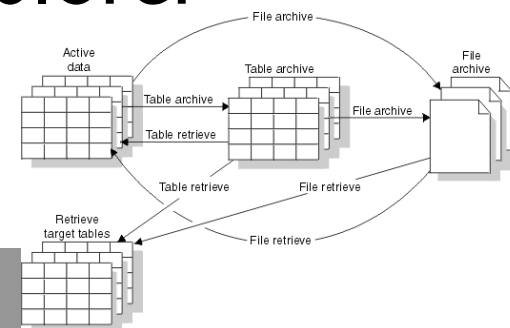




IBM Software Group

# IBM Developer for z Systems – for ISPF Developers

## Module 8 – Using the Data Source Explorer



*Jon Sayles, IBM - [jsayles@us.ibm.com](mailto:jsayles@us.ibm.com)*

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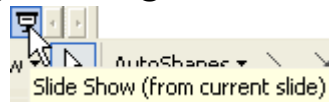
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# Learning DB2 and SQL

- Many (in the thousands of) books exist that do an excellent job teaching SQL.
- Additionally, sites exist on the Internet (GOOGLE: “SQL tutorials” – or “Learn SQL”) for online (and typically free) education.
- IBM Also supplies *excellent* SQL and DB2 documentation:
  - ▶ [DB2 Documentation](#)
  - ▶ [SQL Getting Started](#)
  - ▶ [SQL Reference Manual](#)
  - ▶ [Message \(error code\) Reference](#). [Cached pdf version of full guide](#).
  - ▶ [DB2 Application Development Guide with example embedded SQL programs](#).
  - ▶ [Triggers in DB2](#)
  - ▶ [Constraints in DB2](#)
- And there are plenty of non-IBM sites to learn about SQL:
  - ▶ [Http://en.wikipedia.org/wiki/SQL](http://en.wikipedia.org/wiki/SQL)

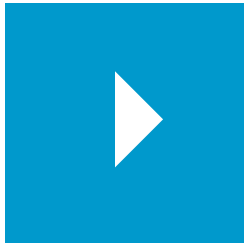
- Note: In order for you to get the above links to work, view the PowerPoint in Slide Show mode.



- Here is an example of COBOL database access:
  - ▶ [http://publib.boulder.ibm.com/infocenter/dzichelp/v2r2/index.jsp?topic=/com.ibm.db29.doc.apsg/db2z\\_samplecobolrdrathreepartnames.htm](http://publib.boulder.ibm.com/infocenter/dzichelp/v2r2/index.jsp?topic=/com.ibm.db29.doc.apsg/db2z_samplecobolrdrathreepartnames.htm)

## UNIT

# The IDz Workbench



### Topics:

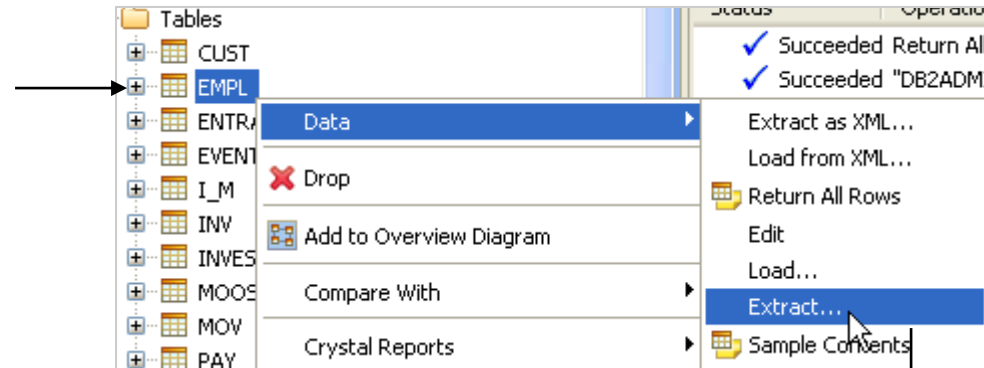
- The Data Perspective and connecting to DB2
- Understanding your DB2 objects
- Editing and managing DB2 table data
- Coding and testing SQL
- **Extract/Load for Managing Test Data & Decision Support**

# Unload (Extract) Rows from a Table

You can unload (extract) test data rows before modifying a table's DDL, either for back-up purposes or to share among team members or re-load later.

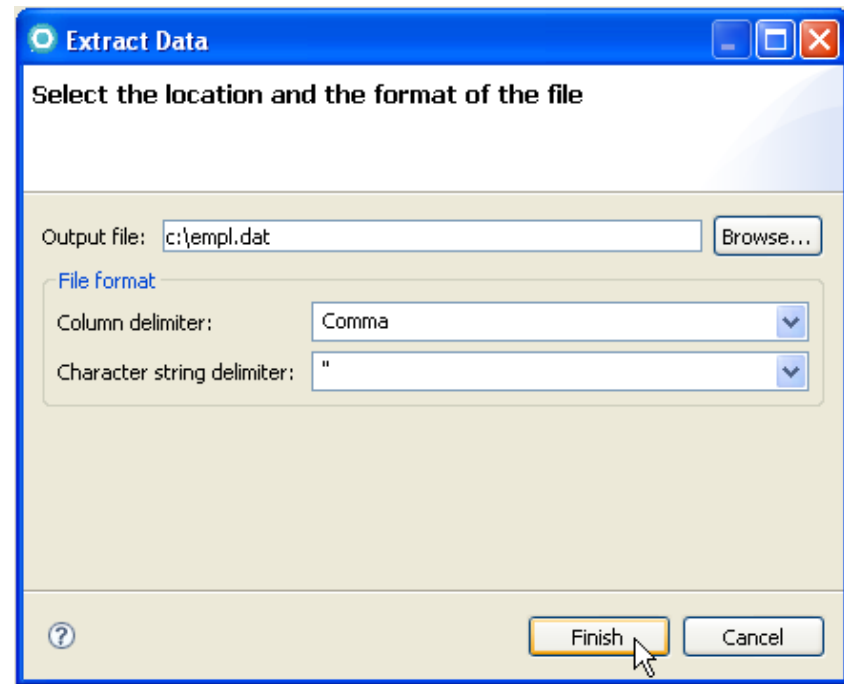
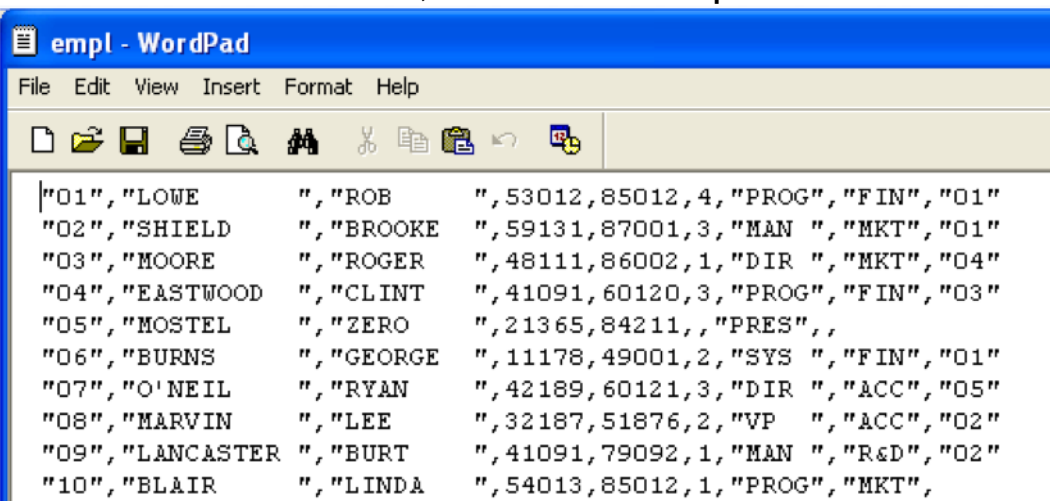
From the Data Source Explorer:

