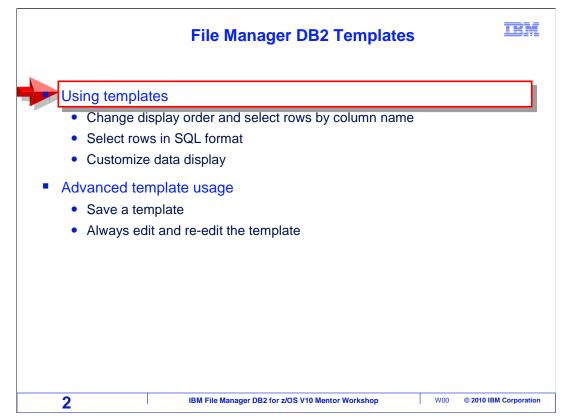
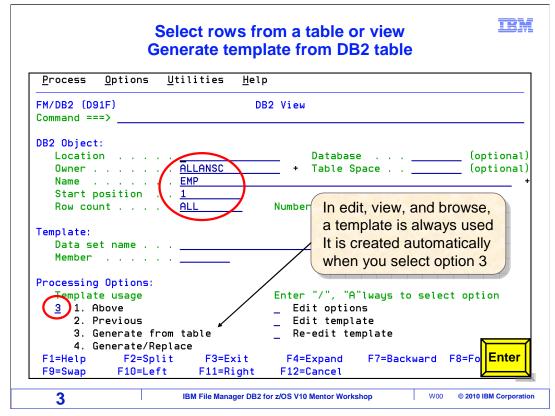


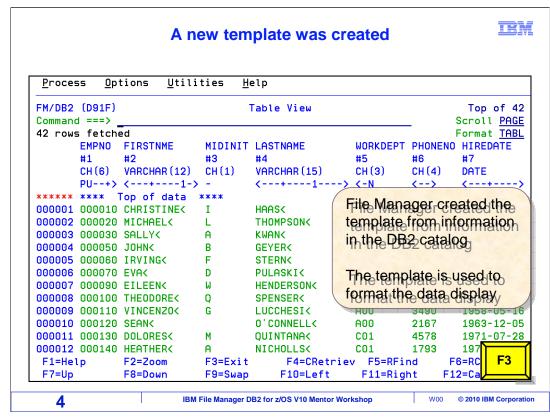
This is the tutorial for the DB2[®] feature of IBM's File Manager for z/OS[®], one of the IBM zSeries[®] problem determination tools.



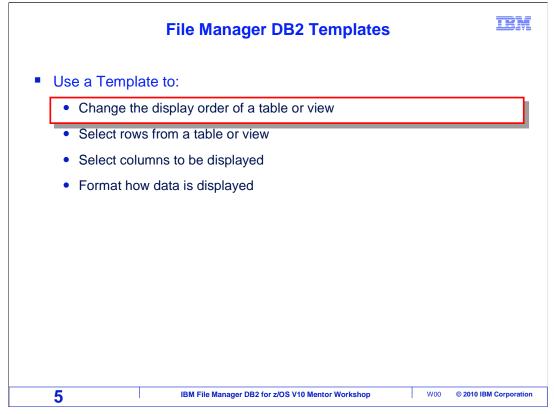
A template is used to change the display order of a table or view, select the rows to work with, select columns, and format data. A template can be used with edit, view, browse, and some of the utilities. This section will cover how to use templates while using the editor or viewer. The techniques described for edit and view can also be used with the other utilities.



When using the editor and viewer, a template is always being used. A template is created automatically. In this example, the viewer will be started. The DB2 object information is entered. The Template Usage setting default is option 3. This tells File Manager to create a new template based on information contained about the table in the DB2 catalog. The default setting will be used. Press Enter.



And the viewer is displayed. A template was created automatically. The template controls which rows are selected, and which columns are displayed. By default, all rows are selected and all columns are displayed. F3 to exit.



In this section, you will see how to change the display order of a table or view.

	Change the display order Generate template from DB2 table									
<u>P</u> rocess <u>O</u> p	tions <u>U</u> ti	lities <u>H</u> elp)							
FM/DB2 (D91F) Command ===>		DE	32 View							
Name Start posi Row count	<u>A</u> <u>E</u> tion <u>1</u>	MP		se Space ws to view						
Template: Data set n Member .	ame									
	sage e ious rate from t		Enter "/", " Edit opti Edit temp Re-edit t	late	ct option					
4. Gene F1=Help F8=Forward		F3=Exit	F4=Expand F11=Right	F6=Select F12=Cancel	F7=B; Enter					
6		BM File Manager DB2	for z/OS V10 Mentor Wo	kshop W00	© 2010 IBM Corporati					

In this example, the viewer will be started.

The owner and name of the DB2 table has been entered. The "Start position" is set to one, and the "Row count" is set to "ALL".

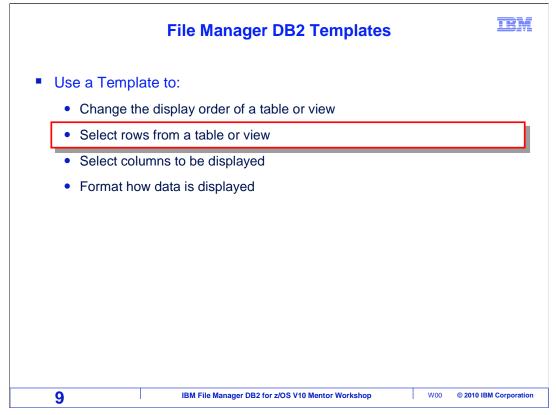
The Template Usage setting will default to option 3, generate from table. This tells File Manager to create a new template based on information contained about the table in the DB2 catalog. Edit the template has been selected with a slash, to indicate a change will be made to the generated template before the table is displayed. Press Enter.

<u>P</u> rocess <u>O</u>	ptio	ons <u>U</u> tilities <u>H</u> e	elp			
-M/DB2 (D91F) Command ===>			Selection/Edit			ne 1 of 14 croll <u>PAGE</u>
TABLE ALLANS Row S			- (Use SQL/PF4 for fu	ll sc	reen edit	:)
			-			
Cmd Seg SHE (CL#	Column name	Data type(length)	Null	Default	Order A/
		**** Top of data				
S	1	EMPNO	CHARACTER (6)		None	
s	2	FIRSTNME	VARCHAR (12)		None	
S	2	MIDINIT	CHARACTER (1)		None	
S	<u> </u>	LASTNAME	VARCHAR (15)		None	(1)
S	5	WORKDEPT	CHARACTER (3)	Y	Null	\sim
S	6	PHONENO	CHARACTER (4)	Y	Null	
S	- 7	HIREDATE	DATE	Y	Null	
S	8	JOB	CHARACTER (8)	Y	Null	
S	-	EDLEVEL	SMALLINT	Y	Null	
S		SEX	CHARACTER (1)	Y	Null	
S		BIRTHDATE	DATE	Y	Null	
S		SALARY	DECIMAL(9,2)	Y	Null	F6
S		BONUS	DECIMAL(9,2)	Y	Null	
	14	COMM	DECIMAL(9.2)	Y	Null	

The Order field on the right of the screen will be used to modify the display. The Order field that corresponds to the LASTNAME field has been selected with a 1. The A/D field has been set to d for descending. This will order the data based on the value in the LASTNAME field. F6 is pressed to run the template temporarily.

