



# IBM File Manager for z/OS DB2 Feature

Program number 5655-V52

## Tutorial

© 2010 IBM Corporation

This is the tutorial for the DB2<sup>®</sup> feature of IBM's File Manager for z/OS<sup>®</sup>, one of the IBM zSeries<sup>®</sup> problem determination tools.

- Introduction
- View or edit commands
  - Starting the editor or viewer
  - Find, change, and locate data
  - Insert, repeat, and delete rows
  - The display formats and zoom
- Database navigation
  - Save and get
  - Print rows
  - Handling errors when saving
  - REDIT to related tables
- File Manager DB2 options
  - Review option settings

In this section learn how to start the editor or viewer and learn some of the most important commands. The display formats will be presented, and formatted reports will be produced from edit or view.

- ➔
  - Access a table or view from the view panel
    - Using a fully qualified name
    - Using the 'stacking' function
  - Access a table or view from the edit panel
    - Using \*wildcards\* in the name
  - Access a table or view from the object list
    - Select from a list on the 3.4 panel
  - Access a table or view using SQL statement
    - Start edit or view from one of the SQL execution panels

There are several ways to access the view entry panel. One is using a fully qualified name. The other is using the stacking function. First, the editor will be started using the menus and by providing a full object name. An edit session will then be started and 'stacked' over the view screen.

## Select option 1 View



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)          Primary Option Menu
Command ==> 1
-----
0 Settings      Set processing options      User ID . . : TSS13
1 View         View DB2 object            System ID  : STLABF6
2 Edit         Edit DB2 object            Appl ID   : FMN2
3 Utilities    Perform utility functions   Version   : 10.1.0
4 SQL         Prototype, execute and analyze SQL Terminal  : 3278A
5 DB2I        Start DB2 Interactive       Screen   : 1
6 Command     Enter and execute a DB2 Command Date     : 2010/04/14
X Exit        Terminate FM/DB2           Time     : 12:16

                                DB2 SSID . . D91F
                                SQL ID   . . TSS13  +

Enter
```

4 | IBM File Manager DB2 for z/OS V10 Mentor Workshop | W00 | © 2010 IBM Corporation

From the File Manager DB2 main menu, select option 1 for view and press Enter.

## Enter a fully qualified name Generate the template from the table



Process Options Utilities Help

FM/DB2 (D91F) DB2 View

Command ==>

DB2 Object:

Location . . . . . Database . . . . . (optional)  
Owner . . . . . ALLANSC + Table Space . . . . . (optional)  
Name . . . . . EMP  
Start position . . . . . 1  
Row count . . . . . ALL

Template:

Data set name . . . . .  
Member . . . . .

Processing Options:

Template usage

3 1. Above  
2. Previous  
3. Generate from table  
4. Generate/Replace

Enter "/", "A" always to select option  
- Edit options  
- Edit template  
- Re-edit template

Enter

5 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

The DB2 View panel is displayed. You can specify the name of the object you want to view. The object can be a table name, a DB2 view, or an alias to a table or DB2 view. Also, you can specify a row count. The default is one hundred, which means it will retrieve the first 100 rows. You can specify any number. "ALL" is also a valid entry, and all rows will be retrieved. Zero has the same effect as ALL. The object name is typed into the DB2 object fields. Enter is pressed.

## 42 rows were fetched Stack an edit session for the dept table



Process Options Utilities Help

FM/DB2 (D91F) Table View Top of 42

Command ==> edit allansc.dept Scroll PAGE

42 rows fetched Format TABL

EMPNO	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE
#1	#2	#3	#4	#5	#6	#7
CH(6)	VARCHAR(12)	CH(1)	VARCHAR(15)	CH(3)	CH(4)	DATE
PU-->	<-----1->	-	<-----1----->	<-N	<-->	<----->
***** **** Top of data ****						
000001	000010	CHRISTINE<	I	HAAS<	A00	1965-01-01
000002	000020	MICHAEL<	L	THOMPSON<	B01	1973-10-10
000003	000030	SALLY<	A	KWANK<	C01	1975-04-05
000004	000050	JOHN<	B	GEYER<	E01	1949-08-17
000005	000060	IRVING<	F	STERN<	D11	1973-09-14
000006	000070	EVA<	D	PULASKI<	D21	1980-09-30
000007	000090	EILEEN<	W	HENDERSON<	E11	1970-08-15
000008	000100	THEODORE<	Q	SPENSER<	E21	1980-06-19
000009	000110	VINCENZO<	G	LUCCHESI<	A00	1958-05-16
000010	000120	SEAN<		O'CONNELL<	A00	1963-12-05
000011	000130	DOLORES<	M	QUINTANA<	C01	1971-07-28
000012	000140	HEATHER<	A	NICHOLLS<	C01	197
000013	000150	BRUCE<		ADAMSON<	D11	197
000014	000160	ELIZABETH<	R	PIANKA<	D11	197

6 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

The view panel is displayed, where you can view the data in the table. The File Manager DB2 viewer is similar to the ISPF viewer. Many of the commands and default function key settings are the same. You will see more about how to use the viewer and editor later.

Be aware that you can view or edit other tables without leaving this view session by using a technique called stacking. You can enter an EDIT or VIEW command with the name of another table that you want to see. In this example, the command "EDIT ALLANSC.DEPT" is typed on the command line, and Enter is pressed.

## Edit panel is displayed with Owner and Name filled in Press enter to display table



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)                                DB2 Edit
Command ==> _____

DB2 Object:
Location . . . . . _____ Database . . . . . _____ (optional)
Owner . . . . . ALLANSC + Table Space . . _____ (optional)
Name . . . . . DEPT +
Start position . . . . . 1
Row count . . . . . 100 Number of rows to edit

Template:
Data set name . . . . . _____
Member . . . . . _____

Processing Options:
Template usage                               Enter "/", "A" always to select option
3 1. Above                                  - Edit options
   2. Previous                               - Edit template
   3. Generate from table                    - Re-edit template
   4. Generate/Replace

Enter
```

The first view session is still active, and the DB2 Edit entry panel is displayed. The owner name (ALLANSC) and the table name (DEPT) have already been filled in. Enter is pressed.

## DEPT table is displayed in Edit F3 twice to return to EMP table in View session

Process	Options	Utilities	Help
FM/DB2 (D91F)		Table Edit	
Command ==>		Top of 14	
14 rows fetched		Scroll PAGE	
		Format TABL	
DEPTNO	DEPTNAME	MGRNO	ADMRDEPT
#1	#2	#3	#4
CH(3)	VARCHAR(36)	CH(6)	CH(3)
PU>	<-----1-----2-----3----->	<---->	<->
***** **** Top of data ****			
000001	A00 SPIFFY COMPUTER SERVICE DIV.<	000010	A00
000002	B01 PLANNING<	000020	A00
000003	C01 INFORMATION CENTER<	000030	A00
000004	D01 DEVELOPMENT CENTER<		A00
000005	D11 MANUFACTURING SYSTEMS<	000060	D01
000006	D21 ADMINISTRATION SYSTEMS<	000070	D01
000007	E01 SUPPORT SERVICES<	000050	A00
000008	E11 OPERATIONS<	000090	E01
000009	E21 SOFTWARE SUPPORT<	000100	E01
000010	F22 BRANCH OFFICE F2<		E01
000011	G22 BRANCH OFFICE G2<		E01
000012	H22 BRANCH OFFICE H2<		E01
000013	I22 BRANCH OFFICE I2<		E01
000014	J22 BRANCH OFFICE J2<		E01

8
IBM File Manager DB2 for z/OS V10 Mentor Workshop
W00 © 2010 IBM Corporation

The DEPT table is displayed in edit. Stacking is a quick way to be able to look at another table. Press F3 twice to return to the first table.



## Back to EMP table in View mode F3 twice to return to primary option menu




Process	Options	Utilities	Help			
FM/DB2 (D91F)		Table View				
Command ==>		Top of 42				
TABLE ALLANSC.EMP		Scroll PAGE				
		Format TABL				
EMPNO	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE
#1	#2	#3	#4	#5	#6	#7
CH(6)	VARCHAR(12)	CH(1)	VARCHAR(15)	CH(3)	CH(4)	DATE
PU-->	<-----1->	-	<-----1----->	<-N	<-->	<----->
***** **** Top of data ****						
000001	000010	CHRISTINE<	I	HAAS<	A00	3978 1965-01-01
000002	000020	MICHAEL<	L	THOMPSON<	B01	1111 1973-10-10
000003	000030	SALLY<	A	KWAN<	C01	4738 1975-04-05
000004	000050	JOHN<	B	GEYER<	E01	6789 1949-08-17
000005	000060	IRVING<	F	STERN<	D11	6423 1973-09-14
000006	000070	EVA<	D	PULASKI<	D21	7831 1980-09-30
000007	000090	EILEEN<	W	HENDERSON<	E11	5498 1970-08-15
000008	000100	THEODORE<	Q	SPENSER<	E21	0972 1980-06-19
000009	000110	VINCENZO<	G	LUCCHESI<	A00	3490 1958-05-16
000010	000120	SEAN<		O'CONNELL<	A00	2167 1971-05-10
000011	000130	DOLORES<	M	QUINTANA<	C01	4578 1971-05-28
000012	000140	HEATHER<	A	NICHOLLS<	C01	1793 1971-05-28
000013	000150	BRUCE<		ADAMSON<	D11	4510 1971-05-28
000014	000160	ELIZABETH<	R	PIANKA<	D11	3782 1971-05-28

F3

F3

9
IBM File Manager DB2 for z/OS V10 Mentor Workshop
W00 © 2010 IBM Corporation

Pressing F3 has returned back to the EMP table in view mode. F3 twice to return to the File Manager DB2 primary option menu.

- Access a table or view from the view panel
  - Using a fully qualified name
  - Using the 'stacking' function
-  ▪ Access a table or view from the edit panel
  - Using \*wildcards\* in the name
- Access a table or view from the object list
  - Select from a list on the 3.4 panel
- Access a table or view using SQL statement
  - Start edit or view from one of the SQL execution panels

Next, you will see how to start the viewer or editor specifying a wildcard in the object name.

## Select option 2 Edit



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)          Primary Option Menu
Command ==>>> 2_

0 Settings      Set processing options      User ID . . : TSS13
1 View         View DB2 object            System ID  : STLABF6
2 Edit         Edit DB2 object            Appl ID   : FMN2
3 Utilities    Perform utility functions   Version   : 10.1.0
4 SQL          Prototype, execute and analyze SQL Terminal  : 3278A
5 DB2I        Start DB2 Interactive       Screen   . : 1
6 Command     Enter and execute a DB2 Command Date     . . : 2010/03/25
X Exit        Terminate FM/DB2          Time     . . : 11:58

                                DB2 SSID . D91F
                                SQL ID  . . TSS13  +
```



From the File Manager DB2 main menu, select option 2 for edit, and press Enter.

## Edit using wildcards in owner and name fields



```
Process Options Utilities Help
FM/DB2 (D91F) DB2 Edit
Command ==>
DB2 Object:
Location .....
Owner ..... *S*
Name ..... EM*
Start position ..... 1
Row count ..... 100      Number of rows to edit

Template:
Data set name .....
Member .....

