

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

File Manager DB2 version 10 tutorial	IBM
 File Manager DB2 utilities Print Object list Copy Export and import 	
2 IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 201	0 IBM Corporation

This section will cover the File Manager Print utility. It can be used to generate reports from DB2 tables or views.

	Review print settings	IBM
<u>Process</u> Opt FM/DB2 (D91F) Command === 0	ions <u>U</u> tilities <u>H</u> elp Primary Option Menu	
0 Settings 1 View 2 Edit 3 Utilities 4 SQL 5 DB2I 6 Command X Exit	Set processing options View DB2 object Edit DB2 object Perform utility functions Prototype, execute and analyze SQL Start DB2 Interactive Enter and execute a DB2 Command Terminate FM/DB2	User ID . : TSS13 System ID : STLABF6 Appl ID . : FMN2 Version . : 10.1.0 Terminal : 3278A Screen . : 1 Date : 2010/04/14 Time : 12:16 DB2 SSID . <u>D91F</u> SQL ID <u>TSS13</u> +
3	IBM File Manager DB2 for z/OS V10 Mentor Worksh	W00 © 2010 IBM Corporation

Review print option settings before printing from the utility panel From the File Manager DB2 primary option menu, select option 0, settings. Press Enter.

		Select print utility options	IBM
Proces	s <u>O</u> ptions	<u>U</u> tilities <u>H</u> elp	
FM/DB2	(D91F) ===>(3,1)	Set Processing Options	
0 Syst		System options	
1 View		View options	
2 Edit		Edit options	
	ities	Edit options	
3.1	Print	Print utility options	
3.3	Сору	Copy utility options	
3.4	Object List		
3.7	Export	Export utility options	
3.L	Load	DB2 LOAD utility options	
3.UL	LISTDEF	DB2 Utility LISTDEF options	
3.00	OPTIONS	DB2 Utility OPTIONS options	
3.UT	TEMPLATE	DB2 Utility TEMPLATE options	
3.UU	Unload	DB2 Unload utility options	
			Enter
4		IBM File Manager DB2 for z/OS V10 Mentor Workshop	W00 © 2010 IBM Corporation

From the Set Processing Options selection panel, select option 3.1 print utility options. Press Enter.

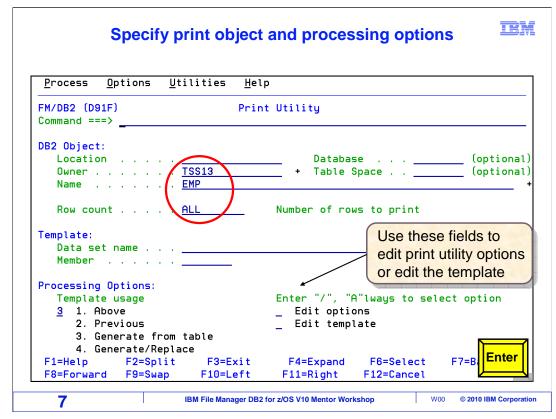
Command ===>	Select print format					
Command ===>	Process Options Ut	tilities <u>H</u> elp				
Display 1 1. Table 2. Single Enter "/" to select option _ Batch execution 2 Use uncommitted read _ Print HEX representation	FM/DB2 (D91F) Command ===>	Print Utility Options	Global Settings			
	1 2. Single Enter "/" to select Batch execution <u>/</u> Use uncommitted r	Display option read				

Print utility options panel is displayed. This panel controls the format, table or single, that the output will be printed in. This panel also can be used to select batch execution, use uncommitted read, and print HEX representation. Select Print mode 1, print output will be in Table format. Press F3 twice to return to the FM DB2 primary option menu. Then select option 3 for utilities.

	Select Print		IBM
Process Option FM/DB2 (D91F) Command === 1 1 Print 2 Objects	ns <u>U</u> tilities <u>H</u> elp Utility Functions Print DB2 table or view Create and drop DB2 objects		
3 Copy 4 Object List 5 Privileges 6 Import 7 Export 8 Create 9 Utilities	Copy data within DB2 Display and process DB2 object lists Manage DB2 privileges Import sequential or VSAM data into DB2 Export DB2 data to sequential or VSAM data Create DB2 test data DB2 utility job generation	set	
	Print audit trail report Browse FM/DB2 print data set		
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From the utility functions panel, select option 1 Print. Press Enter.