				ASTNAME de	scendiı	ng ord	er 🗷
<u>P</u> roces	s <u>O</u> p	tions <u>U</u> ti	lities	Help			
FM/DB2	(D91F)			Table View			Top of 42
Command	-	_				_	Scroll PAGE
42 rows	s fetche			\frown			Format <u>TABL</u>
	EMPNO	FIRSTNME					HIREDATE
	#1	#2	#3	(#4))	#5	#6	#7
	CH (6)	VARCHAR (12		VARCHAR (15)	CH (3)	CH (4)	DATE
	· · · ·	<1		<>	<-N	<>	<>
*****		Top of data					
		MASATOSHIK	J	YOSHIMURAK	D11	2890	1978-09-15
000002		KIYOSHI<		YAMAMOTO<	D11	2890	1978-09-15
000003		HELENAK		WONG<	E21	2103	1976-02-23
000004		JAMES<	н	WALKER<	D11	2986	1974-07-26
000005		MICHAELK	L	THOMPSONK	B01	1111	1973-10-10
000006		IRVING<	F	STERNK	D11	6423	1973-09-14
000007		MICHELLEK	F	SPRINGER<	E11	3332	1964-09-12
000008		THEODORE<	Q	SPENSER	E21	0972	1980-06-19
		PHILIP<	х	SMITHK	E11	2095	1972-06-19
	000250	DANIELK	S	SMITHK	D21	0961	1969-10-30
000011	000310	MAUDE<	F	SETRIGHT<	E11	3332	19 <mark>64-09-12</mark>
000012		MARILYNK	S	SCOUTTENK	D11	1682	¹⁹ F3
000013		EILEENK	R	SCHWARTZ<	E11	8997	19
000014	000280	ETHELK	R	SCHNEIDERK	E11	8997	19
8			BM File Manager	DB2 for z/OS V10 Mentor Wor	kshop	W00	© 2010 IBM Corporat

The table has been fetched. All rows and columns are displayed. However, the display is presented in LASTNAME, descending order. Press F3 to exit and return to the File Manager DB2 View panel.



This section will cover how to select rows from a table or view using a template.

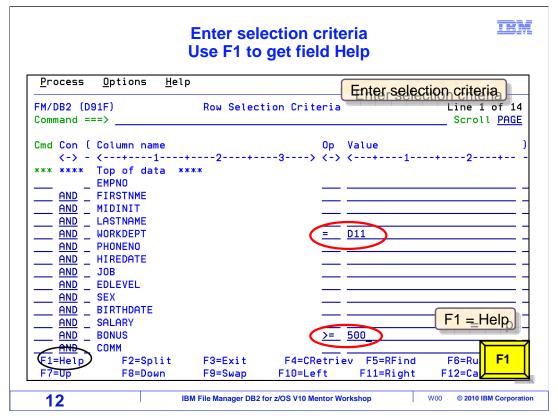
Select rows by column								
Process	<u>O</u> ptions <u>U</u> t	ilities <u>H</u> el	p					
FM/DB2 (D91 Command ===		D	B2 View					
DB2 Object:								
		\frown		e				
			+ Table S	Space	(optional)			
	sition							
Row cour	it	ALL	Number of row	is to view				
Template:		\smile						
	name							
Member								
	Edi	t the templa	te					
Processing								
Template	usage	\backslash	Enter "/", "A	"lways to sele	ct option			
<u>3</u> 1. At	ove		🔪 Edit optic	ons				
2. Pr	evious		[🔶 Edit templ	ate				
3. Ge	nerate from	table	Re-edit te	emplate				
4. Ge	nerate/Repla	ce						
	F2=Split			F7=Backward	F8=Fo Enter			
F9=Swap	F10=Left	F11=Right	F12=Cancel					

File Manager DB2 provides the ability to edit the template, and select certain rows from the database. Select the "Edit template" option from the edit or view panel. Do this by entering a slash in the Edit template field. Press Enter.

	Select o	ption 1	'By Column'	selectio	n	Ξ	BM
<u>P</u> rocess	<u>O</u> ptions <u>U</u> til	ities <u>H</u> e	lp				
FM/DB2 (D91 Command === TABLE ALLAN		ion 1 will ection pan	display,'by,colu el	umn'		ne 1 of Scroll <u>Pf</u>	
	Selection Cri	teria	(Use SQL/PF4 fo	or full scr	reen edi	t)	+
Cmd Seq SHE			Data type(leng	th) Null	Default	Order	A/D
		of data					
<u>s</u>	1 EMPNO		CHARACTER (6)		None		_
S	2 FIRSTNME		VARCHAR (12)		None		_
s	3 MIDINIT		CHARACTER (1)		None		-
<u>s</u>	4 LASTNAME		VARCHAR (15)	V.	None		-
s	5 WORKDEPT 6 PHONENO		CHARACTER (3) CHARACTER (4)	Y	Null Null	_	-
<u> </u>	7 HIREDATE		DATE	Y	Null		-
s	8 JOB		CHARACTER (8)		Null	—	-
s	9 EDLEVEL		SMALLINT	Ý	Null		-
s	10 SEX		CHARACTER (1)	Ý	Null		-
s	11 BIRTHDATE		DATE	Ý	Null		-
s	12 SALARY		DECIMAL(9,2)	Ý	Null		-
F1=Help		F3=Exit	F4=SQL			=Ru Ent	er
F7=Up	F8=Down		•				
11	IBM	/ File Manager DB	2 for z/OS V10 Mentor Work	shop	W00 @	© 2010 IBM Cor	poratio

Since the "Edit template" option was selected, the "column selection and edit" panel is displayed. From here, changes can be made to the template. There are two ways to specify column selection: "By column", and "Freeform". Freeform criteria is done by typing selection criteria directly into the field labeled "Sel" (for selection). Examples of freeform criteria entry will be covered later.

In this example, the "By column" selection method will be used. To do this, type "1" on the command line, and press Enter.



The "row selection criteria" panel is displayed. Rows can be selected based on their data content, by specifying the conditions that are required. In this example, rows are selected where the WORKDEPT column is equal to "D11", AND the BONUS column has a value greater than or equal to 500.

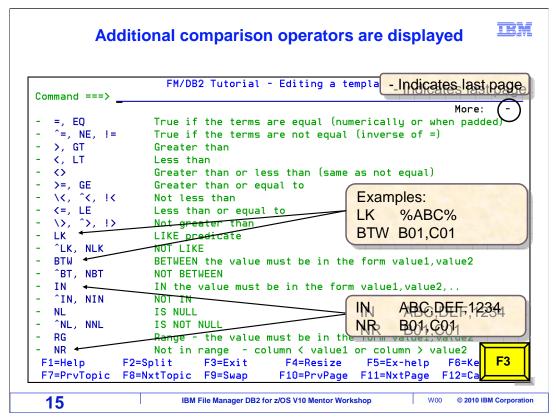
There are many comparison operators that can be used in the field labeled "Op" for operator. To see a list of valid operators, use the help panels. F1 is pressed for help.

