *element_name* **element is incorrect. The value is** *value_name***.**

Explanation: The specified data type value for an element in the sequence metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI317S **The content of the** *member_name* **sequence metadata member is not valid because the data type of the** *attribute_name* **attribute in the** *element_name* **element is incorrect. The value is** *value_name***.**

Explanation: The specified data type value for an attribute in the sequence metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI350S **The XML structure of the** *member_name* **sequence metadata member is not valid because the value of the** *attribute_name* **attribute in the** *element_name* **element is incorrect. The value is** *value_name***.**

Explanation: A specified value for an attribute in the sequence metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI351S **The** *member_name* **sequence metadata member was not found in the** *data_set_name* **metadata data set.**

Explanation: Tools Customizer could not find the specified sequence metadata member in the metadata data set.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI352S **The *template_name* product template was not found in the *data_set_name* metadata data set.**

Explanation: Tools Customizer could not find the specified product template in the data set.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI353S **The sequence metadata member was not found in the *data_set_name* component data set that is part of the *data_set_name* pack.**

Explanation: Tools Customizer could not find the sequence metadata member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI360S **The XML structure of the *member_name* sequence metadata member is not valid. The value of the *attribute_name* attribute in the *element_name* element already exists.**

Explanation: The specified attribute contains a value that already exists.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI361S **The XML structure of the *member_name* sequence metadata member is not valid. The condition element on the *level_type* level already contains a relational operator.**

Explanation: A relational operator already exists for the condition element on the specified level.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI362S **The XML structure of the *member_name* sequence metadata member is not valid. The condition element on the *level_type* level must contain only one content string or content number element.**

Explanation: Only one content string element or content number element can be contained in the condition element on the specified level.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI363S **The XML structure of the *member_name* sequence metadata member is not valid. The condition element in the *element_name* element with the *attribute_name* attribute must contain either the content string element or content number element.**

Explanation: Either the content string element or the content number element must be in the condition element.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI400W **The XML structure of the *member_name* parameter metadata member is not valid. The PL/I XML parser issued the following exception warning code: *code_number*.**

Explanation: While determining the parameter metadata member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQI401S **The XML structure of the *member_name* parameter metadata member is not valid. The PL/I XML parser issued the following exception error code: *code_number*.**

Explanation: While determining if the parameter metadata member is valid, the PL/I XML parser issued an exception error code.

System action: Processing stops.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQI402S **The XML structure of the *member_name* parameter metadata member is not valid. The *element name* element is unknown.**

Explanation: The specified element in the parameter metadata member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI403S **The XML structure of the *member_name* parameter metadata member is not valid. Content is not allowed for the *element_name* element, but content was found.**

Explanation: The specified element cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI404S **The XML structure of the *member_name* parameter metadata member is not valid. Content is required for the *element_name* element, but content was not found.**

Explanation: The specified element requires content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI405S **The XML structure of the *member_name* parameter metadata member is not valid. The content length for the *element_name* element cannot exceed *maximum_number* characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI406S **The XML structure of the *member_name* parameter metadata member is not valid. The content length for the *element_name* element must be at least *minimum_number* characters.**

Explanation: The specified element does not contain enough characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI407S **The XML structure of the *member_name* parameter metadata member is not valid. The *element_name* element must occur at least *minimum_number* times.**

Explanation: The specified element does not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI408S **The XML structure of the *member_name* parameter metadata member is not valid. The *attribute_name* attribute in the *element_name* element cannot occur more than *maximum_number* times.**

Explanation: The specified attribute occurs too many times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI409S **The XML structure of the *member_name* parameter metadata member is not valid. The *attribute_name* attribute in the *element_name* element must occur at least *minimum_number* times.**

Explanation: The specified attribute does not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI410S **The XML structure of the *member_name* parameter metadata member is not valid. Content is not allowed for the *attribute_name* attribute in the *element_name* element, but content was found.**

Explanation: The specified attribute cannot have content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI411S **The XML structure of the *member_name* parameter metadata member is not valid. Content is required for the *attribute_name* attribute in the *element_name* element, but content was not found.**

Explanation: The specified attribute is missing required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI412S **The XML structure of the *member_name* parameter metadata member is not valid. The content length for the *element_name* element cannot exceed *maximum_number* characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI413S **The XML structure of the *member_name* parameter metadata member is not valid. The *attribute_name* attribute in the *element_name* element is unknown.**

Explanation: The specified attribute in the parameter metadata member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI414S **The content of the *member_name* parameter metadata member is not valid because the value of the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified value for an element in the parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI415S **The content of the *member_name* parameter metadata member is not valid because the value of the *attribute_name* attribute in the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified value for an attribute in the parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI416S **The content of the *member_name* parameter metadata member is not valid because the data type of the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified data type value for an element in the parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI417S **The content of the *member_name* parameter metadata member is not valid because the data type of the *attribute_name* attribute in the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified data type value for an attribute in the parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI420S **The XML structure of the *member_name* parameter metadata member is not valid. The *element_name* element is unknown for the overridden DB2 parameter.**

Explanation:

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI421S **The XML structure of the *member_name* parameter metadata member is not valid. The *element_name* element is unknown for the overridden LPAR parameter.**

Explanation:

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI422S **The XML structure of the *member_name* parameter metadata member is not valid. The *attribute_name* attribute in the *element_name* element is unknown for the overridden DB2 parameter.**

Explanation:

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI423S **The XML structure of the *member_name* parameter metadata member is not valid. The *attribute_name* attribute in the *element_name* element is unknown for the overridden LPAR parameter.**

Explanation:

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI450S **The *member_name* product parameter metadata member was not found in the *data_set_name* data set.**

Explanation: Tools Customizer could not find the specified product parameter metadata member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI510W **The *data_set_name* data store data set does not exist.**

Explanation: The specified data store data set does not exist.

System action: Processing continues.

User response: Ensure that the data store data set exists.

CCQI511S **The *data_set_name* data store data set cannot be opened by using the *disposition_type* disposition.**

Explanation: The specified data store data set could not be opened with the specified disposition.

System action: Processing continues.

User response: Contact IBM Software Support.

CCQI512S **The *data_set_name* data store data set cannot be opened by using the *option-type* option.**

Explanation: The specified data store data set was unable to be opened with the specified option.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI600W **The XML structure of the *member_name* product customization parameter metadata member is not valid. The PL/I XML parser issued the following exception warning code: *code_number*.**

Explanation: While determining if the product customization parameter metadata member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the warning.

CCQI601S **The XML structure of the *member_name* product customization parameter metadata member is not valid. The PL/I XML parser issued the following exception error code: *code_number*.**

Explanation: While determining if the product customization parameter metadata member is valid, the PL/I XML parser issued an exception error code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the warning.

