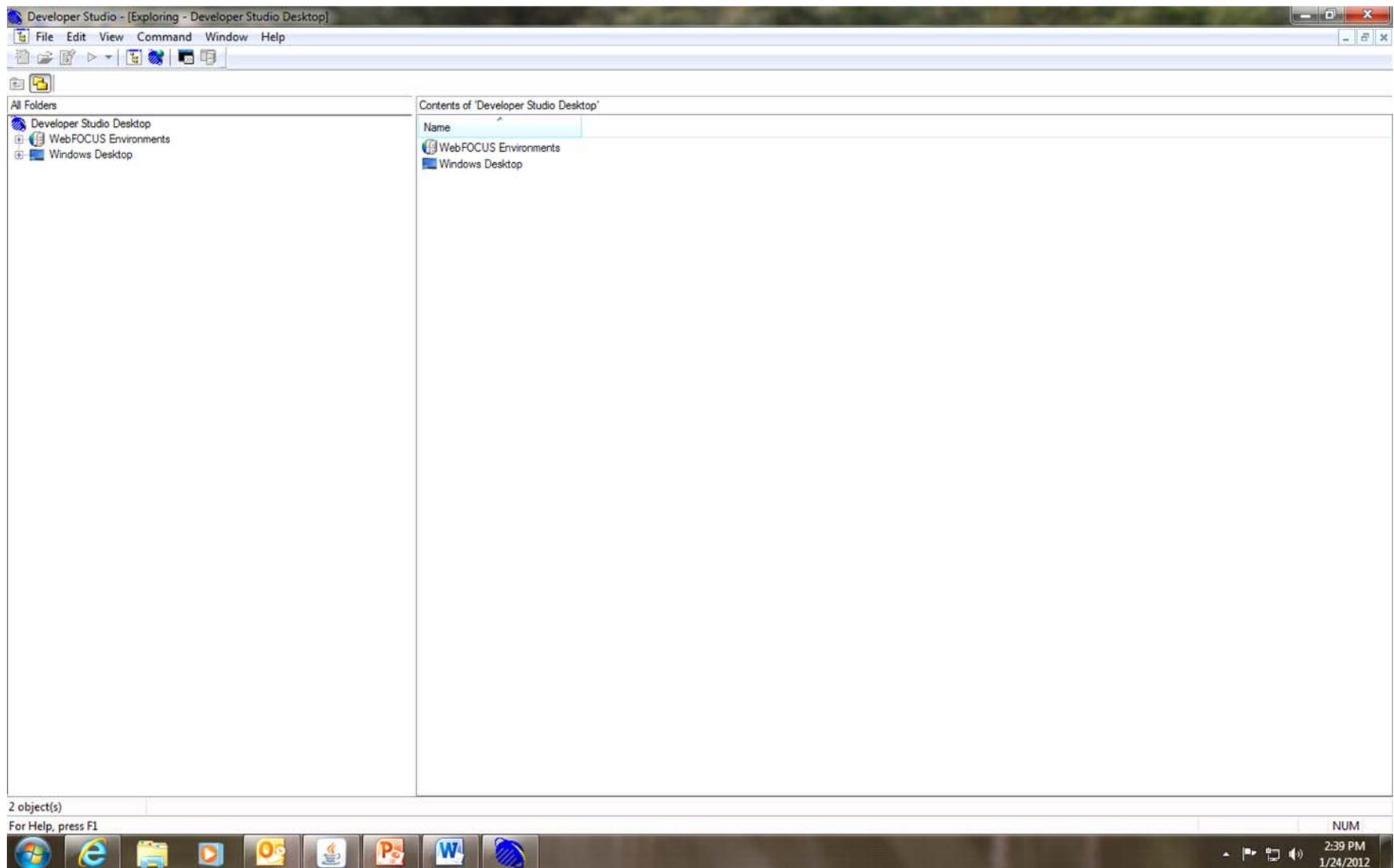


# BEGINNING WEBFOCUS REPORT WRITING

## EXERCISE MANUAL

## Exercise 1: Launch Developer Studio and Configure

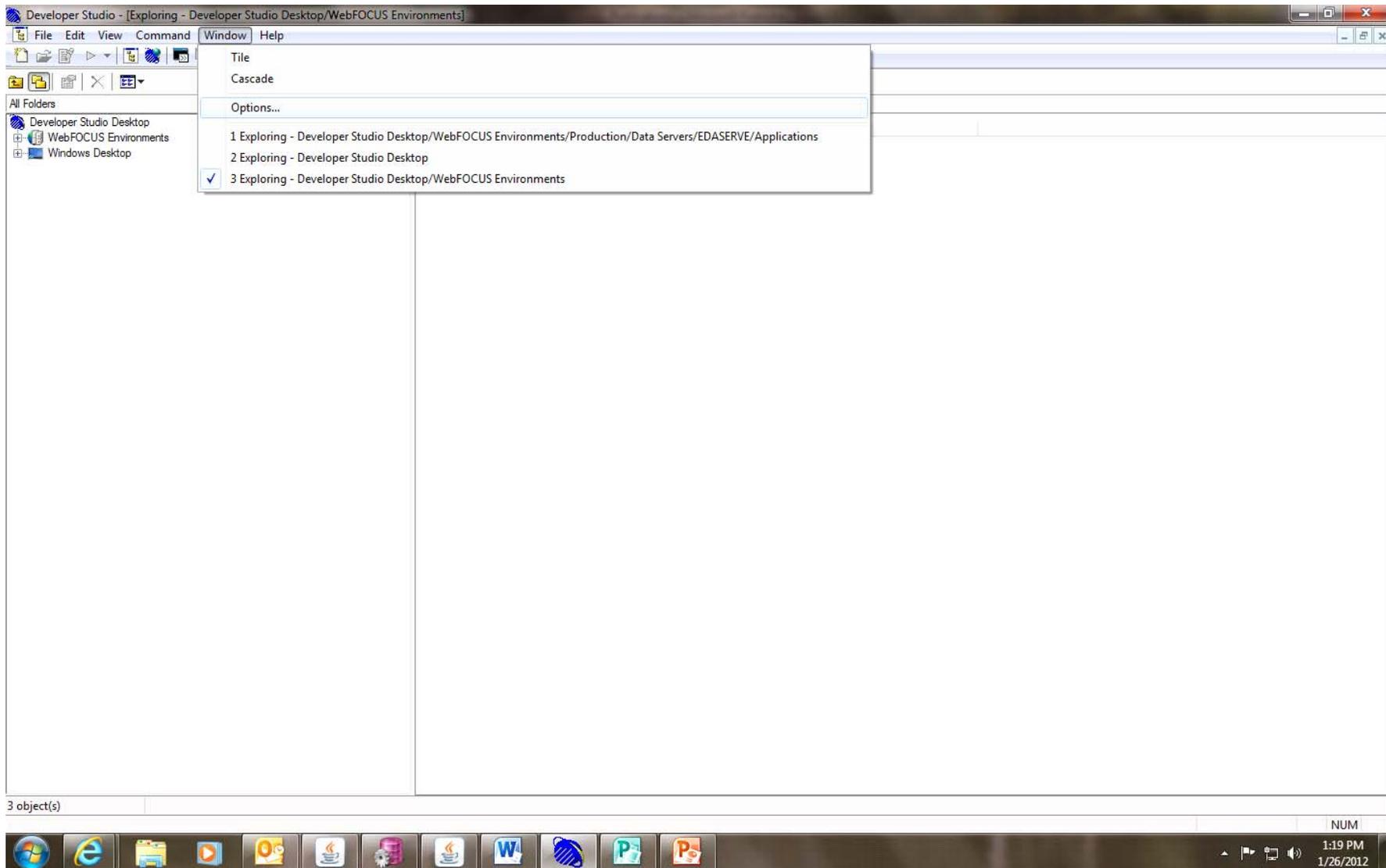
1. Double click the Developer Studio Icon on your Desktop Or
2. Click the start button, select all programs, Information Builders, Webfocus 77 Developer Studio, WebFOCUS Developer Studio.