FMDv10s07Print.ppt



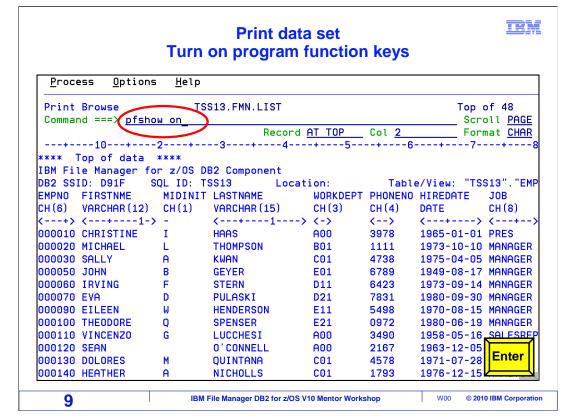
Specify the name of the object to be printed in the DB2 object fields. You can refer to a table, a view, or an alias of a table or a view. You can limit how many rows are printed in the "Row Count" field. If you set the "Row Count" to zero or ALL, as in this example, then all rows will be printed.

You can use a template to select rows and format the report. You can also change the report format, either table or single, by selecting "Edit options" under "processing options", and modifying the "print mode". Press Enter.

<u>P</u> rocess <u>O</u> ptions <u>U</u> tilities	<u>H</u> elp		
FM/DB2 (D91F) Command === pb	Print Utility	42 row	ı(s) printe
DB2 Object: Location Owner		• • • <u></u>	-
Row count ALL	Number of rows to	o print	
Template: Data set name Member			
Processing Options: Template usage <u>3</u> 1. Above 2. Previous	Enter "/", "A"lwa _ Edit options _ Edit template	ays to select	: option
3. Generate from table 4. Generate/Replace			Enter

A message in the right corner of the screen indicates 42 rows have been printed. Because the print options settings are correct, the report was written to the File Manager print data set.

There is a special File Manager command, PB ("Print Browse") that displays the print data set. On the command line, type PB, and press Enter.

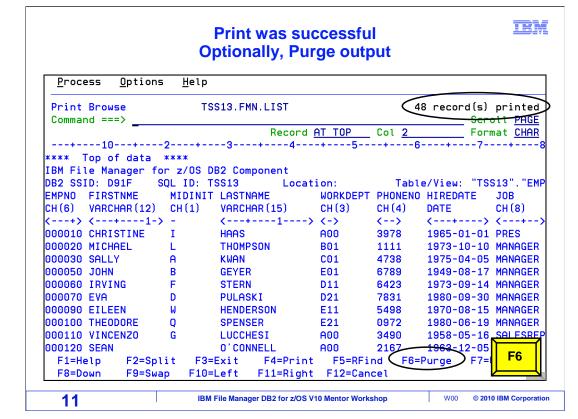


The print dataset is displayed. The name of the print dataset will appear in the top, center of the panel. The data is displayed in table format, based on the setting in the print utility options panel. No template was used, so all rows and columns were printed. A template can be used to select rows or columns.

The "PFSHOW ON" command is entered on the command line to show the program function keys. Press Enter.

Process	Options	Help					
Print Brows	-	- ·	13.EMN.LIST			Ton	of 48
Command ===	-						
	_		Recor	d AT TOP	Col 2	Fo	ormat CHA
+10-	+2	+	-34-		+6	7	·+
**** Top of	data *>	кжж					
IBM File Man							
DB2 SSID: D9	1F SQI	ID: TS	\$13 Loo	ation:	Table	e∕View: "T	'SS13"."E
EMPNO FIRST	NME I	1IDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE	JOB
CH(6) VARCH	AR (12) 🛛 🛛					DATE	
<+> <+	1->	-	<+1	-> <->	<>	<	> <+-
000010 CHRIS			HAAS	A00	3978	1965-01-0	1 PRES
000020 MICHA	EL I	-	THOMPSON	B01	1111	1973-10-1	.0 MANAGE
000030 SALLY			KWAN	C01	4738	1975-04-0	5 MANAGE
000050 JOHN			GEYER	E01	6789	1949-08-1	.7 MANAGE
000060 IRVIN			STERN	D11	6423	1973-09-1	.4 MANAGE
000070 EVA	I)	PULASKI	D21	7831	1980-09-3	80 MANAGE
000090 EILEE	N I	٩	HENDERSON	E11	5498	1970-08-1	.5 MANAGE
000100 THEOD			SPENSER	E21	0972	1980-06-1	
000110 VINCE	NZO (-	LUCCHESI	A00	3490	1958-05-1	
000120 SEAN			O'CONNELL		2167	-1963- 12-0	
	E0-0-14	F E0-E		int) F5=RFi			F4

Press F4 print, to send the contents of the print dataset to SYSOUT. F4 is entered.