Processing Options:
Template usage          Enter "/", "A" always to select option
 3 1. Above              - Edit options
   2. Previous           - Edit template
   3. Generate from table - Re-edit template
   4. Generate/Replace

Enter
```

Wildcards:  
\* or % Zero or more chars  
\_ (underscore) one character

Using wildcards in the name, you can select from a list of objects with matching names. An asterisk or percent sign is a wildcard for zero or more characters, and an underscore is a wildcard for a single character. In this example, the string \*S\* is typed into the “owner” field. Any owner ID that contains the letter S will match. EM\* is typed into the “name” field. Object names that start with the letters EM will match. Press Enter.

## Select EMP object from the list with S line command



```
Process Options Utilities Help
FM/DB2 (D91F) Table/View/Alias Selection Top of 9
Command ==> Scroll PAGE
9 rows fetched Format TABL
```

SEL	TABLE OWNER	TABLE NAME	DATABASE NAME	SPACE NAME	OBJECT TYPE
----	#2-----	#1-----	#4-----	#5-----	#7-----
****	Top of data ****				
s	ALLANSC	EMP	DSN00040	EMP	TABLE
---	ALLANSC	EMPCOPY1	DSN00041	EMPCOPY1	TABLE
---	ALLANSC	EMPCOPY2	DSN00043	EMPCOPY2	TABLE
---	DSN8910	EMP	DSN8D91A	DSN8S91E	TABLE
---	DSN8910	EMPPROJACT	DSN8D91A	DSN8S91P	TABLE
---	TSS09	EMP	DSN00047	EMP	TABLE
---	TSS09	EMP2	DSN00050	EMP2	TABLE
---	TSS09	EMP2OLD	DSN00051	EMP2OLD	TABLE
---	TSS09	EMP4	DSN00054	EMP4	TABLE
****	End of data ****				

A list of matching tables and views is displayed

Enter

13 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation


A list of matching tables and views is displayed. An object can be selected by using an S line command in the Sel field. The ALLANSC EMP table has been selected, and Enter is pressed.

## Table is displayed in edit F3 twice to return to primary option menu

Process	Options	Utilities	Help			
FM/DB2 (D91F)		Table Edit				
Command ==>		Top of 42				
42 rows fetched		Scroll PAGE				
		Format TABL				
EMPNO	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE
#1	#2	#3	#4	#5	#6	#7
CH(6)	VARCHAR(12)	CH(1)	VARCHAR(15)	CH(3)	CH(4)	DATE
PU-->	<-----1->	-	<-----1----->	<-N	<-->	<----->
***** **** Top of data ****						
000001	000010	CHRISTINE<	I	HAAS<	A00	3978 1965-01-01
000002	000020	MICHAEL<	L	THOMPSON<	B01	1111 1973-10-10
000003	000030	SALLY<	A	KWAN<	C01	4738 1975-04-05
000004	000050	JOHN<	B	GEYER<	E01	6789 1949-08-17
000005	000060	IRVING<	F	STERN<	D11	6423 1973-09-14
000006	000070	EVA<	D	PULASKI<	D21	7831 1980-09-30
000007	000090	EILEEN<	W	HENDERSON<	E11	5498 1970-08-15
000008	000100	THEODORE<	Q	SPENSER<	E21	0972 1980-06-19
000009	000110	VINCENZO<	G	LUCCHESE<	A00	3490 1958-05-16
000010	000120	SEAN<		O'CONNELL<	A00	2167 1972-05-12
000011	000130	DOLORES<	M	QUINTANA<	C01	4578 1972-05-12
000012	000140	HEATHER<	A	NICHOLLS<	C01	1793 1972-05-12
000013	000150	BRUCE<		ADAMSON<	D11	4510 1972-05-12
000014	000160	ELIZABETH<	R	PIANKA<	D11	3782 1972-05-12

14
IBM File Manager DB2 for z/OS V10 Mentor Workshop
W00 © 2010 IBM Corporation

The object was selected and the editor started. A message '42 rows fetched' is displayed on the left side of the panel, below the command line. F3 twice to return to the primary option menu.

- Access a table or view from the view panel
  - Using a fully qualified name
  - Using the 'stacking' function
- Access a table or view from the edit panel
  - Using \*wildcards\* in the name
-  ▪ Access a table or view from the object list
  - Select from a list on the 3.4 panel
- Access a table or view using SQL statement
  - Start edit or view from one of the SQL execution panels

Next, start the editor or viewer from a list of objects, by using the Object List utility. This function is similar to the data set list utility, option 3.4 in ISPF.

## Select 3 Utilities from the primary option menu



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)                Primary Option Menu
Command ==>>> 3_

0 Settings      Set processing options      User ID . . : TSS13
1 View         View DB2 object            System ID . : STLABF6
2 Edit         Edit DB2 object            Appl ID . . : FMN2
3 Utilities     Perform utility functions   Version . . : 10.1.0
4 SQL          Prototype, execute and analyze SQL Terminal . . : 3278A
5 DB2I         Start DB2 Interactive       Screen . . . : 1
6 Command      Enter and execute a DB2 Command Date . . . : 2010/03/25
X Exit         Terminate FM/DB2           Time . . . : 12:31

                                DB2 SSID . . D91F
                                SQL ID . . . TSS13_ +
```



16

IBM File Manager DB2 for z/OS V10 Mentor Workshop

W00 © 2010 IBM Corporation

Select option 3, utilities, from the File Manager DB2 primary option menu. Press Enter.



## Select 4 object list



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)                Utility Functions
Command ==> 4_
-----
1 Print      Print DB2 table or view
2 Objects    Create and drop DB2 objects
3 Copy       Copy data within DB2
4 Object List Display and process DB2 object lists
5 Privileges Manage DB2 privileges
6 Import     Import sequential or VSAM data into DB2
7 Export     Export DB2 data to sequential or VSAM data set
8 Create     Create DB2 test data
9 Utilities  DB2 utility job generation
10 Audit trail Print audit trail report
11 Print browse Browse FM/DB2 print data set
```

**Enter**

**17** | IBM File Manager DB2 for z/OS V10 Mentor Workshop | W00 | © 2010 IBM Corporation

Select option 4, Object List, from the utility functions menu. Press Enter.

## Select an object from the object list panel



```
Process Options Utilities Help
FM/DB2 (D91F) Object List Utility
Command ==> _____
blank Display object list More: +
Object Identification Criteria:
Location . . . . . _____
Owner . . . . . ALL* +
Name . . . . . * +
Database/collect/schema _____ +
Additional Selection Criteria:
. . . . . Enter * to list catalog columns
Column . . . . . _____ +
Operator . . . . . _____
Value . . . . . _____ +
Processing Options:
Object Type Enter ? to list all object types
3 1. Database 8. Package 15. Trigger
2. Table space 9. Collection 16. Storage group
3. Table/view/alias 10. DBRM 17. Sequence
```

Specify wildcards in the owner and name

Enter

18

IBM File Manager DB2 for z/OS V10 Mentor Workshop

W00 © 2010 IBM Corporation

The object list utility panel is displayed. Specify an object name in the 'Object Identification Criteria' entry fields. Wildcard characters can be used in these fields. Here an owner of ALL\* with a name "\*" is typed. Enter

## Select the object E = edit



Process Options Utilities Help

FM/DB2 (D91F) Tables, Views and Aliases Top of 21  
 Command ==> Scroll PAGE  
 21 rows fetched Format TABL

SEL	TABLE OWNER	TABLE NAME	DATABASE NAME		
	*	*	*		
----	#2-----	#1-----1-----	#4-----		
****	Top of data ****				
	ALLANSC	BILL_HISTORY	DSN00015		86
	ALLANSC	CLINIC_COST	DSN00017		88
	ALLANSC	DEPT	DSN00035		87
	ALLANSC	EMP	DSN00040		82
	ALLANSC	EMPCOPY1	DSN00041		83
	ALLANSC	EMPCOPY2	DSN00043		85
	ALLANSC	IMPORTEMP	DSN00045		87
	ALLANSC	INSURER	DSN00023		84
	ALLANSC	INSURER_COST	DSN00019	Table	4 INSURERR 290
	ALLANSC	INSURER_TRANSFER	DSN00021	Table	4 INSURERR 292
	ALLANSC	PATIENT	DSN00027	View	8 PATIENTF
	ALLANSC	PATIENTF	DSN00027	Table	9 PATIENTF
	ALLANSC	PATIENT_HISTORY	DSN00025	Table	14 PATIENTR

**Line commands:**

- ? Display list of cmds
- E Edit
- B Browse
- V View
- C Copy
- COL Show columns
- XC Indexes/Index cols
- ...and many more

Enter

19 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

A list of matching objects is displayed. The object list utility will be described in its own section in this tutorial, and there are many line commands that can be used. For example, e for edit, b for browse, c for copy, i for details about a table or view. A question mark in the selection area will show a list of all of the available line commands. In this case, "e" (for edit) is typed as a line command next to an object. Press Enter.

## Edit panel is displayed



```
Process Options Utilities Help
FM/DB2 (D91F) DB2 Edit
Command ==> _____

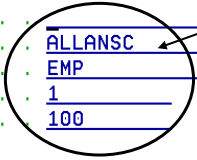
DB2 Object:
Location . . . . . _____ (optional)
Owner . . . . . ALLANSC + _____ (optional)
Name . . . . . EMP + _____
Start position . . . . . 1
Row count . . . . . 100 Number of rows to edit

Template:
Data set name . . . . . _____
Member . . . . . _____

Processing Options:
Template usage Enter "/", "A" always to select option
3 1. Above - Edit options
2. Previous - Edit template
3. Generate from table - Re-edit template
4. Generate/Replace

Enter
```

The table or view that you selected



File Manager DB2 edit panel is displayed. The object information (owner and name in this example), are filled in on the panel. Press Enter to select the object.

## Selected object is returned in edit



Process Options Utilities Help

FM/DB2 (D91F) Table Edit Top of 42

Command ---> Scroll PAGE


42 rows fetched Format TABL

EMPNO	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE
#1	#2	#3	#4	#5	#6	#7
CH(6)	VARCHAR(12)	CH(1)	VARCHAR(15)	CH(3)	CH(4)	DATE
PU-->	<-----1->	-	<-----1----->	<-N	<-->	<----->
***** **** Top of data ****						
000001	000010	CHRISTINE<	I	HAAS<	A00	3978 1965-01-01
000002	000020	MICHAEL<	L	THOMPSON<	B01	3476 1973-10-10
000003	000030	SALLY<	A	KWAN<	C01	4738 1975-04-05
000004	000050	JOHN<	B	GEYER<	E01	6789 1949-08-17
000005	000060	IRVING<	F	STERN<	D11	6423 1973-09-14
000006	000070	EVA<	D	PULASKI<	D21	7831 1980-09-30
000007	000090	EILEEN<	W	HENDERSON<	E11	5498 1970-08-15
000008	000100	THEODORE<	Q	SPENSER<	E21	0978 1990-06-19
000009	000110	VINCENZO<	G	LUCCHESI<	A00	3498 8-05-16
000010	000120	SEAN<		O'CONNELL<	A00	2168 12-05
000011	000130	DOLORES<	M	QUINTANA<	C01	4575 12-28
000012	000140	HEATHER<	A	NICHOLLS<	C01	1793
000013	000150	BRUCE<		ADAMSON<	D11	4510
000014	000160	ELIZABETH<	R	PIANKA<	D11	3782 197

F3

21 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

The object was selected using options 3 utilities, and 4 object list. This method can be useful if the exact name of the object is not known. This function works similar to ISPF option 3.4. Press F3 (exit) four times to return to the File Manager DB2 primary option menu.

- Access a table or view from the view panel
  - Using a fully qualified name
  - Using the 'stacking' function
- Access a table or view from the edit panel
  - Using \*wildcards\* in the name
- Access a table or view from the object list
  - Select from a list on the 3.4 panel
-  ▪ Access a table or view using SQL statement
  - Start edit or view from one of the SQL execution panels

Another way to start the editor or viewer is to provide SQL statements. When the SQL statements are executed in File Manager, the result set will be displayed in edit, view, or browse.

## Select 4 SQL



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)          Primary Option Menu
Command ==> 4_

0 Settings      Set processing options      User ID . . : TSS13
1 View         View DB2 object             System ID  : STLABF6
2 Edit         Edit DB2 object             Appl ID   : FMN2
3 Utilities    Perform utility functions   Version   : 10.1.0
4 SQL         Prototype, execute and analyze SQL  Terminal  : 3278A
5 DB2I        Start DB2 Interactive       Screen   : 1
6 Command     Enter and execute a DB2 Command   Date    . . : 2010/03/24
X Exit        Terminate FM/DB2           Time    . . : 01:28

                                DB2 SSID . . D91F
                                SQL ID   . . TSS13  +

Enter
```

23

IBM File Manager DB2 for z/OS V10 Mentor Workshop

W00 © 2010 IBM Corporation

From the File Manager DB2 main menu, select option 4, SQL. Press Enter.