- ▶ **Right-click over the table name**
- ▶ **Select: Data > Extract...**
- ▶ **Specify data extract (unload) options:**
  - Output file-spec
  - Column delimiter type
  - Char-string delimiter type



To re-insert the rows, select: **Load...**

Select the same file, and follow script in reverse



# Extract – Data Format and Uses

The Extract process unloads row-values into “plain-text”. This makes them available for use in standard MS-Windows technology.

Besides text (\*.txt) files – you can extract into:

- Excel
  - Extract to: \*.csv
- MS-Word
  - Extract to: \*.doc
- PowerPoint
  - Also for Decision Support applications

The screenshot shows a Windows desktop environment. On the left, a WordPad window titled 'empl - WordPad' displays a table of employee data. On the right, an 'Extract Data' dialog box is open, showing the configuration for saving the data to a CSV file.

**WordPad Window Content:**

"01"	"LOWE	", "ROB	", 53012, 85012, 4, "PROG
"02"	"SHIELD	", "BROOKE	", 59131, 87001, 3, "MAN
"03"	"MOORE	", "ROGER	", 48111, 86002, 1, "DIR
"04"	"EASTWOOD	", "CLINT	", 41091, 60120, 3, "PROG
"05"	"MOSTEL	", "ZERO	", 21365, 84211, , "PRES"
"06"	"BURNS	", "GEORGE	", 11178, 49001, 2, "SYS
"07"	"O' NEIL	", "RYAN	", 42189, 60121, 3, "DIR
"08"	"MARVIN	", "LEE	", 32187, 51876, 2, "VP
"09"	"LANCASTER	", "BURT	", 41091, 79092, 1, "MAN
"10"	"BLAIR	", "LINDA	", 54013, 85012, 1, "PROG", "MKT",

**Extract Data Dialog Box Configuration:**

- Output file: C:\Users\JonSaylesSayles\Desktop\Property Groups\emp.csv
- File format: Comma
- Column delimiter: ,
- Character string delimiter: "

# Utilizing Extracted Data for Decision Support – Excel

- You can also open extract files into Excel by simply naming the output file as: <filename>.csv

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	10	JAMES	R	TAYLOR	G22	3978	1/1/1965	PRES	45	F	8/14/1933	52750	1000	4220
2	20	RICHARD	M	LEROY	E11	3476	1/1/1965	MANAGER	22	M	2/2/1948	41250	800	3300
3	30	THOMAS	A	KWAN	D21	4738	4/5/1975	MANAGER	20	F	5/11/1941	38250	800	3060
4	50	JOHN	B	MAYER	D01	6789	8/17/1949	MANAGER	89	M	9/15/1925	40175	800	3214
5	60	MEGAN	F	VIJAY	D11	6423	9/14/1973	MANAGER	16	M	7/7/1945	32250	600	2580
6	70	MICHAEL	D	PETERSON	D11	7831	9/30/1980	MANAGER	15	F	5/26/1953	36170	700	2893
7	90	GEDDY	W	LEROY	E11	5498	8/15/1970	MANAGER	16	F	5/15/1941	29750	600	2380
8	100	MONICA	R	PETERSON	D21	NULL	6/19/1980	MANAGER	14	M	12/18/1956	26150	500	2092
9	110	JAMES	G	BROWN	A00	3490	5/16/1958	SALESREP	19	M	11/5/1929	46500	900	3720
10	120	BUSCH	W	BURKE	D11	2167	12/5/1963	CLERK	34	M	10/18/1942	29250	600	2340
11	130	JUSTIN	T	TIMBERLA	E11	4578	7/28/1971	MANAGER	16	F	9/15/1925	23800	500	1904

AutoSave: Off | result.csv - Excel | Jon Sayles SAYLES

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Clipboard | Font | Alignment | Number | Styles | Cells

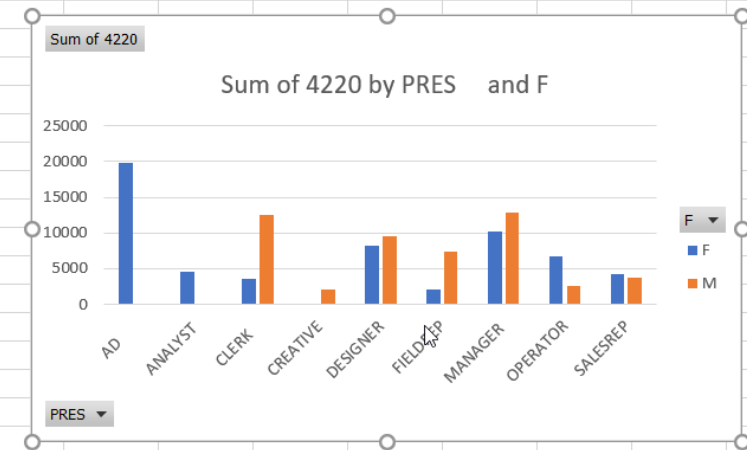
Calibri 11 | General | Conditional Formatting | Insert | Sum | Average | Count Numbers | Max | Min