A message is displayed in the right corner of the screen that indicates the rows have been printed. The contents of the print data set are copied to sysout. The sysout class that was specified in the print options controls the class the output is sent to. This technique is used to route the report to a physical printer.

Use F6 to purge the data in the dataset. F6 is entered.

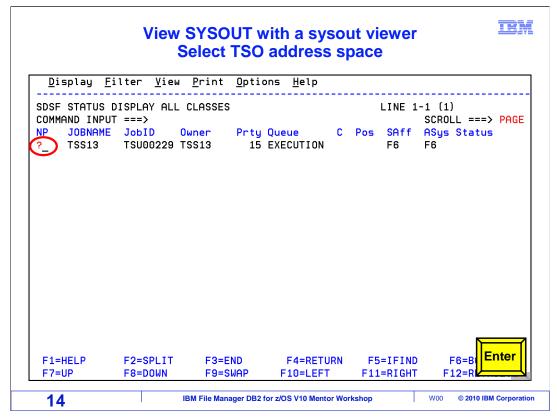
Process	<u>O</u> ptions	<u>H</u> elp						
Print Bro		TS	S13.FMN.L	IST				of 48
Command =		confirm		auget	<u>`</u>		SCP	oll <u>PAG</u>
Press PUR	GE кеу то <u>0</u> +			· ·			7-	
								+

IBM File M	-							
DB2 SSID:		QL ID: T		Locat			e∕View: "TS	S13"."E
EMPNO FIR	STNME	MIDINIT	LASTNAME		WORKDEPT	PHONENO	HIREDATE	JOB
CH(6) VAR	CHAR (12)	CH(1)	VARCHAR	(15)	CH (3)	CH (4)	DATE	CH (8)
<+> <	-+1->	-	<+	1>	<->	<>	<>	<+-
000010 CHR	ISTINE	I	HAAS		A00	3978	1965-01-01	PRES
000020 MIC	HAEL	L	THOMPSON	4	B01	1111	1973-10-10	MANAGE
000030 SAL	LY	A	KWAN		C01	4738	1975-04-05	MANAGE
000050 JOH	N	В	GEYER		E01	6789	1949-08-17	MANAGE
000060 TRV	ING	F	STERN		D11	6423	1973-09-14	MANAGE
000070 EVA		D	PULASKI		D21	7831	1980-09-30	
000090 EIL		Ŵ	HENDERSO	אר	E11	5498	1970-08-15	
000100 THE		ö	SPENSER		E21	0972	1980-06-19	
000110 VIN		G	LUCCHESI	r	A00	3490	1958-05-16	
000120 SEA		ч -	O'CONNEL		A00	2167	1963-12-05	
F1=Help	F2=Spl	it F3=			F5=RFi		Purge F7=	
I T-HELD	12-5pt	IL 10-	CXIC I	A-LITUC	1.3-01.11	iu 10-r	-urge in-	11

Purge request requires a confirmation. Press F6 again to confirm purge of dataset contents.

	Returned	nt data so to the Pi			
<u>P</u> rocess <u>O</u> ptic	ons <u>U</u> tilities	<u>H</u> elp			
FM/DB2 (D91F) Command ===>		Print Uti	lity		Output purg
DB2 Object: Location Owner Name	<u>TSS13</u> <u>EMP</u>		Databa + Table	5e Space	(option
Row count	<u>ALL</u>	Nun	ber of ro	ws to print	
	•	_			
Processing Optic Template usag <u>3</u> 1. Above 2. Previou 3. Generat 4. Generat	ge us ce from table	Ent _ _	er "/", " Edit opti Edit temp	ons	elect option
F1=Help F2			4=Expand 1=Right		

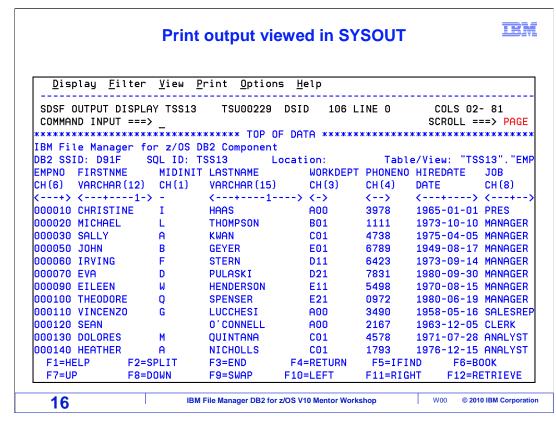
Purging the dataset will return back to the print utility panel.