## Select 3 Enter, execute and explain SQL statements



```
Process Options Utilities Help
FM/DB2 (D91F) SQL Prototyping, Execution and Analysis
Command ==> 3
1 Basic Prototype SELECT statements (basic)
2 Advanced Prototype SELECT statements (advanced)
3 Enter Enter, execute and explain SQL statements
4 Edit Edit and execute SQL statements from a data set
5 Utility Manage tables used by SQL explain
```

These utilities let you create and run SQL statements

Use Option 4 to execute SQL from a data set

Enter

24

IBM File Manager DB2 for z/OS V10 Mentor Workshop

W00 © 2010 IBM Corporation

The SQL prototyping and execution menu is displayed. Use option 1 or 2, and File Manager will step through the creation of new SQL statements. Option 4 provides a way to run SQL statements that are in a file, such as a PDS member. Option 3 allows entry of SQL statements. Once entered the SQL statements can be run. Select option 3 (Enter, execute and explain SQL statements). Press Enter.



## Enter SQL statements



Process Options Utilities Help

---

FM/DB2 (D91F) Enter, Execute and Explain SQL

Command ==> \_\_\_\_\_ Scroll PAGE

SELECT Options: EXPLAIN Options:  
Row count . . . . . ALL Query number . . . . . \_\_\_\_\_

Enter "/" to select option  
/ Show results

SQL statement:

```
SELECT #1.FIRSTNAME, #1.LASTNAME, #1.WORKDEPT, #2.DEPTNO, #2.DEPTNAME, #2
.LOCATION
FROM ALLANSC.EMP #1, ALLANSC.DEPT #2
WHERE #1.WORKDEPT = #2.DEPTNO
ORDER BY #1.LASTNAME ASC OPTIMIZE
FOR 100 ROWS _
```

Enter

Enter the SQL statements you want to run.  
You can have a table join using this method.

25 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

The Enter, Execute and Explain SQL panel is displayed. In the “SQL statement” area, type or paste in an SQL statement. Entering SQL allows the specification of a table join. When the SQL statement is ready, press Enter to run it.

## SQL results are returned



```
Process  Options  Utilities  Help
FM/DB2 (D91F)                               Select Statement Browse                               Top of 42
Command ---->                               Scroll PAGE
42 rows fetched                               Format TABL
FIRSTNAME  LASTNAME  WORKDEPT  DEPTNO  DEPTNAME
#2         #4         #5         #6         #7
VARCHAR(12) VARCHAR(15) CH(3)     CH(3)
<---+----1-> <---+----1----> <-N     <->
**** Top of data ****
BRUCE<     ADAMSON<     D11       D11
ROY<       ALONZO<     E21       E21
DAVID<     BROWN<      D11       D11
JOHN<      GEYER<      E01       E01     SUPPORT SERVICES<
JASON<     GOUNOT<     E21       E21     SOFTWARE SUPPORT<
CHRISTINE< HAAS<       A00       A00     SPIFFY COMPUTER SERVICE DIV.<
DIAN<      HEMMINGER<  A00       A00     SPIFFY COMPUTER SERVICE DIV.<
EILEEN<    HENDERSON<  E11       E11     OPERATIONS<
JAMES<     JEFFERSON<  D21       D21     ADMINISTRATION SYSTEMS<
REBA<      JOHN<       D11       D11     MANUFACTURING SYSTEMS<
SYBIL<     JOHNSON<    D21       D21     ADMINISTRATION SYSTEMS<
WILLIAM<   JONES<      D11       D11     MANUFACTURING SYSTEMS<
SALLY<     KWAN<       C01       C01     INFORMATION CENTER<
WING<      LEE<        E21       E21     SOFTWARE SUPPORT<
```

Results can be displayed in Browse, View, or Edit  
This will be covered in the Options section of the training.

26 | IBM File Manager DB2 for z/OS V10 Mentor Workshop | W00 © 2010 IBM Corporation

The SQL statement is executed. The results will be displayed in edit, browse or view, based on the selection that is made in the File Manager DB2 options. This setting will be covered in the 'Options' section of the training.

- Introduction
- Browse or edit commands
  - Starting the editor or viewer
  - Find, change, and locate data
  - Insert, repeat, and delete rows
  - The display formats and zoom
- Database navigation
  - Save and get
  - Print rows
  - Handling errors when saving
  - REDIT to related tables
- File Manager DB2 options
  - Review option settings

The next section covers some important commands used to work with data. Find, change, and locate.

# Selected object in edit



```
Process Options Utilities Help
FM/DB2 (D91F) Table Edit Top of 42
Command ---> Scroll PAGE
42 rows fetched Format TABL
EMPNO FIRSTNME MIDINIT LASTNAME WORKDEPT PHONENO HIREDATE
#1 #2 #3 #4 #5 #6 #7
CH(6) VARCHAR(12) CH(1) VARCHAR(15) CH(3) CH(4) DATE
PU--> <-----1-> - <-----1-----> <-N <--> <----->
***** **** Top of data ****
000001 000010 CHRISTINE< I HAAS< A00 3078 1965-01-01
000002 000020 MICHAEL< L THOMPSON< B01 3476 1973-10-10
000003 000030 SALLY< A KWANK< C01 4738 1975-04-05
000004 000050 JOHN< B GEYER< E01 6789 1949-08-17
000005 000060 IRVING< F STERN< D11 6423 1973-09-14
000006 000070 EVA< D PULASKI< D21 7831 1980-09-30
000007 000090 EILEEN< W HENDERSON< E11 5498 1970-08-15
000008 000100 THEODORE< Q SPENSER< E21 0972 1980-06-19
000009 000110 VINCENZO< G LUCCHESI< A00 3490 1958-05-16
000010 000120 SEAN< O'CONNELL< A00 2167 1963-12-05
000011 000130 DOLORES< M QUINTANA< C01 4578 1971-07-28
000012 000140 HEATHER< A NICHOLLS< C01 1793 1976-12-15
000013 000150 BRUCE< ADAMSON< D11 4510 1972-02-12
000014 000160 ELIZABETH< R PIANKA< D11 3782 1977-10-11
```

An object has been selected and is displayed in edit mode.

## Change data by overtyping value



```

Process  Options  Utilities  Help
-----
FM/DB2 (D91F)                Table Edit                Top of 42
Command ==>
42 rows fetched
Format TABL
***** **** Top of data ****
EMPNO  FIRSTNME  MIDINIT  LASTNAME  WORKDEPT  PHONENO  HIREDATE
#1     #2         #3       #4        #5        #6       #7
CH(6)  VARCHAR(12) CH(1)    VARCHAR(15) CH(3)    CH(4)    DATE
PU--> <-----1-> - <-----1-----> <-N <--> <----->
***** **** Top of data ****
000001 000010 CHRISTINE< I HAAS< A00 3978 1965-01-01
000002 000020 MICHAEL< L THOMPSON< B01 1111 1973-10-10
000003 000030 SALLY< A KWAN< C01 4738 1975-04-05
000004 000050 JOHN< B GEYER< E01 6789 1949-08-17
000005 000060 IRVING< F STERN< D11 6423 1973-09-14
000006 000070 EVA< D PULASKI< D21 7831 1980-09-30
000007 000090 EILEEN< W HENDERSON< E11 5498 1970-08-15
000008 000100 THEODORE< Q SPENSER< E21 0972 1980-06-19
000009 000110 VINCENZO< G LUCCHESI< A00 3490 1958-05-16
000010 000120 SEAN< O'CONNELL< A00 2167 1963-12-05
000011 000130 DOLORES< M QUINTANA< C01 4578 1971-07-28
000012 000140 HEATHER< A NICHOLLS< C01 1793 197
000013 000150 BRUCE< ADAMSON< D11 4510 197
000014 000160 ELIZABETH< R PIANKA< D11 3782 197
    
```

**Enter**

29

IBM File Manager DB2 for z/OS V10 Mentor Workshop

W00 © 2010 IBM Corporation

In the editor, data can be displayed in Table format, as it is here. The format indicator is displayed on the screen, below the scroll value. Each row in the data base is a line on the screen. The columns are shown by name, and each one is assigned a number. Column numbers can be used in some of the commands.

Use the function keys to scroll the data. F7 will scroll up, and F8 will scroll down. F10 and F11 scroll to the left and to the right. Making a change to data is simple. Just overtype a value. This example demonstrates changing the PHONENO column, column number 6, on row two from 3476 to 1111 and pressing Enter.

## Value has changed



Process Options Util

FM/DB2 (D91F)  
Command ==>

TABLE ALLANSC.EMP

EMPNO	FIRSTNME	#1	#2	CH(6)	VARCHAR(12)	CH(1)	VARCHAR(15)	CH(3)	CH(4)	DATE
000001	CHRISTINE<	I		HAAS<		A00		3978		1965-01-01
000002	MICHAEL<	L		THOMPSON<		B01		1111		1973-10-10
000003	SALLY<	A		KWAN<		C01		4738		1975-04-05
000004	JOHN<	B		GEYER<		E01		6789		1949-08-17
000005	IRVING<	F		STERN<		D11		6423		1973-09-14
000006	EVA<									
000007	EILEEN<									
000008	THEODORE<	Q		SPENSER<		E21		0972		1980-06-19
000009	VINCENZO<	G		LUCCHESI<		A00		3490		1958-05-16
000010	SEAN<			O'CONNELL<		A00		2167		1963-12-05
000011	DOLORES<	M		QUINTANA<		C01		4578		1971-07-28
000012	HEATHER<	A		NICHOLLS<		C01		1793		1976-12-15
000013	BRUCE<			ADAMSON<		D11		4510		1972-02-12
000014	ELIZABETH<	R		PIANKA<		D11		3782		1977-10-11

\*\*\*\*\* \*\*\*\* Top of data \*\*\*\*

Changed rows will appear yellow highlighted

To save your changes:  
- \_PF3 (exit and save), or  
- \_SAVE command (save without exiting)

CANCEL command or F12 will roll back changes.

30

IBM File Manager DB2 for z/OS V10 Mentor Workshop

W00 © 2010 IBM Corporation

The field value has changed. File Manager DB2 will highlight the entire row if any data has been changed. This includes data that has been overtyped with the same value.

## Find data



Command ==> f in Enter

---

FM/DB2 (D91F) Table E Chars 'in' found  
 Command ==> Scroll PAGE  
 TABLE ALLANSC.EMP Format TABL

EMPNO	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE
#1	#2	#3	#4	#5	#6	#7
CH(6)	VARCHAR(12)	CH(1)	VARCHAR(15)	CH(3)	CH(4)	DATE
PU-->	<-----1->	-	<-----1----->	<-N	<-->	<----->
***** **** Top of data ****						
000001	000010	CHRISTINE<	I	HAAS<	A00	3978 1965-01-01
000002	000020	MICHAEL<	L	THOMPSON<	B01	1111 1973-10-10
000003	000030	SALLY<	A	KWANK<	C01	4738 1975-04-05
000004	000050	JOHN<	B	GEYER<	E01	6789 1949-08-17
000005	000060	IRVING<	F	STERN<	D11	6423 1973-09-14
000006	000070	EVA<	D	PULASKI<	D21	7831 1980-09-30
000007	000090	EILEEN<	W	HENDERSON<	E11	5498 1970-08-15
000008	000100	THEODORE<	Q	SPENSER<	E21	0972 1980-06-19
000009	000110	VINCENZO<	G	LUCCHESI<	A00	3490 1958-05-16
000010	000120	SEAN<		O'CONNELL<	A00	2167 1963-12-05
000011	000130	DOLORES<	M	QUINTANA<	C01	4578 1971-07-28
000012	000140	HEATHER<	A	NICHOLLS<	C01	1793 1976-12-15
000013	000150	BRUCE<		ADAMSON<	D11	4510 1972-02-12
000014	000160	ELIZABETH<	R	PIANKA<	D11	3782 1977-10-11

31
IBM File Manager DB2 for z/OS V10 Mentor Workshop
W00 © 2010 IBM Corporation

The find command was used to find the value 'in'. The command 'f in' was entered on the command line, and Enter was pressed. Just as in ISPF, the cursor is positioned to the first found value, and the rest of the occurrences visible on the screen have been highlighted.