	Help is dis	played f	or row selec	tion criteria	IBM
panel and ena panel the SQL If you delete will be delet Expressions e	6 Criteria s entered by s bles you to e where clause all operator ed and the ex	election electing o enter an ex will be c s and valu pression w uno can on	ption 1 from th pression by col reated based up e clauses then ill be editable ly be modified	e column/select: umn. When you ex on the values yo if an expression on the previous using this pane	xit this ou provided. n existed it s panel.
The following selected by r		resented i	n sequence by p	ressing Enter or	r may be
1 General ir 2 Primary co 3 Connectors 4 Parenthesi	mmands (and/or)		5 Column p 6 Operator 7 Value 8 Prefix c		ngth)
F1=Help F7=PrvTopic	F2=Split F8=NxtTopic	F3=Exit F9=Swap	F4=Resize F10=PrvPage		F6=Ke Enter
13	IBM	File Manager DB2	for z/OS V10 Mentor Work	shop W00	© 2010 IBM Corporation

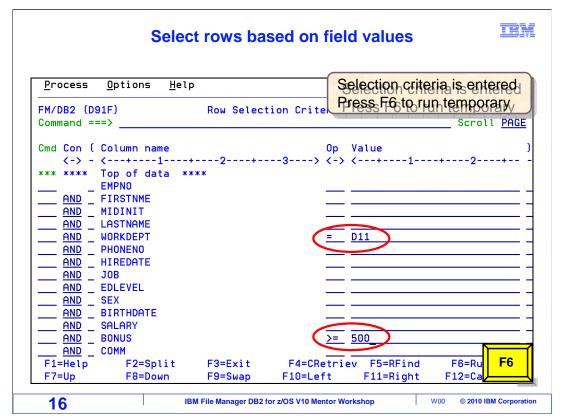
The help menu is displayed. Option 6 (operators) is selected. Press Enter.

Co	mparison operator information is displayed
Command ===>	FM/DB2 Tutorial - Editing + indicates more information More: (+)
Operators	\smile
Operators are supported:	used to create expressions. The following operators are
- =, EQ - ^=, NE, != - >, GT	True if the terms are not equal (inverse of =) Greater than
- <, LT - <> - >=, GE - \<, ^<, !<	
- <=, LE - \>, ^>, !> - LK - ^LK, NLK	Less than or equal to Not greater than LIKE predicate F11 scrolls to the next page
- BTW - ^BT, NBT F1=Help	BETWEEN the value must be in the form value1,value2
14	IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation

A list of operators is displayed. Common comparators, like equal to, not equal to, greater than, between and not between, as well as others, are valid. More+ in the upper right corner of the panel indicates there is additional information available. Use F11 to scroll forward in the list.

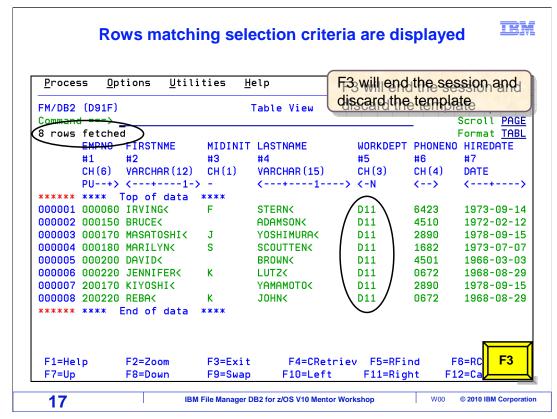


The next page of comparison operators is displayed. There are some other useful operators such as "Like", or "LK", which will perform a string comparison with optional wildcards. "Between" or "BTW" selects data within a range, "IN" performs a substring search, and "NR" searches for values outside of a range. F3 to exit from the help panels.



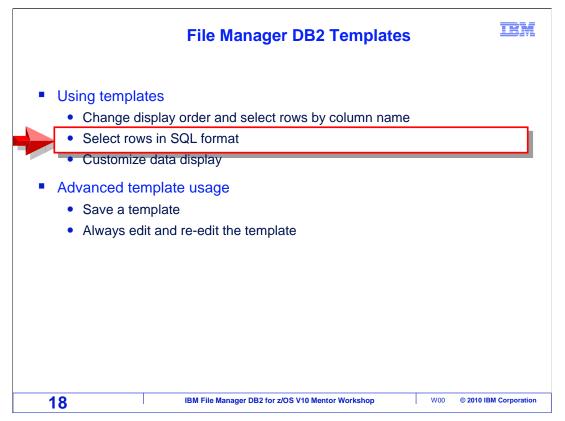
Back to the "row selection criteria" panel. Specify AND and OR conditions by changing the conditions in the column labeled "Con" to OR or AND. Also, conditions can be grouped with parentheses. The left parenthesis column is between the "Con" and the "Column name" columns. The right parenthesis column is all the way to the right side of the panel. Enter left and right parentheses to group conditions. Nested groupings can be specified using these fields.

Repeat and move lines by using line commands like R for repeat and M for move in the command column. Once all criteria has been specified, continue with an F3 or F6. F3 will exit. But in this example, F6 will be used. It is set to "Run Temporary", which means that the template will be used without saving it. Press F6.



The viewer is displayed. Only rows that met the selection criteria were retrieved. All the rows have a value of "D11" in the WORKDEPT column and a value greater than or equal to 500 in the BONUS column.

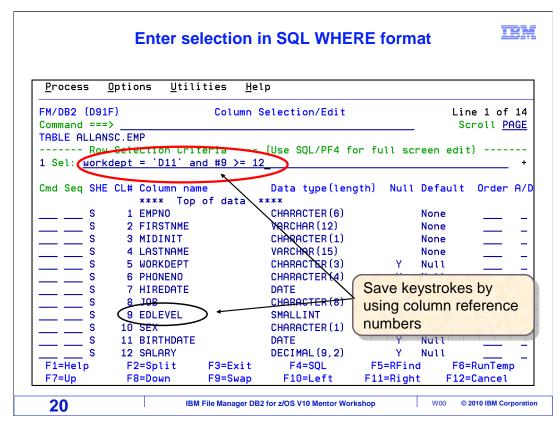
That is one way to select rows. "By column" selection in the template is easy to use. It is intuitive, and no knowledge of SQL syntax is required. F3 to exit.



This section will cover another way to select rows by using the "Freeform selection". The selection criteria is specified in SQL WHERE clause syntax.

Select rows using SQL								
<u>P</u> rocess <u>O</u> ptions <u>U</u> t	ilities <u>H</u> elp							
FM/DB2 (D91F)	DB2 View							
Command ===>								
DB2 Object:								
Location	Database (optional)							
Owner								
	EMP							
Start position	1							
Row count	ALL Number of rows to view							
Template:								
Data set name								
Member	t the templete							
	t the template							
Processing Options:	Entern "//" "O"lucure to collect ention							
Template usage	Enter "/", "A"lways to select option							
2. Previous	<u>Z</u> Edit template							
3. Generate from								
4. Generate/Repla								
F1=Help F2=Split								
F9=Swap F10=Left	F11=Right F12=Cancel							
10								
19	IBM File Manager DB2 for z/OS V10 Mentor Workshop W00 © 2010 IBM Corporation							

Start the viewer. Select the object by entering the information in the DB2 object fields. Select generate template from table with a three, and select the "Edit template" option with a slash. Press Enter.

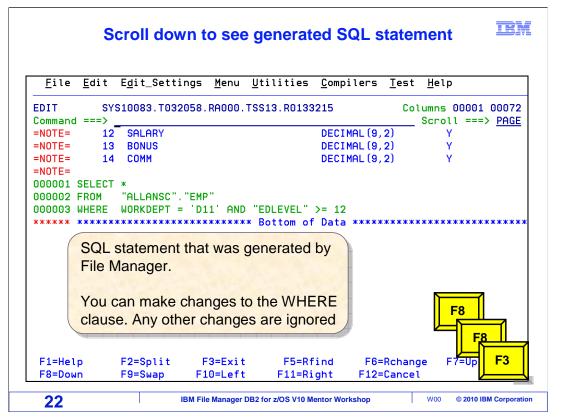


The Template Edit panel is displayed. To enter Freeform selection, type criteria on the Selection line. In this example, rows are selected where WORKDEPT is equal to "D11" and the EDLEVEL (indicated by using #9), is greater than 12. Save keystrokes by using column reference numbers instead of column names. Full column names can be used if preferred.