F1 | 3978

	A	B	C	D	E	F	G	H	I	J	K
1	10	CHRISTINE	I	HAAS	D21	3978	1/1/1995	PRES	18	F	
2	20	MICHAEL	L	THOMPSON	B01	3476	10/10/2003	VEEP	18	M	
3	30	SALLY	A	KWAN	C01	4738	4/5/2005	VEEP	20	F	
4	50	JOHN	B	HAMPTON	E01	6789	8/17/1979	VEEP	16	M	
5	60	IRVING	P	STERN	D11	6423	9/14/2003	VEEP	16	M	
6	70	HORATIO	D	PULASKI	D21	7777	9/30/2005	VEEP	17		
7	90	EILEEN	W	HENDERS	E11	5498	8/15/2000	VEEP	16	F	
8	100	THEODOR	Q	SPENSER	E21	972	6/19/2000	VEEP	14	M	
9	110	VINCENZO	G	LUCCHESS	A00	3490	5/16/1988	SALESREP	19	M	
10	120	Greg		O'CONNEL	A00	2167	12/5/1993	CLERK	14	M	
11	130	DELORES	J	QUINTAN	C01	4578	7/28/2001	ANALYST	16	F	
12	140	HEATHER	A	NICHOLLS	C01	1793	12/15/2006	ANALYST	18	F	
13	150	Dan		Batman	C01	4510	2/12/2002	DESIGNER	16	M	
14	160	ELIZABETH	R	PIANKA	D11	3782	10/11/2006	DESIGNER	17	F	
15	170	MASATOSHI	J	YOSHIMU	D11	2890	9/15/1999	DESIGNER	16	M	
16	180	MARILYN	S	SCOUTTEN	D11	1682	7/7/2003	DESIGNER	17	F	

Sum of 4220 F PRES AD 19821 ANALYST 4548 CLERK 3570 12590 CREATIVE 2022 DESIGNER 8261 9534 FIELDREP 2030 7440 MANAGER 10237 12822 OPERATOR 6744 2647 SALESREP 4220 3720

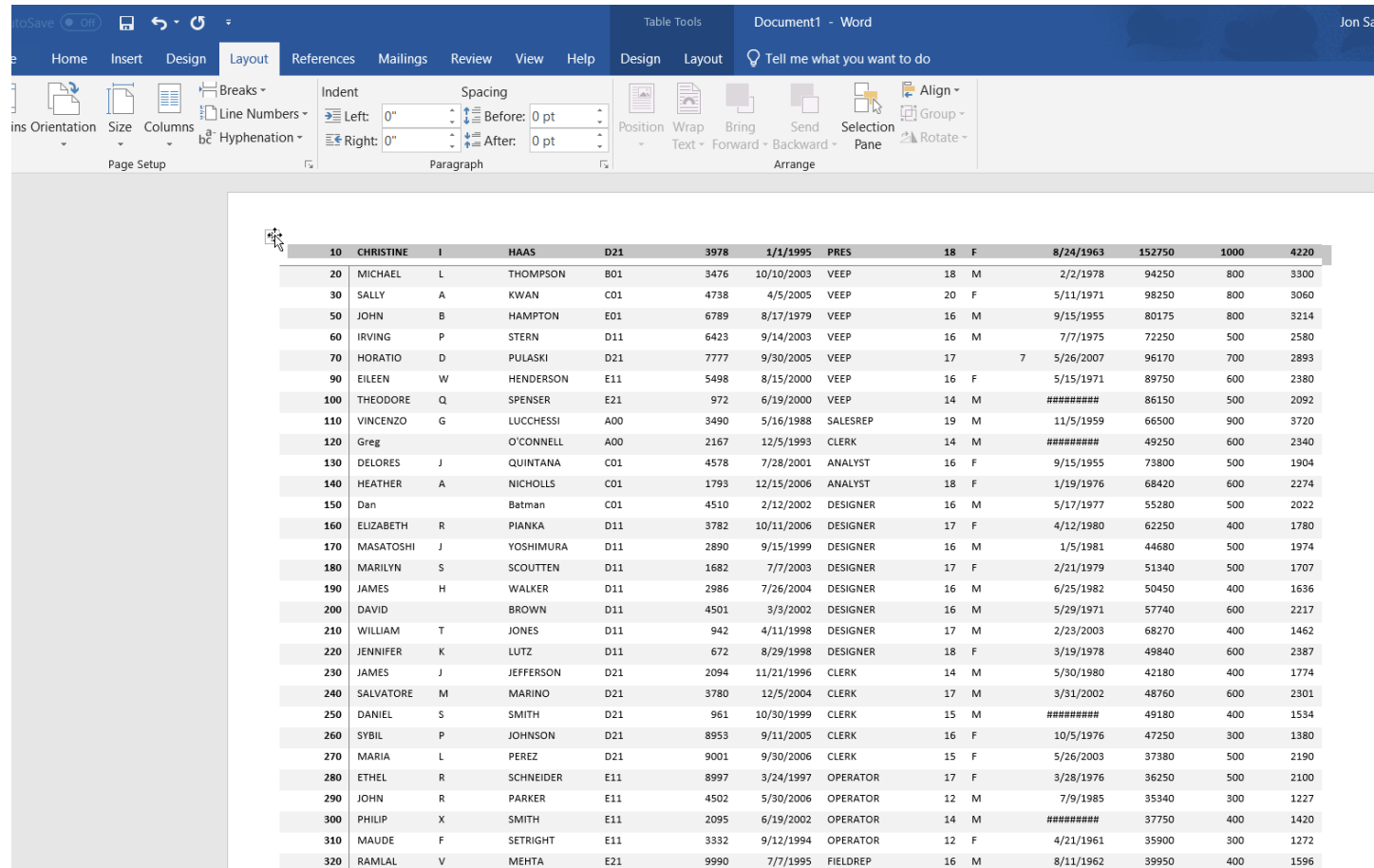
Ready | Average: 4060.952381 | Count



From there you have all the tools of Excel at your disposal

# Utilizing Extracted Data for Decision Support: MS-Word

- You can create MS-Word and PowerPoint docs by:
  - Extracting into Excel \*.csv
  - Opening the extract file, selecting all values (Ctrl+A) then copying & pasting the values into MS-Word
  - Once inside the Word doc you can create well-formed tables by selecting the values and (from the Insert tab) creating a table – then formatting the cells