## Find data in a specific column



Command ==> f in #4 Enter

```

FM/DB2 (D91F)                               Table Ed                               Chars 'in' found
Command ==>                               Scroll PAGE
TABLE ALLANSC.EMP                             Format TABL
      EMPNO  FIRSTNME  MIDINIT  LASTNAME      WORKDEPT  PHONENO  HIREDATE
      #1     #2        #3        #4            #5        #6        #7
      CH(6)  VARCHAR(12) CH(1)    VARCHAR(15)   CH(3)    CH(4)    DATE
      PU--> <-----1-> -      <-----1-----> <-N      <-->    <----->
***** **** Top of data ****
000001 000010 CHRISTINE<  I      HAAS<      A00      3978      1965-01-01
000002 000020 MICHAEL<   L      THOMPSON<  B01      1111      1973-10-10
000003 000030 SALLY<     A      KWANK<     C01      4738      1975-04-05
000004 000050 JOHN<      B      GEYER<     E01      6789      1949-08-17
000005 000060 IRVING<    F      STERN<     D11      6423      1973-09-14
000006 000070 EVA<      D      PULASKI<   D21      7831      1980-09-30
000007 000090 EILEEN<   W      HENDERSON< E11      5498      1970-08-15
000008 000100 THEODORE< Q      SPENSER<   E21      0972      1980-06-19
000009 000110 VINCENZO< G      LUCCHESI<  A00      3490      1958-05-16
000010 000120 SEAN<     O'CONNELL< A00      2167      1963-12-05
000011 000130 DOLORES<  M      QUINTANA<  C01      4578      1971-07-28
000012 000140 HEATHER<  A      NICHOLLS<  C01      1793      1976-12-15
000013 000150 BRUCE<    ADAMSON<   D11      4510      1972-02-12
000014 000160 ELIZABETH< R      PIANKA<    D11      3782      1977-10-11
    
```

32
IBM File Manager DB2 for z/OS V10 Mentor Workshop
W00 © 2010 IBM Corporation

The find command can be directed to look for data in a specific column. 'F in #4' was entered on the command line and Enter was pressed. File Manager DB2 will search column 4, the LASTNAME field for the value "in". The screen has been positioned to the matching data on row 11.



## Find data in multiple columns



Command ==> f th (#2 #4,#5) Enter

FM/DB2 (D91F)		Table Edit				Chars 'th' found	
Command ==>						Scroll PAGE	
TABLE ALLANSC.EMP						Format TABL	
EMPNO	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE	
#1	#2	#3	#4	#5	#6	#7	
CH(6)	VARCHAR(12)	CH(1)	VARCHAR(15)	CH(3)	CH(4)	DATE	
PU-->	<-----1->	-	<-----1----->	<-N	<-->	<----->	
***** **** Top of data ****							
000001	000010	CHRISTINE<	I	HAAS<	A00	3978	1965-01-01
000002	000020	MICHAEL<	L	THOMPSON<	B01	1111	1973-10-10
000003	000030	SALLY<	A	KWANK<	C01	4738	1975-04-05
000004	000050	JOHN<	B	GEYER<	E01	6789	1949-08-17
000005	000060	IRVING<	F	STERN<	D11	6423	1973-09-14
000006	000070	EVA<	D	PULASKI<	D21	7831	1980-09-30
000007	000090	EILEEN<	W	HENDERSON<	E11	5498	1970-08-15
000008	000100	THEODORE<	Q	SPENSER<	E21	0972	1980-06-19
000009	000110	VINCENZO<	G	LUCCHESI<	A00	3490	1958-05-16
000010	000120	SEAN<		O'CONNELL<	A00	2167	1963-12-05
000011	000130	DOLORES<	M	QUINTANA<	C01	4578	1971-07-28
000012	000140	HEATHER<	A	NICHOLLS<	C01	1793	1976-12-15
000013	000150	BRUCE<		ADAMSON<	D11	4510	1972-02-12
000014	000160	ELIZABETH<	R	PIANKA<	D11	3782	1977-10-11

33
IBM File Manager DB2 for z/OS V10 Mentor Workshop
W00 © 2010 IBM Corporation

The find command can also be used with multiple columns selected. 'F th (#2 #4,#5)' has been entered on the command line. Enter was pressed. File Manager DB2 will search all three columns for the data. The first occurrence will be highlighted, and the cursor will be positioned there. Other occurrences visible on the display will be highlighted. When entering multiple columns, values should be enclosed in parenthesis. Values can be separated with a space or a comma.

## Find a value of 16



```
Command ==> f 16 Enter
```

FM/DB2 (D91F) Tab Chars '16' found  
Command ==> Scroll PAGE  
TABLE ALLANSC.EMP Format TABL

EDLEVEL	SEX	BIRTHDATE	SALARY	BONUS	COMM
#9 #10	#11	#12	#13	#14	#14
SMINT CH(1)	DATE	DEC(9,2)	DEC(9,2)	DEC(9,2)	
<---->	-	<----->	<----->	<----->	<----->
***** **** Top of data ****					
000001	18 F	1933-08-14	52750.00	1000.00	4220.00
000002	18 M	1948-02-02	41250.00	800.00	3300.00
000003	20 F	1941-05-11	38250.00	800.00	3060.00
000004	16 M	1925-09-15	40175.00	800.00	3214.00
000005	16 M	1945-07-07	32250.00	600.00	2580.00
000006	16 F	1953-05-26	36170.00	700.00	2893.00
000007	16 F	1941-05-15	29750.00	600.00	2380.00
000008	14 M	1956-12-18	26150.00	500.00	2092.00
000009	19 M	1929-11-05	46500.00	900.00	3720.00
000010	14 M	1942-10-18	29250.00	600.00	2340.00
000011	16 F	1925-09-15	23800.00	500.00	1904.00
000012	18 F	1946-01-19	28420.00	600.00	2274.00
000013	16 M	1947-05-17	25280.00	500.00	2022.00
000014	17 F	1955-04-12	22250.00	400.00	1780.00

34 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

The find command will find data in the object. 'F 16' was entered on the command line. This command works the same in File Manager DB2 as it does in ISPF. The first occurrence of the data will be located, the cursor will be placed there. Any other occurrences showing on the screen will be highlighted.

## Use FX command to enter large search criteria



Command ==> **fx** **Enter**

FM/DB2 (D91F) Tab Top of 42  
Command ==> fx Scroll PAGE  
T Extended Command Entry t TABL

Complete typing the FIND command and press Enter.

FIND ==> 'some long string of data that you would like to f  
==> ind in the table'  
==> \_\_\_\_\_  
==> \_\_\_\_\_  
==> \_\_\_\_\_

**Enter**

000008	14	M	1956-12-18	26150.00	500.00	2092.00
000009	19	M	1929-11-05	46500.00	900.00	3720.00
000010	14	M	1942-10-18	29250.00	600.00	2340.00
000011	16	F	1925-09-15	23800.00	500.00	1904.00
000012	18	F	1946-01-19	28420.00	600.00	2274.00
000013	16	M	1947-05-17	25280.00	500.00	2022.00
000014	17	F	1955-04-12	22250.00	400.00	1780.00

**35** IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

FX was entered on the command line. FX will bring up a larger entry field for find commands. CX will do the same function for the change command. The find or change command (depending on whether you used FX or CX), will be entered for you. Type the value to find or change in the box and hit enter to execute.

## Change all data in a specific column



Command ==> **c all design ENGINE #8** **Enter**

FM/DB2 (D91F) Table Edit 10/10 changed  
 Command ==> Scroll PAGE  
 TABLE ALLANSC.EMP Format TABL

JOB	EDLEVEL	SEX	BIRTHDATE	SALARY	BONUS	COMM
#8	#9 #10	#11	#12	#13	#14	#14
CH(8)	SMINT CH(1)	DATE	DEC(9,2)	DEC(9,2)	DEC(9,2)	DEC(9,2)
<----->	<---->	-	<----->	<-----1>	<-----1>	<-----1>
000012 ANALYST	18 F	1946-01-19	28420.00	600.00	2274.00	
000013 ENGINEER	16 M	1947-05-17	25280.00	500.00	2022.00	
000014 ENGINEER	17 F	1955-04-12	22250.00	400.00	1780.00	
000015 ENGINEER	16 M	1951-01-05	24680.00	500.00	1974.00	
000016 ENGINEER	17 F	1949-02-21	21340.00	500.00	1707.00	
000017 ENGINEER	16 M	1952-06-25	20450.00	400.00	1636.00	
000018 ENGINEER	16 M	1941-05-29	27740.00	600.00	2217.00	
000019 ENGINEER	17 M	1953-02-23	18270.00	400.00	1462.00	
000020 ENGINEER	18 F	1948-03-19	29840.00	600.00	2387.00	
000021 CLERK	14 M	1935-05-30	22180.00	400.00	1774.00	
000022 CLERK	17 M	1954-03-31	28760.00	600.00	2301.00	
000023 CLERK	15 M	1939-11-12	19180.00	400.00	1534.00	
000024 CLERK	16 F	1936-10-05	17250.00	300.00	1380.00	
000025 CLERK	15 F	1953-05-26	27380.00	500.00	2190.00	
000026 OPERATOR	17 F	1936-03-28	26250.00	500.00	2100.00	

36 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

The command 'c all design ENGINE #8', was used to modify the job DESIGNER to ENGINEER. The scope was limited to only the JOB column of data by using #8 in the command. The color of the modified rows has been changed, to indicate that data was modified.

- Entering strings in FIND and CHANGE:
  - FIND abc or CHANGE abc xyz
    - not case sensitive
  - FIND 'abc' or CHANGE 'abc' 'xyz'
    - not case sensitive
    - can contain spaces, or be a null value
  - FIND C'aBc' or CHANGE C'aBc' C'XyZ'
    - case sensitive
    - can contain spaces, or be a null value
  - FIND X'C1' or CHANGE X'E7' X'5F'
    - can contain any hex values

Here is the syntax for Find and Change commands.

Find or change commands are not case sensitive. If find or change is entered with the search variable in quotation marks, the command is still not case sensitive, but it can contain spaces, or be a null value.

Find or change with a c followed by the search variable in quotation marks, is case sensitive and can contain spaces or be a null value.

Find or change can be used to search for hexadecimal values. Specify an x followed by the hex value in quotation marks.

## Find and change review

### Page 2 of 3



- Limiting the columns or fields searched
  - The default is to search all columns
- FIND abc #5 or CHANGE abc xyz #5
  - Searches only in one column
  - Uses column reference number
- FIND abc (#5 #12 #3) or CHANGE abc xyz (#5,#12,#3)
  - Searches in specified columns
  - Separate with either commas or spaces

The scope of find and change commands can be limited. Searches can be limited to only certain column numbers. Type the find or change command as you normally would, then add the # with the column or column numbers to be searched. Multiple columns can be searched by putting them in parenthesis. Separate the column numbers by either a space or a comma.

## Find and change review

### Page 3 of 3



- **Changing the scope**
  - The default is to search all rows
- FIND ALL abc or CHANGE ALL abc xyz  
FIND ALL abc #5 or CHANGE ALL abc xyz #5
  - Searches all returned rows
- **Other parms that affect scope:**
  - FIRST first occurrence, starting at first row forward
  - LAST last occurrence, starting from last row backward
  - NEXT next occurrence, forward from current location
  - PREV previous occurrence, backward from current location
  - .label1 .label2 between two predefined row labels
  - X or NX excluded, or not excluded rows only

A Find ALL searches the entire result set and gives a count. Change ALL changes all occurrences in the result set. Scope parameters can be specified. First, search for the first occurrence, Last, search for the last occurrence, Next will search forward from the current location, and Previous will search backward from the current location. Searches can be between specific edit labels that have been created, or search only excluded or not excluded rows.