CCQI602S **The XML structure of the *member_name* product customization parameter metadata member is not valid. The *element_name* element is unknown.**

Explanation: The specified product customization parameter metadata member contains an unknown element.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI603S **The XML structure of the *member_name* product customization parameter metadata member is not valid. Content is not allowed for the *element_name* element, but content was found.**

Explanation: Content was found in an element that cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI604S **The XML structure of the *member_name* product customization parameter metadata member is not valid. Content is required for the *element_name* element, but content was not found.**

Explanation: The specified element does not contain required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI605S **The XML structure of the *member_name* product customization parameter metadata member is not valid. The content length for the *element_name* element 'cannot exceed *maximum_number* characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI606S **The XML structure of the *member_name* product customization parameter metadata member is not valid. The *element_name* element cannot occur more than *maximum_number* times.**

Explanation: The specified element occurs too many times in the product customization parameter metadata member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI607S **The XML structure of the** *member_name* **product customization parameter metadata member is not valid. The** *element_name* **element must occur at least** *minimum_number* **times.**

Explanation: The specified element does not occur enough times in the product customization parameter metadata member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI608S **The XML structure of the** *member_name* **product customization parameter metadata member is not valid. The** *attribute_name* **attribute in the** *element_name* **element cannot occur more than** *maximum_number* **times.**

Explanation: The specified attribute occurs too many times in the product customization parameter metadata member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI609S **The XML structure of the** *member_name* **product customization parameter metadata member is not valid. The** *attribute_name* **attribute in the** *element_name* **element must occur at least** *minimum_number* **times.**

Explanation: The specified attribute does not occur enough times in the product customization parameter metadata member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI610S **The XML structure of the** *member_name* **product customization parameter metadata member is not valid. Content is not allowed for the** *attribute_name* **attribute in the** *element_name* **element, but content was found.**

Explanation: Content was found in an element that cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI611S **The XML structure of the** *member_name* **product customization parameter metadata member is not valid. Content is required for the** *attribute_name* **attribute 'in the** *element_name* **element, but content was not found.**

Explanation: The specified attribute does not contain required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI612S **The XML structure of the** *member_name* **product customization parameter metadata member is not valid. The content length for the** *attribute_name* **attribute in the** *element_name* **element cannot exceed** *maximum_number* **characters.**

Explanation: The specified attribute contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI613S **The XML structure of the** *member_name* **product customization parameter metadata member is not valid. The** *attribute_name* **attribute in the** *element_name* **element is unknown.**

Explanation: The specified product customization parameter metadata member contains an unknown attribute.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI614S **The XML structure of the** *member_name* **product customization parameter metadata member is not valid. The value of the** *element_name* **element is not valid. The value** *value_name***.**

Explanation: The specified value of the element is not a valid value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI615S **The XML structure of the** *member_name* **product customization parameter metadata member is not valid. The value of the** *attribute_name* **attribute for the** *element_name* **element is not valid. The value is** *value_name***.**

Explanation: The specified value of the attribute is not a valid value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI616S **The XML structure of the *member_name* product customization parameter metadata member is not valid. The data type of the *element_name* element is 'not valid. The value of the element is *value_name*.**

Explanation: The specified data type is not a valid data type.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI617S **The XML structure of the *member_name* product customization parameter metadata member is not valid. The data type of the *attribute_name* attribute for the *element_name* element is not valid. The value of the attribute is *value_name*..**

Explanation: The specified data type is not a valid data type.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI650S **The XML structure of the *member_name* product customization parameter metadata member is not valid. The following value of the *attribute_name* attribute in the *element_name* element already exists: *value_name*.**

Explanation: The specified value for an attribute already exists.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI651S **The XML structure of the *member_name* product customization parameter metadata member is not valid. The *parameter_name* parameter refers to the following section, which was not found in the *member_name* product customization parameter metadata member: *section-name*.**

Explanation: The specified section is not in the product customization parameter metadata member.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI652S **The *member_name* product customization metadata member not valid. The default length for the *element_name* parameter element exceeds the length of the parameter. The default length is *default_length*, and the specified length is *specified_length*. The default length will be truncated accordingly.**

Explanation: The specified length cannot be shorter than the default length.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI653S **The content of the *member_name* product customization parameter metadata member is not valid. The value of the *attribute_name* attribute in the *element_name* element is not valid. The value of the attribute is *value_name*.**

Explanation: The specified value of the attribute is not a valid value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI700W **The XML structure of the *member_name* solution pack metadata member is not valid. The PL/I XML parser issued the following exception warning code: *code_number*.**

Explanation: While determining if the specified solution pack metadata member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the warning.

CCQI701S **The XML structure of the *member_name* solution pack metadata member is not valid. The PL/I XML parser issued the following exception error code: *code_number*.**

Explanation: While determining if the specified solution pack metadata member is valid, the PL/I XML parser issued an exception error code.

System action: Processing stops.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the error.

CCQI702S **The XML structure of the *member_name* solution pack metadata member is not valid. The *element_name* element is unknown.**

Explanation: The specified solution pack metadata member contains an unknown element.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI703S **The XML structure of the *member_name* solution pack metadata member is not valid. Content is not allowed for the *element_name* element, but content was found**

Explanation: Content was found in an element that cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI704S **The XML structure of the *member_name* solution pack metadata member is not valid. Content is required for the *element_name* element, but content was not found.**

Explanation: The specified element does not contain required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI705S **The XML structure of the *member_name* solution pack metadata member is not valid. The content length for the *element_name* element cannot exceed *maximum_number* characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI706S **The XML structure of the *member_name* solution pack metadata member is not valid. The *element_name* element cannot occur more than *maximum_number* times.**

Explanation: The specified element occurs too many times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI707S **The XML structure of the *member_name* solution pack metadata member is not valid. The *element_name* element must occur at least *minimum_number* times.**

Explanation: The specified element does not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI708S **The XML structure of the *member_name* solution pack metadata member is not valid. The *attribute_name* attribute in the *element_name* element cannot occur more than *maximum_number* times.**

Explanation: The specified attribute occurs too many times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI709S **The XML structure of the *member_name* solution pack metadata member is not valid. The *attribute_name* attribute in the *element_name* element must occur at least *minimum_number* times.**

Explanation: The specified attribute does not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI710S **The XML structure of the *member_name* solution pack metadata member is not valid. Content is not allowed for the *attribute_name* attribute in the *element_name* element, but content was found.**

Explanation: The specified attribute cannot have content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI711S **The XML structure of the *member_name* solution pack metadata member is not valid. Content is required for the *attribute_name* attribute in the *element_name* element, but content was not found.**

Explanation: The specified attribute is missing content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI712S **The XML structure of the *member_name* solution pack metadata member is not valid. The content length for the *attribute_name* attribute in the *element_name* element cannot exceed *maximum_number* characters.**

Explanation: The specified attribute contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI713S **The XML structure of the *member_name* solution pack metadata member is not valid. The *attribute_name* attribute in the *element_name* element is unknown.**

Explanation: The specified attribute in the solution pack metadata member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI714S **The XML structure of the *member_name* solution pack metadata member is not valid because the value of the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified value of the element is not a valid value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI715S **The XML structure of the *member_name* solution pack metadata member is not valid because the value of the *attribute_name* attribute in the *element_name* element is incorrect. The value of the attribute is *value_name*.**

Explanation: The specified value of the attribute is not a valid value.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI716S **The XML structure of the *member_name* solution pack metadata member is not valid because the data type of the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified data type is not a valid data type.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI717S **The XML structure of the *member_name* solution pack metadata member is not valid because the data type of the *attribute_name* attribute in the *element_name* element is incorrect. The value of the attribute is *value_name*.**

Explanation: The specified data type is not a valid data type.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI720S **The XML structure of the *member_name* solution pack metadata member is not valid. The msg element is required for the *component_name* component that is not customizable.**

Explanation: The msg element is required for the specified component, which cannot be customized by using Tools Customizer.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI750S **The solution pack metadata member was not found in the *library_name* metadata library.**

Explanation: Tools Customizer could not find the solution pack metadata member in the specified library.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI751S **The version in the *library_name* solution pack metadata library is different than the version in the *library_name* component metadata library. The name of the pack is *pack_name*, and the name of the component is *component_name*.**

Explanation: The version in the solution pack metadata library does not match the version in the component metadata library.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI752S **The release in the *library_name* solution pack metadata library is different than the release in the *library_name* component metadata library. The name of the pack is *pack_name*, and the name of the component is *component_name*.**

Explanation: The release in the solution pack metadata library does not match the release in the component metadata library.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQI753S **The modification level in the *library_name* solution pack metadata library is different than the modification level in the *library_name* component metadata library. The name of the pack is *pack_name*, and the name of the component is *component_name*.**

Explanation: The modification level in the solution pack metadata library does not match the modification level in the component metadata library.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQM002E **The *command_name* line command is not valid: .**

Explanation: The specified line command is not valid.

