

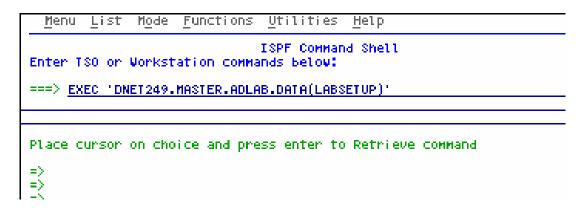
Lab Exercise 1

Lab Setup: Create your lab files

In this exercise you will:

- Run the LABSETUP program to create your own copies of sample files that will be used during the File Manager exercises
- Check that your files have been created
- 1. Log on to TSO (if you are not already logged on).
- 2. Navigate to the ISPF command shell. On most systems, this is **Option 6** from the main ISPF menu.
- 3. Run the LabSetup program:
 - On the command line, enter the lab setup command that your instructor or training coordinator has given to you. The command will have the format:

EX 'xxxx.ADLAB.INSTALL(LABSETUP)'

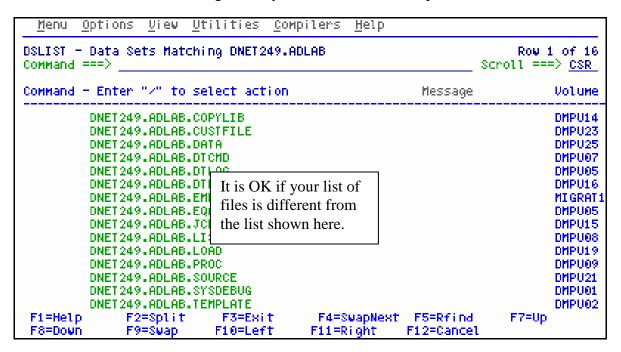


- 4. You will see the message "SETUP FOR HANDS-ON TRAINING" message.
 - If you do not see this message, check the spelling of the command and try again.
 - Press the **ENTER** key repeatedly until the LabSetup program completes.
 - Note: Many screens full of messages will be displayed. Continue to press Enter. There may be times when three asterisks appear in the bottom left corner of the screen or the process just stops. Keep pressing Enter. You will end up at the Command Shell panel once again.



- 5. Note: In the next steps, you will verify that your files have been created.
- 6. Navigate to the system 3.4 panel (Data Set List).
 - Type =3.4 on the command line, then **ENTER**:
- 7. Enter a Dsname level of: your-tso-id.ADLAB, as shown here, then press **ENTER**.

8. You should see a list of data sets that begin with your ID, with a middle qualifier of ADLAB.



- If you have ADLAB data sets, then you are ready for the File Manager exercises.
- If you do not have the ADLAB datasets, then return to step 1. Ask for help if you aren't sure why you don't have the sample files.

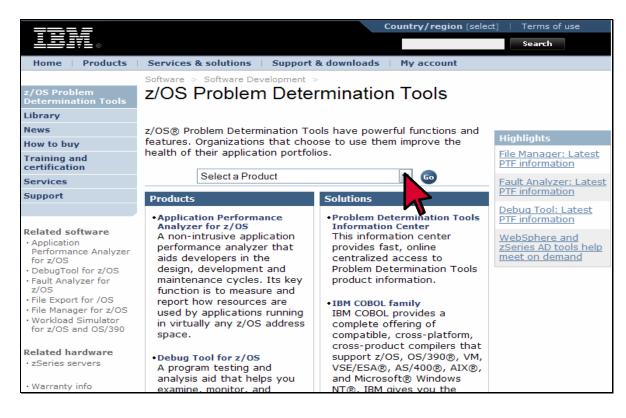


Lab Exercise 2

Access the File Manager On-Line Library

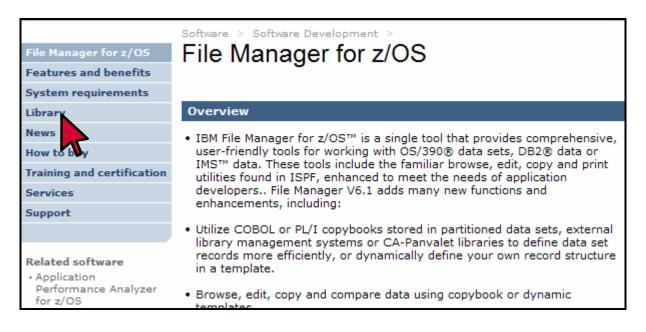
In this exercise you will:

- Use a web browser to locate the File Manager manuals on the IBM web site.
- Open the "File Manager User's Guide and Reference" manual for your reference.
- Learn how to download any of the File Manager manuals to your workstation.
- 1. Start an Internet Browser window.
- 2. Open URL: http://www.ibm.com/software/awdtools/deployment
- 3. Click on the Select a Product pull-down.
- 4. Click on File Manager

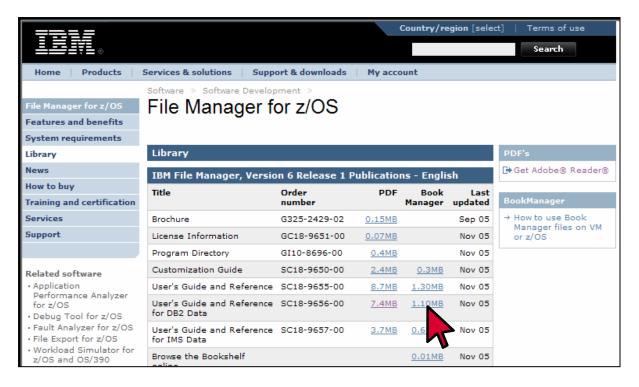




5. Click on Library

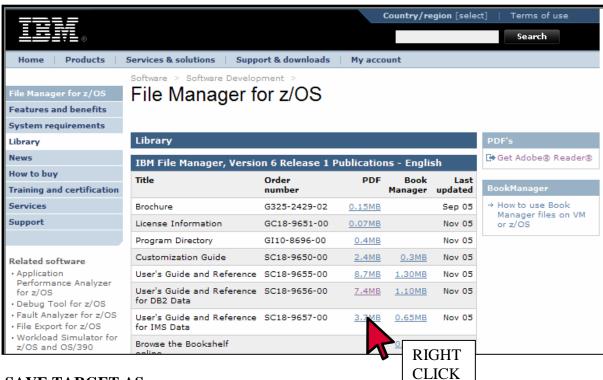


6. You can browse manuals online. For the "User's Guide and Reference for DB2 Data" manual, click on the link under the Book Manager column.





- 7. The contents page for the Reference and Messages manual appears. You can use the navigation links to get to specific sections.
- 8. Click on the browser's **BACK** button until you are back to the File Manager Library page.
- 9. You can download File Manager manuals to your workstation from this web site. RIGHT CLICK on the link for the "User's Guide and Reference for DB2 Data" under the PDF column.



10. Click on **SAVE TARGET AS**.

- 11. A dialog is displayed where you can select any valid directory on your workstation to download the manual in PDF format. If you would like a softcopy of the manual, you can download and save it now. Otherwise, press Escape.
- 12. Close your Internet Browser window.



Lab Exercise 3 Using File Manager DB2 Browse

In this exercise you will:

- Use the File Manager Browse utility.
- Learn basic commands.
- Explore the formats available for displaying data.
- 1. Log on to TSO (if you are not already logged on).
- 2. Navigate to the File Manager / DB2 menu.