It is important to understand that the syntax of freeform criteria is the syntax of an SQL WHERE clause. For those that are familiar with coding SQL statements, the preference might be to use the freeform selection method.

_							
<u>P</u> rocess	<u>O</u> ptions <u>U</u> tili	ities <u>H</u> e	lp				
FM/DB2 (D9	1F)	Column	Selection/Edit		Li	ne 1 of	14
Command ==	=/ <u>sql</u>				S	croll <u>PA</u>	IGE
TABLE ALLA	NSC EMP						
Ro	w Selection Crit	teria	(Use SQL/PF4 fo	or full sc	reen edi	t)	
1 Sel: wor	<u>kdept = 'D11' ar</u>	<u>nd #9 >= 1</u>	2				+
			N N N N				~ ~
Cmd Seq SH	E CL# Column nam		Data type(leng	gth) Null	Default	Order	HZ
		of data	****				
\$	1 EMPNO		CHARACTER (6)		None		_
<u> </u>	2 FIRSTNME		VARCHAR (12)		None		_
<u> </u>	3 MIDINIT		CHARACTER (1)		None		_
<u> </u>	4 LASTNAME		VARCHAR (15)		None	_	_
<u> </u>	5 WORKDEPT		CHARACTER (3)	Y	Null		_
s	6 PHONENO		CHARACTER (4)	Y	Null		_
S	7 HIREDATE		DATE	Y	Null		_
S	8 JOB		CHARACTER (8)	Y	Null		_
S	9 EDLEVEL		SMALLINT	Y	Null		_
S	10 SEX		CHARACTER (1)	Y	Null		_
S	11 BIRTHDATE		DATE	Y	Null		_
S	12 SALARY		DECIMAL(9,2)	Y	Null		
F1=Help	F2=Split	F3=Exit	F4=SQL	F5=RFin	d F6	=Ru <mark>Ente</mark>	er
F7=Up	F8=Down	F9=Swap	F10=Left	F11=Righ	E 10	=Ca	

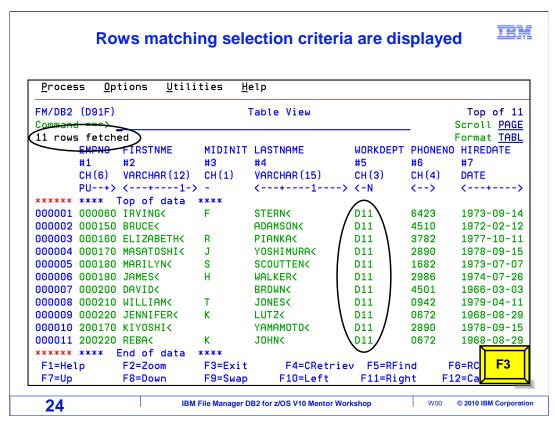
After entering selection criteria, but before using the template, view the SQL statement that File Manager DB2 will use to retrieve data. Use the SQL primary command, entered on the command line. Press Enter.



The generated SQL statement is displayed in the ISPF editor. If desired, modification to the WHERE clause of this statement can be done to change the selection criteria. That can be useful in some cases for complex and lengthy criteria, especially if it goes on for lines and lines. Any changes to anything other than the WHERE clause are ignored. Press F3 to return to the previous panel.

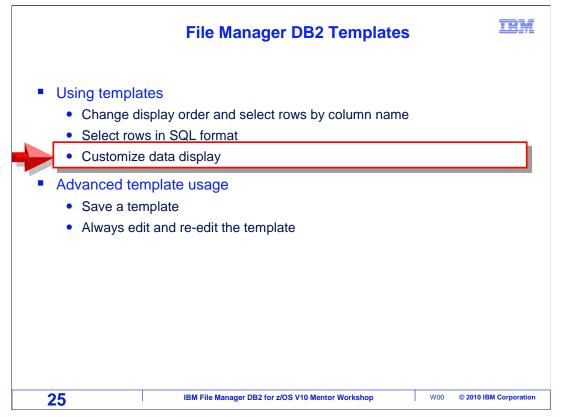
		Sele	ect run temp			
<u>P</u> rocess	<u>O</u> ptions <u>U</u> til	ities <u>H</u> e	elp			
FM/DB2 (D91	F)	Column	Selection/Edit		Lir	ne 1 of 14
Command === TABLE ALLAN					Sc	croll <u>PAGE</u>
	E WORKDEPT = '		"EDLEVEL" >= 12			+
Cmd Seq SHE	CL# Column na **** Top	me of data	Data type(ler	ngth) Nu	ll Default	Order A/
s	1 EMPNO	er data	CHARACTER (6)		None	
— — š	2 FIRSTNME		VARCHAR(12)		None	
s	3 MIDINIT		CHARACTER (1)		None	
s	4 LASTNAME		VARCHAR(15)		None	
<u> </u>	5 WORKDEPT		CHARACTER (3)	Y	Null	
s	6 PHONENO		CHARACTER (4)	Y	Null	
S	7 HIREDATE		DATE	Y	Null	
S	8 JOB		CHARACTER (8)	Y	Nul 1	
S	9 EDLEVEL		SMALLINT	PF6 =	Run temp	orary
S	10 SEX		CHARACTER(1)			-
S	11 BIRTHDATE		DATE		t save ten	inplate)
S	12 SALARY		DECIMAL(9,2)	Y	Null	
F1=Help	F2=Split	F3=Exit	F4=SQL	F5=RF:		RunTemp
F7=Up	F8=Down	F9=Swap	F10=Left	F11=Rig	ght F1 2 -	F6

All selection criteria has been entered. The template is ready to run. F6, which is set to "Run temporary", is pressed.



The template has been run and the results are displayed in the viewer. Only the rows that met the selection criteria are displayed.

You have seen two ways to use a template to select rows. The "by field" selection and the "freeform" selection. These are two methods available to perform the same task. Both methods produce the same results, so the method used is personal preference. F3 to exit.



This section will cover how to customize a template to control how data is displayed.

Customize the data display								
<u>P</u> rocess <u>O</u> ptions	s <u>U</u> tilities <u>H</u> el	.p						
FM/DB2 (D91F) Command ===>	[)B2 View						
DB2 Object:								
Location			e					
Owner		+ Table S	pace	(optional)				
Name				·				
Start position								
Row count	. <u>ALL</u>	Number of row	s to view					
Template:								
Data set name .								
Member								
	Edit the templa	te						
Processing Options								
Template usage	N	\	"lways to seled	t option:				
(<u>3</u>)1. Above		Edit optio						
2. Previous		Edit templ						
3. Generate		Re-edit te	mplate					
4. Generate/	•	E4-Expand	F7=Backward	ER-ED Enter				
	Split F3=Exit .eft F11=Right	F4=Expand F12=Cancel	r/-backward					
га-эмар гій-с	leit FII-RIGHT	riz-cancel						

The viewer is started again with the "edit template" option selected. Enter.