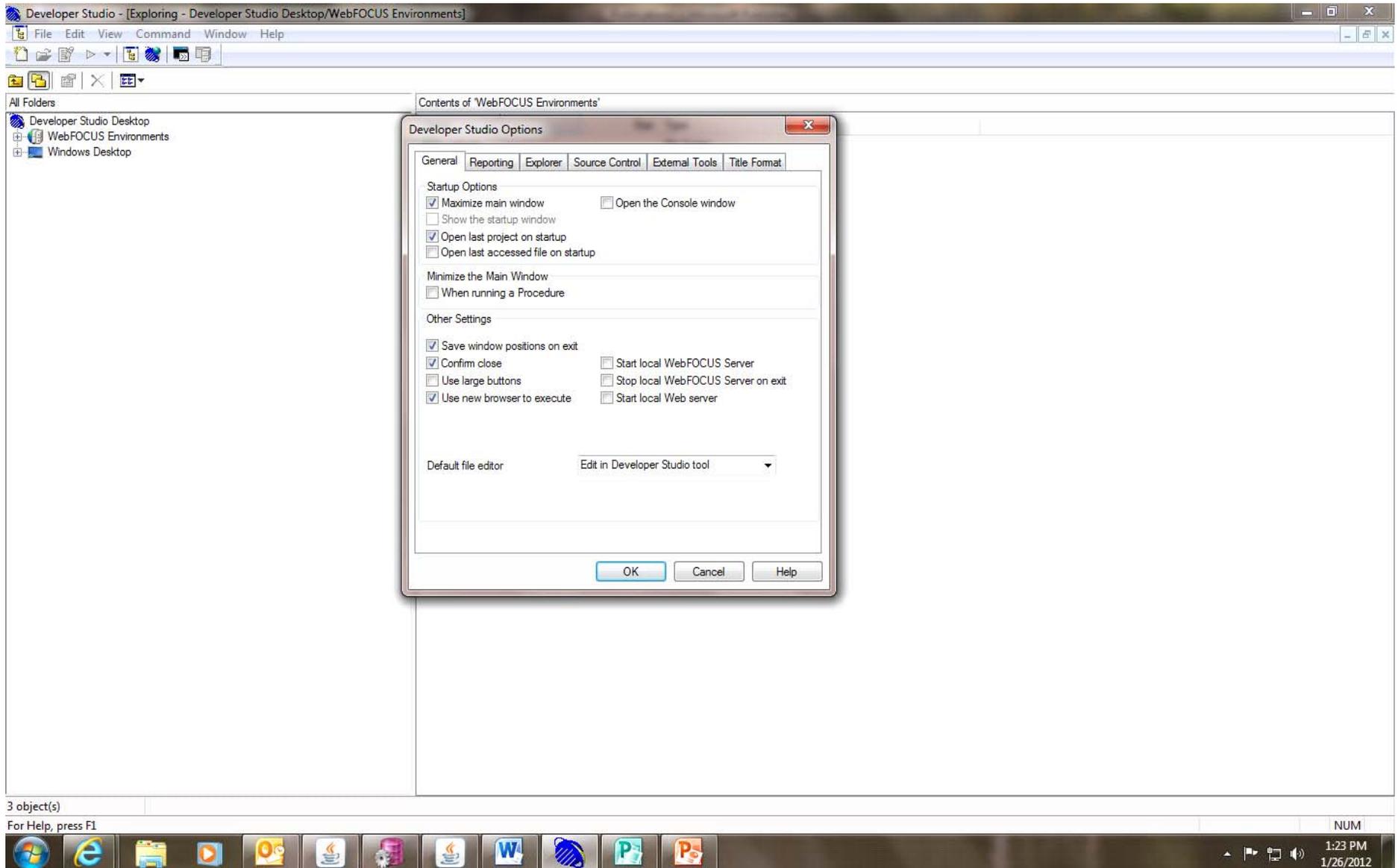
To Add the windows Desktop to your Environments and change windows options