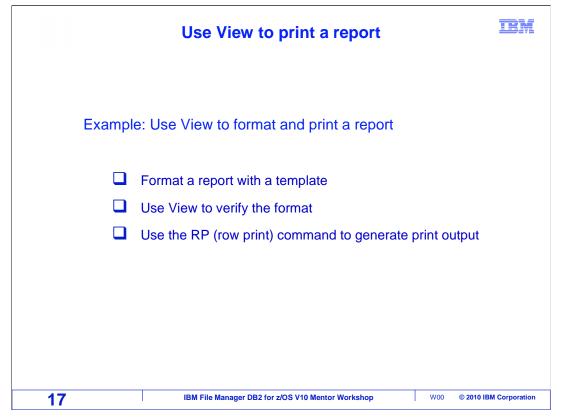
Navigate to your sysout viewer. This example shows SDSF. The sysout output will be written to your TSO address space. Select your TSO ID with a "?". Press Enter.

DATA SET DI NPUT ===> ME StepNa GGLG JES2 CL JES2	SPLAY - Ju		з (т	SU00229)	DATA	SET DISPLAYED
IE StepNa SGLG JES2	ame ProcSt					SCROLL ===> PAGE
		ep borb	Owner	C Des	t	Rec-Cnt Pag
L JES2		່ 2	TSS13	Z		2
			TSS13	Z		147
MSG JES2			TSS13	Z		2 48
F2=SPL		=END		RETURN	F5=IFIN	D F6=B Enter

Sysout is visible under the job data display. It will be in the class that was specified in the print option settings in File Manager DB2. Here it is in class A. Select the sysout entry with an "S" line command. Press Enter.



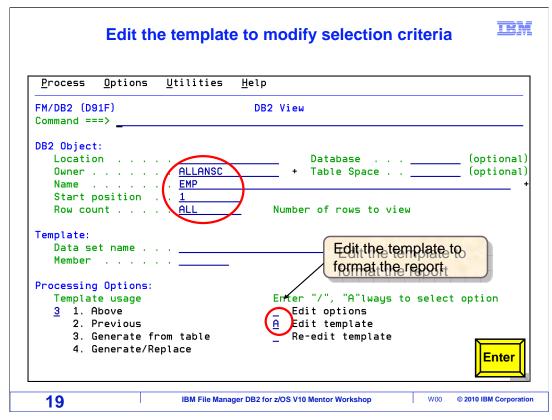
Print output is displayed.



This section will cover using the View panel to format a report using a template. The format will be verified and the row print command will be used to generate print output.

<u>Process</u> Opti	ons <u>U</u> tilities <u>H</u> elp Primary Option Menu	
Command === 1 0 Settings 1 View 2 Edit 3 Utilities 4 SQL 5 DB2I 6 Command X Exit	Set processing options View DB2 object Edit DB2 object Perform utility functions Prototype, execute and analyze SQL Start DB2 Interactive Enter and execute a DB2 Command Terminate FM/DB2	User ID . : TSS13 System ID : STLABF6 Appl ID . : FMN2 Version . : 10.1.0 Terminal : 3278A Screen . : 1 Date : 2010/03/24 Time : 04:23 DB2 SSID : <u>D91F</u> SQL ID <u>TSS13</u> +

Select View, option 1, from the File Manager DB2 primary option menu. Press Enter.



From the DB2 View panel, select the object to be printed. Select "Edit template" option to modify the selection criteria. Press Enter.