	Reorde	r fields	s and deseled	ct fields		Ι	BI
<u>P</u> rocess (ies <u>H</u> e	lp				
FM/DB2 (D916	=)	Column	Selection/Edit			Line 1 of	14
Command ===)			Solo	ction crite	ria ie	ontional	
TABLE ALLANS						• •	
	Selection Crite dept > 'DO1' and		Use 301/PF4 fo ot < 'F01'	or full scr	reen e	dit)	+
Cmd Seq SHE	CL# Column name		Data type(leng	yth) Null	Defau	ılt Order	A/
\mathbf{a}	**** Тор о	f data	****				
<u>2</u> S	1 EMPNO		CHARACTER (6)		None		
<u>3</u> S	2 FIRSTNME		VARCHAR (12)		None		_
<u>s</u> S	3 MIDINIT		CHARACTER (1)		None		_
<u> </u>	4 LASTNAME		VARCHAR (15)		None		_
<u>h_ 1_</u> S	5 WORKDEPT		CHARACTER (3)	Y	Null		_
S	6 PHONENO		CHARACTER (4)	Y	Null		_
<u>s</u> S	7 HIREDATE		DATE	Y	Null		_
s s	8 JOB		CHARACTER (8)	Y	Null		
s s	9 EDLEVEL		SMALLINT	Y	Null		_
S	10 SEX		CHARACTER (1)	Y	Null		
S	11 BIRTHDATE		DATE	Y	Null		
S	12 SALARY		DECIMAL(9,2)	Y	Null		
F1=Help	F2=Split	F3=Exit	F4=SQL	F5=RFind	ł	F6=Ru Ent	ter
F7=Up	F8=Down	F9=Swap	F10=Left	F11=Righ	: F	12=Ca	
27	IBM F	ile Manager DE	32 for z/OS V10 Mentor Work	shop	W00	© 2010 IBM Cor	rporat

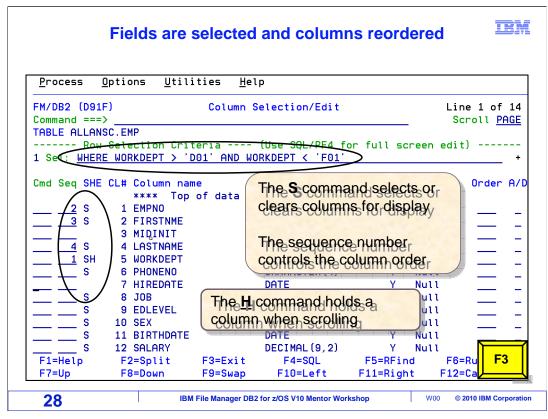
The "column selection and edit" panel is displayed. From this panel you can control which rows are selected. Optionally, selection criteria can be entered on the Sel line. Workdept > D01 and workdept < F01 has been entered.

By default, all columns will be displayed.

The "cmd" and "seq" columns on the right side of the screen can be used to modify this. The letter "S" shown under the "SHE" column header means that each column is selected for display. Toggle column display on and off with S line commands. S line commands were entered in the cmd field, next to the MidINIT and HIREDATE columns. Since those columns are on now, the S in the command field will turn them off. If a column is already off, then S will turn it on.

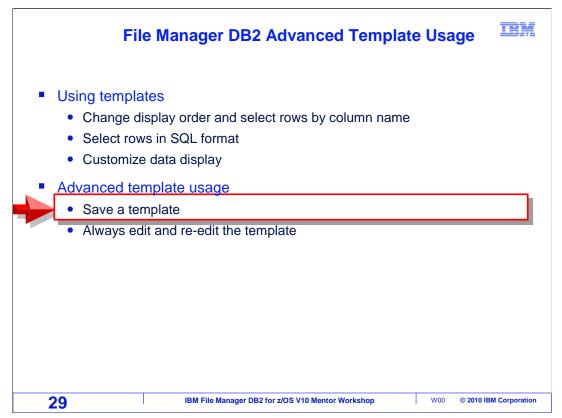
Here is a tip. If there are a large number of columns in the table, and only a few will be selected, then it might be easiest to toggle all of the columns off first. The easiest way to do that is by using an S* line command on the top data line. That will toggle all columns off. Then select just the few columns with the 'S' line command.

An "H" line command was entered in the cmd field, on the WORKDEPT column. That will make it a "held" column. The result of this will be shown shortly. Also, the order of display is changed. Sequence numbers have been entered next to a few of the columns. So in this example, WORKDEPT will be displayed as the first column, as a one has been entered in the seq field. EMPNO as the second, with a two, and FIRSTNME as the third, with a three. Press Enter.



Some of the columns are no longer selected. The S indicates whether the column is selected for display or not. The S command is a toggle switch.

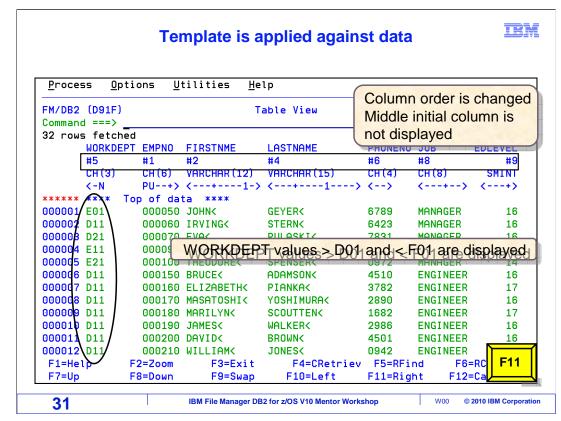
F6 can be used to run the template temporarily. A temporary template is not saved, and it is lost when you exit the session. The template may need to be saved, for instance, if it might be used again. Use F3 to exit, instead of F6, to be prompted to save the template. Press F3.



F6 was used previously to run a template in 'temporary' mode. The template was not saved when the edit / view session was ended. On the previous slide F3 Exit was pressed. This will allow the template to be saved and reused. The following slides will demonstrate this function. Typing SAVEAS on the Column Selection/Edit panel will generate the same entry panels as the F3 key.

		inter the c	lata set and	member nar	ne				
	_		Template Sa						
– F	Command ===>					- -			
Ċ									
Т	To discard ch	anges to you	r template, pre	ss PF12/Cancel.					
- 1	To use change	s without sa	ving, press PF6	/RunTemp					
	ro use change	.5 wrthout 50	ving, press rre	indiri cilip i					
С	To save changes, type a data set and member name below, then press								
	PF3/Exit.								
	Data set name	adlab.temp	late(emp01)						
	Member								
	Member		F3=Fxit	F6=RunTemp	F7=Backwar				
	Member F1=Help		F3=Exit F12=Cancel	F6=RunTemp	F7=Backwar	F3			

When F3 Exit is pressed from the Column Selection panel, this panel is displayed. This panel allows the template to be saved. Type in a PDS member name where you want to store the template. Templates can be stored in any file or PDS with 80 byte records. Personal template libraries can be created. Often, template libraries that are shared within a group are created. That way common templates are accessible to everyone within the group. Press F3 to continue.



The template was saved, and the viewer is displayed, using the new template. Only the rows and columns selected in the template are displayed. The Middle initial column is not shown. The columns are displayed in the specified order, WORKDEPT is first, EMPNO is second. Only rows with a WORKDEPT value > D01 and < F01 are displayed. The WORKDEPT column was held. When F11 is pressed to scroll to the right, this field will stay on the screen and the other fields will scroll. Press F11.