## Locate a row



Command ==> **1 17** **Enter**

FM/DB2 (D91F) Ta 17 of 42  
Command ==> Scroll PAGE  
Format TABL

JOB #8	EDLEVEL #9	SEX #10	BIRTHDATE #11	SALARY #12	BONUS #13	COMM #14
CH(8)	SMINT	CH(1)	DATE	DEC(9,2)	DEC(9,2)	DEC(9,2)
000017	ENGINEER	16 M	1952-06-25	20450.00	400.00	1636.00
000018	ENGINEER	16 M	1941-05-29	27740.00	600.00	2217.00
000019	ENGINEER	17 M	1953-02-23	18270.00	400.00	1462.00
000020	ENGINEER	18 F	1948-03-19	29840.00	600.00	2387.00
000021	CLERK	14 M	1935-05-30	22180.00	400.00	1774.00
000022	CLERK	17 M	1954-03-31	28760.00	600.00	2301.00
000023	CLERK	15 M	1939-11-12	19180.00	400.00	1534.00
000024	CLERK	16 F	1936-10-05	17250.00	300.00	1380.00
000025	CLERK	15 F	1953-05-26	27380.00	500.00	2190.00
000026	OPERATOR	17 F	1936-03-28	26250.00	500.00	2100.00
000027	OPERATOR	12 M	1946-07-09	15340.00	300.00	1227.00
000028	OPERATOR	14 M	1936-10-27	17750.00	400.00	1420.00
000029	OPERATOR	12 F	1931-04-21	15900.00	300.00	1272.00
000030	FIELDREP	16 M	1932-08-11	19950.00	400.00	1596.00
000031	FIELDREP	14 M	1941-07-18	25370.00	500.00	2030.00

40 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

The locate command is used to reposition the object display to a specific location. L 17 was entered on the command line and Enter was pressed. The object was positioned to row 17.



## Position to a field



Command ==> **l firstn** **Enter**

FM/DB2 (D91F) Tab 17 of 42  
Command ==> Scroll PAGE  
TABLE ALLANSC EMP Format TABL

#2	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE	JOB
	VARCHAR (12)	CH (1)	VARCHAR (15)	CH (3)	CH (4)	DATE	CH (8)
000017	JAMES<	H	WALKER<	D11	2986	1974-07-26	ENGINE
000018	DAVID<						
000019	WILLIAM<	T					
000020	JENNIFER<	K					
000021	JAMES<	J					
000022	SALVATORE<	M					
000023	DANIEL<	S	SMITH<	D21	0961	1969-10-30	CLERK
000024	SYBIL<	V	JOHNSON<	D21	8953	1975-09-11	CLERK
000025	MARIA<	L	PEREZ<	D21	9001	1980-09-30	CLERK
000026	ETHEL<	R	SCHNEIDER<	E11	8997	1967-03-24	OPERAT
000027	JOHN<	R	PARKER<	E11	4502	1980-05-30	OPERAT
000028	PHILIP<	X	SMITH<	E11	2095	1972-06-19	OPERAT
000029	MAUDE<	F	SETRIGHT<	E11	3332	1964-09-12	OPERAT
000030	RAMLAL<	V	MEHTA<	E21	9990	1965-07-07	FIELDR
000031	WING<		LEE<	E21	2103	1976-02-23	FIELDR

Note: The & “glues” a command to the command line and allows you to repeat locate commands

41 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

The locate command was used in this example to position the table to a field with firstn in it. The locate is a positioning command and will move the 'located' data to the top left corner of the display.

Locate a column reference number  
Display positioned to reference #1

Command ==> l #1 Enter

FM/DB2 (D91F) Tab 17 of 42  
 Command ==> Scroll PAGE  
 Format TABL

EMPNO	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE
#1	#2	#3	#4	#5	#6	#7
CH(6)	VARCHAR(12)	CH(1)	VARCHAR(15)	CH(3)	CH(4)	DATE
PU-->	<-----1->	-	<-----1----->	<-N	<-->	<----->
000017	000190	JAMES<	H	WALKER<	D11	2986 1974-07-26
000018	000200	DAVID<		BROWN<	D11	4501 1966-03-03
000019	000210	WILLIAM<	T	JONES<	D11	0942 1979-04-11
000020	000220	JENNIFER<	K	LUTZ<	D11	0672 1968-08-29
000021	000230	JAMES<	J	JEFFERSON<	D21	2094 1966-11-21
000022	000240	SALVATORE<	M	MARINO<	D21	3780 1979-12-05
000023	000250	DANIEL<	S	SMITH<	D21	0961 1969-10-30
000024	000260	SYBIL<	V	JOHNSON<	D21	8953 1975-09-11
000025	000270	MARIA<	L	PEREZ<	D21	9001 1980-09-30
000026	000280	ETHEL<	R	SCHNEIDER<	E11	8997 1967-03-24
000027	000290	JOHN<	R	PARKER<	E11	4502 1980-05-30
000028	000300	PHILIP<	X	SMITH<	E11	2095 1972-06-19
000029	000310	MAUDE<	F	SETRIGHT<	E11	3332 1964-09-12
000030	000320	RAMLAL<	V	MEHTA<	E21	9990 1965-07-07
000031	000330	WING<		LEE<	E21	2103 1976-02-23

42 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

A locate can be done on a column reference number. Here l #1 was entered on the command line and enter was pressed. The table was repositioned to the column #1 location.

Set label line .a on row 21  
label line .b on row 25



Process	Options	Utilities	Help
FM/DB2 (D91F)			Table Edit
Command ==>			17 of 42
			Scroll PAGE
TABLE ALLANSC.EMP			Format TABL
EMPNO	FIRSTNME	MIDINIT	LASTNAME
#1	#2	#3	#4
CH(6)	VARCHAR(12)	CH(1)	VARCHAR(15)
WORKDEPT	PHONENO	HIREDATE	
#5	#6	#7	
CH(3)	CH(4)	DATE	
PU-->	<-----1->	-	<-----1----->
<-N	<-->	<----->	
000017	000190	JAMES<	H
		WALKER<	D11
		2986	1974-07-26
000018	000200	DAVID<	BROWN<
		D11	4501
		1966-03-03	
000019	000210	WILLIAM<	T
		JONES<	D11
		0942	1979-04-11
000020	000220	JENNIFER<	K
		LUTZ<	D11
		0672	1968-08-29
.a	021	000230	JAMES<
		J	JEFFERSON<
		D21	2094
		1966-11-21	
000022	000240	SALVATORE<	M
		MARINO<	D21
		3780	1979-12-05
000023	000250	DANIEL<	S
		SMITH<	D21
		0961	1969-10-30
000024	000260	SYBIL<	V
		JOHNSON<	D21
		8953	1975-09-11
.b	025	000270	MARIA<
		L	PEREZ<
		D21	9001
		1980-09-30	
000026	000280	ETHEL<	R
		SCHNEIDER<	E11
		8997	1967-03-24
000027	000290	JOHN<	R
		PARKER<	E11
		4502	1980-05-30
000028	000300	PHILIP<	X
		SMITH<	E11
		2095	1972-06-19
000029	000310	MAUDE<	F
		SETRIGHT<	E11
		3332	196
000030	000320	RAMLAL<	V
		MEHTA<	E21
		9990	196
000031	000330	WING<	
		LEE<	E21
		2103	197

Enter

Label lines can be set in edit and view. On row 21 .a was entered in the line prefix area. On row 25, .b was entered. This will set label lines .a and .b. The labels will be used to limit the scope of a change command. The .b label will also be used to locate row 25 after moving around in the table.

## Change all using label lines to limit rows changed Scroll down



Command ==> c all clerk CASHIER .a .b

Enter

---

FM/DB2 (D91F) Table Edit 5/5 changed

Command ==> Scroll PAGE

TABLE ALLANSC.EMP Format TABL

#8	JOB	EDLEVEL	SEX	BIRTHDATE	SALARY	BONUS	COMM
CH(8)		#9	#10	#11	#12	#13	#14
SMINT	CH(1)	DATE	DEC(9,2)	DEC(9,2)	DEC(9,2)	DEC(9,2)	DEC(9,2)
<----->	<---->	-	<----->	<-----1>	<-----1>	<-----1>	<-----1>
000017	ENGINEER	16	M	1952-06-25	20450.00	400.00	1636.00
000018	ENGINEER	16	M	1941-05-29	27740.00	600.00	2217.00
000019	ENGINEER	17	M	1953-02-23	18270.00	400.00	1462.00
000020	ENGINEER	18	F	1948-03-19	29840.00	600.00	2387.00
.A	CASHIER	14	M	1935-05-30	22180.00	400.00	1774.00
000022	CASHIER	17	M	1954-03-31	28760.00	600.00	2301.00
000023	CASHIER	15	M	1939-11-12	19180.00	400.00	1534.00
000024	CASHIER	16	F	1936-10-05	17250.00	300.00	1380.00
.B	CASHIER	15	F	1953-05-26	27380.00	500.00	190.00
000026	OPERATOR	17	F	1936-03-28	26250.00	500.00	100.00
000027	OPERATOR	12	M	1946-07-09	15340.00	300.00	00.00
000028	OPERATOR	14	M	1936-10-27	17750.00	400.00	00.00
000029	OPERATOR	12	F	1931-04-21	15900.00	300.00	00.00
000030	FIELDREP	16	M	1932-08-11	19950.00	400.00	10.00
000031	FIELDREP	14	M	1941-07-18	25370.00	500.00	20.00

F10

F8

F8

44
IBM File Manager DB2 for z/OS V10 Mentor Workshop
W00 © 2010 IBM Corporation

'C all clerk CASHIER .a .b' was typed on the command line, and enter was pressed. This will change any/all occurrences of clerk to CASHIER between these two label lines. The command includes both label lines in the scope of the change. Rows with changes have been highlighted. Now, move around in the data. F8, F8, F10 were entered to scroll down and move left in the display.

## After scrolling location is row 36



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)                               Table Edit                               36 of 42
Command ==>                                Scroll PAGE
TABLE ALLANSC.EMP                             Format TABL
EMPNO  FIRSTNME  MIDINIT  LASTNAME  WORKDEPT  PHONENO  HIREDATE
#1     #2         #3       #4        #5        #6       #7
CH(6)  VARCHAR(12)  CH(1)    VARCHAR(15)  CH(3)    CH(4)    DATE
PU--> <-----1-> - <-----1-----> <-N <--> <----->
000036 200170 KIYOSHI<  YAMAMOTO<  D11      2890    1978-09-15
000037 200220 REBA<     K         JOHN<     D11      0672    1968-08-29
000038 200240 ROBERT<  M        MONTEVERDE<  D21     3780    1979-12-05
000039 200280 EILEEN<   R        SCHWARTZ<  E11     8997    1967-03-24
000040 200310 MICHELLE< F        SPRINGER<  E11     3332    1964-09-12
000041 200330 HELENA<  R        WONG<     E21     2103    1976-02-23
000042 200340 ROY<     R        ALONZO<   E21     5698    1947-05-05
***** ***** End of data *****
```

45

IBM File Manager DB2 for z/OS V10 Mentor Workshop

W00 © 2010 IBM Corporation

After scrolling in the data, the current location is row 36. The next slide will use a locate command to reposition back to one of the label lines that were set.

## Locate a label line to reposition display



Command ==> l .b **Enter**