		election criteria ect all columns			
<u>P</u> rocess <u>O</u> pti	ons <u>U</u> tilities <u>H</u>	elp			
FM/DB2 (D91F) Command ===>	Column	Selection/Edit		_	Line 1 of 14 Scroll <u>PAGE</u>
TABLE ALLANSC.E	MP ection Crit eria	- Enter selection	crito	ria	
1 Sel firstnme		De-select all co			
		-			
Cmd Seq SHE CL#	Column name	Tip: Sometimes	s it is	easie	r to pr A
\sim	**** Top of data	* clear the select	ion fo	or ALL	of
	EMPNO	the columns firs	st		
	FIRSTNME				
	MIDINIT	CHARACTER (1)		None	
\$ 4	LASTNAME WORKDEPT	VARCHAR (15) CHARACTER (3)	Y	None Null	
	PHONENO	CHARACTER (4)	Ý	Null	
	HIREDATE	DATE	Ý	Null	
	JOB	CHARACTER (8)	Ý	Null	
	EDLEVEL	SMALLINT	Ý	Null	
	SEX	CHARACTER (1)	Ý	Null	
	BIRTHDATE	DATE	Ý	Null	
S 12	SALARY	DECIMAL(9,2)	Ý	Null	
S 13	BONUS	DECIMAL(9,2)	Y	Null	Enter
C 1/	СОММ	DECIMAL(9,2)	Y	Null	

The Column/Selection/Edit panel is displayed.

Enter selection criteria on the Sel entry line.

Here "firstnme like '%JA%" is entered. This will select rows where the firstnme field contains JA.

By default all the columns will be selected. This is indicated by the S in the column header SHE. To only select a few columns, deselect them all first, then select the fields to be printed.

S* is entered on the first cmd line, on the EMPNO field entry. This will de-select all the columns. Press Enter.

		elect columns eorder fields			TBM
<u>P</u> rocess <u>O</u> ption	ns <u>U</u> tilities	<u>H</u> elp			
FM/DB2 (D91F) Command ===> TABLE ALLANSC.EMP		mn Selection/Edit			ne 1 of 14 croll <u>PAGE</u>
	ction Criteria -	(Use SQL/PF4 for '	full sc	reen edi	t) +
* 1 E 2 F 3 M 55 2 4 L 5 M 55 2 4 L 5 M 5 M 5 M 5 M 5 M 5 M 5 M 5 M	ARREADED FOR A CONTRACT OF A C	CHARACTER (6) Ctionly the columns: t field can be used to	KPS41	None one one	0rder A/D
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The S under the SHE column has been removed from all the column names.

The S is a toggle switch. S with an entry in the SHE field will deselect the column. An S in the entry field with no s in the SHE field, will select the column.

An S is now entered next to the columns to be selected. A single 's', a block SS to SS command, or S followed by a number can be used to select columns. Firstnme, Lastname, Workdept, Phoneno, Job and Edlevel are selected. All three selection techniques are demonstrated.

The Seq field is used to change the sequencing of the columns. Workdept will be in position one, Lastname will be position two, and Firstnme will be position three. All other fields will be numbered starting with four. Press F3 to save changes.

F	ields have	been selected and re Edit two fields	ordere	d	IBM
<u>P</u> rocess <u>O</u> pti	ons <u>U</u> tiliti	es <u>H</u> elp			
FM/DB2 (D91F)		Column Selection/Edit		Line 1	of 14
Command ===> TABLE ALLANSC.E				Scroll	PAGE
Row Sel 1 Sel: <u>WHERE FI</u>		ia (Use SQL/PF4 for fu %JA%'	ill scree	n edit)	+
Cmd Seq SHE CL#	Column name **** Top of		Null De	fault Ord	ler A/D
11	EMPNO	CHARACTER (6)	No	ne	
<u>3</u> S 2	FIRSTNME	VARCHAR (12)	No	ne	
	MIDINIT	CHARACTER (1)	No	ne	
	WORKDEPT	Individual Column Name	s can be	*	
	HIREDATE	modified			
e S 8	JOB	Use the edit command to	select t	them	
▶ > > > > >	EDLEVEL	SMALLINI	Y NU		
	SEX	CHARACTER (1)	Y Nu	u _	
	BIRTHDATE	DATE	Y Nu	··	
	SALARY	DECIMAL(9,2)	Y Nu		nter
	BONUS Comm	DECIMAL (9,2) DECIMAL (9,2)	Y Nu Y Nu	·· -	
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Specific columns have been selected. Fields have been reordered. Column names can be modified. Use the 'e' line command to select the WORKDEPT and the JOB fields. Press Enter.

	Change WORKDEPT to DEPT		- 10
<u>P</u> rocess <u>O</u> ptions	<u>U</u> tilities <u>H</u> elp		
FM/DB2 (D91F) Command ===>	Column Attributes		
Use Attributes: Heading Output width Create Attributes: Filler Action Start character Pattern Repeat user pattern Scrambling Options: Scramble Type 1. Random	CHARACTER(3) DEPT YES or NO Enter "/" to select option Value Column In	_ Out	-
2. Repeatable Usn 3. Translate 4. Exit		F	3

The column attributes screen is displayed. The "Heading" field is used to change the name of the WORKDEPT field to DEPT. Press F3.