WORK	DEPT i	s held on th	ne screen a	as other f	ields scroll 🖽
<u>P</u> rocess <u>O</u> p	otions <u>U</u>	tilities <u>H</u> e	lp		
FM/DB2 (D91F)		т	able View		Top of 32
Command ===>					Scroll PAGE
TABLE OLLANS	EMP				Format TABL
WORKDE	EPT SEX	BIRTHDATE	SALARY	BONUS	COMM
#5	#10	#11	#12	#13	#14
🔪 СН (З)	/ CH(1)		DEC(9,2)	DEC(9,2)	DEC(9,2)
	-		+1> <	+1> <-	+1>
***** ****	Top of da	ta ****			
000001 E01	М	1925-09-15	40175.00	800.00	3214.00
000002 D11	М	1945-07-07	32250.00	600.00	2580.00
000003 D21	F	1953-05-26		700.00	2893.00
000004 E11	F	1941-05-15	29750.00	600.00	2380.00
000005 E21	М	1956-12-18	26150.00	500.00	2092.00
000006 D11	М	1947-05-17	25280.00	500.00	2022.00
000007 D11	F	1955-04-12	22250.00	400.00	1780.00
000008 D11	М	1951-01-05	24680.00	500.00	1974.00
000009 D11	F	1949-02-21	21340.00	500.00	1707.00
000010 D11	М	1952-06-25	20450.00	400.00	1636.00
000011 D11	М	1941-05-29		600.00	2217.00
000012 D11	М	1953-02-23	18270.00	400.00	1462.00
F1=Help	F2=Zoom	F3=Exit	F4=CRetr:	iev F5=RFir	nd F6=RC <mark>F3</mark>
F7=Up	F8=Down	F9=Swap	F10=Left	F11=Righ	nt F12=Ca

WORKDEPT stayed on the screen, the rest of the columns scrolled. That is because WORKDEPT was made a "held" column in the template. There can be one or more "held" columns. F3 to exit.

	After a te	emplate is a	saved it car	h be reused	
<u>P</u> rocess <u>O</u>	otions <u>U</u> ti	lities <u>H</u> elp			
FM/DB2 (D91F) Command ===>		DB	2 View		
DB2 Object:					
· · · · · · · · · · · · · · · · · · ·	<u>.</u>		Databas	e	(optional
Owner	<u>A</u>	LLANSC	+ Table S	pace	(optional
Name	<u>E</u>	MP			
	ition <u>1</u>				
Row count	<u>А</u>	<u>LL</u>	Number of row	s to view	
Template: Data set (Member .		TSS13.ADLAB.T MP01	EMPLATE'		
Processing 0					
Temptate	lsage			"lways to selec	t option
$\left(\begin{array}{c} 1 \end{array}\right)$ 1. Abov	/e	(Edit optio		
2. Pre			<u>/</u> Edit templ		
	erate from t		Re-edit te	mpiate	
	erate/Replac		E4-Expand	F7=Backward	ER-EO Enter
		F11=Right		i r-baukwar'u	
10-0wap	110-Left	i 11-hight	112-cancet		

A saved template can be reused. The template that was created and saved is filled into the Template field on the view screen. The Processing Options, Template usage field has been changed to "1" (for above). File Manager will use the template that is specified in the template dataset name and member fields. An existing template can be reused to take advantage of selection and formatting that it contains.

A copy of an existing template will be created. Start with an existing template and make a few changes to the selection or formatting. This will save time in the creation of templates. The template to be copied is specified in the template field. The Edit template field has been selected with a slash in the field. Press Enter.

	Changes	were ma	ade to selec	tion criteria	IBM
Process (FM/DB2 (D91) Command ===: TABLE ALLANS	=) Saveas_	ities <u>H</u> e	Use	the saveas co a template w e	
Row	Selection Cri		(Use SOL/PF4 f DRKDEPT < 'e01'	full screen	edit)
Cmd Seq SHE 2 S 3 S 4 S 1 SH S S S S S S S S S S S S S S	CL# Column na **** Top 1 EMPNO 2 FIRSTNME 3 MIDINIT 4 LASTNAME 5 WORKDEPT 6 PHONENO 7 HIREDATE 8 JOB 9 EDLEVEL 10 SEX 11 BIRTHDATE 12 SALARY F2=Split F8=Down		CHARACTE VARCHAR (CHARACTE CHARACTE CHARACTE AS	gth) Null Def ese fields can ed to control fi ler	
34	IBN	I File Manager DB2	2 for z/OS V10 Mentor Wo	kshop W0	0 © 2010 IBM Corporation

In the template editor, changes have been made to the existing template. The WORKDEPT < F01 has been changed to WORKDEPT < E01. To save the template with a new name, type SAVEAS on the command line, and press Enter.

			Template Sa	V0				
_	Command ===>		Temptate ou			_ -		
F								
С Т -	To discard ch	anges to you	r template, pre	ss PF12/Cancel.				
1	To use change	es without sa	ving, press PF6	/RunTemp.				
С	To save changes, type a data set and member name below, then press PF3/Exit.							
	Data set name Member		AB.TEMPLATE'					

The template save panel is displayed. Specify the new name, and press F3 to continue.

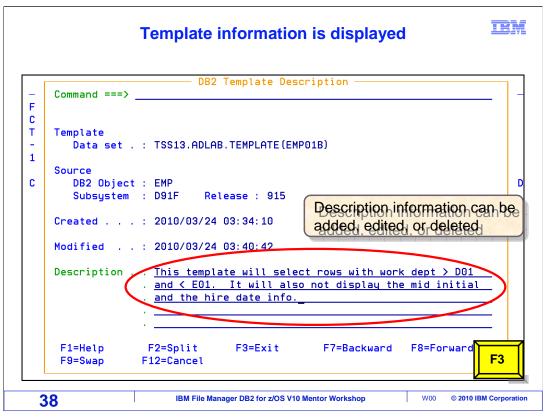
		Templa	te was saved			B
<u>P</u> rocess	<u>O</u> ptions <u>U</u> tili	ties <u>H</u> el	p			
FM/DB2 (D91		Column S	Selection/Edit		· ·	plate save
Command === TABLE ALLAN						Scroll <u>PAG</u>
Row			(Use SQL/PF4 for DRKDEPT < 'E01'	full scr	reen edi	it)
Cmd Seg SHE	CL# Column nam	e	Data type(lengt	th) Null	Default	t Order A/
ond ocq one			xxxx	ing nate	bereut	e or der m
2 S	1 EMPNO		CHARACTER (6)		None	
<u> </u>	2 FIRSTNME		VARCHAR (12)		None	
	3 MIDINIT		CHARACTER (1)		None	
4 S	4 LASTNAME		VARCHAR (15)		None	
<u> </u>	5 WORKDEPT		CHARACTER (3)	Y	Null	
S	6 PHONENO		CHARACTER (4)	Y	Null	
	7 HIREDATE		DATE	Y	Null	
<u> </u>	8 JOB		CHARACTER (8)	Y	Null	
s	8 JOB 9 EDLEVEL		CHARACTER(8) SMALLINT		Null Null	_ :
s s						=
s	9 EDLEVEL		SMALLINT	Ý	Null	; ;
s	9 EDLEVEL 10 SEX		SMALLINT CHARACTER(1)	Y Y	Null Null	
	9 EDLEVEL 10 SEX 11 BIRTHDATE	F3=Exit	SMALLINT CHARACTER(1) DATE	Y Y Y	Null Null Null Null	6=RunTemp

The column selection/edit panel is redisplayed. A message 'Template saved' is displayed in the right corner of the screen indicating the template was saved with the new name. No changes were made to the old template.