10	CHRISTINE	I	HAAS	D21	3978	1/1/1995	PRES	18	F	8/24/1963	152750	1000	4220
20	MICHAEL	L	THOMPSON	B01	3476	10/10/2003	VEEP	18	M	2/2/1978	94250	800	3300
30	SALLY	A	KWAN	C01	4738	4/5/2005	VEEP	20	F	5/11/1971	98250	800	3060
50	JOHN	B	HAMPTON	E01	6789	8/17/1979	VEEP	16	M	9/15/1955	80175	800	3214
60	IRVING	P	STERN	D11	6423	9/14/2003	VEEP	16	M	7/7/1975	72250	500	2580
70	HORATIO	D	PULASKI	D21	7777	9/30/2005	VEEP	17	7	5/26/2007	96170	700	2893
90	EILEEN	W	HENDERSON	E11	5498	8/15/2000	VEEP	16	F	5/15/1971	89750	600	2380
100	THEODORE	Q	SPENSER	E21	972	6/19/2000	VEEP	14	M	#####	86150	500	2092
110	VINCENZO	G	LUCCHESI	A00	3490	5/16/1988	SALESREP	19	M	11/5/1959	66500	900	3720
120	Greg		O'CONNELL	A00	2167	12/5/1993	CLERK	14	M	#####	49250	600	2340
130	DELORES	J	QUINTANA	C01	4578	7/28/2001	ANALYST	16	F	9/15/1955	73800	500	1904
140	HEATHER	A	NICHOLLS	C01	1793	12/15/2006	ANALYST	18	F	1/19/1976	68420	600	2274
150	Dan		Batman	C01	4510	2/12/2002	DESIGNER	16	M	5/17/1977	55280	500	2022
160	ELIZABETH	R	PIANKA	D11	3782	10/11/2006	DESIGNER	17	F	4/12/1980	62250	400	1780
170	MASATOSHI	J	YOSHIMURA	D11	2890	9/15/1999	DESIGNER	16	M	1/5/1981	44680	500	1974
180	MARILYN	S	SCOUTTEN	D11	1682	7/7/2003	DESIGNER	17	F	2/21/1979	51340	500	1707
190	JAMES	H	WALKER	D11	2986	7/26/2004	DESIGNER	16	M	6/25/1982	50450	400	1636
200	DAVID		BROWN	D11	4501	3/3/2002	DESIGNER	16	M	5/29/1971	57740	600	2217
210	WILLIAM	T	JONES	D11	942	4/11/1998	DESIGNER	17	M	2/23/2003	68270	400	1462
220	JENNIFER	K	LUTZ	D11	672	8/29/1998	DESIGNER	18	F	3/19/1978	49840	600	2387
230	JAMES	J	JEFFERSON	D21	2094	11/21/1996	CLERK	14	M	5/30/1980	42180	400	1774
240	SALVATORE	M	MARINO	D21	3780	12/5/2004	CLERK	17	M	3/31/2002	48760	600	2301
250	DANIEL	S	SMITH	D21	961	10/30/1999	CLERK	15	M	#####	49180	400	1534
260	SYBIL	P	JOHNSON	D21	8953	9/11/2005	CLERK	16	F	10/5/1976	47250	300	1380
270	MARIA	L	PEREZ	D21	9001	9/30/2006	CLERK	15	F	5/26/2003	37380	500	2190
280	ETHEL	R	SCHNEIDER	E11	8997	3/24/1997	OPERATOR	17	F	3/28/1976	36250	500	2100
290	JOHN	R	PARKER	E11	4502	5/30/2006	OPERATOR	12	M	7/9/1985	35340	300	1227
300	PHILIP	X	SMITH	E11	2095	6/19/2002	OPERATOR	14	M	#####	37750	400	1420
310	MAUDE	F	SETRIGHT	E11	3332	9/12/1994	OPERATOR	12	F	4/21/1961	35900	300	1272
320	RAMLAL	V	MEHTA	E21	9990	7/7/1995	FIELDREP	16	M	8/11/1962	39950	400	1596



# Modifying Extracted DB2 Table Values using ISPF Edit

After you have successfully Extracted DB2 Table values to a \*.txt file:

- ▶ Find the file in Remote Systems → Local → Local Files
- ▶ **Open With z Systems LPEX Editor**
- ▶ Utilize ISPF techniques: Command Line commands (Find, Change, Picture String edit)  
Prefix Area Commands: Repeat (to create new test data rows) Delete, eXclude, etc.
  - Note that you can create new rows by duplicating existing rows, etc.

The screenshot displays the LPEX Editor interface. The top command line shows "c MANAGER VICE-PREZ ALL NX". The main text area contains a grid of data with columns numbered 1 through 9. The data is organized into rows, with some rows highlighted in red. A red arrow points to the command line. A red callout box points to the file list on the right, which includes files like pps.csv, result.csv, result.doc, result.html, result.txt, and Test LPAR Mappings.zip. The file list also shows a directory structure with files like zUnit\_Property\_Group.xr, zunit\_141\_cobol\_db2.p, zunit\_141\_cobol\_db2.p, zunit\_141\_cobol\_db2.p, zunit\_141\_cobol\_db2.p, zunit\_141\_cobol\_db2.p, zunit\_141\_cobol - Debug, zunit\_14\_cobol1.xml, zunit\_14\_cobol\_db2\_ph, zunit\_14\_cobol\_db2\_ph, zunit\_14\_cobol\_db2\_ph, zunit\_14\_ctfmvs08.xml, zunit\_14\_db2.xml, zunit\_14\_db2\_ctfmvs08, zUnit\_August\_v95.xml, zunit\_v141\_pli\_basic.xml, zUnit\_v14\_ctfmvs08.xml, and zUnit\_v95.xml.