1. Select Window from the Menu bar

2. Select Options

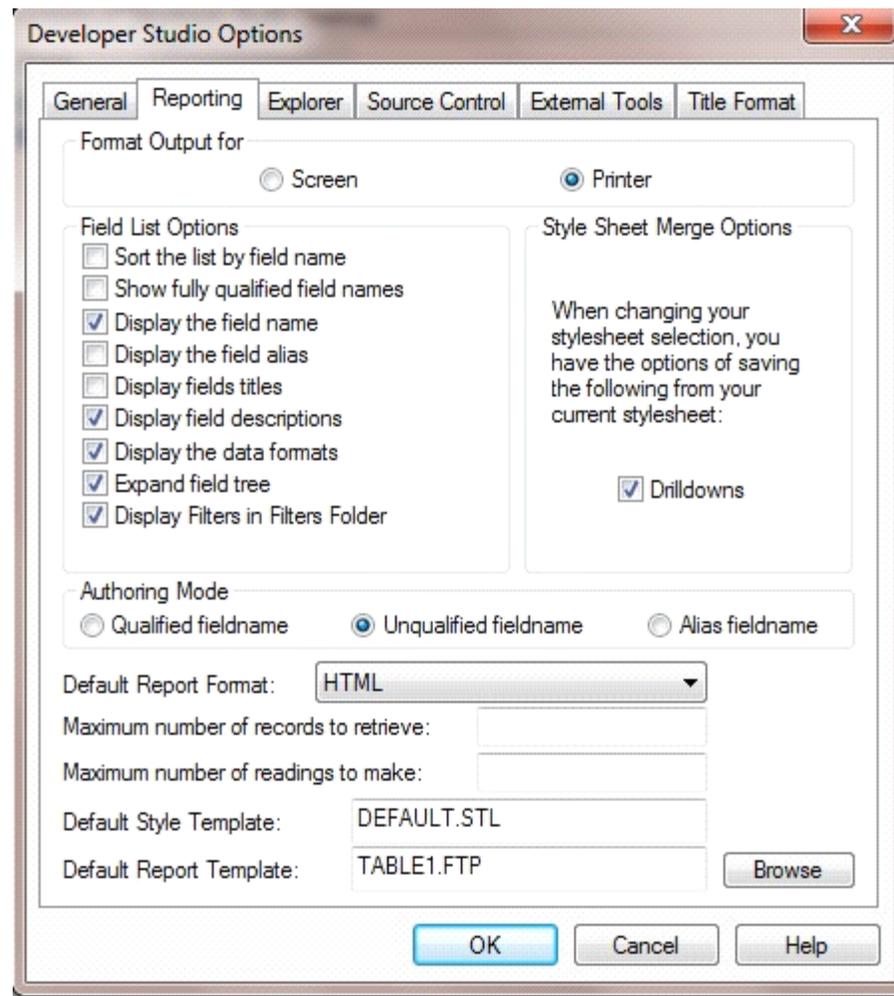


Under the general tab, click Confirm Close, Click Use new browser to execute.  
Click the Reporting tab.