```
FM/DB2 (D91F) Tab 25 of 42
Command ==> Scroll PAGE
TABLE ALLANSC.EMP Format TABL
EMPNO FIRSTNME MIDINIT LASTNAME WORKDEPT PHONENO HIREDATE
#1 #2 #3 #4 #5 #6 #7
CH(6) VARCHAR(12) CH(1) VARCHAR(15) CH(3) CH(4) DATE
PU--> <-----1-> - <-----1-----> <-N <--> <----->
.B 000270 MARIA< L PEREZ< D21 9001 1980-09-30
000026 000280 ETHEL< R SCHNEIDER< E11 8997 1967-03-24
000027 000290 JOHN< R PARKER< E11 4502 1980-05-30
000028 000300 PHILIP< X SMITH< E11 2095 1972-06-19
000029 000310 MAUDE< F SETRIGHT< E11 3332 1964-09-12
000030 000320 RAMLAL< V MEHTA< E21 9990 1965-07-07
000031 000330 WING< LEE< E21 2103 1976-02-23
000032 000340 JASON< R GOUNOT< E21 5698 1947-05-05
000033 200010 DIAN< J HEMMINGER< A00 3978 1965-01-01
000034 200120 GREG< ORLANDO< A00 2167 1972-05-05
000035 200140 KIM< N NATZ< C01 1793 1976-12-15
000036 200170 KIYOSHI< YAMAMOTO< D11 2890 1978-09-15
000037 200220 REBA< K JOHN< D11 0672 1968-08-29
000038 200240 ROBERT< M MONTEVERDE< D21 3780 1979-12-05
000039 200280 EILEEN< R SCHWARTZ< E11 8997 1967-03-24
```

46 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

Label lines .a and .b have been set. Use the I (locate), command to return to those label lines. Enter 'l .b' on the command line. The display is repositioned to the .b label line. Label lines are a useful way to locate and return to specific rows of data. Label lines are temporary. They will be discarded when the edit or view session is ended.

- Introduction
- Browse or edit commands
  - Starting the editor or viewer
  - Find, change, and locate data
  - Insert, repeat, and delete rows
  - The display formats and zoom
- Database navigation
  - Save and get
  - Print rows
  - Handling errors when saving
  - REDIT to related tables
- File Manager DB2 options
  - Review option settings

The next section will cover the insert, repeat, and delete commands.

# Insert, repeat and delete rows



```
Process Options Utilities Help
FM/DB2 (D91F) Table Edit Top of 42
Command ==> Scroll PAGE
TABLE ALLANSC.EMP Format TABL
EMPNO FIRSTNME MIDINIT LASTNAME WORKDEPT PHONENO HIREDATE
#1 #2 #3 #4 #5 #6 #7
CH(6) VARCHAR(12) CH(1) VARCHAR(15) CH(3) CH(4) DATE
PU--> <-----1-> - <-----1-----> <-N <--> <----->
***** **** Top of data ****
i000002 00010 CHRISTINE< I HAAS< A00 3978 1965-01-01
0000003 00020 MICHAEL< L THOMPSON< 78-10-10
r000004 00030 SALLY< A KWAN< 04-05
0000005 00050 JOHN< B GEYER< 08-17
0000006 00060 IRVING< F STERN< 09-14
0000007 00070 EVA< D PULASKI< 09-30
dd00008 00090 EILEEN< W HENDERSON< 08-15
dd00009 00100 THEODORE< Q SPENSER< 06-19
00110 VINCENZO< G LUCCHESI< 05-16
00120 SEAN< O'CONNELL< A00 2167 1963-12-05
00130 DOLORES< M QUINTANA< C01 4578 1971-07-28
000012 000140 HEATHER< A NICHOLLS< C01 1793 197
000013 000150 BRUCE< ADAMSON< D11 4510 197
000014 000160 ELIZABETH< R PIANKA< D11 3782 197
```

Annotations:

- Red circles around 'i000002', 'r000004', and 'dd00007'.
- Yellow box around 'Enter'.
- Callout box: "Insert a row after row 2"
- Callout box: "Repeat row 4"
- Callout box: "Delete rows 7 and 8"

48 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

This example shows an 'i' insert command being entered on row 2. An 'r' repeat command being entered on row 4, and dd being entered on rows 7 and 8. Enter is pressed.



Row 3 was inserted, row 5 was repeated and 2 rows were deleted



Process	Options	Utilities	Help
FM/DB2 (D91F)		Table Edit	Top of 42
Command ==>			
TABLE ALLANSC.EMP			
EMPNO	FIRSTNME	MIDINIT	LA
#1	#2	#3	#4
CH(6)	VARCHAR(12)	CH(1)	VA
PU-->	<---+-----1->	-	<-
***** **** Top of data ****			
000001	000010	CHRISTINE<	I HAA
000002	000020	MICHAEL<	L THOMPSON<
000003	<	<	<
000004	000030	SALLY<	A KWANK<
000005	000050	JOHN<	B GEYER<
000006	000050	JOHN<	B GEYER<
000007	000060	IRVING<	F STERN<
000008	000070	EVA<	D PULASKI<
000009	000110	VINCENZO<	G LUCCHESI<
000010	000120	SEAN<	O'CONNELL<
000011	000130	DOLORES<	M QUINTANA<
000012	000140	HEATHER<	A NICHOLLS<
000013	000150	BRUCE<	A DAMSON<
000014	000160	ELIZABETH<	R PIANKA<

The Insert ( I ) line command:  
 inserts a "blank" row  
 DEFAULT values are:  
 - "value" if it has one  
 - \_char: blanks, numeric: zero

49
IBM File Manager DB2 for z/OS V10 Mentor Workshop
W00 © 2010 IBM Corporation

Row 3 was inserted. End of field indicators are displayed for each field. The entire row is highlighted, as an insert is identified as a changed row. Row 5 was repeated, creating row 6. Again, row 6 is highlighted as a change. Two rows of data have been deleted.

- Introduction
- Browse or edit commands
  - Starting the editor or viewer
  - Find, change, and locate data
  - Insert, repeat, and delete rows
  - The display formats and zoom
- Database navigation
  - Save and get
  - Print rows
  - Handling errors when saving
  - REDIT to related tables
- File Manager DB2 options
  - Review option settings



This section will explain the display formats and the zoom command.

# Change format from table to single



Process Options Utilities

FM/DB2 (D91F)

Command ==>

42 rows fetched

There are two display formats. TABL and SNGL

Overtyping the first char of the Format field to change the format

Top of 42  
Scroll PAGE  
Format TABL

EMPNO	FIRSTNME	MIDINIT	DEPTNO	HIREDATE
#1	#2	#3	#4	#7
CH(6)	VARCHAR(12)	CH(1)	CH(4)	DATE
000001	CHRISTINE<	I	A00	1965-01-01
000002	MICHAEL<	L	B01	1973-10-10
000003	SALLY<	A	C01	1975-04-05
000004	JOHN<	B	E01	1949-08-17
000005	IRVING<	F	D11	1973-09-14
000006	EVA<	D	D21	1980-09-30
000007	EILEEN<	W	E11	1970-08-15
000008	THEODORE<	Q	E21	1980-06-19
000009	VINCENZO<	G	A00	1958-05-16
000010	SEAN<		A00	1963-12-05
000011	DOLORES<	M	C01	1971-07-28
000012	HEATHER<	A	C01	197
000013	BRUCE<		D11	197
000014	ELIZABETH<	R	D11	197

\*\*\*\*\* \*\*\*\* Top of data \*\*\*\*

Enter

51 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

Format display is currently table. This is indicated by the FORMAT field under the scroll value on the right corner of the screen. Change the format from table to single by changing the T to an s. Press enter.

## Display is single format Issue PFSHOW ON command to display FKEYs



Process Options Utilities Help

FM/DB2 (D91F) Table 1 of 42

Command ==> **pfshow on** Scroll PAGE  
Format **SNGL**

TABLE ALLANSC.EMP Top Line is 1 of 14 in Row 1

Key	Column	Data
PU	EMPNO	000010
	FIRSTNME	CHRISTINE<
	MIDINIT	I
	LASTNAME	HAAS<
N	WORKDEPT	A00
	PHONENO	3978
	HIREDATE	1965-01-01
	JOB	PRES
	EDLEVEL	18
	SEX	F
	BIRTHDATE	1933-08-14
	SALARY	52750.00
	BONUS	1000.00
	COMM	4220.00
*** End of record ***		

Single format displays one row at a time

Enter

52 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

The display has changed to single format. Single format shows rows one at a time. The Function keys are currently turned off. Enter PFSHOW ON on the command line to turn on the function key display. Press Enter.

## FKeys are displayed Add reference number and type to single display

Process
Options
Utilities
Help

```

FM/DB2 (D91F)
Command ==> ref;type
TABLE ALLANSC.EMP

Key   Column   Data
PU    EMPNO    000010
      FIRSTNME CHRISTINE<
      MIDINIT  I
      LASTNAME HAAS<
N     WORKDEPT A00
      PHONENO  3978
      HIREDATE 1965-01-01
      JOB      PRES
      EDLEVEL  18
      SEX      F
      BIRTHDATE 1933-08-14
      SALARY   52750.00
      BONUS    1000.00
      COMM     4220.00

*** End of record ***
F1=Help   F2=Zoom   F3=Exit   F4=CRetriev F5=REind   F6=RC
F7=Up     F8=Down   F9=Swap   F10=Previous F11=Next   F12=Ca
          
```

SNGL format can display the ref number, key and type. Commands to toggle them on and off:

**REfs**  
**INdextnf**  
**TYpe**

F10 and F11 navigate to the next or previous row

Enter

53
IBM File Manager DB2 for z/OS V10 Mentor Workshop
W00 © 2010 IBM Corporation

There are additional fields that can be displayed in Single format. The Key column is already shown. The Ref column, which shows the column reference number, and the Type column which shows the data type will be turned on. Commands can be used to toggle these columns on or off. The commands are: "Refs", "Type", and "IndexINF". REF;TYPE has been entered on the command line. Pressing enter will turn on the reference number and type fields. Press Enter.

## Reference and type field are displayed Change back to table format



Process Options Utilities

FM/DB2 (D91F)  
Command ==>

TABLE ALLANSC.EMP

Overtyping the first char of the Format field to change the format

Type/length display on  
Scroll PAGE  
Format tNOL

Top Line is 1 of 14 in Row 1

Ref	Key	Column	Type (len)	Data
#1	PU	EMPNO	CH (8)	000010
#2		FIRSTNME	VC (12)	CHRISTINE<
#3		MIDINIT	CH (1)	I
#4		LASTNAME	VC (15)	HAAS<
#5	N	WORKDEPT	CH (3)	A00
#6		PHONENO	CH (4)	3978
#7		HIREDATE	DATE	1965-01-01
#8		JOB	CH (8)	PRES
#9		EDLEVEL	SMINT	18
#10		SEX	CH (1)	F
#11		BIRTHDATE	DATE	1933-08-14
#12		SALARY	DEC (9, 2)	52750.00
#13		BONUS	DEC (9, 2)	1000.00
#14		COMM	DEC (9, 2)	4220.00

\*\*\* End of record \*\*\*

F1=Help    F2=Zoom    F3=Exit    F4=CRetriev    F5=RFind    F6=RC    F7=Up    F8=Down    F9=Swap    F10=Previous    F11=Next    F12=Ca

Enter

**54**
IBM File Manager DB2 for z/OS V10 Mentor Workshop
W00 © 2010 IBM Corporation

The reference number and type fields are now displayed. Switch back to table format by typing a "T" in the Format field, over the s in snl, and pressing Enter.

## Select single format with command line entry