Part 1: Starting Browse

- 3. Select the Browse option.
 - Type **1** on the command line, then **ENTER**.

```
FM/DB2 (DSNA)
                           Primary Option Menu
Command ===> 1
0 Settings
                Set processing options
                                                   User ID . : DNET074
1 Browse
                Browse DB2 table or view
                                                   System ID : DEMOMVS
2 Edit
                Edit DB2 table
                                                   Appl ID . : FMN2
3 Utilities Perform utility functions
                                                   Version . : 7.1.0
4 SQL
                Prototype, execute and analyze SQL
                                                   Terminal: 3278A
5 DB2I
                Start DB2 Interactive
                                                   Screen .: 1
X Exit
                Terminate FM/DB2
                                                   Date . . : 2007/03/02
                                                   Time . . : 01:56
                                                   DB2 SSID . DSNA
                                                   SOL ID . . DNET074
```

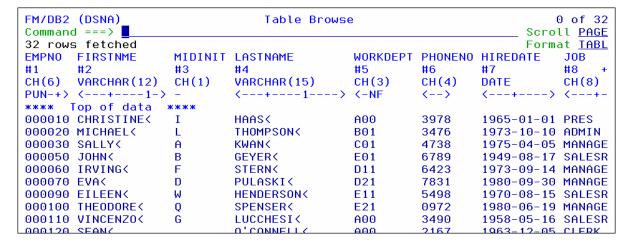
- 4. The DB2 Browse panel is displayed. Enter the name of the file to be edited.
 - Your instructor will give you an Owner ID that you will enter.
 - Type EMP in the Data set/path name field.
 - The object name can be a Table, a View, or an alias of a Table or View.
 - Type $\underline{3}$ (Generate from table) in the Template Usage field.
 - This setting tells File Manager that the template (used to format the data) will be automatically created based on information from DB2.



Press **ENTER**.

FM/DB2 (DSNA) DB2 Command ===>	2 Browse
Specify the DB2 Object: Location Owner	and the second s
Row count <u>100</u>	Number of rows to browse
Template: Data set name Member	
Processing Options: Template usage 3 1. Above 2. Previous 3. Generate from table 4. Generate/Replace	Enter "/", "A"lways to select option _ Edit options _ Edit template _ Re-edit template

5. The Browse panel is displayed.



- 6. Press **PF3** to exit. The DB2 Browse panel is displayed again.
- 7. You can use wildcards in the names to save time and typing:
 - Type \mathbf{E}^* in the Name.
 - Leave all other fields unchanged.
 - Press ENTER.



FM/DB2 (DSNA) Command ===>	DB2 Browse
Specify the DB2 Object: Location Owner	
Row count <u>100</u>	Number of rows to browse
Template: Data set name Member	
Processing Options: Template usage 3 1. Above 2. Previous 3. Generate from table 4. Generate/Replace	Enter "/", "A"lways to select option _ Edit options _ Edit template _ Re-edit template

- 8. A selection panel is displayed. Select the table:
 - Type $\underline{\mathbf{S}}$ next to table EMP, then **ENTER.**

```
Table/View/Alias Selection
                                                            Row 1 to 3 of 3
Select one of the tables/views/aliases from the list.
                                                       Table
           Table/View/Alias Name
                                              Database Space
S Owner
          EDEPT
 FMNDB2
                                              FMNDB2DA FMNDB2SR TABLE
 FMNDB2
          EEMP
                                              FMNDB2DA FMNDB2SR TABLE
S FMNDB2
                                              FMNDB2DA FMNDB2SE TABLE
               ********** Bottom of data ******
```

9. The Browse panel is displayed:

	(DSNA) d ===> ■		Table Brows	e			of 3 LL PAG
	fetched						at TAE
EMPN0	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE	J0B
#1	#2	#3	#4	#5	#6	#7	#8
CH(6)	VARCHAR (12)	CH(1)	VARCHAR (15)	CH(3)	CH(4)	DATE	CH(8)
PUN-+>	<+1->	_	<+>	<-NF	<>	<+>	<+
****	Top of data	***					
000010	CHRISTINE	I	HAASK	A00	3978	1965-01-01	PRES
000020	MICHAEL	L	THOMPSONK	B01	3476	1973-10-10	ADMIN
000030	SALLYK	A	KWAN<	C01	4738	1975-04-05	MANAG
000050	JOHN<	В	GEYER<	E01	6789	1949-08-17	SALES
000060	IRVING<	F	STERN	D11	6423	1973-09-14	MANAG
000070	EVAK	D	PULASKI	D21	7831	1980-09-30	MANAG
000090	EILEENK	W	HENDERSON	E11	5498	1970-08-15	SALES
000100	THEODORE	Q	SPENSER	E21	0972	1980-06-19	MANAG
000110	VINCENZOK	G	LUCCHESIK	A00	3490	1958-05-16	SALES
000120	SEAN		U, CUNNELLY	A00	2167	1063-12-05	CLERK



Tip: Using wildcards in object names.

- You can use wildcard characters in file names and member names:
 - * or % (asterisk or percent) is a wildcard for any number of characters
 - _ (underscore) is a wildcard for a single character

Part 2: PF Keys, Scrolling, and Changing Data

- 10. Turn on the PF key display.
 - Type **PFSHOW ON** on the command line, then **ENTER**:

```
FM/DB2 (DSNA)
Command ===> PFSHOW ON ____
32 rows fetched
EMPNO FIRSTNME MIDINIT
```

PF key settings are displayed on the panel.

Tip: Displaying and customizing your PF Keys.

- The command: PFSHOW ON displays your PF key settings on the screen.
- The command: PFSHOW OFF removes the display.
- The command: <u>KEYS</u> displays the Keylist panel where you can modify your PF key settings.
- 11. You can scroll (navigate) using the UP, DOWN, LEFT, and RIGHT commands, or with PF keys.
 - Press **PF8** a few times to scroll down.
 - Press **PF7** to scroll up.
 - Press **PF11** to scroll to the right.
 - Press **PF10** to scroll to the left.
 - You can scroll the "maximum" amount. Type $\underline{\mathbf{M}}$ (maximum) on the command line, then press $\underline{\mathbf{PF8}}$. This will scroll down to the bottom.
 - o Note: You can use the M modifier in any direction: left, right, up, or down.
 - You can scroll a specified amount. Type $\underline{10}$ on the command line, then press $\underline{PF7}$. This will scroll up 10 rows.
 - o Note: You can use a number to scroll in any direction. When scrolling to the right or left it will scroll the specified number of characters or fields.
 - Navigate to the top of the file using either of these methods:



- \circ Type $\underline{\mathbf{M}}$ on the command line, then press $\underline{\mathbf{PF7}}$, or
- o Type **TOP** on the command line, then **ENTER**.
- O You should be positioned at the top, like this:

FM/DB2 Command	(DSNA) d ===> ■		Table Brows	е		Scro	0 of 3
32 rows	s fetched					Form	at <u>TAE</u>
EMPN0	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE	J0B
#1	#2	#3	#4	#5	#6	#7	#8
CH(6)	VARCHAR (12)	CH(1)	VARCHAR (15)	CH(3)	CH(4)	DATE	CH(8)
PUN-+>	<+1->	_	<+>	<-NF	<>	<>	<+
****	Γop of data :	***					
000010	CHRISTINE	I	HAAS<	A00	3978	1965-01-01	PRES
000020	MICHAEL	L	THOMPSON	B01	3476	1973-10-10	ADMIN
000030	SALLY	A	KWAN<	C01	4738	1975-04-05	MANAG
000050	JOHN<	В	GEYER<	E01	6789	1949-08-17	SALES
000060	IRVING<	F	STERN	D11	6423	1973-09-14	MANAG
000070	EVAK	D	PULASKI	D21	7831	1980-09-30	MANAG
000090	EILEENK	W	HENDERSON	E11	5498	1970-08-15	SALES
000100	THEODORE	Q	SPENSER	E21	0972	1980-06-19	MANAG
000110	VINCENZOK	G	LUCCHESI	A00	3490	1958-05-16	SALES
000120	SEAN		U, CUNNELLY	A00	2167	1063-12-05	CLERK

- 12. There is an online HELP facility that describes fields and commands. Get information about the Find command:
 - Put the cursor on the command line and Press PF1.
 - The "File Manager Tutorial" panel is displayed. From here you can get information about using the editor.
 - Select "Primary commands": Type <u>9</u> on the command line, then ENTER.
 - Another menu is displayed. Select "FIND/RFIND/EXCLUDE commands": Type <u>2</u> on the command line, then **ENTER**.
 - Another menu is displayed. Select "FIND command": Type $\underline{\mathbf{1}}$ on the command line, then \mathbf{ENTER} .
 - The "FIND command" tutorial is displayed. Press **PF11** to scroll through the tutorial.
 - Exit from the help tutorial: Press **PF3**.

Part 3: Formats

- 13. Notice that you are currently in "table" format, which is indicated by "TABL" in the Format field in the upper right area of the panel. File Manager / DB2 can display data in two formats.
- 14. One way to change the format is to overtype the FORMAT field. Change to Sngl format:
 - Type \underline{S} (for SNGL) in the first character of the FORMAT field, then \underline{ENTER} .



```
0 of 32
__Scroll <u>PAGE</u>
Format <u>sABL</u>
```

15. SNGL format is displayed. In this format, only one row is displayed. PF7 and PF8 scroll up and down in the row. PF10 and PF11 scroll to the previous row and next row.

Comm	DB2 (D:	==>	Ta	1 of 32 Scroll <u>PAGE</u>	
THRI	LE FMNI	DB2.EMP		Top 1 top 1 to 4	Format <u>SNGL</u>
D-6	W	0 - 1	T (1)	Top Line is 1 of 14	in Row 1
	Key	Column	Type(len)	Data	
#1	PUN	EMPN0	CH(6)	000010	
#2		FIRSTNME	VC(12)	CHRISTINE	
#3		MIDINIT	CH(1)	I	
#4		LASTNAME	VC(15)	HAASK	
#5	NF	WORKDEPT	CH(3)	A00	
#6		PHONENO	CH(4)	3978	
#7		HIREDATE	DATE	1965-01-01	
#8		J0B	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=Zooi	n F3=Exit	F4=CRetriev F5=RFind	F6=RChange
F7=	=Up	F8=Dow	n F9=Swap	F10=Previous F11=Next	F12=Cancel

- 16. Another easy way to change formats is with the "F_" commands.
 - Change to TABL: Type \underline{FT} (for Format Tabl) on the command line, then \underline{ENTER} .

```
FM/DB2 (DSNA)
Command ===> FT
TABLE FMNDB2.EMP

Ref Key Column Type(len)
#1 PUN EMPNO CH(6)
#2 FIRSTNME VC(12)
```

- Change to SNGL: Type \underline{FS} (for Format Sngl) on the command line, then \underline{ENTER} .
- 17. You can display data in hexadecimal representation:
 - View hex data: Type **HEX ON** on the command line, then **ENTER**.
 - Turn off the hex display: Type **HEX OFF** on the command line, then **ENTER**.
- 18. You can also "zoom in" to a row:



- Change back to Table format: Type <u>FT</u> on the command line, then <u>ENTER</u>.
- Type **ZOOM** on the command line (or just **Z**), then place the cursor in the data area of any row, then **ENTER**.

```
FM/DB2 (DSNA)
                                     Table Browse
                                                                                   1 of 32
Command ===> zoom
                                                                               Scroll PAGE
TABLE FMNDB2.EMP
                                                                               Format <u>TABL</u>
                       MIDINIT LASTNAME
                                                   WORKDEPT PHONENO HIREDATE
EMPN0
       FIRSTNME
                                                                                     J<sub>0</sub>B
#1
                       #3
                                 #4
                                                    #5
                                                              #6
                                                                       #7
                                                                                     #8
                                 VARCHAR (15)
CH(6)
        VARCHAR (12)
                       CH(1)
                                                    CH(3)
                                                              CH(4)
                                                                       DATE
                                                                                     CH(8)
PUN-+> <---+---1->
                                                    <-NF
000010 CHRISTINE<
                                HAASK
                                                    A00
                                                              3978
                                                                        1965-01-01 PRES
000020 MICHAELK
                                 THOMPSON
                                                    B<sub>0</sub>1
                                                              3476
                                                                        1973-10-10 ADMIN
                                                   C<sub>0</sub>1
                                                              4738
000030 SALLY<
                       Α
                                 KWANK
                                                                        1975-04-05 MANAGE
000050 JOHN<
                                 GEYER<
                                                              6789
                                                                        1949-08-17 SALESR
```

You are zoomed on the row you selected. Notice that the word "Zoom" is displayed next to the FORMAT field. When you zoom from TABL or SNGL format, SNGL format is displayed in zoom mode.

```
FM/DB2 (DSNA)
                                   Table Browse
                                                                               2 of 32
Command ===>
                                                                           Scroll PAGE
TABLE FMNDB2.EMP
                                                                     Zoom Format SNGL
                                                             of 14
                                                                       in Row 2
                                          Top Line is 4
Ref Key
            Column
                       Type(len)
                                        Data
            LASTNAME
                                        THOMPSON
#4
                       VC(15)
#5
      NF
            WORKDEPT
                       CH(3)
                                        B<sub>0</sub>1
#6
            PHONENO
                       CH(4)
                                        3476
#7
            HIREDATE
                                        1973-10-10
                       DATE
                                        ADMIN
#8
            J0B
                       CH(8)
            EDLEVEL
#9
                       SMINT
                                            18
#10
            SEX
                       CH(1)
            BIRTHDATE DATE
#11
                                        1948-02-02
#12
            SALARY
                       DEC(9,2)
                                           41250.00
#13
            BONUS
                       DEC(9,2)
                                             800.00
#14
            COMM
                       DEC (9, 2)
                                            3300.00
     End of record
                                                          F5=RFind
                                                                         F6=RChange
 F1=Help
               F2=Zoom
                              F3=Exit
                                            F4=CRetriev
```

- Note: Also notice that PF10 and PF11 (Previous row and Next row) are NOT active. In zoom mode, you cannot navigate to other rows. You can exit zoom mode with PF3 or by using the ZOOM command again.
- Exit zoom mode: Type **zoom** on the command line, then **ENTER**.

Last Update: 7/24/2007



Tip: About ZOOM.