	<u>O</u> ptions <u>U</u> tilit	ies <u>H</u> e	elp			
FM/DB2 (D91 Command ===	describe	Column	Selection/Edit			late save croll <u>PAG</u>
TABLE ALLAN		eria	· (Use SQL/PF4 for	full sc	reen edi	t)
	E WORKDEPT > 'DO					
Cmd Sea SHF	CL# Column name		Data type(lengt	h) Null	Default	Order A

2 S	1 EMPNO		CHARACTER (6)		None	
<u> </u>	2 FIRSTNME		VARCHAR (12)		None	
	3 MIDINIT		CHARACTER (1)		None	
4 s	4 LASTNAME		VARCHAR (15)		None	
1 SH	5 WORKDEPT		CHARACTER (3)	Y	Null	
<u> </u>	6 PHONENO		CHARACTER (4)	Y	Null	
	7 HIREDATE		DATE	Y	Null	
s	8 JOB		CHARACTER (8)	Y	Null	
s	9 EDLEVEL		SMALLINT	Y	Null	
S	10 SEX		CHARACTER(1)	Y	Null	
	11 BIRTHDATE		DATE	Y	Null	
.	40.001.001		DECIMAL(9,2)	Y	Null	
s	12 SALARY					
		F3=Exit		F5=RFin	d F6	=Ru Enter

Enter or retrieve information about a template by issuing the Describe command. Type Describe on the command line and press Enter.



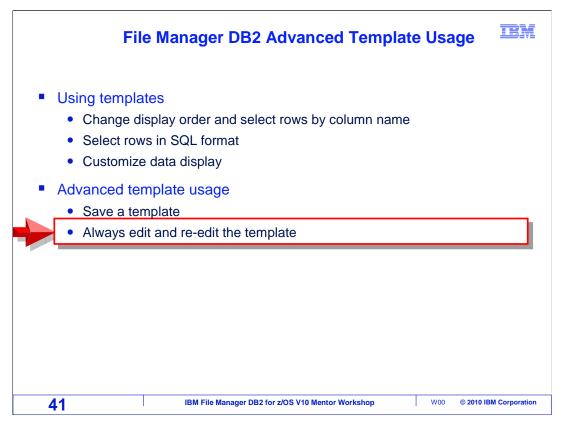
The Describe command will display the template data set and member name information. It will display Source info, as well as the creation date of the template, and the last modified date. Description information can be added, edited, or deleted. Templates are stored in a compressed format, and look like a load module. The description information is added as text, and is visible in browse mode of ISPF. This can assist in finding a template, based on the information entered in the description field. In this example, the description "This template will select rows with work dept > d01 and < e01. It will also not display the mid initial and the hire date info." has been entered. Press F3 to exit and save.

<u>P</u> rocess <u>(</u>)ptions <u>U</u> tilities <u>H</u> e	пр Те	emplate description wa
FM/DB2 (D91F	;) Column		ded
Command ===>	-	a	Scroll P
TABLE ALLANS	SC.EMP		
Row	Selection Criteria	(Use SQL/PF4 for	full screen edit)
1 Sel: WHERE	WORKDEPT > 'D01' AND W	ORKDEPT < 'E01'	
Cmd Seq SHE	CL# Column name	Data type(lengt	h) Null Default Order
	**** Top of data	****	
<u> </u>	1 EMPNO	CHARACTER (6)	None
<u> </u>	2 FIRSTNME	VARCHAR (12)	None
	3 MIDINIT	CHARACTER(1)	None
<u>4</u> S	4 LASTNAME	VARCHAR (15)	None
<u> </u>	5 WORKDEPT	CHARACTER (3)	Y Null
S	6 PHONENO	CHARACTER (4)	Y Null
	7 HIREDATE	DATE	Y Null
S	8 JOB	CHARACTER (8)	Y Null
S	9 EDLEVEL	SMALLINT	Y Null
S	10 SEX	CHARACTER(1)	Y Null
S	11 BIRTHDATE	DATE	Y Null
<u> </u>	12 SALARY	DECIMAL(9,2)	Y Null
š	F2=Split F3=Exit	F4=SQL	F5=RFind F6=Ru
S S F1=Help	iz-spirit is-txit		F11=Right F12=Ca

The template description was saved. To apply the template, press F3.

				plate was use			
Process	s <u>O</u> ptio	ons <u>U</u>	tilities <u>H</u> e	lp			
FM/DB2 ((D91F)		Та	able View			Top of 1
Command	===>						Scroll <u>PAG</u>
18 rows	fetched					F	Format <u>TAB</u>
W	IORKDEPT	EMPNO	FIRSTNME	LASTNAME	PHONENO	JOB	EDLEVEL
	5	#1	#2	#4	#6	#8	#9
C	:H (3)	CH (6)	VARCHAR (12)		CH(4)	CH (8)	SMINT
<	-N	PU+>	<1->	<>	<>	<>	> <+>
*****	🔭 🗶 Top	o of da	ta ****				
000001 D	1	000060	IRVING<	STERNK	6423	MANAGER	16
000002 D	21	000070		PULASKIK	7831	MANAGER	16
00000B D	011	000150	RRUCEZ		4510	ENGINEER	2 16
000004 D		00016	WORKDEP	Fvalues > D01	and < E	01 are	displayed
000005 D			MHSHIUSHIC	TUSHIMURH	2890	ENGINEER	(Ib
000006 D		000180	MARILYNK	SCOUTTENK	1682	ENGINEER	
000007 D		000190	JAMESK	WALKER<	2986	ENGINEER	
000008 D	011	000200	DAVIDK	BROWN<	4501	ENGINEER	R 16
000009 D	011	000210	WILLIAM<	JONESK	0942	ENGINEER	R 17
000010 D	011	000220	JENNIFER<	LUTZK	0672	ENGINEER	18
000011 D	21	000230	JAMESK	JEFFERSONK	2094	CLERK	14
000012	21/	000240	SALVATOREK	MARINO<	3780	CLERK	
F1=Help	- F1	2=Zoom	F3=Exit	F4=CRetriev	F5=RFir	nd F8	S=RC F3
F7=Up	F8	3=Down	F9=Swap	F10=Left	F11=Right	nt F12	2=Ca

The template was saved and the viewer is displayed. The new template was used. The WORKDEPT values that were selected by way of the template are displayed. The selected fields are displayed, in the order that was requested. Press F3 to exit.



Next you will see some techniques that can save you a few keystrokes if you want to select rows or columns, or if you want a fast way to start new edit sessions with different data selections. And saving keystrokes is good.

<u>P</u> rocess <u>O</u> ptions <u>U</u> tiliti	ies <u>H</u> elp
FM/DB2 (D91F) Command ===>	DB2 View
DB2 Object:	Databasa (anti-na
Location Owner <u>ALLAN</u>	Database (optiona NSC + Table Space (optiona
Name	
Start position 1	
Row count ALL	
	A =_Always making these settings
Template:	permanent
Data set name	Edit template before data display
Member	
Processing Options:	Re-edit template after exiting from editor
Template usage	Enter "/", "A"lways to select option
3 1. Above	Edit options
_ 2. Previous	a Edit template
3. Generate from table	e 🗧 Re-edit template
Generate/Replace	
F1=Help F2=Split F	F3=Exit F4=Expand F7=Backward F8=Fo <mark>Ente</mark>
	11=Right F12=Cancel

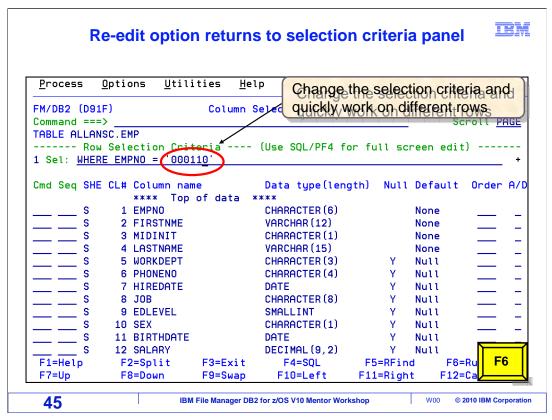
In the DB2 view panel, "A" is specified in the "Edit template" option instead of a slash. "A" means "always", and that makes the selection permanent. This entry will be saved on this screen. After logging off, the A will still be in the field. The "Re-edit template" option is also selected with an A. This setting will redisplay the template selection panel automatically when exiting the editor or viewer. Press Enter.