System action: Processing continues.

User response: Specify a valid line command on the panel.

CCQO000W **The XML structure of the *member_name* discover parameter metadata member is not valid. The PL/I XML parser issued the following exception warning code: *code_number*.**

Explanation: While determining if the discover parameter metadata member is valid, the PL/I XML parser issued an exception warning code.

System action: Processing continues.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code.

CCQO001S **The XML structure of the *member_name* discover parameter metadata member is not valid. The PL/I XML parser issued the following exception error code: *code_number*.**

Explanation: While determining if the Discover metadata member is valid, the PL/I XML parser issued an exception error code.

System action: Processing stops.

User response: See the *Enterprise PL/I for z/OS Programming Guide* for more information about the exception warning code. Contact IBM Software Support.

CCQO002S **The XML structure of the *member_name* discover parameter metadata member is not valid. The *element_name* element is unknown.**

Explanation: The specified element in the discover parameter metadata member is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO003S **The XML structure of the *member_name* discover parameter metadata member is not valid. Content is not allowed for the *element_name* element, but content was found.**

Explanation: The specified element cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO004S **The XML structure of the *member_name* discover parameter metadata member is not valid. Content is required for the *element name* element, but content was not found.**

Explanation: The specified element is missing required content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO005S **The XML structure of the *member_name* discover parameter metadata member is not valid. The content length for the *element_name* element cannot exceed *maximum_number* characters.**

Explanation: The specified element contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO006S **The XML structure of the *member_name* discover parameter metadata member is not valid. The *element_name* element cannot occur more than *maximum_number* times.**

Explanation: The specified element occurs too many times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO007S **The XML structure of the *member_name* discover parameter metadata member is not valid. The *element_name* element must occur at least *minimum_number* times.**

Explanation: The specified element does not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO008S **The XML structure of the *member_name* discover parameter metadata member is not valid. The *attribute_name* attribute in the *element_name* element cannot occur more than *maximum_number* times.**

Explanation: The specified attribute occurs too many times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO009S **The XML structure of the *member_name* discover parameter metadata member is not valid. The *attribute_name* attribute in the *element_name* element must occur at least *minimum_number* times.**

Explanation: The specified attribute does not occur enough times.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO010S **The XML structure of the *member_name* discover parameter metadata member is not valid. Content is not allowed for the *attribute_name* attribute in the *element_name* element, but content was found.**

Explanation: The specified attribute cannot contain content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO011S **The XML structure of the *member_name* discover parameter metadata member is not valid. Content is required for the *attribute_name* attribute in the *element_name* element, but content was not found.**

Explanation: The specified attribute requires content.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO012S **The XML structure of the *member_name* discover parameter metadata member is not valid. The content length for the *attribute_name* attribute in the *element_name* element in the cannot exceed *maximum_number* characters.**

Explanation: The specified attribute contains too many characters.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO013S **The XML structure of the *member_name* discover parameter metadata member is not valid. The *attribute_name* attribute in the *element_name* element is unknown.**

Explanation: The specified attribute is unknown.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO014S **The content of the *member_name* discover parameter metadata member is not valid because the value of the *element_name* element is incorrect. The value is *value_name*.**

Explanation: A The specified value for an element in the discover parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO015S **The content of the *member_name* discover parameter metadata member is not valid because the value of the *attribute_name* attribute in the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified value for an attribute in the discover parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO016S **The content of the *member_name* discover parameter metadata member is not valid because the data type of the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified data type value for an element in the discover parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO017S **The content of the *member_name* product parameter metadata member is not valid because the data type of the *attribute_name* attribute in the *element_name* element is incorrect. The value is *value_name*.**

Explanation: The specified data type value for an attribute in the product parameter metadata member is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO050S **The *data_set_name* Discover REXX EXEC data set could not be initialized or was not found.**

Explanation: Tools Customizer could not find or could not initialize the specified Discover REXX EXEC data set.

System action: Processing stops.

User response: Ensure that the Discover REXX EXEC is specified correctly.

CCQO051W **The *data_sharing_group_ID* data sharing group ID cannot contain more than four characters.**

Explanation: The specified data sharing group ID contains too many characters.

System action: Processing continues.

User response: Ensure that the specified data sharing group ID does not exceed four characters.

CCQO052S **The *REXX_EXEC_name* Discover REXX EXEC was not found in the *data_set_name* Discover data set.**

Explanation: Tools Customizer could not find the Discover REXX EXEC in the specified data set.

System action: Processing stops.

User response: Ensure that the Discover data set was specified correctly.

CCQO053W **The *LPAR_name* LPAR name cannot contain more than eight characters.**

Explanation: The specified LPAR name contains too many characters.

System action: Processing continues.

User response: Ensure that the specified LPAR name does not exceed eight characters.

CCQO054W **The *subsystem_ID* DB2 SSID cannot contain more than four characters. The record was not processed.**

Explanation: The specified DB2 SSID contains too many characters.

System action: Processing continues.

User response: Ensure that the specified DB2 SSID does not exceed four characters.

CCQO055W **The *parameter_name* DB2 group attach name parameter is in the *record_name* Discover record, but a DB2 group attach name was not specified. The record was not processed.**

Explanation: The Discover record contains a data sharing group parameter, but a DB2 group attach name was not specified.

System action: Processing continues.

User response: Ensure that information is specified correctly on the Discover Customized Product Information panel.

CCQO056W **The *parameter_name* DB2 parameter in the *record_name* Discover record did not have a DB2 group attach name or a DB2 SSID. The record was not processed.**

Explanation: The Discover record did not have a DB2 group attach name or a DB2 subsystem ID in the DB2 parameter.

System action: Processing continues.

User response: Ensure that information is specified correctly on the Discover Customized Product Information panel.

CCQO057W **The Discover EXEC could not find the *parameter_name* parameter in the metadata for the product to be customized. The record was not processed.**

Explanation: The specified parameter could not be found in the metadata for the product to be customized.

System action: Processing continues.

User response: Ensure that information is specified correctly on the Discover Customized Product Information panel.

CCQO058W The *parameter_name* product parameter name in the *record_type* Discover record does not start with CCQ_LPR_, CCQ_DB2_, or CCQ_PRD_. The record was not processed.

Explanation: The parameter in the record does not start with CCQ_DB2_, CCQ_LPAR_, or CCQ_PRD_.

System action: Processing continues.

User response: Contact IBM Software Support.

CCQO059W The *parameter_name* product parameter cannot contain more than 72 characters. The record was not processed.

Explanation: The specified product parameter contains too many characters.

System action: Processing continues.

User response: Ensure that the specified product parameter does not exceed 72 characters.

CCQO060W The *record_name* Discover record from the REXX EXEC output must start with the following record type: *record_type*. The record was not processed.