- Use ZOOM for safety, to ensure that you will make changes to only the selected row.
- ZOOM allows you to display only a single row, and in this way it is similar to SNGL format. In fact, it may look like SNGL format. However, when in zoom mode, you cannot navigate to another row or make changes to another row.
- The scope of all commands (including Find and Change) is just one row.

Part 4: Find, Change, and Locate commands

- 19. Change to TABL format, and go to the top:
 - Type \underline{FT} on the command line, then \underline{ENTER} .
 - Type <u>**TOP**</u> on the command line, then <u>**ENTER**</u>.
- 20. Note: You can use most commands (such as Find, Change (edit only), and Locate) in either format. During the remaining steps, you may want to try switching between Single and Table formats to see how commands work in each format.
- 21. The Find command is used to find data in a file. Enter a simple find command:
 - Type <u>F AL</u> on the command line, then **ENTER**. The next row that contains the text is found, and other instances of the text are highlighted. You should see results similar to the following:

FM/DB2	(DSNA)	Table Browse				Chars a	l found
Command	d ===>					Scrol	ll <u>PAGE</u>
TABLE F	MNDB2.EMP					Forma	at <u>TABL</u>
EMPN0	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE	J0B
#1	#2	#3	#4	#5	#6	#7	#8 +
CH(6)	VARCHAR (12)	CH(1)	VARCHAR (15)	CH(3)	CH(4)	DATE	CH(8)
PUN-+>	<+1->	_	<+>	<-NF	<>	<+>	<+-
****	「op of data ⇒	** *					
000010	CHRISTINE	I	HAASK	A00	3978	1965-01-01	PRES
000020	MICHAEL	L	THOMPSONK	B01	3476	1973-10-10	ADMIN
000030	SALLYK	A	KWANK	C01	4738	1975-04-05	MANAGE
000050	JOHN<	В	GEYER<	E01	6789	1949-08-17	SALESR
000060	IRVING<	F	STERN	D11	6423	1973-09-14	MANAGE
000070	EVAC	D	PULASKI	D21	7831	1980-09-30	MANAGE
000090	EILEEN	W	HENDERSON	E11	5498	1970-08-15	SALESR
000100	THEODORE	Q	SPENSER	E21	0972	1980-06-19	MANAGE
000110	VINCENZO	G	LUCCHESI	A00	3490	1958-05-16	SALESR

- 22. Notice that PF5 is set to RFind (Repeat Find).
 - Press **PF5** a few times to find the NEXT occurrences of "al".
- 23. You can limit the scope of the Find command to a field.



- Type **f AL** #2 on the command line, then **ENTER** . Only column #2 (FIRSTNME) is searched.
- 24. You can also search all rows.
 - Type **f** al all on the command line, then **ENTER**. A count is displayed.
- 25. You can search for very large text strings.
 - Type **fx** (Find eXtended) on the command line, then **ENTER**.
 - A pop-up box is displayed where a long search string can be entered. Type <u>AL</u> in the box, then then **ENTER**.
- 26. Go to the top of the file.
 - Type **m** (maximum) on the command line, then **PF7**.

Tip: More about the FIND and CHANGE (edit only) commands.

- If text strings contains spaces or special characters, then type quotes around the strings (either single quotes or double quotes). For example:
 - F 'ABC 123'
- Limit the search (in TABL or SNGL formats) to only one column. For example: search only in column #5:
 - F ABC #5
 - C ABC XYZ #5
- Example: search only in columns #5, #9, and #12:
 - F ABC (#5 #9 #12)
 - C ABC XYZ (#5 #9 #12)
- The ALL modifier can be used to search all in-scope rows. Examples:
 - F ABC ALL
 - F ABC #5 ALL
 - F ABC (#5 #9 #12) ALL
 - C ABC XYZ #5 ALL
- In addition to ALL, other modifiers are available: FIRST, LAST, PREV, NEXT, X, NX.
- Use the help facility (PF1) to get more information about these and other commands.
- 27. The *Locate* command is used to position to columns or rows. You can use the Locate command in any format.
 - Change to SNGL format: Type \overline{FS} on the command line, then \overline{ENTER} .
 - Locate a column name: Type <u>L DEPT</u> on the command line, then <u>ENTER</u>.
 - o This will position to a COLUMN NAME that contains "dept".
 - Locate a row number: Type \underline{L} 25 on the command line, then \underline{ENTER} .



o This will position to row number 25.

Part 6: EXIT, SAVE, and CANCEL

- 28. Note: When you use EDIT (instead of Browse), if you have made changes, you can choose whether to keep the changes or roll them back. In Edit:
 - PF3 will exit and saves your changes.
 - The SAVE command can be used in the editor to save your changes and remain in the editor.
 - The CANCEL command can be used in the editor to end an edit session WITHOUT SAVING your changes.
- 29. Use the *EXIT* command to end the session. PF3 is set to EXIT.
 - Press **PF3** to exit.



Lab Exercise 4 Using a Template

In this exercise you will:

- Edit a template from the Browse panel
- Specify selection criteria to limit rows retrieved
- Specify formatting to limit columns displayed
- Use a "temporary" template
- Save a template
- Use the TE command to edit a template
- 1. Log on to TSO (if you are not already logged on).
- 2. Navigate to the File Manager / DB2 menu.

Part 1: Edit a Template

- 3. Select the Browse option.
 - Type $\underline{\mathbf{1}}$ on the command line, then $\underline{\mathbf{ENTER}}$.

```
FM/DB2 (DSNA)
                            Primary Option Menu
Command ===> 1
  Settings
                Set processing options
                                                    User ID . : DNET074
                Browse DB2 table or view
  Browse
                                                    System ID : DEMOMVS
2 Edit
                Edit DB2 table
                                                    Appl ID . : FMN2
3 Utilities
               Perform utility functions
                                                    Version . : 7.1.0
4 SQL
                Prototype, execute and analyze SQL
                                                    Terminal: 3278A
5 DB2I
                Start DB2 Interactive
                                                    Screen .: 1
                                                    Date . . : 2007/03/02
X Exit
                Terminate FM/DB2
                                                    Time . . : 01:56
                                                    DB2 SSID .
                                                                DSNA
                                                    SQL ID . .
                                                               DNET074
```

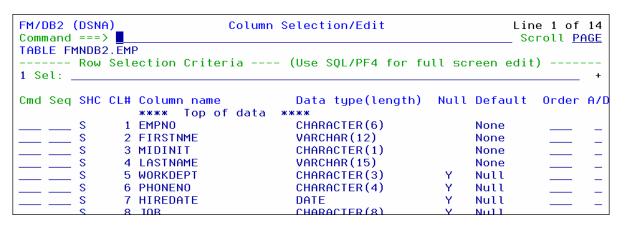
- 4. The DB2 Browse Panel is displayed. There are different ways to edit a template. One way is to use the "Edit template" option:
 - Type $\underline{/}$ (slash) in the Edit template field.
 - Leave the other items unchanged:
 - o Your instructor will give you the Owner ID to enter.
 - o **EMP** in the Data set/path name field.
 - o $\underline{\mathbf{3}}$ (Generate from table) in the Template usage field.



• Press **ENTER**.