	Change JOB to POSITION	I	Bì
<u>P</u> rocess <u>O</u> ptions	<u>U</u> tilities <u>H</u> elp		
FM/DB2 (D91F) Command ===>	Column Attributes		
Use Attributes:	JOB CHARACTER (8) POSITION		
Output width Create Attributes: Filler			
Action Start character Pattern	-		
Repeat user pattern Scrambling Options: Scramble Type _ 1. Random _ 2. Repeatable Dsn	 Enter "/" to select option Value Column In	Out	
3. Translate 4. Exit		F3	
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The column attributes screen is displayed. The "Heading" field is used to change the name of the JOB field to POSITION. Press F3.

All for	matting is complete	9		B
<u>P</u> rocess <u>O</u> ptions <u>U</u> tilities	<u>H</u> elp			
FM/DB2 (D91F) Co Command ===>	lumn Selection/Edit			ne 1 of 14 croll PAGE
1 Sel	<u>A%'</u> Data type(length)	Nu11	Default	
**** Top of d		nutt	Derautt	or der Th
1 EMPNO	CHARACTER (6)		None	
$\overline{}$ 3 S \setminus 2 FIRSTNME	VARCHAR (12)		None	
3 MIDINIT	CHARACTER (1)		None	
2 S 4 LASTNAME	VARCHAR (15)		None	
1 S E 5 WORKDEPT	CHARACTER (3)	Y	Null	
S 6 PHONENO	CHARACTER (4)	Y	Null	
7 HIREDATE	DATE	Y	Null	
S E/ 8 JOB	CHARACTER (8)	Y	Null	
─_ ∖ s∕ 9 EDLEVEL	SMALLINT	Y	Null	
10 SEX	CHARACTER (1)	Y	Null	
11 BIRTHDATE	DATE	Y	Null	
12 SALARY	DECIMAL(9,2)	Y	Null	
13 BONUS	DECIMAL(9,2)	Y	Null	F3
14 COMM	DECIMAL(9,2)	Y	Null	

The Column Selection/Edit panel is redisplayed.

The selection criteria field has WHERE FIRSTNAME LIKE '%JA%' in it.

Fields have been ordered 1 WORKDEPT, 2 LASTNAME, and 3 FIRSTNME.

Only 6 fields have been selected.

All formatting is complete. Press F3 to save the template.

	Save the template Saved templates can be used again	IBM
F C T - 1 C	Command ===> To discard changes to your template, press PF12/Cancel. To use changes without saving, press PF6/RunTemp. To save changes, type a data set and member name below, then press PF3/Exit. Data set name 'TSS13.ADLAB.TEMPLATE' Member	 D
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F3 on the previous panel displays the Template Save panel. Enter the data set and member name to save the template. F12 will cancel, F6 will run temporary.

The name of the template library, along with a member name of janames is entered. Press F3 to save.

	s <u>O</u>	ptions <u>U</u> tiliti	es <u>H</u> elp				
FM/DB2 Command 3 rows	X	<u>f</u> 5	Table Vi	ew	-	Scroll	
***** 000001 000002	DEPT #5 CH(3) <-N **** D11 D21 E21	LASTNAME #4 VARCHAR(15)	> <+1-> ** JAMES< JAMES< JASON<	#6 CH(4)	EDLEVEL #9 SMINT <+> 16 14		
27			• Manager DB2 for z/OS V		 W00	© 2010 IBM	nter

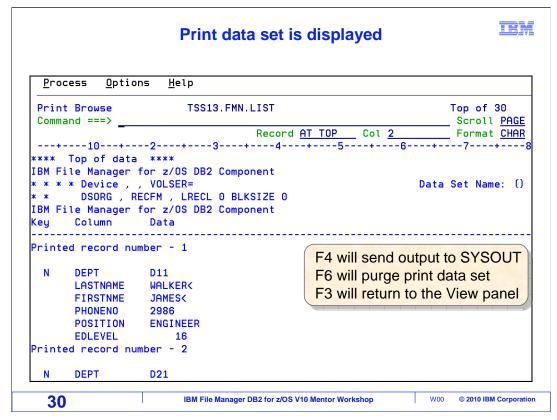
Three rows matched the selection criteria and were fetched. Only the selected columns are displayed, and in the order that was specified. Type FS on the command line to switch to format single. Press Enter.