Explanation: A Discover record from the REXX EXEC output must start with the specified DB2 record type.

System action: Processing continues.

User response: Contact IBM Software Support.

CCQO061I If you do not have a previously customized version of the product, do not run the Discover EXEC. Press END to go to the Customizer Workplace panel.

Explanation: This message is issued when you customize a product for a the first time. It prompts you to use the Discover EXEC to discover data from a previous customization of the specified product.

System action: Processing continues.

User response:

Tip: Using the Discover EXEC saves time and reduces errors that can error when parameters are specified manually. If you want to use the Discover EXEC, specify the required information on the Discover Customized Product Information panel. Otherwise, press End to continue without discovering data from a previous customization of the product.

CCQO062W The Discover EXEC could not find the following *parameter_name* parameter in the DB2 metadata. The record was not processed.

Explanation: The specified parameter is missing in the DB2 metadata.

System action: Processing continues.

User response: If this parameter is required, contact IBM Software Support.

CCQO064W The *Discover-record* Discover record did not have a parameter name. The record was not processed.

Explanation: A parameter name was missing in the Discover record.

System action: Processing continues.

User response: Contact IBM Software Support.

CCQO065W The value for the *parameter_name* parameter is ignored because it has more than *maximum_number* characters, which is the maximum length that is defined in the metadata. The value is *parameter_value*.

Explanation: The specified value exceeded the maximum allowed length, which was defined in the metadata. Tools Customizer truncated the extra characters.

System action: Processing continues.

User response: Contact IBM Software Support.

CCQO066W The *record_name* Discover record from the Discover REXX EXEC output does not have a parameter value. The record was not processed.

Explanation: The Discover record was missing a parameter value from the Discover EXEC output.

System action: Processing continues.

User response: Ensure that information was specified correctly on the Discover Customized Product Information panel.

CCQO067W The *parameter_name* parameter is defined in the metadata to support one value, but more than one value was found. The last value was used.

Explanation: The definition of the parameter in the metadata supports one value, but more than one value was specified. Only the last value was used.

System action: Processing continues.

User response: Ensure that information was specified correctly on the Discover Customized Product Information panel.

CCQO068W **The value of the *parameter_name* parameter is ignored because the parameter is defined as internal=true. The value is *value_name*.**

Explanation: The specified value of the parameter is ignored because it is defined as internal=true.

System action: Processing continues.

User response: Ensure that information was specified correctly on the Discover Customized Product Information panel.

CCQO069W **The Discover EXEC did not find the *parameter_name* parameter in the LPAR metadata. The record was not processed.**

Explanation: The specified parameter is missing from the LPAR metadata.

System action: Processing continues.

User response: Ensure that information was specified correctly on the Discover Customized Product Information panel.

CCQO070W **The *record_type* Discover record contains an incorrect delimiter between the Environment section and the Data section. The record was not processed.**

Explanation: Tools Customizer found an incorrect delimiter between the Environment section and the Data section.

System action: None.

User response: No action is required.

CCQO071W **The *member_name* member could not be found in the *data_set_name* Discover data set.**

Explanation: Tools Customizer could not find the specified Discover data set.

System action: None.

User response: No action is required.

CCQO072S **The *member_name* discover metadata member was not found in the *data_set_name* metadata data set.**

Explanation: Tools Customizer could not find the specified metadata member in the data set.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO073E **The *member_name* discover metadata member is not valid because the default length for the *element_name* parameter element exceeds the length of the parameter. The default length is *default_length*, and the specified length is *specified_length*. The default length will be truncated accordingly.**

Explanation: The default length for the specified parameter element is longer than the parameter.

System action: Processing continues.

User response: No action is required.

CCQO074S **The content of the *member_name* discover metadata member is not valid. The value of the *attribute_name* attribute in the *element_name* element is not valid. The value of the attribute is *value_name*.**

Explanation: The specified value is not valid.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO075W **The *configuration_ID* configuration ID in the *record_name* Discover record is incorrect. The record was not processed.**

Explanation: The specified configuration ID is not correct.

System action: Processing continues.

User response: No action is required.

CCQO076W **The *configuration_ID* configuration ID cannot contain more than *maximum_number* characters. The record was not processed.**

Explanation: The specified configuration ID contains too many characters.

System action: Processing continues.

User response: No action is required.

CCQO077S **The discover metadata member was not found in the *data_set_name* component data set that is part of the *data_set_name* pack.**

Explanation: The discover metadata member was not found in the specified component data set.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQO080I *Product_name* **does not support the Discover process.**

Explanation: The specified product does not support the Discover process.

System action: None.

User response: No action is required.

CCQP000E **The value of the** *mode_name* **DB2 mode is not valid for the** *level_name* **DB2 level.**

Explanation: The specified DB2 mode is not valid for the DB2 level.

System action: Processing stops.

User response: Specify a valid DB2 mode for the DB2 level.

CCQP001E **The value of the** *mode_name* **DB2 mode is missing.**

Explanation: The specified DB2 mode is not defined.

System action: Processing stops.

User response: Specify a value for the DB2 mode.

CCQP002E **The value of the** *mode_name* **DB2 level is missing.**

Explanation: The specified DB2 level is not defined.

System action: Processing stops.

User response: Specify a value for the DB2 level.

CCQP003E **The value of the** *level_name* **DB2 level is not valid.**

Explanation: The specified DB2 level does not have a valid name.

System action: Processing stops.

User response: Specify a valid value for the DB2 level.

CCQP004S **The** *parameter_name* **parameter does not exist in the CCQ$$DB2 DB2 parameter metadata member.**

Explanation: The CCQ$$DB2 DB2 parameter metadata member does not contain the specified parameter.

System action: Processing stops.

User response: Contact IBM Software Support.

CCQP005E **The value of the** *subsystem_ID* **DB2 SSID is missing.**

Explanation: The specified DB2 SSID is not defined.

System action: Processing stops.

User response: Specify a valid value for the DB2 SSID.

CCQP006E **The value of the** *group_attach_name* **DB2 group attach name is missing.**

Explanation: The specified DB2 group attach name is not defined.

System action: Processing stops.

User response: Specify a valid DB2 group attach name.

CCQQ000E **Specify a valid metadata library. Each qualifier of the library must start with an alphabetic character and must be 1-8 alphanumeric characters. The library name must be 1-44 characters.**

Explanation: The metadata library was not specified in the correct format. The high-level qualifier must contain alphanumeric characters, and the first character cannot be numeric. The name cannot contain wildcard characters, such as asterisks (*) and percent signs (%).

System action: Tools Customizer prompts for the correct library name.

User response: Specify a library name in the correct format.

CCQQ001E **The** *data_set_name* **data set name that was specified for the metadata library was not found.**

Explanation: The data set does not exist, or the data set name was written in the incorrect format. The high-level qualifier must contain alphanumeric characters, and the first character cannot be numeric. The name cannot contain wildcard characters, such as asterisks (*) and percent signs (%).

System action: Tools Customizer prompts for the correct data set name.

User response: Specify a data set name in the correct format.

CCQQ002E **The data set name that was specified for the** *library_name* **metadata library cannot be opened.**

Explanation: Tools Customizer could not open the data set.

System action: Tools Customizer prompts for an available data set.

User response: Ensure that the specified data set is available for Tools Customizer to open it.

CCQQ003E **The *data_set_name* data set name that was specified for the metadata sample library is not valid. The data set must be in the following format: HLQ.S*xxx*SAMP.**

Explanation: The specified data set name was not specified in the correct format.