FM/DB2 (DSNA) DB2 Command ===>	Browse
Specify the DB2 Object: Location Owner FMNDB2 Name EMP	
Row count <u>100</u>	Number of rows to browse
Template: Data set name	
Processing Options: Template usage 3 1. Above 2. Previous 3. Generate from table 4. Generate/Replace	Enter "/", "A"lways to select option _ Edit options / Edit template _ Re-edit template

5. The Column Selection / Edit (Template Edit) panel is displayed. From this panel, you can specify selection criteria and field formatting, among other things.



Part 3: Selecting Rows

- 6. Next, specify selection criteria in the template. There are two ways to specify criteria: 1) as a free format expression, or 2) "by column". In the next steps you will use the free format method.
- 7. Enter criteria to select rows where WORKDEPT is greater than or equal to 'E00':
 - Type WORKDEPT >= 'E00' in the Sel field.
 - Press **ENTER**.



```
FM/DB2 (DSNA)
                            Column Selection/Edit
                                                                   Line 1 of 14
Command ===>
                                                                   Scroll PAGE
TABLE FMNDB2.EMP
  ---- Row Selection Criteria ---- (Use SQL/PF4 for full screen edit) --
1 Sel: workdept >= 'E00'
Cmd Seq SHC CL# Column name
                                     Data type(length) Null Default
                **** Top of data ****
              1 EMPNO
                                      CHARACTER (6)
        S
                                      VARCHAR (12)
              2 FIRSTNME
                                                              None
              3 MIDINIT
                                      CHARACTER (1)
                                                              None
```

- 8. Note: File Manager will use your selection criteria to run a SQL statement to retrieve the data. You can view the generated SQL statement if you want to:
 - Press **PF4** (the SQL command).
- 9. The SQL that File Manager will use is displayed. Scroll forward (PF8) to see the SQL statement. From here, you have the option to modify the WHERE clause (but you cannot change any other part of the SQL statement).
- 10. Return to the Template Edit panel:
 - Press **PF3**.
- 11. You have the option to either use the template without saving it ("run temporary"), or to save the template. Run the template without saving it:
 - Press PF6. PF6 is set to the "RUNTEMP" (run temporary) command. This will "run" the template, but will not save the template.
- 12. The Browse panel is displayed. Notice that only the selected rows were returned. Verify that only rows with WORKDEPT >= 'E00' are displayed, as shown:
 - IF your results are not correct, then check that you entered your selection criteria correctly. If the results aren't correct, use PF3 to exit browse and try the process again.



FM/DB2	· · · · · · · · · · · · · · · · · · ·		Table Brows	Э			0 of 10
	===>						LL <u>PAGE</u>
	fetched						at <u>TABL</u>
EMPN0	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE	J0B
#1	#2	#3	#4	#5	#6	#7	#8 +
CH(6)	VARCHAR (12)	CH(1)	VARCHAR (15)	CH(3)	CH(4)	DATE	CH(8)
PUN-+>	<+>	_	<+>	<-NF	<>	<>	<+-
жжжж Т	op of data	***					
000050	JOHN	В	GEYER<	E01	6789	1949-08-17	SALESR
000090	EILEEN	W	HENDERSON<	E11	5498	1970-08-15	SALESR
000100	THEODORE	Q	SPENSER	E21	0972	1980-06-19	MANAGE
000280	ETHEL	R	SCHNEIDER	E11	8997	1967-03-24	OPERAT
000290	JOHN<	R	PARKER<	E11	4502	1980-05-30	FIELDR
000300	PHILIP	X	SMITH	E11	2095	1972-06-19	SYSPR0
000310	MAUDE	F	SETRIGHT	E11	3332	1964-09-12	OPERAT
000320	RAMLALK	V	MEHTAK	E21	9990	1965-07-07	FIELDR
000330	WING<		LEEK	E21	2103	1976-02-23	FIELDR
000340	JASON	R	GOUNOT <	E21	5698	1947-05-05	FIELDR
жжжж Е	nd of data	***					

- 13. Exit from the Browse:
 - Press **PF3**.

Tip: About Freeform Selection Criteria Syntax.

- Freeform selection criteria is the WHERE clause of the SQL statement that File Manager uses to retrieve rows from DB2.
- You can enter any expression that is valid in a WHERE clause.
- 14. In the previous steps, you entered selection criteria using a free format expression. In the next steps, you will use a different method to enter selection criteria: the "by column" method.
- 15. The DB2 Browse panel is displayed. Leave all of the fields unchanged, except:
 - Type / (slash) in the Edit Template field.
 - Press **ENTER**.



FM/DB2 (DSNA) Command ===>	DB2 Browse
Specify the DB2 Object: Location Owner FMNDB2 Name EMP	Table space (optional)
Row count <u>100</u>	_ Number of rows to browse
Template: Data set name	
Processing Options: Template usage 3 1. Above 2. Previous 3. Generate from table 4. Generate/Replace	Enter "/", "A"lways to select option _ Edit options / Edit template _ Re-edit template

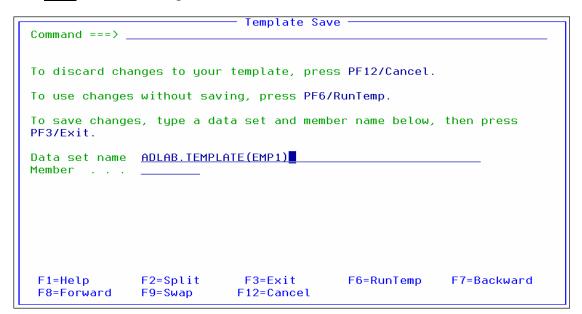
- 16. The Column Selection / Edit panel is displayed. Choose "By Field" selection:
 - Type $\underline{1}$ on the command line, then \underline{ENTER} .

```
FM/DB2 (DSNA) Colu
Command ===> 1 
TABLE FMNDB2.EMP
----- Row Selection Criteria -
1 Sel:
```

- 17. The Row Selection Criteria panel is displayed. Enter criteria to select all rows where WORKDEPT is greater than or equal to 'E00':
 - On the WORKDEPT line, type **>=** in the Operator column.
 - On the WORKDEPT line, type <u>**'E00'**</u> in the Value column.
 - Note: If needed, help is available by pressing PF1.
 - Press **PF3**.



- 18. The Field Selection / Edit panel is displayed. Notice that File Manager automatically formatted the free format criteria on the panel. Exit from this panel:
 - Press **PF3**.
- 19. The Template Save panel is displayed. You have the option to save the template, or use the template without saving it ("run temporary"). Save the template:
 - Type **ADLAB.TEMPLATE(EMP1)** in the Data set/path name field.
 - o This will save the template with the name EMP1 in your template library. A template library can be any PDS or PDSE with LRECL=80 and RECFM=FB. A template library must be pre-allocated before you can save to it.
 - o Note: depending on your TSO profile settings, you may need to type the full data set name with your personal file prefix.
 - Press **PF3** to save the template.



- 20. The Browse panel is displayed. Notice that only the selected rows were retrieved. Verify that only rows with WORKDEPT greater than 'E00' are displayed, as shown:
 - IF your results are not correct, then exit Browse, and edit the Template again to fix the selection criteria.