Comma	ess <u>O</u> ption 2 (D91F) nd === <u>rp 3</u>		The RP (row print) line T command generates the report 1 of 3
	ALLANSC. EHP		Format <u>SNGL</u> Top Line is 1 of 6 in Row 1
Key N ***	Column DEPT LASTNAME FIRSTNME PHONENO POSITION EDLEVEL End of recor	Data D11 WALKER< JAMES< 2986 ENGINEER 16 d ***	RP command will print the report in the same format (SNGL or TABL) currently displayed

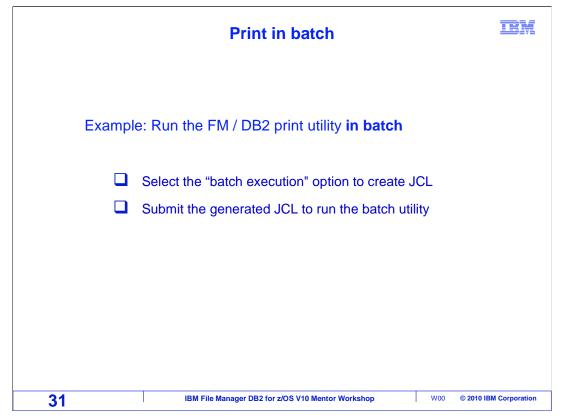
The view has switched to single format. RP 3 has been typed on the command line. This will issue the row print command, for 3 rows. RP will print the report in the same format (table or single), as is currently being displayed. Press Enter.

			have been printed the print data set		IBM
FM/DI Comm	cess <u>O</u> ptions B2 (D91F) and === <u>pb</u> E ALLANSS.EMP		nt Browse) comman play the print data se		record(s) printed Scroll PAGE Format <u>SNGL</u> in Row 1
Key N	Column DEPT LASTNAME FIRSTNME PHONENO POSITION EDLEVEL End of record	Data D11 WALKER< JAMES< 2986 ENGINEER 16 ***			
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A message displays in the right corner of the screen indicating rows have been written to the print data set. Use the PB (Print Browse) command to view the print data set. PB is entered on the command line and Enter is pressed.



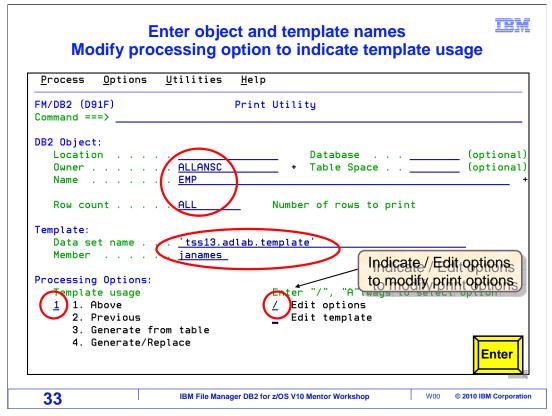
The print data set is displayed. Output format is the same as the view, single. F4 will send output to SYSOUT, F6 will purge the output in the print data set, F3 will return to the view panel.



The print utility can also be run as a batch job. Batch execution will be selected. File Manager will automatically generate the JCL. The batch JCL can be submitted and saved, or just saved.

	Navigate to Utilities, Pr	int IBN
Process Opt FM/DB2 (D91F) Command === 3	ions <u>U</u> tilities <u>H</u> elp Primary Option Menu	
0 Settings 1 View 2 Edit 3 Utilities 4 SQL 5 DB2I 6 Command X Exit	Set processing options View DB2 object Edit DB2 object Perform utility functions Prototype, execute and analyze SQL Start DB2 Interactive Enter and execute a DB2 Command Terminate FM/DB2	User ID . : TSS13 System ID : STLABF6 Appl ID . : FMN2 Version . : 10.1.0 Terminal : 3278A Screen . : 1 Date : 2010/03/24 Time : 04:32 DB2 SSID . <u>D91F</u> SQL ID <u>TSS13</u> +
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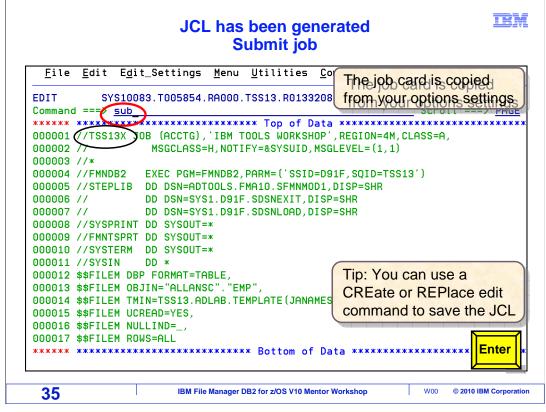
Navigate to Utilities, then print. Short cut 3.1 has been entered on the command line. This is the same as typing 3, then Enter, then 1. 3.1 will go directly to the Utilities print option panel. Press Enter.