System action: None.

User response: Specify the data set name in the following format: HLQ.S*xxx*SAMP, where *xxx* is the three-character prefix for the product.

CCQQ004E **The *data_set_name* data set is being used by another user. Try again when the data set is not being used.**

Explanation: Another user is using the specified data set.

System action: None.

User response: Ensure that the specified data set is not being used.

CCQQ009E **The *data_set_name* data set name that was specified for the metadata library is not valid because the data set is empty.**

Explanation: The specified data set is empty.

System action: Tools Customizer prompts for an available data set.

User response: Ensure that the specified data set is available for Tools Customizer to open it.

CCQQ011E **The *library_name* metadata library for the component that is part of the *library_name* pack was not found in the catalog. The name of the pack is *pack_name*, and the name of the component is *component_name*.**

Explanation: The specified metadata library is not in the catalog.

System action: None.

User response: Specify another metadata library.

CCQQ012E **The *library_name* metadata library for the component that is part of the *library_name* pack cannot be opened.**

Explanation: The specified metadata library cannot be opened.

System action: None.

User response: Ensure that the name of the library is specified correctly.

CCQS000I **Tools Customizer is being invoked for the first time or the previous ISPF session ended before Tools Customizer was exited. In both cases, the fields on this panel are populated with default values. Review these default values or specify new values to be used to customize products or packs.**

Explanation: When you customize a stand-alone product or a solution pack for the first time, or when an ISPF session unexpectedly ends before the ISPF profile is saved, you must specify or review your Tools Customizer user settings.

System action: Processing stops.

User response: Review and accept the default settings, or specify new settings.

CCQS001E **The following command is not valid:** *command_name.*

Explanation: The specified command is not a valid command on the panel.

System action: Processing stops.

User response: Specify a valid command.

CCQS002W **The *data_set_name* Discover data set could not be found.**

Explanation: Tools Customizer could not find the specified data set.

System action: Processing continues.

User response: Ensure that the data set name is specified correctly.

CCQS003W **The *data_set_name* Discover data set was not found so it was created.**

Explanation: Tools Customizer could not find the specified data set.

System action: Processing continues.

User response: Ensure that the data set name is specified correctly.

CCQS004I **The settings were saved.**

Explanation: The settings that you changed were saved.

System action: Processing continues.

User response: No action is required.

CCQS006W The length of a qualifier for the *data_set_name* customization library data set exceeds 26 characters.

Explanation: The qualifier for the customization library data set is too long. The qualifier cannot exceed 26 characters.

System action: Processing continues.

User response: Specify a qualifier that is 26 characters or less.

CCQS007E The discover data set *data_set_name* could not be opened with the *option-type* option.

Explanation: The specified option could not open the Discover data set.

System action: None.

User response: Specify a data set to which you have WRITE access.

CCQS008E An error occurred while the *data_set_name* Discover data set was being created.

Explanation: While the specified data set was being created, an error occurred.

System action: Processing continues.

User response: Ensure that you have WRITE authority access to this data set.

CCQS010E The customization library qualifier is not valid.

Explanation: The customization library qualifier that was specified is not valid.

System action: None.

User response: Specify a valid qualifier for the customization library.

CCQS011E The group attach option is not valid.

Explanation: The group attach option that was specified is not valid.

System action: None.

User response: Specify a valid option for the group attach option.

CCQS012E The Tools Customizer metadata library is not valid.

Explanation: The metadata library that was specified is not a valid data set.

System action: None.

User response: Specify a valid data set for the metadata library.

CCQS013E The Discover data set is not valid.

Explanation: The Discover data set that was specified is not a valid data set.

System action: None.

User response: Specify a valid Discover data set.

CCQS014E The data store data set is not valid.

Explanation: The data set that was specified is not a valid data set.

System action: None.

User response: Specify a valid data store data set.

CCQS015E Tools Customizer is already running.

Explanation: A session of Tools Customizer is already running in your environment. Only one Tools Customizer session is allowed.

System action: None.

User response: The trace data set is being used. Free the trace data set, and start Tools Customizer again.

CCQS018E Information on the first line of the job card exceeds 57 characters.

Explanation: The first line of the job card can contain only 57 characters. This character limit includes a continuation character.

System action: Tools Customizer clears the first line of the job card.

User response: Specify information that does not exceed 57 characters on the first line of the job card.

CCQS019E The required trace data set, *data_set_name*, is currently not accessible.

Explanation: The trace data set must be accessible.

System action: Processing stops.

User response: Ensure that the trace data set is accessible.

CCQS020E An error occurred while the customization library data set was being created. ALTER authority on the high-level qualifier for the customization library data set is required.

Explanation: To create the customization library data set, ALTER authority on the specified high-level qualifier must be granted.

System action: None.

User response: Ensure that ALTER authority for the specified customization library data set is granted.

CCQS021E The value *value_name* in the field that contains the cursor position is not valid.

Explanation: The specified value is not valid.

System action: None.

User response: Specify a valid value.

CCQS022E An error occurred while the customization library data set was being opened. UPDATE authority on the high-level qualifier for the customization library data set is required.

Explanation: To open the customization library data set, UPDATE authority on the specified high-level qualifier must be granted.

System action: None.

User response: Ensure that UPDATE authority for the specified customization library data set is granted.

CCQS023E An error occurred while the customization library data set was being opened. UPDATE authority on the high-level qualifier for the customization library data set is required.

Explanation: To open the customization library data set, UPDATE authority on the specified high-level qualifier must be granted.

System action: None.

User response: Ensure that UPDATE authority for the specified customization library data set is granted, or specify a different high-level qualifier for the customization library data set on the Tools Customizer Settings panel.

CCQS024E An error occurred while the customization library data set was being created. ALTER authority on the high-level qualifier for the customization library data set is required.

Explanation: To create the customization library data set, ALTER authority on the specified high-level qualifier must be granted.

System action: None.

User response: Ensure that ALTER authority for the specified customization library data set is granted, or specify a different high-level qualifier for the customization library data set on the Tools Customizer Settings panel.

CCQS025I The display options were saved.

Explanation: The options that you selected were saved.

System action: None.

User response: No action is required.

CCQS030E The following command is not a valid CREATE statement: *command_statement*.

Explanation: The specified CREATE command statement is invalid because it contains blanks or alphabetic characters.

System action: Processing stops.

User response: Specify a valid CREATE command statement. The correct syntax is CREATE *nn*, where *nn* is 1 - 99.

CCQS031E The following command is not a valid CREATE statement: *command_statement*. The number that can be specified with the CREATE command is 1 - 99.

Explanation: The specified CREATE command statement is invalid because it contains either 0 or a number greater than 99.

System action: Processing stops.

User response: Specify a valid CREATE command statement. The correct syntax is CREATE *nn*, where *nn* is 1 - 99.

CCQT000I The product configuration ID *copied_configuration_ID* was successfully copied from *configuration_ID*.

Explanation: The specified configuration ID was copied.

System action: None.

User response: No action is required.

CCQT001E The *command_name* line command was specified more than once, which is not allowed.

Explanation: The specified line command cannot be specified more than one time.

System action: Processing stops.

User response: Specify the line command only once.

CCQT002E **The *configuration_ID* configuration ID already exists. Specify a different configuration ID.**

Explanation: The specified configuration ID exists.

System action: Processing stops.

User response: Ensure that the specified configuration ID is unique.

CCQT003I **The product configuration ID *configuration_ID* was created.**

Explanation: The specified configuration ID was created.