Find a specific value							
<u>P</u> rocess	<u>Options U</u> til	ities <u>H</u> e	lp				
FM/DB2 (D91		Column	Selection/Edit			ne 1 of	
Command ===>						Croll <u>Pf</u>	IGE
Pew	Selection Sri	teria	(Use SQL/PF4 fo	or full sc	reen edi	t)	
1 Sel empn	o = '000220'_	<u> </u>					+
Cmd Seq SHE	CL# Column na **** Top	_	Data type(leng ****	gth) Null	Default	Order	A/
S	1 EMPNO	or uata	CHARACTER (6)		None		
s	2 FIRSTNME		VARCHAR (12)		None		-
s	3 MIDINIT		CHARACTER (1)		None		-
s	4 LASTNAME		VARCHAR (15)		None		-
s	5 WORKDEPT		CHARACTER (3)	Y	Null		-
s	6 PHONENO		CHARACTER (4)	Ý	Null		-
s	7 HIREDATE		DATE	Ý	Null		-
s	8 JOB		CHARACTER (8)	Y	Null		
s	9 EDLEVEL		SMALLINT	Y	Null		
s	10 SEX		CHARACTER (1)	Y	Null		_
s	11 BIRTHDATE		DATE	Y	Null		
	12 SALARY		DECIMAL(9,2)	Y	Null		
S	F2=Split	F3=Exit	F4=SQL	F5=RFin	d F6	i=Ru F6	5
F1=Help		FO O	F10=Left	F11=Righ	+ E10	eca	
	F8=Down	F9=Swap	FIG-Left	- FII-RIGH	L F12		

The "column selection and edit" panel is displayed. Freeform selection criteria is entered, where the EMPNO column must be equal to 000220. Use F6 to run the template without saving it.

FM/DB2	(D91F)			Table View			Top of
	Fetched EMPN0 #1 CH(6) PU+> **** 000220	JENNIFER<	#3 CH(1)	LASTNAME #4 VARCHAR (15) <+1> LUTZ<	#5 CH (3)	-	Scroll <u>PAG</u> Format <u>TAB</u> HIREDATE #7 DATE <+

The table viewer is displayed, showing only the row that matched the selection criteria. F3 to exit.



Instead of exiting, the Column Selection panel is displayed again. This is because the "Reedit" template option was selected on the entry panel. Changes can be made to the template. In this example the EMPNO being searched for was changed to 000110. Press F6 to run temporary.

	-	ties <u>H</u>	elp			
FM/DB2 (D91F)	I		Table View			Top of 2 Scroll PAGE
1 row fetched EMPN0 #1 CH(6)	FIRSTNME #2 VARCHAR(12)	#3 CH(1)	LASTNAME #4 VARCHAR (15) <+1>	#5 CH (3)	-	Format <u>TABL</u> HIREDATE #7 DATE <+>
00000 000110		**** G ****	LUCCHESI<	A00	3490	1958-05-10
				3will ret election/		ne ୧୦୦୮୩୩ ମଧ୍ୟ
F1=Help	F2=Zoom	F3=Exit	F4=CRetrie	v F5=RFi	nd F	6=R0 F3

The table viewer is displayed, showing only the row that matched the new selection criteria. The re-edit template option lets you quickly select a new set of rows, so you can edit or view just a few at a time.

This technique puts you in an endless loop. Every time you exit from the editor, it takes you back to the template panel. Here is how to break out. First, exit from the editor or viewer. Press F3.

		F12 to	exit loop			
<u>P</u> rocess	<u>O</u> ptions <u>U</u> til	lities <u>H</u> e	lp			
FM/DB2 (D91		Column	Selection/Edit			ne 1 of 1.
Command ===					. S	Scroll <u>PAG</u>
	<u>RE EMPNO = '000</u> E CL# Column na	ame		th) Null	Default	: Order A
-		o of data 🔅				
<u>s</u>	1 EMPNO		CHARACTER (6)		None	
s	2 FIRSTNME		VARCHAR (12)		None	
S					Maria a	
— — <u>°</u>	3 MIDINIT		CHARACTER (1)		None	
s	4 LASTNAME		VARCHAR (15)	v	None	_
<u> </u>	4 LASTNAME 5 WORKDEPT		VARCHAR (15) CHARACTER (3)		None Null	_
	4 LASTNAME		VARCHAR (15)	Y Y Y	None	
<u> </u>	4 LASTNAME 5 WORKDEPT 6 PHONENO		VARCHAR (15) CHARACTER (3) CHARACTER (4)	Y Y	None Null Null	
	4 LASTNAME 5 WORKDEPT 6 PHONENO 7 HIREDATE		VARCHAR (15) CHARACTER (3) CHARACTER (4) DATE	Y Y	None Null Null Null	
S S S	4 LASTNAME 5 WORKDEPT 6 PHONENO 7 HIREDATE 8 JOB		VARCHAR (15) CHARACTER (3) CHARACTER (4) DATE CHARACTER (8)	Y Y Y	None Null Null Null Null	
	4 LASTNAME 5 WORKDEPT 6 PHONENO 7 HIREDATE 8 JOB 9 EDLEVEL	E	VARCHAR (15) CHARACTER (3) CHARACTER (4) DATE CHARACTER (8) SMALLINT	Y Y Y Y	None Null Null Null Null Null	
	4 LASTNAME 5 WORKDEPT 6 PHONENO 7 HIREDATE 8 JOB 9 EDLEVEL 10 SEX	£	VARCHAR (15) CHARACTER (3) CHARACTER (4) DATE CHARACTER (8) SMALLINT CHARACTER (1)	Y Y Y Y Y	None Null Null Null Null Null	
\$\$\$\$\$\$\$ 	4 LASTNAME 5 WORKDEPT 6 PHONENO 7 HIREDATE 8 JOB 9 EDLEVEL 10 SEX 11 BIRTHDATE 12 SALARY	F3=Exit F9=Swap	VARCHAR (15) CHARACTER (3) CHARACTER (4) DATE CHARACTER (8) SMALLINT CHARACTER (1) DATE DECIMAL (9, 2) F4=SQL	Y Y Y Y Y F5=RFin	None Null Null Null Null Null Null nd F6	G=Ru F12

The Column Selection panel is displayed again. Use F12 (cancel) to exit the loop. Press F12.

			w or Edit en	iry parler	
Process	<u>O</u> ptions <u>U</u> ti	lities <u>H</u> el	р		
FM/DB2 (D9 Command ==	1F) =>		B2 View		
DB2 Object	:				
	n <u>.</u>		Databas	e	(optional
	<u>6</u>		<pre>+ Table S</pre>	pace	(optional
	<u>B</u>				
	osition <u>1</u>				
Row cou	nt <u>f</u>		Number of row	s to view	
Template:					
Data se	t name				
Member					
Processing	Options:				
Templat	e usage		Enter "/", "A	"lways to selec	t option
<u>3</u> 1. A	bove		<pre>_ Edit optio</pre>		
2. P	revious		<u>A</u> Edit templ		
	enerate from 1		<u>A</u> Re-edit te	mplate	
	enerate/Replac				
	F2=Split	F3=Exit		F7=Backward	F8=Forward
	F10=Left		F12=Cancel		

F12 returns to the DB2 view or edit panel.

That is the end of this section, using templates in File Manager DB2.

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This module is also available in PDF format at:/FMDv10s05UsingTemplates.pdf	
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