Enter the object to be printed. In this example a template will be used. The template data set and member name is typed into the Template fields. The JANAMES member that was created to select names that started with JA is being used. Processing options are changed to 1 Above. Edit options are selected by entering a slash in that field. Enter is pressed.

Print options are displayed IBM Indicate Batch execution				
<u>P</u> rocess <u>O</u> ptions	<u>U</u> tilities	<u>H</u> elp		
FM/DB2 (D91F) Command ===>	Pri	nt Utility Options		
Processing Options: Print mode <u>1</u> 1. Table 2. Single		Null Column Indicator: Display		
Enter "/" to sele	'n			
✓ Use uncommitte _ Print HEX repr				
			F3	

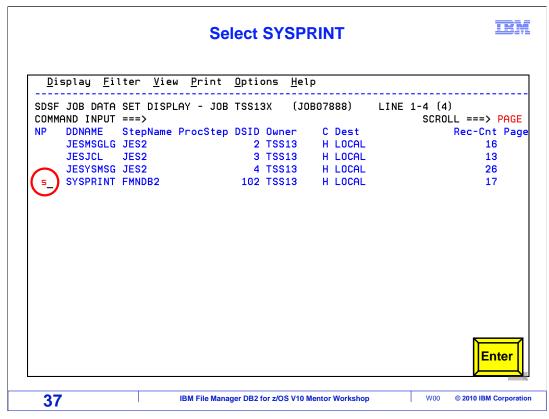
The Print Utility Options panel is displayed. Processing Option Print mode can be modified from 1 Table to 2 Single. Batch execution has been selected by entering a slash in the field. Press F3 to return to the Print utility panel.



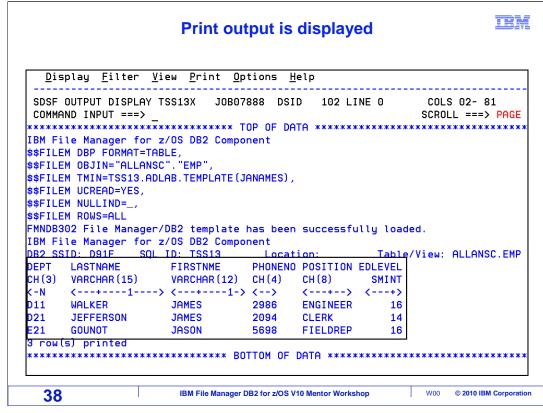
File Manager DB2 has generated the JCL to print the EMP table using the JANAMES template. Type SUB on the command line and press Enter.

J	bb display in SYSOUT vie Select job with ?	wer IBM
	TSS13 15 EXECUTION	LINE 1-2 (2) SCROLL ===> PAGE os SAff ASys Status F6 F6 273
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The job has completed. Navigate to your SYSOUT viewer (SDSF in this example). Enter a ? next to the jobname. Press Enter.

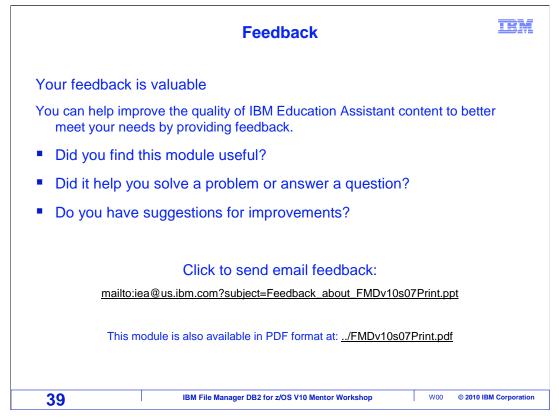


Select the SYSPRINT by entering an 's' in the line prefix area. Press Enter.



Print output is displayed in SYSOUT.

This ends the section on printing from File Manager DB2.



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