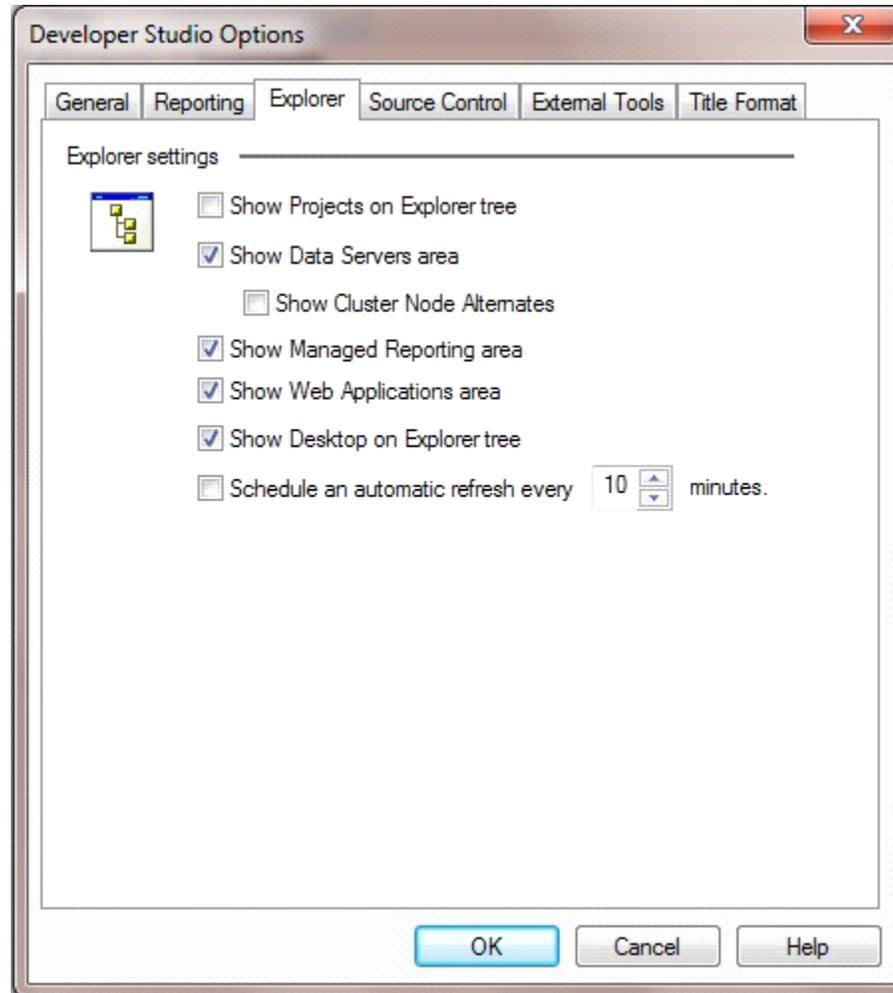
## Under the Reporting Tab

1. Click the check box for Display the data formats
2. Make sure Authoring Mode is set to unqualified fieldname
3. Verify that the default.sty is the default Style Template
4. Click the Explorer tab.