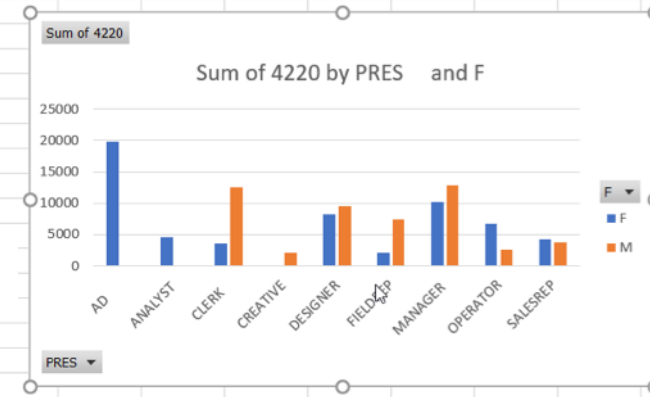
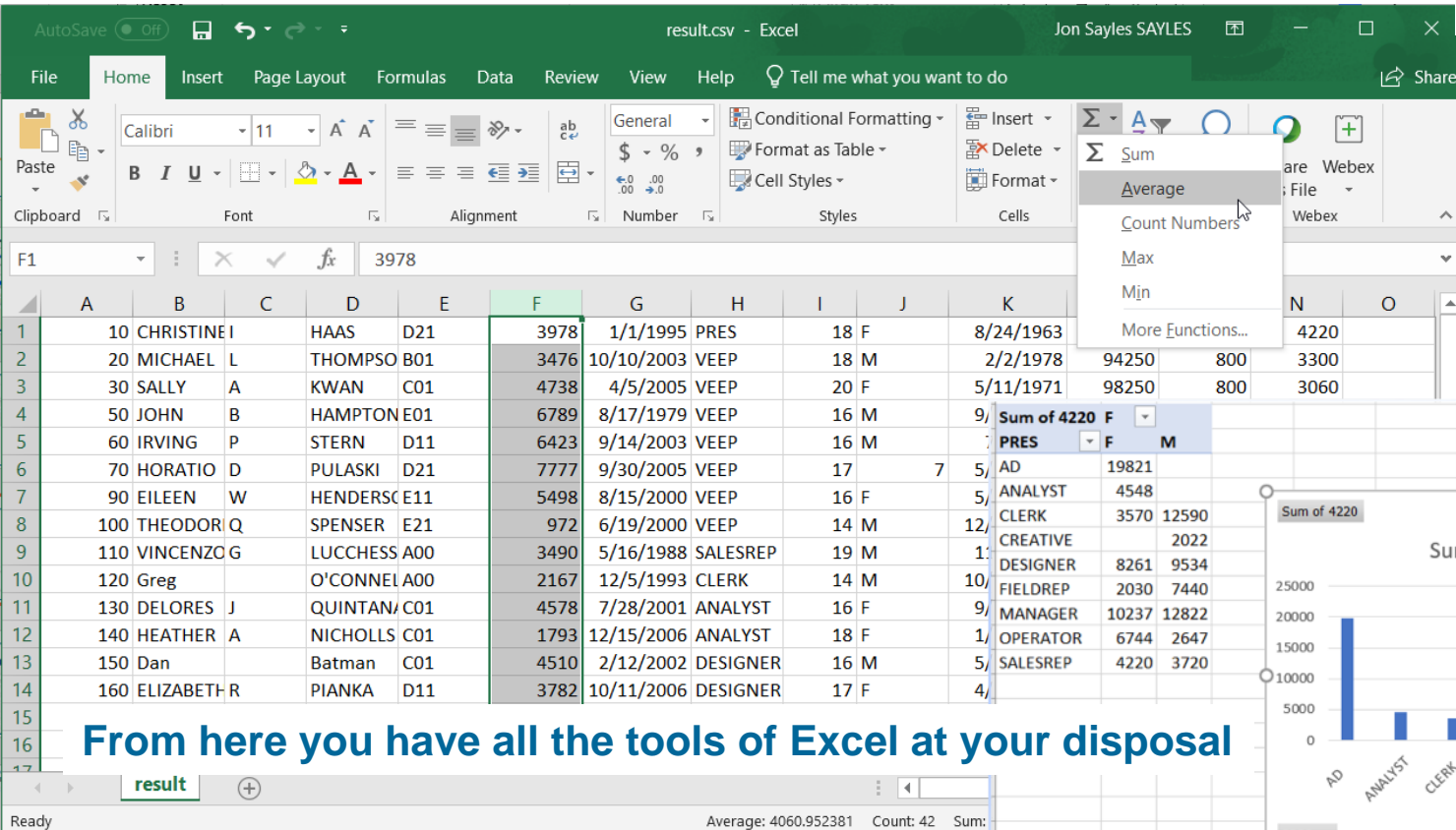
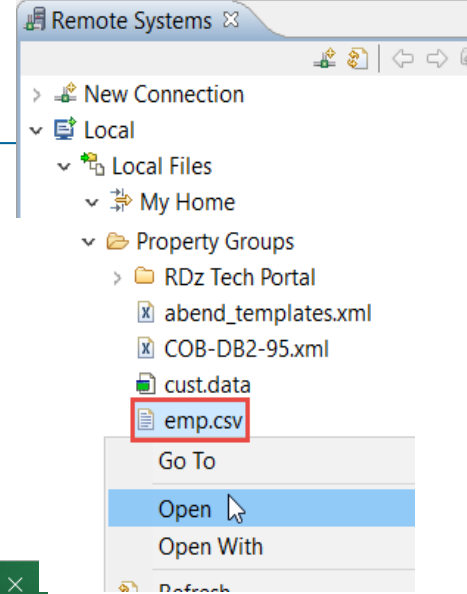
**Prefix Area commands**

**Open the Extract from "Local Files" using the LPEX Editor**

- **Save your changes**
- **Load the DB2 table from the file you've just modified**

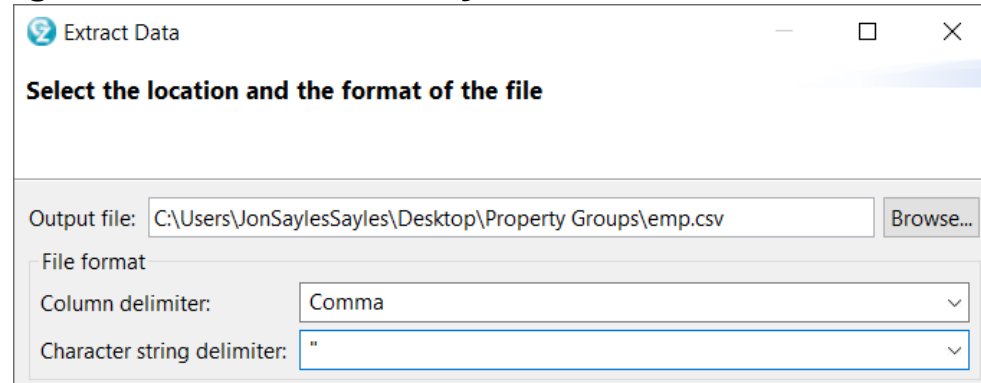
## ▶▶ Workshop - Extracted Data for Decision Support Applications