```
Process  Options  Utilities
FM/DB2 (D91F)
Command ==> fs
TABLE ALLANSC.EMP
EMPNO  FIRSTNME  MIDINIT  LASTNAME  WORKDEPT  PHONENO  HIREDATE
#1     #2         #3       #4        #5        #6       #7
CH(6)  VARCHAR(12) CH(1)    VARCHAR(15) CH(3)     CH(4)    DATE
PU--> <-----1-> - <-----1-----> <-N <--> <----->
***** **** Top of data ****
000001 000010 CHRISTINE< I HAAS< A00 3978 1965-01-01
000002 000020 MICHAEL< L THOMPSON< B01 1111 1973-10-10
000003 000030 SALLY< A KWANK< C01 4738 1975-04-05
000004 000050 JOHN< B GEYER< E01 6789 1949-08-17
000005 000060 IRVING< F STERN< D11 6423 1973-09-14
000006 000070 EVA< D PULASKI< D21 7831 1980-09-30
000007 000090 EILEEN< W HENDERSON< E11 5498 1970-08-15
000008 000100 THEODORE< Q SPENSER< E21 0972 1980-06-19
000009 000110 VINCENZO< G LUCCHESI< A00 3490 1958-05-16
000010 000120 SEAN< O'CONNELL< A00 2167 1963-12-05
000011 000130 DOLORES< M QUINTANA< C01 4578 1971-07-28
000012 000140 HEATHER< A NICHOLLS< C01 1793 197
000013 000150 BRUCE< ADAMSON< D11 4510 197
000014 000160 ELIZABETH< R PIANKA< D11 3782 197
```

Use FS (format single) command to switch to SNGL format

Top of 42  
Scroll PAGE  
Format TABL

Enter

55 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

The display has switched to table format. Another way to switch between the two formats is to use the "F" primary command. "FS" is the Format Single command, it switches to Single format. Enter "FS" on the command line and press Enter.

## Switch to table format with command line entry



The screenshot shows the IBM File Manager interface. At the top, there are tabs for 'Process', 'Options', and 'Utilities'. The main window displays the command line 'Command ==> ft' with 'ft' circled in red. A callout box points to this command, stating 'Use FT (format table) command to switch to TABL format'. Below the command line, the table format output for 'TABLE ALLANSC.EMP' is shown. The table has columns for 'Ref', 'Key', 'Column', 'Type(len)', and 'Data'. The data is as follows:

Ref	Key	Column	Type(len)	Data
#1	PU	EMPNO	CH(6)	000010
#2		FIRSTNME	VC(12)	CHRISTINE<
#3		MIDINIT	CH(1)	I
#4		LASTNAME	VC(15)	HAAS<
#5	N	WORKDEPT	CH(3)	A00
#6		PHONENO	CH(4)	3978
#7		HIREDATE	DATE	1965-01-01
#8		JOB	CH(8)	PRES
#9		EDLEVEL	SMINT	18
#10		SEX	CH(1)	F
#11		BIRTHDATE	DATE	1933-08-14
#12		SALARY	DEC(9,2)	52750.00
#13		BONUS	DEC(9,2)	1000.00
#14		COMM	DEC(9,2)	4220.00

Below the table, there is a footer with function keys: F1=Help, F2=Zoom, F3=Exit, F4=CRetriev, F5=RFind, F6=RC, F7=Up, F8=Down, F9=Swap, F10=Previous, F11=Next, F12=Ca. A yellow box labeled 'Enter' is positioned over the F12 key. The bottom status bar shows '56', 'IBM File Manager DB2 for z/OS V10 Mentor Workshop', 'W00', and '© 2010 IBM Corporation'.

The display format has changed to single. "FT" is the format table command, it switches to table format. Type "FT" on the command line and press Enter.



## Format command switched from single to table Select a specific record with format single



Process
Options
Utilities

```

FM/DB2 (D91F)
Command ==>
TABLE ALLANSC.EMP
EMPNO  FIRSTNME  MIDINIT  LASTNAME  WORKDEPT  PHONENO  HIREDATE
#1     #2          #3       #4        #5         #6       #7
CH(6)  VARCHAR(12) CH(1)    VARCHAR(15) CH(3)     CH(4)    DATE
PU--> <-----1-> - <-----1-----> <-N <--> <----->
000001 000010 CHRISTINE< I    HAAS<    A00      3978     1965-01-01
000002 000020 MICHAEL<  L    THOMPSON< B01      1111     1973-10-10
000003 000030 SALLY<    A    KWAN<    C01      4738     1975-04-05
000004 000050 JOHN<     B    GEYER<   E01      6789     1949-08-17
000005 000060 IRVING<   F    STERN<   D11      6423     1973-09-14
000006 000070 EYAN<     D    PULASKI< D21      7831     1980-09-30
fs 007 000090 EILEEN<   W    HENDERSON< E11      5498     1970-08-15
000008 000100 THEODORE< Q    SPENSER< E21      0972     1980-06-19
000009 000110 VINCENZO< G    LUCCHESI< A00      3490     1958-05-16
000010 000120 SEAN<     <    O'CONNELL< A00      2167     1963-12-05
000011 000130 DOLORES<  M    QUINTANA< C01      4578     1971-07-28
000012 000140 HEATHER<  A    NICHOLLS< C01      1793     1976-12-15
000013 000150 BRUCE<    <    ADAMSON<  D11      4510     197
F1=Help  F2=Zoom  F3=Exit  F4=CRetriev F5=RFind  F6=RC
F7=Up    F8=Down  F9=Swap  F10=Left   F11=Right F12=Ca

```

1 of 42

Scroll PAGE

Format TABL

**FS (Format Single) can also be used as a line command to select a specific row**

**Enter**

**57**
IBM File Manager DB2 for z/OS V10 Mentor Workshop
W00 © 2010 IBM Corporation

The display has changed to table format. The format command can also be issued in the command prefix area to the left of the display. When using the “FS” in the prefix area, a particular row will be selected for single display. Here the FS prefix command is being used to select row 7, EILEEN HENDERSON, in single display. Press Enter to process.

The selected row is displayed  
Turn hex display on



Process Options Utilities

7 of 42

Command ==> hex on Scroll PAGE

TABLE ALLANSC.EMP Format SNGL

Top Line is 1 of 14 in Row 7

Ref	Key	Column	Type(len)	Data
#1	PU	EMPNO	CH(6)	000090
#2		FIRSTNME	VC(12)	EILEENK
#3		MIDINIT	CH(1)	W
#4		LASTNAME	VC(15)	HENDERSONK
#5	N	WORKDEPT	CH(3)	E11
#6		PHONENO	CH(4)	5498
#7		HIREDATE	DATE	1970-08-15
#8		JOB	CH(8)	MANAGER
#9		EDLEVEL	SMINT	16
#10		SEX	CH(1)	F
#11		BIRTHDATE	DATE	1941-05-15
#12		SALARY	DEC(9,2)	29750.00
#13		BONUS	DEC(9,2)	600.00
#14		COMM	DEC(9,2)	2380.00

\*\*\* End of record \*\*\*

F1=Help F2=Zoom F3=Exit F4=CRetriev F5=RFind F6=RC F7=Up F8=Down F9=Swap F10=Previous F11=Next F12=Ca

Enter

58
IBM File Manager DB2 for z/OS V10 Mentor Workshop
W00 © 2010 IBM Corporation

The display has changed to single format, on row 7, the Eileen Henderson row. The ISPF command HEX ON can be used in either table or single format. HEX ON shows the hexadecimal representation of the data. Type HEX ON on the command line and press ENTER.

## Turn hex display off



```
Process  Options  Utilities  Help
FM/DB2 (D91F)          Table Edit          7 of 42
Command ==> hex off_          Scroll PAGE
TABLE ALLANSC.EMP          Format SNGL
Top Line is 1 of 56 in Row 7

Ref Key  Column  Type(len)  Data
#1  PU    EMPNO    CH(6)      000090
                                FFFFFFFF
                                000090

#2          FIRSTNME VC(12)    EILEEN<
                                CCDCCD
                                593555

#3          MIDINIT  CH(1)      W
                                E
                                6

#4          LASTNAME  VC(15)    HENDERSON<
                                CCDCCDEDD
                                855459265

F1=Help    F2=Zoom    F3=Exit    F4=CRetriev  F5=RFind    F6=RC
F7=Up      F8=Down    F9=Swap    F10=Previous F11=Next    F12=Ca

Enter
```

59 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

Hexadecimal values are being displayed. HEX OFF can be used to turn off the hexadecimal representation of the data. Type HEX OFF on the command line and press ENTER.

# Return to table format



```
Process Options Utilities Help
FM/DB2 (D91F) Table Edit 7 of 42
Command ==> ft Scroll PAGE
TABLE ALLANSC.EMP Format SNGL
Top Line is 1 of 14 in Row 7

Key Column Data
PU EMPNO 000090
FIRSTNME EILEEN<
MIDINIT W
LASTNAME HENDERSON<
N WORKDEPT E11
PHONENO 5498
HIREDATE 1970-08-15
JOB MANAGER
EDLEVEL 16
SEX F
BIRTHDATE 1941-05-15
SALARY 29750.00
BONUS 600.00
COMM 2380.00
*** End of record ***
```

**Enter**

**60** IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

Hexadecimal representation has been turned off. Enter FT on the command line to return to table format. Press Enter.

## ZOOM in on a row



```
Process  Options  Utilities
FM/DB2 (D91F)
Command ==> zoom
TABLE ALLANSC EMP
EMPNO  FIRSTNME  MI  HAAS<  A00  3978  1965-01-01
#1     #2           #3  THOMPSON<  B01  1111  1973-10-10
CH(6)  VARCHAR(12) CH  KWANK<    C01  4738  1975-04-05
PU--> <-----1-> -  GEYER<    E01  6789  1949-08-17
***** **** Top of data ****
000005 000060 IRVING<    F  STERN<    D11  6423  1973-09-14
000006 000070 EVA<    D  PULASKI<  D21  7831  1980-09-30
000007 000090 EILEEN<    W  HENDERSON< E11  5498  1970-08-15
000008 000100 THEODORE< Q  SPENSER<  E21  0972  1980-06-19
000009 000110 VINCENZO< G  LUCCHESI< A00  3490  1958-05-16
000010 000120 SEAN<     O'CONNELL< A00  2167  1963-12-05
000011 000130 DOLORES<  M  QUINTANA< C01  4578  1971-07-28
000012 000140 HEATHER<  A  NICHOLLS< C01  1793  197
F1=Help  F2=Zoom  F3=Exit  F4=CRetriev  F5=RFind  F6=RC
F7=Up    F8=Down  F9=Swap  F10=Left   F11=Right F12=Ca
```

You can ZOOM from either format.  
In table format, you zoom to:  
- the row you select with your cursor, or  
- the row at the top of the display

Enter

61 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

Another useful command is ZOOM. The Zoom command can be issued from either Table or Single format. If in Table format, ZOOM will switch to single format on the row at the top of the display, or the row that has been cursor selected. If in single format, the display will stay on the current row, but the ZOOM indicator will be turned on. Type ZOOM on the command line, leave the cursor on the command line, and press Enter.

## Zoom switches to single format F3 will exit zoom mode



Process Options Utilities Help

---

FM/DB2 (D91F) Table Edit 1 of 42

Command ==> Scroll PAGE

TABLE ALLANSC.EMP Zoom Format SNGL

Top Line is 1 of 14 in Row 1

Ref	Key	Column	Type(len)	Data
#1	PU	EMPNO	CH(6)	000010
#2		FIRSTNME	VC(12)	CHRISTINE<
#3		MIDINIT	CH(1)	I
#4		LASTNAME	VC(15)	HAAS<
#5	N	WORKDEPT	CH(3)	A00
#6				3978
#7				1965-01-01
#8				PRES
#9				18
#1				F
#1				1933-08-14
#1				52750.00
#1				1000.00
#1				4220.00

\*\*\* End of Record \*\*\*

F1=Help F2=Zoom F3=Exit F4=CRetriev F5=RFind F6=RC F7=Up F8=Down F9=Swap F12=Cancel

F3

To exit zoom mode:

- F3** (exit), or
- F2** (zoom)
- F12** (cancel)
- ZOOM** command, or
- Z** command, or

In zoom format  
F10 (previous), and  
F11 (next), functions  
are not allowed

The row at the top of display is shown in single format. Next to the format indicator, the word Zoom appears, to indicate zoom mode is active.

To exit zoom mode use either F3, F2 (zoom), F12 (cancel), ZOOM or Z primary commands. F3 is pressed.

## Edit – zoom

- **Why use ZOOM?**
  - Won't accidentally reposition to another row or alter data in other rows
  - Use it for safety!
  - When you ZOOM, you are "stuck" on one record... no F10 or F11
  - The scope of FIND and CHANGE (even Chg ALL) commands are the one row
- You can ZOOM in either format
- In table format, you zoom to:
  - The row you select with your cursor, or
  - The row at the top of the display
- In single format, zoom will stay on the record, but the zoom indicator will be on (F10 and F11 will not be available)
- **Use F3, F2, or Z or ZOOM on the command line to zoom out**

Why use zoom?

When in zoom mode navigation is limited to the current row. The scope of find and change commands are limited to only the one row. Changes cannot be made to other rows. Use zoom for safety, it ensures that changes will not accidentally be made to any other rows.

## Exited zoom mode, returned to table format



Process	Options	Utilities	Help			
FM/DB2 (D91F)		Table Edit	1 of 42			
Command ==>			Scroll PAGE			
TABLE ALLANSC.EMP			Format <b>TABL</b>			
EMPNO	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE
#1	#2	#3	#4	#5	#6	#7
CH(6)	VARCHAR(12)	CH(1)	VARCHAR(15)	CH(3)	CH(4)	DATE
PU-->	<-----1->	-	<-----1----->	<-N	<->	<----->
000001	000010	CHRISTINE<	I	HAAS<	A00	3978 1965-01-01
000002	000020	MICHAEL<	L	THOMPSON<	B01	1111 1973-10-10
000003	000030	SALLY<	A	KWAN<	C01	4738 1975-04-05
000004	000050	JOHN<	B	GEYER<	E01	6789 1949-08-17
000005	000060	IRVING<	F	STERN<	D11	6423 1973-09-14
000006	000070	EVA<	D	PULASKI<	D21	7831 1980-09-30
000007	000090	EILEEN<	W	HENDERSON<	E11	5498 1970-08-15
000008	000100	THEODORE<	Q	SPENSER<	E21	0972 1980-06-19
000009	000110	VINCENZO<	G	LUCCHESI<	A00	3490 1958-05-16
000010	000120	SEAN<		O'CONNELL<	A00	2167 1963-12-05
000011	000130	DOLORES<	M	QUINTANA<	C01	4578 1971-07-28
000012	000140	HEATHER<	A	NICHOLLS<	C01	1793 1976-12-15
000013	000150	BRUCE<		ADAMSON<	D11	4510 1972-02-12
F1=Help	F2=Zoom	F3=Exit	F4=CRetriev	F5=RFind	F6=RChange	
F7=Up	F8=Down	F9=Swap	F10=Left	F11=Right	F12=Cancel	

F3 was used to exit ZOOM mode. This returns back to the previous mode. The display was in table mode when zoom was issued, so the display returns to table mode, and the zoom indicator is no longer next to the format field.



### Sort using reference number Last name field in descending order

**Command ==>** `sort #4 d` **Enter**