System action: None.

User response: No action is required.

CCQT004I **The product configuration ID *configuration_ID* was removed.**

Explanation: The specified configuration ID was removed.

System action: None.

User response: No action is required.

CCQT005E **The product configuration ID *configuration_ID* is not valid. The product configuration ID cannot contain a colon (:).**

Explanation: The specified configuration ID contains a colon (:), but a colon is not valid.

System action: Processing stops.

User response: Specify a configuration ID that does not contain a colon.

CCQT006E **The *configuration_ID* configuration ID exists. Specify a different configuration ID.**

Explanation: The specified configuration ID exists.

System action: Processing stops.

User response: Specify another configuration ID.

CCQT007E **The *configuration_ID* configuration ID exists but was removed from the list of configurations. To use this configuration ID, you must restore it.**

Explanation: The specified configuration ID exists but was removed from the list of available configuration.

System action: Processing stops.

User response: Specify another configuration ID. To restore the specified configuration ID, issue the CREATE command, and specify the same configuration ID again.

CCQT008E **The *configuration_ID* configuration ID exceeds *maximum_number* characters.**

Explanation: The specified configuration ID contains too many characters.

System action: Processing stops.

User response: Specify another configuration ID that does not exceed the maximum number of characters that was set by DB2 Table Editor.

CCQT010I **Create request for *configuration_ID* configuration was cancelled by user.**

Explanation: The request to create the specified configuration was canceled.

System action: Processing stops.

User response: No action is required.

CCQT011I **The *configuration_ID* configuration was not copied.**

Explanation: The specified configuration was not copied.

System action: Processing stops.

User response: No action is required.

CCQT012I **The *configuration_ID* configuration was not removed.**

Explanation: The specified configuration was not removed.

System action: Processing stops.

User response: No action is required.

CCQT013I **None of the configurations were copied or removed. All of the previously selected configurations are deselected.**

Explanation: The selected configurations were not copied or removed, and they are deselected.

System action: Processing stops.

User response: No action is required.

CCQT014E **Specify Y or N and press Enter to continue, or press End to cancel.**

Explanation: A function requires input.

System action: Processing stops.

User response: To continue, specify Y or N and press Enter. Otherwise, press End to cancel.

CCQT015E **The *command_name* command is not allowed during the process of "Select" configuration line command.**

Explanation: The specified command is not allowed while the line command for selecting configurations is processing.

System action: Processing stops.

User response: Remove the specified line command.

CCQT016I **The *configuration_ID* configuration was not created**

Explanation: The specified configuration was not created.

System action: Processing stops.

User response: No action is required.

CCQT017I **The *configuration_ID* configuration was not copied.**

Explanation: The specified configuration was not copied.

System action: Processing stops.

User response: No action is required.

CCQT018E **Specify Y or N, and press Enter.**

Explanation: A function requires input.

System action: Processing stops.

User response: To continue, specify Y or N, and press Enter.

CCQT019I **The select *configuration_ID* configuration process ended.**

Explanation: The select process for the specified configuration is finished.

System action: Processing stops.

User response: No action is required.

CCQT020E **The *configuration_ID* configuration was not created because the data store was not accessible.**

Explanation: The specified configuration was not created because the data store could not be accessed.

System action: Processing stops.

User response: Ensure that the data store is accessible and create the configuration again.

CCQT021E **The *configuration_ID* configuration was not copied because the data store was not accessible.**

Explanation: The specified configuration was not copied because the data store could not be accessed.

System action: Processing stops.

User response: Ensure that the data store is accessible and copy the configuration again.

CCQT025I **The *configuration_ID* configuration was not updated.**

Explanation: The specified configuration was not updated because the edit process was canceled.

System action: Processing stops.

User response: No action is required.

CCQT027I **The product configuration was successfully updated.**

Explanation: The configuration was updated.

System action: Processing continue.

User response: No action is required.

CCQX001S ***Product_name* has already been customized by using values from *data_set_name* data store data set. Switch to the specified data store data set to continue customizing this product.**

Explanation: The specified product was customized by using values from the specified data store data set.

System action: Processing stops.

User response: Use the specified data store data set to continue customizing the product.

CCQX002S ***component_name* has already been customized by using values from *data_set_name* data store data set. Switch to the specified data store data set to continue customizing this component.**

Explanation: The specified component was customized by using values from the specified data store data set.

System action: Processing stops.

User response: Use the specified data store data set to continue customizing the component.

CCQX011I *Product_name* **was not found.**

Explanation: The specified product was not found.

System action: Processing stops.

User response: Specify another product.

Gathering diagnostic information

Before you report a problem with DB2 Table Editor to IBM Software Support, you need to gather the appropriate diagnostic information.

Procedure

Provide the following information for all DB2 Table Editor problems:

- A clear description of the problem and the steps that are required to re-create the problem
- All messages that were issued as a result of the problem
- Product release number and the number of the last program temporary fix (PTF) that was installed
- The version of DB2/IMS that you are using and the type and version of the operating system that you are using

Provide additional information based on the type of problem that you experienced:

For online abends, provide the following information:

- A screen capture of the panel that you were using when the abend occurred
- The job log from the TSO session that encountered the abend
- The job log from the server
- A description of the task that you were doing before the abend occurred

For errors in batch processing, provide the following information:

- The complete job log
- Print output
- Contents of the data sets that were used during the processing

For problems with the Tools Customizer trace data set name:

If you cannot allocate the trace data set, the trace data set runs out of space, or IBM Software Support asks for it, you will need to identify the name of the trace data set. The name of the trace data set depends on the prefix setting in the TSO profile. To identify the name of the trace data set, you must know the prefix setting.

- If PREFIX is set, the name of the trace data set is *prefix*.CCQ.TRACE, where *prefix* is the TSO prefix that you specified in the profile.
- If NOPREFIX is set, the name of the trace data set is *user_ID*.CCQ.TRACE, where *user_ID* is your TSO user ID.

Chapter 6. Tools Customizer reference

Before you use Tools Customizer, you should understand the Tools Customizer terminology and the data sets that Tools Customizer uses during customization.

Tools Customizer terminology

Tools Customizer uses several unique terms that you should be familiar with before you begin to use Tools Customizer.

Products and components

How an IBM Tool is packaged determines whether it is referred to as a product or as a component in the Tools Customizer documentation and interface. An IBM Tool that is ordered as a stand-alone entity (that is, not as part of a solution pack) is referred to as a product. An IBM Tool that is part of a solution pack is referred to as a component. Some IBM Tools are available in both formats; therefore, the same IBM Tool can be referred to as a product or as a component depending on how it is packaged.

DB2 entry

You can customize DB2 Table Editor on one or more DB2 entries. A DB2 entry can be any of the following items:

DB2 subsystem

A distinct instance of a relational database management system (RDBMS) that is not part of a data sharing group. An example of a DB2 subsystem name is DB01.

DB2 group attach name

The name that is used by the TSO/batch attachment, the call attachment facility (CAF), DL/I batch, utilities, and the Resource Recovery Services attachment facility (RRSAF) as a generic attachment name. An example of a group attach name is DSG1.

DB2 data sharing member

A DB2 subsystem that is assigned by the cross-system coupling facility (XCF) to a data sharing group. An example of a DB2 data sharing member name is DB02.