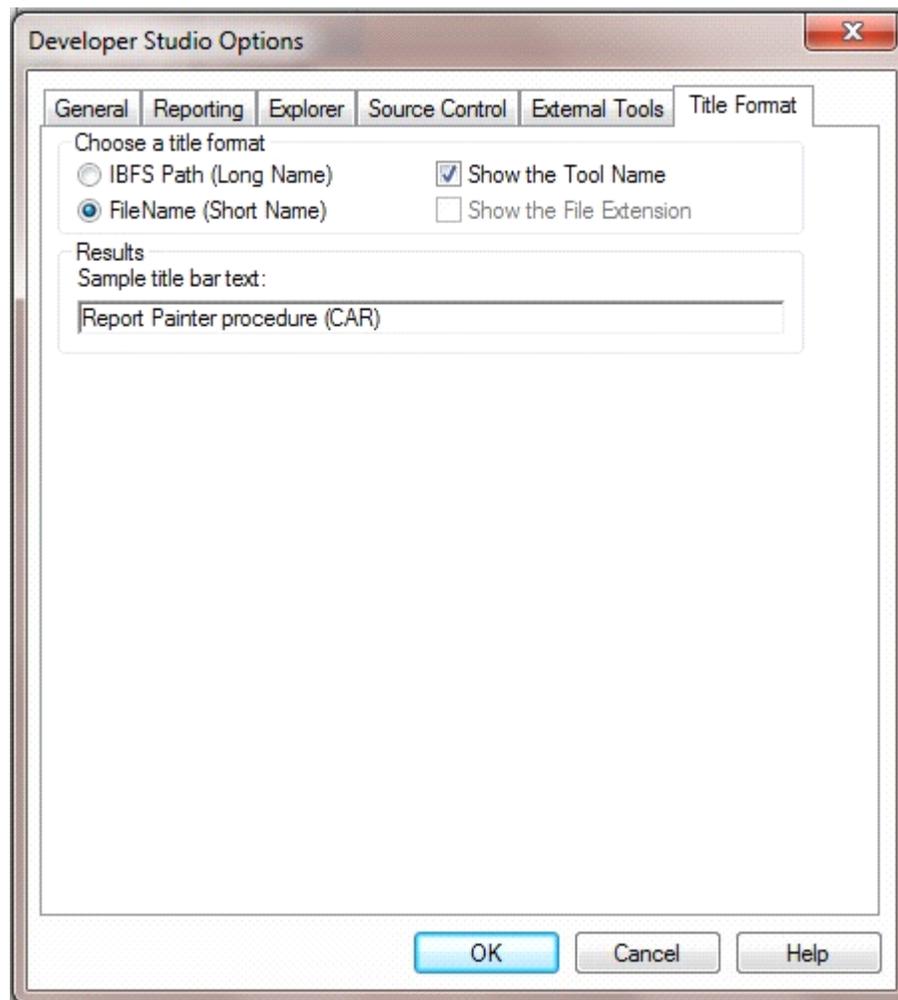


Under the explorer tab

1. Click the checkbox for Show Desktop on Explorer tree.
2. Deselect the check box for Show Projects on Explorer Tree.



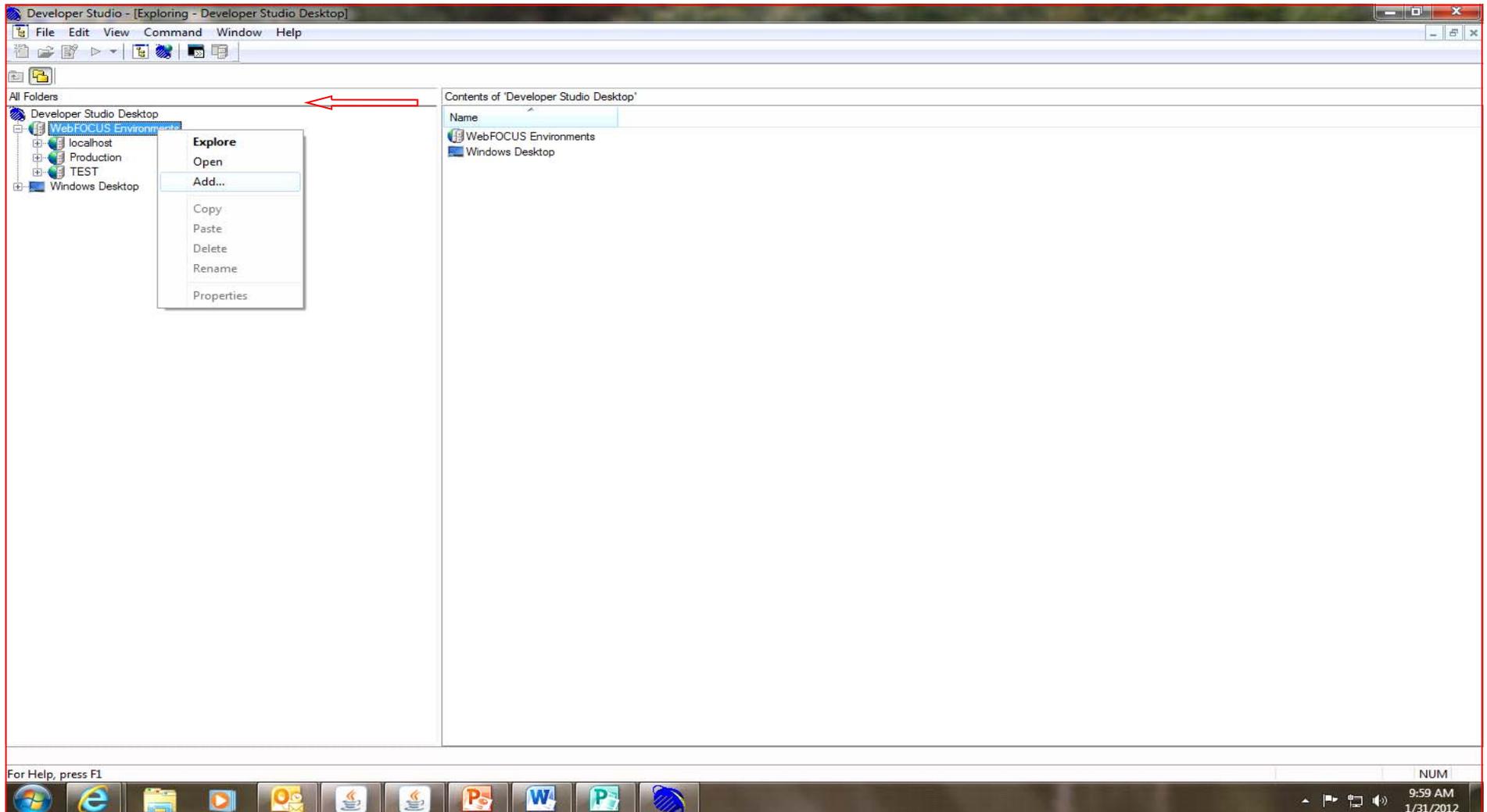
1. Click the Source Control tab. - Source Control Tab allows support for Third Party version control management.
2. Click the external Tools Tab – registered external tools can be managed from this tab.
3. The Title Format tab allows you to customize the information display in Developer Studio Title Bar.
4. Click Filename (Short Name) if not already selected
5. Click Show the Tool name if not already selected.
6. Click OK to save and return to the Application Explorer.