- Extract a DB2 table into a file named with an extension of **.CSV**
- From Remote Systems → Local → Local Files
  - ▶ Find and Open the .csv extract file
- This should open Excel. If it doesn't you'll need to use Preferences → General → Editors → File Associations to add a new File Association for **\*.CSV** and Associated editor



# Modifying Extracted DB2 Table Values using Excel – 1 of 2

- You can also open DB2 extract files using Excel – and **modify** row values with Excel
  - Extract to a file named: **\*.csv**
  - Find the file in Remote Systems:
    - Local
      - Local Files
  - Double-Click** to open the file
    - This should open the file into MS-Excel



Extract Data

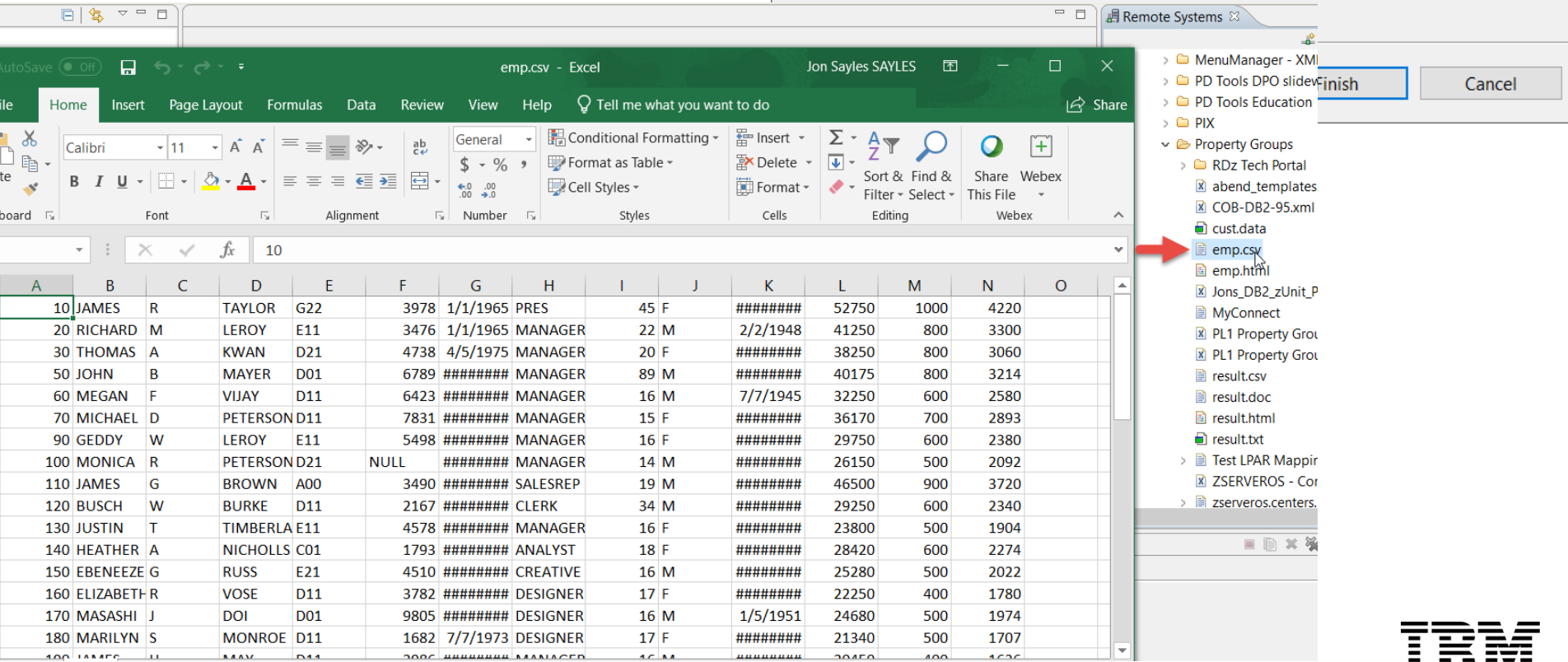
Select the location and the format of the file

Output file: C:\Users\JonSayles\Sayles\Desktop\Property Groups\emp.csv Browse...

File format

Column delimiter: Comma

Character string delimiter: "



emp.csv - Excel

Jon Sayles SAYLES

Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Calibri 11

Font Alignment Number Styles Cells Editing Webex

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
10	JAMES	R	TAYLOR	G22	3978	1/1/1965	PRES	45	F	#####	52750	1000	4220		
20	RICHARD	M	LEROY	E11	3476	1/1/1965	MANAGER	22	M	2/2/1948	41250	800	3300		
30	THOMAS	A	KWAN	D21	4738	4/5/1975	MANAGER	20	F	#####	38250	800	3060		
50	JOHN	B	MAYER	D01	6789	#####	MANAGER	89	M	#####	40175	800	3214		
60	MEGAN	F	VIJAY	D11	6423	#####	MANAGER	16	M	7/7/1945	32250	600	2580		
70	MICHAEL	D	PETERSON	D11	7831	#####	MANAGER	15	F	#####	36170	700	2893		
90	GEDDY	W	LEROY	E11	5498	#####	MANAGER	16	F	#####	29750	600	2380		
100	MONICA	R	PETERSON	D21	NULL	#####	MANAGER	14	M	#####	26150	500	2092		
110	JAMES	G	BROWN	A00	3490	#####	SALESREP	19	M	#####	46500	900	3720		
120	BUSCH	W	BURKE	D11	2167	#####	CLERK	34	M	#####	29250	600	2340		
130	JUSTIN	T	TIMBERLA	E11	4578	#####	MANAGER	16	F	#####	23800	500	1904		
140	HEATHER	A	NICHOLLS	C01	1793	#####	ANALYST	18	F	#####	28420	600	2274		
150	EBENEZE	G	RUSS	E21	4510	#####	CREATIVE	16	M	#####	25280	500	2022		
160	ELIZABETH	R	VOSE	D11	3782	#####	DESIGNER	17	F	#####	22250	400	1780		
170	MASASHI	J	DOI	D01	9805	#####	DESIGNER	16	M	1/5/1951	24680	500	1974		
180	MARILYN	S	MONROE	D11	1682	7/7/1973	DESIGNER	17	F	#####	21340	500	1707		