Tools Customizer maintains the following lists of DB2 entries:

Associated list

The list of DB2 entries that are associated with DB2 Table Editor. If the product to be customized requires DB2 entries, you can customize DB2 Table Editor only on DB2 entries that are in the associated list. When you customize DB2 Table Editor, this list is displayed in the DB2 Entries, Associations, and Parameter Status section of the Customizer Workplace panel.

You can add and copy DB2 entries to the associated list. When you add or copy DB2 entries to the associated list, the entries are associated with DB2 Table Editor.

Master list

The list of all DB2 entries that are defined but are not associated with DB2 Table Editor. Tools Customizer obtains information about

these DB2 entries either from entries that were created manually or from the customizations of other products that were discovered. If you remove a DB2 entry from the associated list, the DB2 entry is added to the master list. When you create a new DB2 entry, it is added to the master list, and when you associate the new entry with DB2 Table Editor, it is removed from the master list and added to the associated list. The master list is displayed on the Associate a DB2 Entry for Product panel.

If the associated list does not have the DB2 entries on which you want to customize DB2 Table Editor, you can associate existing entries from the master list to the associated list.

You can create new DB2 entries and copy existing entries to the master list.

High-level qualifier
The high-level qualifier is considered to be all of the qualifiers except the lowest level qualifier. A high-level qualifier includes a mid-level qualifier.

Product parameters
Parameters that are specific to DB2 Table Editor. These parameters are defined by DB2 Table Editor and are stored in a data member that is defined by DB2 Table Editor.

LPAR parameters
Parameters on the local LPAR that are required to customize DB2 Table Editor. These parameters are defined by Tools Customizer and are stored in an LPAR parameter data member.

DB2 parameters
Parameters for a DB2 entry. These parameters are defined by Tools Customizer and are stored in a DB2 parameter data member.

Status type

Product, LPAR, and DB2 entry status type

After you specify the product that you want to customize, the product, the LPAR, and the DB2 entries have a status. The status is partly based on whether required parameters are defined. For some products, LPAR parameters or DB2 parameters might not be required. In these cases, the status is Not Required.

To customize DB2 Table Editor, all of the required parameters must be defined.

If required parameters for the the product parameters, LPAR parameters, or DB2 parameters are not defined, the status of the parameters is Incomplete. Define values for parameters by manually editing them or by generating the customization jobs and specifying values for all of the required parameters that are displayed on the panels.

When values for all of the required parameters are defined, the status is Ready to Customize. Customization jobs can be generated only when all of the required parameters are defined and the status is Ready to Customize or Customized for the product parameters, LPAR parameters, and DB2 parameters for the DB2 entries on which DB2 Table Editor will be customized.

The following table shows the meaning of the status types. Each status is defined differently for each type of parameter.

Table 15. Status types for the product, the LPAR, and the DB2 entries

Status	Product	LPAR	DB2 entries
Incomplete	The required product parameters are not defined, or the required product parameters are defined but LPAR parameters, DB2 parameters, or both are not defined.	The required parameters are not defined.	The required parameters are not defined.
Discovered	The product parameter definitions were discovered by using the product Discover EXEC.	N/A	N/A
Ready to Customize	The required product, LPAR, and DB2 parameters are defined, the status is Ready to Customize or Customized for the LPAR and at least one associated DB2 entry. You can generate the customization jobs.	The required LPAR parameters are defined or LPAR parameters are not required.	The required DB2 parameters are defined or DB2 parameters are not required.
Customized	The jobs are customized on the local LPAR.	The jobs are customized for the product or for all of the associated DB2 entries on the local LPAR.	The jobs are customized for the DB2 entry.
Errors in Customization	N/A	N/A	Errors occurred while the customization jobs were being generated.
Not Required	N/A	LPAR parameters are not required.	DB2 parameters are not required.

Related tasks:

"Creating and associating DB2 entries" on page 41
You can create new DB2 entries and associate them with DB2 Table Editor.

"Copying DB2 entries" on page 53
You can copy associated and not associated DB2 entries to other DB2 entries or to new DB2 entries.

"Removing DB2 entries" on page 54
You can remove DB2 entries from the associated list.

Data sets that Tools Customizer uses during customization

Tools Customizer uses several unique data sets during the customization process. Familiarize yourself with these data sets before you begin to use Tools Customizer.

Several different data sets are required to customize DB2 Table Editor with Tools Customizer. These data sets are supplied by DB2 Table Editor, supplied by Tools Customizer, or allocated by Tools Customizer.

DB2 Table Editor provides the following data sets:

Metadata library
Contains the metadata for the product to be customized. Tools Customizer uses the metadata to determine which tasks, steps, and parameters to display on the Product Parameters panel, the LPAR Parameters panel, and the DB2 Parameters panel. This data set also contains the templates that Tools Customizer uses to generate the customization jobs.

The metadata library naming convention is *high_level_qualifier*.SETIDENU, where *high_level_qualifier* is all of the segments of the data set name except the lowest-level qualifier.

You specify the metadata library on the Specify the Metadata Library panel. READ access to this data set is required.

Discover EXEC library
Contains the DB2 Table Editor Discover EXEC. When you customize DB2 Table Editor, you can use the Discover EXEC to automatically retrieve and store product information, such as parameter values from an already customized product. Tools Customizer saves the discovered information in the data store.

The default name of the data set is the high-level qualifier for the metadata library plus a lowest-level qualifier. For DB2 Table Editor, the lowest-level qualifier is SETIDENU. You can change the default value on the Discover Customized Product Information panel. EXECUTE access to this data set is required.

Tools Customizer provides the following data sets:

Tools Customizer metadata library
Contains the metadata for the DB2 and LPAR parameters that are required to customize DB2 Table Editor. Tools Customizer uses the metadata to determine which parameters to display on the DB2 Parameters panel and the LPAR Parameters panel. In addition, Tools Customizer uses information in the metadata library to determine whether additional DB2 and LPAR parameters need to be displayed on these panels. As you customize different products, different DB2 and LPAR parameters might need to be defined.

The default name of the data set is DB2TOOL.CCQ110.SCCQDENU. You can change the default value on the Tools Customizer Settings panel. READ access to this data set is required.

Tools Customizer table library
Stores information about jobs that are customized. Job information that is stored includes a description of the job, its member name and template name, the SSID, group attach name, and when the job was generated.

The default name of the data set is DB2TOOL.CCQ110.SCCQTENU. WRITE access to this data set is required.

Tools Customizer requires that the following data sets exist during the customization process. If the data sets do not exist, Tools Customizer automatically allocates them.

Discover output data set
Contains the output that is generated when you run the DB2 Table Editor Discover EXEC. The DB2 Table Editor Discover EXEC retrieves the metadata and values for the parameters from a previous customization of DB2 Table Editor.

The default name of the data set is DB2TOOL.CCQ110.DISCOVER. You can change the default value on the Tools Customizer Settings panel or the Discover Customized Product Information panel. WRITE access to this data set is required.

Data store data set
Contains product, LPAR, and DB2 parameter values, and DB2 entry associations. Tools Customizer uses this data set to permanently store all information that is acquired about the product, DB2 subsystems or data sharing groups, and LPAR when you customize products on the local LPAR.

The default name of the data set is DB2TOOL.CCQ110.DATASTOR. You can change the default value on the Tools Customizer Settings panel. WRITE access to this data set is required.

Customization library
Contains the customization jobs that Tools Customizer generates for DB2 Table Editor.

Tools Customizer checks whether a customization library name was specified for more than one instance of the same version of the same product. If the same customization library name is specified for more than one product of the same version, the CCQD123E message is issued to prevent you from overwriting previously generated customization jobs. Ensure that you specify unique qualifier for the customization library for each instance of the product.