Last Update: 7/24/2007



	(DSNA) d ===> ■		Table Brows	9			of 10
10 rows	fetched					Forma	at <u>TABL</u>
EMPN0	FIRSTNME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE	J0B
#1	#2	#3	#4	#5	#6	#7	#8 +
CH(6)	VARCHAR (12)	CH(1)	VARCHAR (15)	CH(3)	CH(4)	DATE	CH(8)
PUN-+>	<+1->	_	<+>	<-NF	<>	<>	<+-
****	Γop of data ⇒	***					
000050	JOHN<	В	GEYER<	E01	6789	1949-08-17	SALESR
000090	EILEEN	W	HENDERSON<	E11	5498	1970-08-15	SALESR
000100	THEODORE	Q	SPENSER	E21	0972	1980-06-19	MANAGE
000280	ETHEL	R	SCHNEIDER	E11	8997	1967-03-24	OPERAT
000290	JOHN<	R	PARKER<	E11	4502	1980-05-30	FIELDR
000300	PHILIP	X	SMITH	E11	2095	1972-06-19	SYSPR0
000310	MAUDE	F	SETRIGHT	E11	3332	1964-09-12	OPERAT
000320	RAMLAL	V	MEHTAK	E21	9990	1965-07-07	FIELDR
000330	WING<		LEEK	E21	2103	1976-02-23	FIELDR
000340	JASONK	R	GOUNOT <	E21	5698	1947-05-05	FIELDR
****	End of data 🤙	***					

Part 4: Selecting Fields

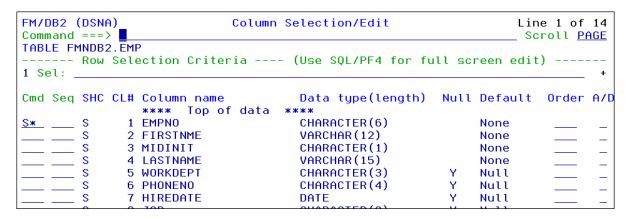
21. Exit from Browse:

- Press <u>**PF3**</u>.
- 22. In the next steps, you will select only certain columns for display. Edit the template:
 - Type / (slash) in the Edit Template field.
 - Type <u>3</u> (Generate from table) in the Template usage field. (Note: a "1" in this field will re-use a saved template.)
 - It is OK to leave the Template name, even though it will not be used in this example (because of the "3" in the Template usage field).
 - Press <u>ENTER</u>.

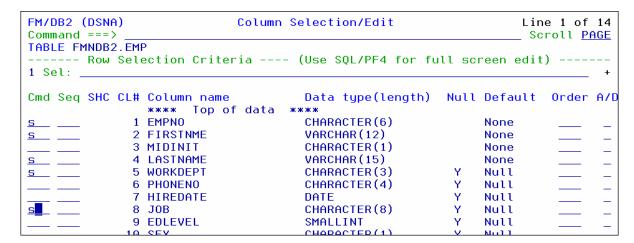
```
FM/DB2 (DSNA)
                                  DB2 Browse
Command ===>
Specify the DB2 Object:
  (optional)
                      FMNDB2
                                              Table space
                                                                    (optional)
  Row count . . . . . <u>100</u>
                                     Number of rows to browse
Template:
                      'DNET074.ADLAB.TEMPLATE'
  Data set name . . .
  Member . . . . .
Processing Options:
                                     Enter "/", "A"lways to select option
   Template usage
   <u>3</u> 1. Above
                                      _ Edit options
      2. Previous
                                     ✓ Edit template
      3. Generate from table
                                        Re-edit template
      4. Generate/Replace
```



- 23. The Column Selection / Edit panel is displayed. By default, all columns are selected. Notice the S's in the SHC field, which indicate selected columns.
- 24. A helpful trick is to UN-select all columns first:
 - Type $\underline{S^*}$ in the Cmd field of the first column, as shown. This will toggle all columns. Since all columns are originally selected, this will UN-select all columns.
 - Press **Enter** .



- 25. Now, none of the columns are selected. Select certain columns:
 - Type $\underline{\mathbf{S}}$ (select) in the Cmd column next to the following fields:
 - o EMPNO
 - o FIRSTNAME
 - o LASTNAME
 - WORKDEPT
 - o JOB
 - Press **PF6** (RunTemp).



26. The Browse panel is displayed. Notice that only the selected columns are displayed.



FM/DB2 (DSNA) Table Browse 0 of 32 Command ===> Scroll PAGE 32 rows fetched Format TABL LASTNAME WORKDEPT JOB EMPNO FIRSTNME #1 #2 #4 #5 #8 VARCHAR (12) VARCHAR (15) CH(3) CH(8) CH(6) <---> PUN-+> <---+---1-> <---+---1-<-NF Top of data *** *** **PRES** 000010 CHRISTINE< HAASK A00 000020 MICHAEL< **THOMPSON** B₀1 **ADMIN** 000030 SALLYK **KWANK** C01 MANAGER 000050 JOHNS **GEYER**< E₀1 SALESREP 000060 IRVING< STERNK D11 MANAGER 000070 EVAK MANAGER **PULASKI** (D21 OOOOOO EILEENA HENDEDSONA

Part 5: The TE Command

- 27. You can use the TE command to edit the Template without leaving your Browse or Edit session:
 - Type **TE** on the command line, then **ENTER**.
- 28. The Column Selection / Edit panel is displayed. When using TE, you can select columns to be displayed and make other formatting changes, but you cannot modify selection criteria. (Because you are already in the Edit or Browse session, and File Manager has already retrieved the selected rows from DB2).
 - Press **PF3** to return to Browse.

Part 6: Re-Edit a Template

- 29. Exit from Browse:
 - Press **PF3**.
- 30. Sometimes, you may a want a fast way to select and browse (or edit) rows, and then repeatedly select and browse a different set of rows. That is the purpose of the Re-Edit Template option. Edit and Re-edit the template:
 - Type / (slash) in the Edit Template field.
 - Type / (slash) in the Re-Edit Template field.
 - Press **ENTER**.



FM/DB2 (DSNA) DB2 Command ===>	Browse
Specify the DB2 Object: Location Owner FMNDB2 Name EMP	
Row count <u>100</u>	Number of rows to browse
Template: Data set name <u>'DNET074.ADLAB</u> Member <u>EMP1</u>	.TEMPLATE'
Processing Options: Template usage 3 1. Above 2. Previous 3. Generate from table 4. Generate/Replace	Enter "/", "A"lways to select option _ Edit options / Edit template / Re-edit template

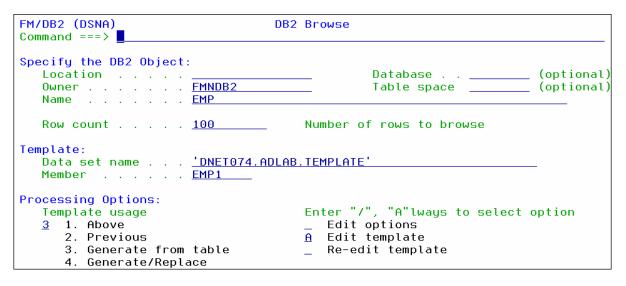
- 31. The Column Selection / Edit panel is displayed. Specify selection criteria:
 - Type **WORKDEPT <= 'B99'** in the SEL field, then **PF6**.
- 32. The Browse panel is displayed. Notice that only the selected columns are displayed.
- 33. Exit from Browse:
 - Press **PF3**.
- 34. The Column Selection / Edit panel is displayed again. This panel displayed because of the Re-Edit option. Specify selection criteria:
 - Type $\underline{WORKDEPT} >= 'C00'$ in the SEL field, then $\underline{PF6}$.
- 35. The Browse panel is displayed. Notice that only the selected columns are displayed.
- 36. Exit from Browse:
 - Press **PF3**.
- 37. The Column Selection / Edit panel is displayed again. This process will repeat indefinitely, or until you use the CANCEL command (or PF12):
 - Press **PF12** to return to the DB2 Browse panel.