Remote Systems

- MenuManager - XML
- PD Tools DPO slides
- PD Tools Education
- PIX
- Property Groups
  - RDz Tech Portal
    - abend\_templates
    - COB-DB2-95.xml
    - cust.data
    - emp.csv**
    - emp.html
    - Jons\_DB2\_zUnit\_P
    - MyConnect
    - PL1 Property Gro
    - PL1 Property Gro
    - result.csv
    - result.doc
    - result.html
    - result.txt
  - Test LPAR Mappir
  - ZSERVEROS - Cor
  - zserveros.centers.

# Modifying Extracted DB2 Table Values using Excel – 2 of 2

Modify the table values using Excel editing techniques

- **Save** your changes
- **Load** the Data back in:

result.csv - Excel

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Clipboard Font Alignment Number Styles

AutoSave Off

1/1/1995

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	10	CHRISTINE	I	HAAS	D21	3978	1995-01-01	PRES	18	F	1963-08-24	152750	1000	4220	
2	20	MICHAEL	L	THOMPSON	B01	3476	2003-10-10	VEEP	18	M	1978-02-02	94250	800	3300	
3	30	SALLY	A	KWAN	C01	4738	2005-04-05	VEEP	20	F	1971-05-11	98250	800	3060	
4	50	JOHN	B	HAMPTON	E01	6789	1979-08-17	VEEP	16	M	1955-09-15	80175	800	3214	
5	60	IRVING	P	STERN	D11	6423	2003-09-14	VEEP	16	M	1975-07-07	72250	500	2580	
6	70	HORATIO	D	PULASKI	D21	7777	2005-09-3								
7	90	EILEEN	W	HENDERS	E11	5498	2000-08-1								
8	100	THEODOR	Q	SPENSER	E21	972	2000-06-1								
9	110	VINCENZO	G	LUCCHESS	A00	3490	1988-05-1								
10	120	Greg		O'CONNEL	A00	2167	1993-12-0								
11	130	DELORES	J	QUINTAN	A01	4578	2001-07-2								
12	140	HEATHER	A	NICHOLLS	C01	1793	2006-12-1								
13	150	Dan		Batman	C01	4510	2002-02-1								
				PIANKA	D11	3782	2006-10-1								
				YOSHIMU	D11	2890	1999-09-1								
				EN	D11	1682	2003-07-0								
				D11		2986	2004-07-2								
				D11		4501	2002-03-0								
				D11		942	1998-04-1								
				D11		672	1998-08-2								
				D21		2094	1996-11-2								
				D21		3788	2004-12-2								

Format Cells

Number Alignment Font Border Fill Protection

Category:

General Number Currency Accounting **Date** Time Percentage Fraction Scientific Text Special Custom

Sample

1995-01-01

Type:

\*3/14/2012  
\*Wednesday, March 14, 2012  
**2012-03-14**  
3/14  
3/14/12  
03/14/12  
14-Mar

Locale (location):

English (United States)

**For Date/Time/Timestamp you may have to Format the Cell type**

**This depends on your Excel vs. DB2 Date/Time defaults**

# Using Update-able Views to Edit Subsets of Large Tables – 1 of 2

- One of the current limitations of the IDz table editor is that – for very large tables (100's of columns, 100's of 1,000's of rows) you cannot filter table data
- One solution for this is to create a view that renders the rows you want to modify, and edit through the view (note that this is limited to version 8.0 and later)
- Considerations:
  - ▶ You must have CREATE VIEW privileges
    - Or optionally, you can ask your DBA or the table "owner" to run a CREATE VIEW for you, if you don't
  - ▶ You must create an update-able view.
    - An update-able view is a row-column subset of one table. The statement must not:
      - Reference more than one table in the FROM clause, in a sub-select or UNION with other tables
      - Contain GROUP BY or HAVING clause or DISTINCT in the selection list.
      - Reference a non-updateable view
      - Contain an SQL *"expression"* (functions, computations, etc.)
- Here's a sample Create View statement that creates a row/column subset of the DDS0001.CUST table:

```
Create View Cust_View_CT as
Select ID, LNAME, ST From DDS0001.Cust Where ST = 'CT'
```

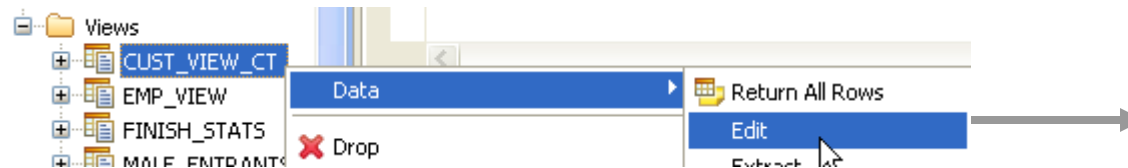
# Using Update-able Views to Edit Subsets of Large Tables – 2 of 2

- Steps – including screen captures:

## 1. Create an updatable view

```
CREATE VIEW CUST_VIEW_CT AS
SELECT ID, LNAME, ST FROM DDS0001.CUST WHERE ST = 'CT'
```

## 2. Edit (through) the view:



ID [CHAR(2)]	LNAME [CHAR(12)]	ST [CHAR(2)]
02	FIELD	CT
03	NICHOLSON	CT
04	Ziskind	CT
19	Smith	CT
04	Ziskind	CT
54	Wilson	CT
<new row>		

## 3. Make changes

ID [CHAR(2)]	LNAME [CHAR(12)]	ST [CHAR(2)]
02	FIELD	CT
03	Pressly	CT
04	Ziskind	CT
19	Smith	NH
04	Ziskind	CT
62	Wilson	NY