To customize DB2 Table Editor, submit the members of the data set in the order in which they are displayed on the Finish Product Customization panel.

The data set naming convention is *hlq*.$*LPAR_name*$.*xyzvrm*, where:

- *hlq* is the value of the **Customization library qualifier** field on the Tools Customizer Settings panel (CCQPSET)
- *LPAR_name* is the four-character LPAR name
- *xyzvrm* is the three-letter product identifier with the version, release, and modification level

For example, the data set name might be DB2TOOL.PRODUCT.CUST.$MVS1$.*XYZ*410.

WRITE access to this data set is required.

Tools Customizer allocates the data sets for the discover output, the data store, and the customization library with the attributes that are shown in the following table:

Table 16. Data set attributes for allocating the Discover output, data store, and customization library data sets

Data set	Organization	Record format	Record length	Block size	Data set name type
Discover output data set	PO	Variable block	16383	32760	LIBRARY
Data store data set	PO	Variable block	16383	32760	LIBRARY
Product customization library	PO	Fixed block	80	32720	LIBRARY

Restrictions:

- Multiple users cannot simultaneously share the discover output data set, data store data set, Tools Customizer metadata library, and metadata library.
- You cannot share the data store data set across multiple LPARs with shared DASD or copy the data store data set to another LPAR. Tools Customizer creates many cross-references between product and DB2 associations. Therefore, if you share or copy the data store data set, member names that are empty or that do not exist might be generated.

Chapter 7. Reference

Reference information supports the tasks that you must complete to install, customize, and use DB2 Table Editor.

Sample library members

The sample library (SAMPLIB) that is supplied with DB2 Table Editor contains JCL that you can use as a model to create your own jobs.

The DB2 Table Editor SAMPLIB includes the following sample jobs:

Table 17. DB2 Table Editor sample jobs

Sample member	Description
ETIADBEX	This JCL is used to execute the REXX EXEC customized from batch job ETIADBI. This JCL job will add DB2 Table Editor to the DB2 Administrative Launchpad.
ETIADBI	This sample EXEC can be used to add DB2 Table Editor to the Administration Launchpad.
ETIBIND	This JCL is used to bind DB2 Table Editor packages and plan.
ETICCNTL	This JCL creates the control file that contains the pertinent information about the DB2 SSIDs that DB2 Table Editor is to operate on.
ETIDB21T	This sample CLIST can be used to add the DB2 Table Editor V4.5 line to the DB2 Administration Tool table listing panel (DB21T) and alias panel (DB21A).
ETIDDL	This JCL is used to create the repository objects required for DB2 Table Editor V4.5.
ETIDROP	This JCL is used to drop the repository objects required for DB2 Table Editor V4.5 before they are recreated.
ETIFREE	This JCL is used to free the DB2 Table Editor packages and plans before the bind job is run.
ETIGRANT	This JCL is used to grant execute on the plan for DB2 Table Editor V4.5.
ETILOGM	This JCL is used to clean up the activity log table for DB2 Table Editor V4.5. This job only needs to be run when the log table needs maintenance.
ETILOGRP	This JCL is used to produce a report of data in the log table for DB2 Table Editor V4.5.
ETIUCNTL	This JCL is used to update the control file used by DB2 Table Editor.
ETIV45	This list invokes DB2 Table Editor V4.5.
ETIV45C	This CLIST invokes DB2 Table Editor V4.5

Keyboard shortcuts

You can use keyboard shortcuts to do all DB2 Table Editor functions.

The following table shows the shortcut keys that are supported by DB2 Table Editor.

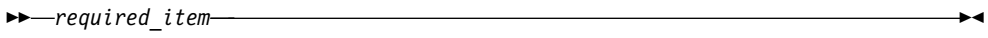
Table 18. Keyboard shortcuts

Keyboard shortcut	Action
Tab	Moves cursor between editable fields

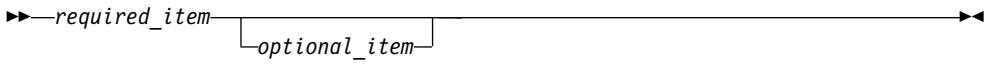
How to read syntax diagrams

The following rules apply to the syntax diagrams that are used in this information:

- Read the syntax diagrams from left to right, from top to bottom, following the path of the line. The following conventions are used:
  - The >>--- symbol indicates the beginning of a syntax diagram.
  - The ---> symbol indicates that the syntax diagram is continued on the next line.
  - The >--- symbol indicates that a syntax diagram is continued from the previous line.
  - The --->< symbol indicates the end of a syntax diagram.
- Required items appear on the horizontal line (the main path).



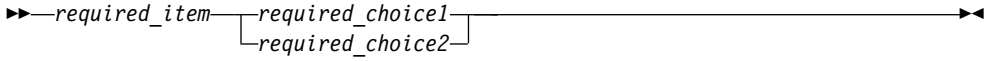
- Optional items appear below the main path.



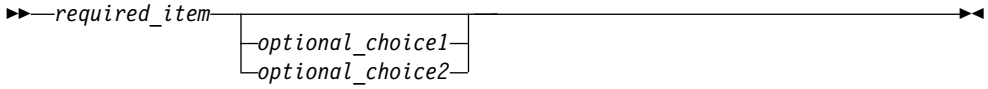
  If an optional item appears above the main path, that item has no effect on the execution of the syntax element and is used only for readability.

- If you can choose from two or more items, they appear vertically, in a stack.

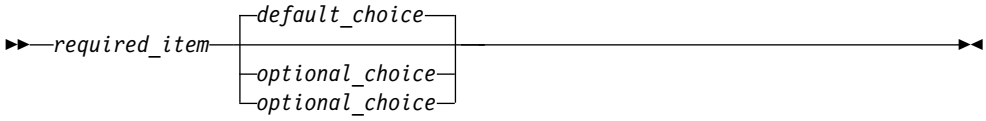
  If you *must* choose one of the items, one item of the stack appears on the main path.



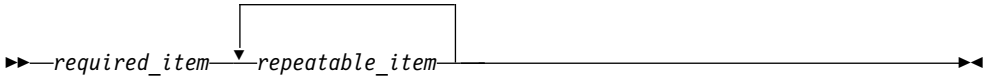
  If choosing one of the items is optional, the entire stack appears below the main path.



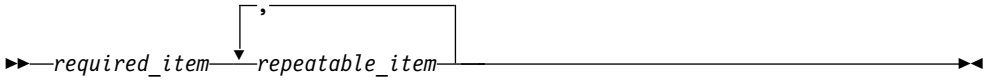
  If one of the items is the default, it appears above the main path, and the remaining choices are shown below.



- An arrow returning to the left, above the main line, indicates an item that can be repeated.



If the repeat arrow contains a comma, you must separate repeated items with a comma.



A repeat arrow above a stack indicates that you can repeat the items in the stack.

- Keywords, and their minimum abbreviations if applicable, appear in uppercase. They must be spelled exactly as shown. Variables appear in all lowercase italic letters (for example, *column-name*). They represent user-supplied names or values.
- Separate keywords and parameters by at least one space if no intervening punctuation is shown in the diagram.
- Enter punctuation marks, parentheses, arithmetic operators, and other symbols exactly as shown in the diagram.
- Footnotes are shown by a number in parentheses; for example, (1).

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Index

D

E

F

H

I

J

K

L

M

N

O

P

R

S

T

U

V

W

X

Z

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