Part 7: Always Edit the Template

- 38. You can choose to ALWAYS edit the template, using the A (all) selection:
 - Type <u>A</u> (always) in the Edit Template field.



• Press **ENTER**.



- 39. The Column Selection / Edit panel is displayed. Specify selection criteria:
 - Type $\underline{WORKDEPT} >= 'C00'$ in the SEL field, then $\underline{PF6}$.
- 40. The Browse panel is displayed. Notice that only the selected columns are displayed.
- 41. Exit from Browse:
 - Press **PF3**.
- 42. The DB2 Browse panel is displayed. Notice that your A (all) selection is still there. It is a permanent setting that is in effect until you remove it. You can also use the A (all) selection with Re-Edit Template option.



Lab Exercise 5

Use your own SQL statement to start Browse or Edit

In this exercise you will:

- View / Edit a SQL statement that has been saved in a file
- Use the SQL statement to start Browse
- See how to update your options to start Edit using your own SQL statement

Part 1: Use the SQL "Edit" Utility

- 1. Starting from the File Manager / DB2 Main Menu:
 - Type **4** (SQL) on the command line, then **ENTER**.
 - The SQL Prototyping, Execution, and Analysis menu is displayed. From here, you can use the Prototyping Utilities to get assistance in writing a new SQL statement, or the "Enter" utility, where you can type in and run a SQL statement. You may want to explore these utilities later.
 - Type $\underline{\mathbf{4}}$ (Edit) on the command line, then $\underline{\mathbf{ENTER}}$.
 - The "Edit and Execute SQL Statements from a Data Set" panel is displayed.
- 2. Specify a file where a SQL statement resides (or a new file where you want to save a new SQL statement). There is a sample that you can use:
 - Type **ADLAB.FILES** in the Data set name field.
 - o Note: depending on your TSO PROFILE PREFIX setting, you *may* need to enter your personal file prefix as the first qualifier.
 - Type <u>SQL</u> in the Member field.
 - Type <u>/</u> to select Edit Data set.
 - Type / to select Execute SQL from data set.
 - Type / to select Re-edit data set after execution.
 - Press **Enter**.



```
FM/DB2 (DSNA)
              Edit and Execute SQL Statements from a Data Set
Command ===>
Input Data Set Containing SQL Statements:
  Data set name . . . . <u>ADLAB.FILES</u>
                                      Blank or pattern for member list
  Volume serial . . . .
                                      If not cataloged
Processing Options:
                                  Enter "/" to select option(s)
  Execution options
                                  _/ Edit data set
       First column
       Last column
                                  <u>/</u> Execute SQL from data set
       Comment chars
                                  / Re-edit data set after execution
```

- 3. The SQL data set is displayed. From here you can optionally make changes to the SQL statement.
 - There may be changes needed to run the SQL statement on your system. Ask your instructor for assistance if needed.
 - Press **PF3** to execute the SQL statement.

```
DNET074.ADLAB.FILES(SQL) - 01.00
EDIT
                                              Columns 00001 00072
                                                _ Scroll ===> <u>CSR</u>
Command ===>
000001 SELECT EMPNO, FIRSTNME, MIDINIT, LASTNAME,
          WORKDEPT, JOB, HIREDATE, PHONENO, EDLEVEL, BIRTHDATE,
000002
000003
           SALARY, BONUS, COMM,
000004
000005
           DEPTNAME
000006 FROM
          FMNDB2.EMP #1, FMNDB2.DEPT #2
000007 WHERE #1.WORKDEPT = #2.DEPTNO
            ( WORKDEPT >= 'B01' AND WORKDEPT <= 'C10' )
000008
```

4. The Browse panel is displayed, showing the results of the SQL statement:

```
FM/DB2 (DSNA)
                           Select Statement Browse
                                                                        0 of 4
Command ===>
                                                                   Scroll PAGE
4 rows fetched
                                                                   Format <u>TABL</u>
EMPNO FIRSTNME
                    MIDINIT LASTNAME
                                            WORKDEPT JOB
                                                              HIREDATE
                                                                         PHONE
                                                                         #6
       #2
                            #4
                                                     #8
                                                              #7
#1
                    #3
                                            #5
CH(6) VARCHAR(12)
                            VARCHAR (15)
                                            CH(3)
                                                                         CH(4)
                    CH(1)
                                                              DATE
PUN-+> <---+---1-> -
                                                     <----> <---> <-->
                            <---+ <---> <-NF
**** Top of data ****
000020 MICHAELK
                            THOMPSONC
                                            B01
                                                              1973-10-10 3476
                   L
                                                     ADMIN
000030 SALLYK
                                            C01
                                                     MANAGER
                                                              1975-04-05 4738
                    Α
                            KWANK
                            QUINTANAC
000130 DOLORES<
                                            C01
                                                     ANALYST
                                                              1971-07-28 4578
                                                              1976-12-15 1793
000140 HEATHER<
                   Α
                            NICHOLLSK
                                            C01
                                                     ANALYST
**** End of data
```

5. Press **PF3**.



- 6. The SQL statement is shown again. From here, you can make more changes to the SQL statement. PF3 will execute the SQL statement again and display the results. You can repeat this process as needed.
- 7. Use the CANCEL command to exit:
 - Type <u>CANCEL</u> on the command line, then <u>Enter</u>.

Part 2: Update options to start Edit instead of Browse

- 8. The SQL Prototyping, Execution, and Analysis menu is displayed.
- 9. You can start an Edit session (instead of Browse). If you do, you can change the contents of your tables. This is done in the Edit Options:
 - Pull down the Options Menu by putting your cursor on the word "OPTIONS" at the top of the panel, then <u>Enter</u>.
 - Type **2** (FM/DB2 system options), then **Enter**.