Ctrl+S

## 4. Save your edits

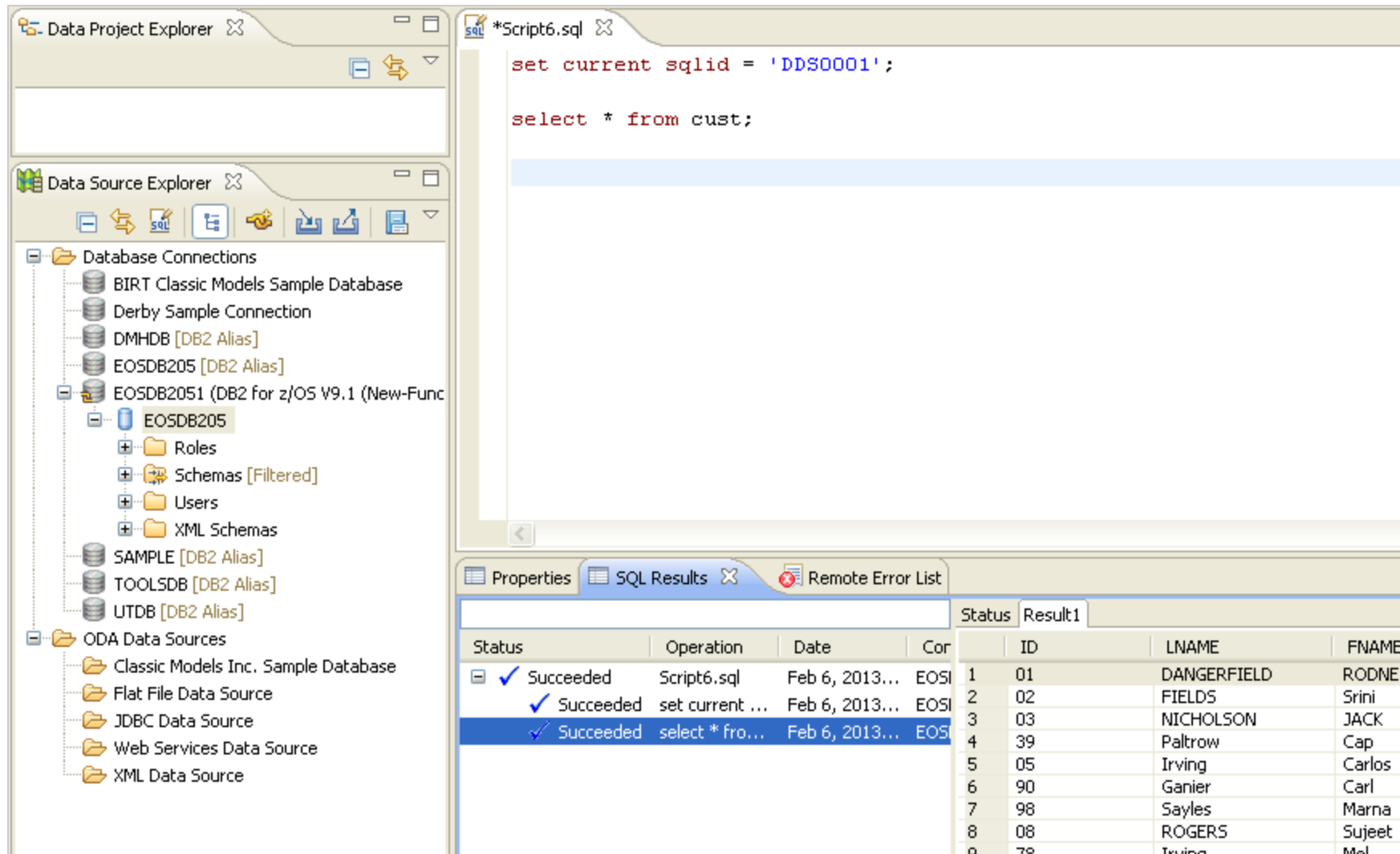
The screenshot shows the 'SQL Results' tab with a list of operations and their status. The 'Status' column shows 'Succeeded' for most operations, and 'Failed' for one. The 'Message1' column shows the details of the operations.

Status	Operation	Date	Connection
✓ Succeeded	Drop	May 9, 2011...	EOSDB205
✓ Succeeded	Drop	May 9, 2011...	EOSDB205
✓ Succeeded	update dds0001.cust set st = ...	May 9, 2011...	EOSDB205
⚠ Warning	"DDS0001"."CUST"	May 9, 2011...	EOSDB205
✗ Failed	Create View Cust_View_CT as...	May 9, 2011...	EOSDB205
✓ Succeeded	Create View Cust_View_CT as...	May 9, 2011...	EOSDB205
✓ Succeeded	"DDS0001"."CUST_VIEW_CT"	May 9, 2011...	EOSDB205

Message1: update "DDS0001"."CUST\_VIEW\_CT" set "LNAME"='Pressly' where "ID"='03' and "LNAME"='NICHOLSON'; update "DDS0001"."CUST\_VIEW\_CT" set "ST"='NH' where "ID"='19' and "LNAME"='Smith'; update "DDS0001"."CUST\_VIEW\_CT" set "ID"='62', "ST"='NY' where "ID"='54' and "LNAME"='Wilson'; Data successfully saved. Inserted 0 row(s) Updated 3 row(s) Deleted 0 row(s)

# Support for "Current SQLID"

You can **SET** the **CURRENT SQLID** (just as you do on QMF/SPUFI) in order to run SQL statements with unqualified table/view names.



The screenshot displays the IBM Data Project Explorer interface. On the left, the 'Data Source Explorer' pane shows a tree of database connections, including 'EOSDB2051 (DB2 for z/OS V9.1 (New-Func))' and 'EOSDB205'. The main editor window shows a script named '\*Script6.sql' with the following content:

```
set current sqlid = 'DDS0001';  
  
select * from cust;
```

Below the script editor, the 'SQL Results' pane shows the execution status and results. The results are displayed in a table with columns: Status, Operation, Date, Cor, ID, LNAME, and FNAME.

Status	Operation	Date	Cor	ID	LNAME	FNAME	
✓ Succeeded	Script6.sql	Feb 6, 2013...	EOSI	1	01	DANGERFIELD	RODNE
✓ Succeeded	set current ...	Feb 6, 2013...	EOSI	2	02	FIELDS	Srini
✓ Succeeded	select * fro...	Feb 6, 2013...	EOSI	3	03	NICHOLSON	JACK
				4	39	Paltrow	Cap
				5	05	Irving	Carlos
				6	90	Ganier	Carl
				7	98	Sayles	Marna
				8	08	ROGERS	Sujeet
				9	78	Irving	Mel