```

FM/DB2 (D91F)                               Table Edit                               Top of 42
Command ==>                                     Scroll PAGE
TABLE ALLANSC.EMP                             Format TABL
EMPNO  FIRSTNME  MIDINIT  LASTNAME  WORKDEPT  PHONENO  HIREDATE
#1     #2        #3        #4        #5        #6        #7
CH(6)  VARCHAR(12) CH(1)    VARCHAR(15) CH(3)    CH(4)    DATE
PU-->  <-----1-> -      <-----1-----> <-N    <-->    <----->
***** **** Top of data ****
000001 000170 MASATOSHI< J      YOSHIMURAK  D11      2890     1978-09-15
000002 200170 KIYOSHI<      YAMAMOTO<   D11      2890     1978-09-15
000003 200330 HELENA<      WONG<       E21      2103     1976-02-23
000004 000190 JAMES<       H      WALKER<     D11      2986     1974-07-26
000005 000020 MICHAEL<    L      THOMPSON<   B01      1111     1973-10-10
000006 000020 MICHAEL<    L      THOMPSON<   D11      6423     1973-09-14
000007 000020 MICHAEL<    L      THOMPSON<   E11      3332     1964-09-12
000008 000020 MICHAEL<    L      THOMPSON<   E21      0972     1980-06-19
000009 000020 MICHAEL<    L      THOMPSON<   E11      2095     1972-06-19
000010 000020 MICHAEL<    L      THOMPSON<   D21      0961     1969-10-30
000011 000020 MICHAEL<    L      THOMPSON<   E11      3332     1964-09-12
000012 000020 MICHAEL<    L      THOMPSON<   D11      1682     1973-07-07
  
```

The SORT command changes the order of rows displayed

- SORT #1** sort col 1 ascending
- SORT #5 D** sort column 5 descending
- SORT #5 #9** sort cols 5 (1st) and 9 (2nd)

F1=help F2=Zoom F3=Exit F4=Cursor lev F5=RFind F6=RChange  
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel

**65** IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

The Sort Order of the rows displayed can be changed with the Sort command. Here the command 'sort #4 D' was entered. Then enter was pressed. The rows are sorted based on the values in column number 4, the lastname field. The D in the command forced the sort to be done in descending order. The table is now displayed sorted by lastname, descending order.

Here are some other examples. Sort #1 will sort in ascending order, which is the default, based on the data in column one. "Sort #5 D" sorts on column number 5 in descending order. And "Sort #5 #9" will sort column 5 in ascending order. And ties are sorted by column 9.

Use the sort command to see data sorted, which can sometimes help group data together. Because sort can be used in the editor or viewer, there is no need to code an "order by" in the SQL statements.

## Prefix command expands prefix area



Command ==> **prefix 9** **Enter**

FM/DB2 (D91F) Table Edit Top of 42  
Command ==> Scroll PAGE  
TABLE ALLANSC.EMP Format TABL

EMPNO	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDAT
#1	#2	#3	#4	#5	#6	#7 +
CH(6)	VARCHAR(12)	CH(1)	VARCHAR(15)	CH(3)	CH(4)	DATE
00000001	000170	MASATOSHI<	J			1978-09
00000002	200170	KIYOSHI<	Y			1978-09
00000003	200330	HELENA<	W			1976-02
00000004	000190	JAMES<	H			1974-07
00000005	000020	MICHAEL<	L			1973-10
00000006	000060	IRVING<	F	STERN<	D11 6423	1973-09
00000007	200310	MICHELLE<	F	SPRINGER<	E11 3332	1964-09
00000008	000100	THEODORE<	Q	SPENSER<	E21 0972	1980-06
00000009	000300	PHILIP<	X	SMITH<	E11 2095	1972-06
00000010	000250	DANIEL<	S	SMITH<	D21 0961	1969-10
00000011	000310	MAUDE<	F	SETRIGHT<	E11 3332	1964-09
00000012	000180	MARILYN<	S	SCOUTTEN<	D11 1682	1973-07
00000013	200280	EILEEN<	R	SCHWARTZ<	E11 8997	1967-03
00000014	000280	ETHEL<	R	SCHNEIDER<	E11 8997	1967-03

\*\*\*\*\* Top of data \*\*\*\*\*

The prefix area can be expanded up to 9 digits  
Prefix has expanded from 6 to 9

66 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

When working with very large databases, the six digit prefix area may not be big enough. The PREFIX command can be used to expand the prefix area. The prefix area default is six digits. PREFIX 9 was entered on the command line and Enter was pressed. The prefix area in the display is now nine digits.

# Cancel all changes



```
Process  Options  Utilities  Help
-----  -
FM/DB2 (D91F)                               Table Edit                               Top of 42
Command ==> can                               Scroll PAGE
TABLE ALLANSC EMP                             Format TABL
EMPNO  FIRSTNME  MIDINIT  LASTNAME  WORKDEPT  PHONENO  HIREDAT
#1     #2           #3       #4         #5         #6       #7   +
CH(6)  VARCHAR(12)  CH(1)    VARCHAR(15)  CH(3)     CH(4)    DATE
PU-->> <-----1-> - <-----1-----> <-N <--> <-----

***** **** Top of data ****
00000001 000170 MASATOSHI< J YOSHIMURA< D11 2890 1978-09
00000002 200170 KIYOSHI< YAMAMOTO< D11 2890 1978-09
00000003 200330 HELENA< WONG< E21 2103 1976-02
00000004 000190 JAMES< H WALKER< D11 2986 1974-07
00000005 000020 MICHAEL< L THOMPSON< B01 1111 1973-10
00000006 000060 IRVING< F STERN< D11 6423 1973-09
00000007 200310 MICHELLE< F SPRINGER< E11 3332 1964-09
00000008 000100 THEODORE< Q SPENSER< E21 0972 1980-06
00000009 000300 PHILIP< X SMITH< E11 2095 1972-06
00000010 000250 DANIEL< S SMITH< D21 0961 1969-10
00000011 000310 MAUDE< F SETRIGHT< E11 3332 1964-09
00000012 000180 MARILYN< S SCOUTTEN< D11 1682
00000013 200280 EILEEN< R SCHWARTZ< E11 8997
00000014 000280 ETHEL< R SCHNEIDER< E11 8997
```

67 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

CAN is typed on the command line, and Enter is pressed. This will cancel saving the changes made during this edit session.

# Rollback issued



```
Process  Options  Utilities  Help
-----
FM/DB2 (D91F)                DB2 Edit                Rollback issued
Command ==> _____

DB2 Object:
Location . . . . . _____ Database . . . . . (optional)
Owner . . . . . ALLANSC + Table Space . . . . . (optional)
Name . . . . . EMP _____ +
Start position . . . . . 1 _____
Row count . . . . . ALL _____ Number of rows to edit

Template:
Data set name . . . . . _____
Member . . . . . _____

Processing Options:
Template usage          Enter "/", "A" always to select option
3 1. Above             - Edit options
  2. Previous          - Edit template
  3. Generate from table - Re-edit template
  4. Generate/Replace
```

Changes were cancelled, 'Rollback issued' is displayed in the right corner of the screen. That is the end of this section, File Manager DB2 Edit and View.

## Feedback



Your feedback is valuable

You can help improve the quality of IBM Education Assistant content to better meet your needs by providing feedback.

- Did you find this module useful?
- Did it help you solve a problem or answer a question?
- Do you have suggestions for improvements?

Click to send email feedback:

[mailto:iea@us.ibm.com?subject=Feedback\\_about\\_FMDv10s02VieworEditCommands.ppt](mailto:iea@us.ibm.com?subject=Feedback_about_FMDv10s02VieworEditCommands.ppt)

This module is also available in PDF format at: [../FMDv10s02VieworEditCommands.pdf](..../FMDv10s02VieworEditCommands.pdf)

You can help improve the quality of IBM Education Assistant content by providing feedback.



## Trademarks, copyrights, and disclaimers

IBM, the IBM logo, ibm.com, DB2, z/OS, and zSeries are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of other IBM trademarks is available on the web at "[Copyright and trademark information](http://www.ibm.com/legal/copytrade.shtml)" at <http://www.ibm.com/legal/copytrade.shtml>

THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. WHILE EFFORTS WERE MADE TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION CONTAINED IN THIS PRESENTATION, IT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. IN ADDITION, THIS INFORMATION IS BASED ON IBM'S CURRENT PRODUCT PLANS AND STRATEGY, WHICH ARE SUBJECT TO CHANGE BY IBM WITHOUT NOTICE. IBM SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING OUT OF THE USE OF, OR OTHERWISE RELATED TO, THIS PRESENTATION OR ANY OTHER DOCUMENTATION. NOTHING CONTAINED IN THIS PRESENTATION IS INTENDED TO, NOR SHALL HAVE THE EFFECT OF, CREATING ANY WARRANTIES OR REPRESENTATIONS FROM IBM (OR ITS SUPPLIERS OR LICENSORS), OR ALTERING THE TERMS AND CONDITIONS OF ANY AGREEMENT OR LICENSE GOVERNING THE USE OF IBM PRODUCTS OR SOFTWARE.

© Copyright International Business Machines Corporation 2010. All rights reserved.