FM/DB2 (2 1. Print settings	Analysis
Command	FM/DB2 system options	
	Job card specifications	
1 Basic	4. Compiler language selection	ic)
2 Advan	COBOL compiler specifications	anced)
3 Enter	PL/I compiler specifications	tatements
4 Edit	7. ISPF settings	from a data set
5 Utili	8. Browse options	n
	9. Edit options	
	10. Copy utility options	
	11. Object list utility options	
	12. Export utility options	
	13. DB2 LOAD utility options	
	14. DB2 Utility LISTDEF options	
	1E DDO Hailian ODTIONS ontions	

- 10. FM/DB2 System Options panel 1 of 4 is displayed. Scroll to the next page:
 - Press **PF11**.
- 11. FM/DB2 System Options panel 2 of 4 is displayed.
 - Notice the heading: "Arbitrary SQL Select Statements". If you select the "Use Edit (instead of browse) to display results" option, then File Manager will start Edit when you execute your SQL statements.
 - Set this option either on or off based on your own preference.



```
FM/DB2 (DSNA) FM/DB2 System Options (2 of 4) Global Settings
Command ===>

Arbitrary SQL Select Statements:
    Enter "/" to select option
    _ Use edit (instead of browse) to display results

External Format for TIME Data Type Columns:
    Display format
    1    1. ISO (HH.MM.SS)
    2. JIS (HH:MM:SS)
    3. DB2 DSNHDECP setting

Catalog Queries and Template Creation:
    Enter "/" to select option
    _ Use uncommitted read when accessing the DB2 catalog
    _ / Retrieve foreign key information when building templates
```

12. Press **PF3** until you have returned to the Main Menu.



Lab Exercise 6

Use Basic Prototyping to generate, Run, and Save a new SQL statement

In this exercise you will:

- Write a new SQL statement, with help from File Manager
- Execute the new SQL statement
- Save it in a File

Part 1: Use the "Basic Prototyping" Utility

- 1. Starting from the File Manager / DB2 Main Menu:
 - Type $\underline{\mathbf{4}}$ (SQL) on the command line, then $\underline{\mathbf{ENTER}}$.
 - The SQL Prototyping, Execution, and Analysis menu is displayed.
 - Type $\underline{1}$ (Basic Prototyping) on the command line, then \underline{ENTER} .
 - The "Basic Select Prototyping" panel is displayed.
- 2. On this panel, you specify the tables that your new SQL statement will access.
 - Type table names as shown (FMNDB2.EMP and FMNDB2.DEPT):
 - Note: The owner IDs may be different on your system. Ask your instructor for help if needed.
 - Press **Enter**.

FM/DB2 (DSNA) Command ===>	Basic SELECT Prototyping	
Owner #1 FMNDB2 #2 FMNDB2 #3	<u> </u>	_

- A panel is displayed that shows a list of columns from the two tables. Select the following columns with "S" line commands as shown:
 - o #1 EMPNO (Note: "#1" identifies the first table in the FROM clause)
 - #1 FIRSTNAME
 - o #1 LASTNAME



- **#1 WORKDEPT**
- #1 JOB
- #2 DEPTNAME (Scroll down (PF8) to see this column)
- Press **Enter**.

```
FM/DB2 (DSNA)
                            Basic SELECT Prototyping
                                                                 Row 1 to 9 of 19
Command ===>
                                                                   ___ Scroll <u>PAGE</u>
SELECT ?
 FROM FMNDB2.EMP #1, FMNDB2.DEPT #2
  WHERE ?
  ORDER BY ?
Select columns (S/A/D) or enter predicates to build the SELECT statement:
S LOp ( Tab Column Name
                                Data Type(length)
                                                      Op Value
         #1 EMPNO
                                CHAR(6)
         #1 FIRSTNME
                                VARCHAR (12)
         #1 MIDINIT
                                CHAR(1)
                                VARCHAR (15)
         #1 LASTNAME
         #1 WORKDEPT
                                CHAR(3)
         #1 PHONENO
                                CHAR(4)
         #1 HIREDATE
                                DATE(4)
         #1 JOB
                                CHAR(8)
         #1 EDLEVEL
                                SMALLINT(2)
```

3. Notice that the generated SQL statement at the top of the panel now shows the columns that you selected.

Tip: "Undo" your changes.

- If you make a mistake, use the UNDO command to remove your last change. You can use the UNDO command several times in a row to undo more than one change.
- 4. Next, define how the two tables will be joined:
 - Type entries as shown to specify that #1.WORKDEPT must be equal to #2.DEPTNO:
 - Press **Enter**.



```
FM/DB2 (DSNA)
                           Basic SELECT Prototyping
                                                                Row 1 to 5 of 19
Command ===>
SELECT #1.EMPNO, #1.FIRSTNME, #1.MIDINIT, #1.LASTNAME, #1.WORKDEPT, #2.DEPTNAM
  FROM FMNDB2.EMP #1, FMNDB2.DEPT #2
 WHERE ?
  ORDER BY ?
Select columns (S/A/D) or enter predicates to build the SELECT statement:
                                Data Type(length)
S LOp ( Tab Column Name
                                                     Op Value
         #1 EMPNO
                                CHAR (6)
         #1 FIRSTNMF
                                VARCHAR (12)
        #1 MIDINIT
                                CHAR(1)
        #1 LASTNAME
                                VARCHAR (15)
        #1 WORKDEPT
                               CHAR(3)
                                                        #2.DEPTNO
F1=Help
                                                      F6=Execute
              F2=Split
                           F3=Exit
                                         F4=Expand
                                                                    F7=Backward
                                        F11=Right
```

- 5. Note: You could optionally continue to add WHERE criteria if needed.
- 6. The SQL statement is ready. Execute it:
 - Press **PF6** (The EXECUTE command).
- 7. The result of the SQL statement is displayed in Browse. Note: Your system options control whether results are shown in Browse or Edit.
- 8. Press **PF3** to exit Browse.
- 9. You can use the "SQL" command to view the generated SQL statement:
 - Type \underline{SQL} on the command line, then \underline{Enter} .

```
FM/DB2 (DSNA)

Command ===> sql Scroll PAGE

SELECT #1.EMPNO, #1.FIRSTNME, #1.MIDINIT, #1.LASTNAME, #1.WORKDEPT, #2.DEPTNAM

E
FROM FMNDB2.EMP #1, FMNDB2.DEPT #2

WHERE #1.WORKDEPT = #2.DEPTNO

ORDER BY ?
```

- 10. Your SQL statement is displayed in an EDIT session. Save the SQL statement to a PDS member:
 - Type <u>CRE</u> (create) on the command line. (Note: You could use the "REP" command instead to *replace* data in an existing member of file)
 - Type <u>C99</u> (Copy 99 lines) on the first command line.
 - Press **Enter**.



```
SYS06103.T114203.RA000.DNET074.R0194216
                                              Columns 00001 00072
Command ===> CRE
DEPTNAME
000002
          FMNDB2.EMP #1, FMNDB2.DEPT #2
000003 FROM
000004 WHERE #1.WORKDEPT = #2.DEPTNO
<mark>жжжжж</mark> жжжжжжжжжжжжжжжжжжжжжжжжж Bottom of Data жжжжжжжжжжжжжжжжжжжжжжжж
```

- 11. The Edit Create panel is displayed. Specify the name of the member to be created:
 - Specify PDS **ADLAB.FILES** and member **MYSQL**.
 - Press <u>ENTER</u>.

```
COMMAND ===>
"CURRENT" DATA SET: SYS06103.T114203.RA000.DNET074.R0194216
TO ISPF LIBRARY:
  PROJECT ===> DNET074
  GROUP
         ===> ADLAB
         ===> FILES
  TYPE
  MEMBER ===>
TO OTHER PARTITIONED DATA SET MEMBER (enter @H for previously referenced files)
  DATA SET NAME ===> ADLAB.FILES(MYSQL)
  VOLUME SERIAL ===>
                           (If not cataloged)
DATA SET PASSWORD ===>
                           (If password protected)
SPECIFY PACK OPTION FOR "CREATE" DATA SET ===> NO (YES or NO)
Press the ENTER key to create, or the END key to cancel create.
```

- 12. At this point, you have written a new SQL statement, and saved it as a PDs member.
- 13. Press **PF3** until you have returned to the Main Menu.

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