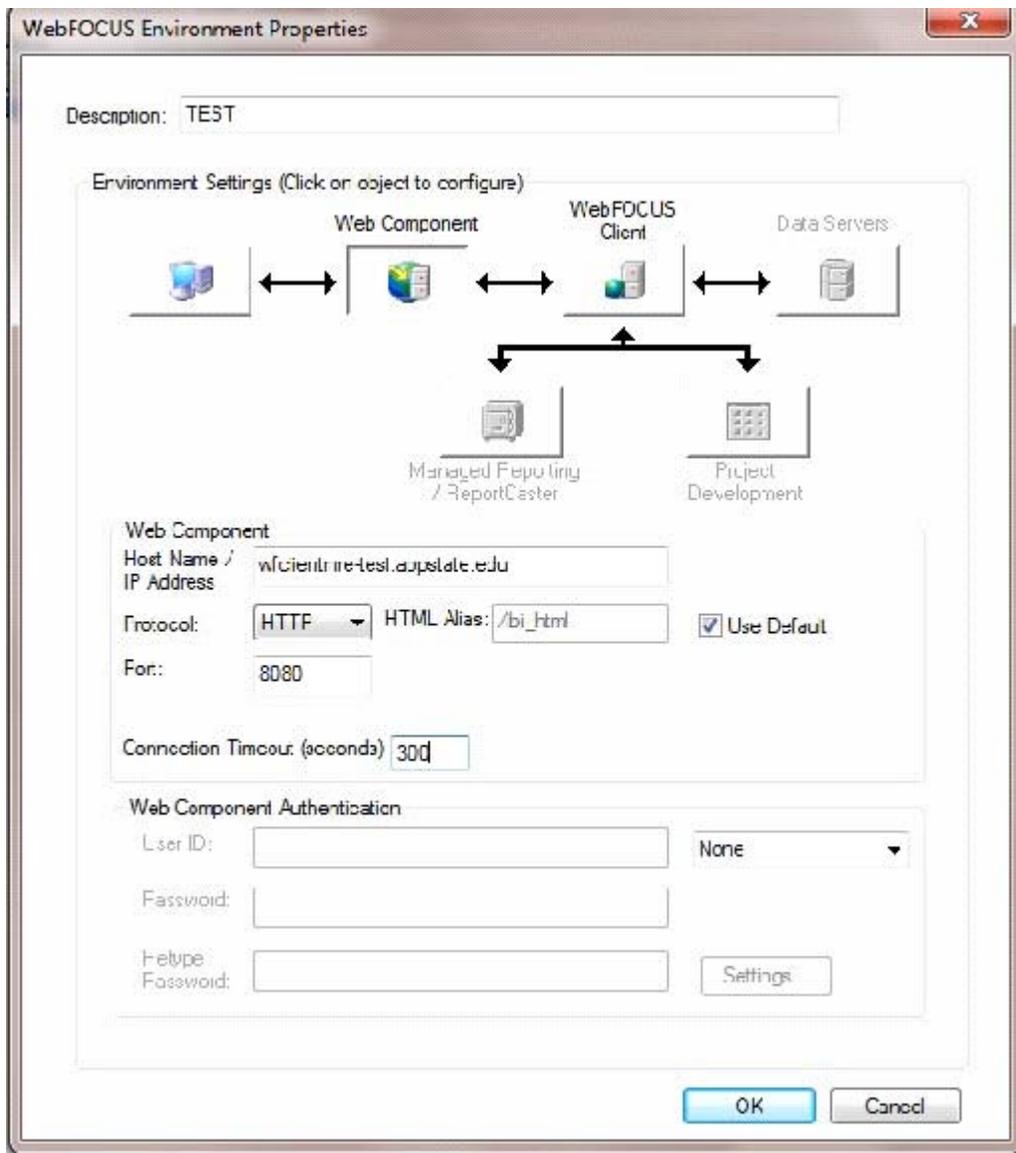


## Exercise 2 :

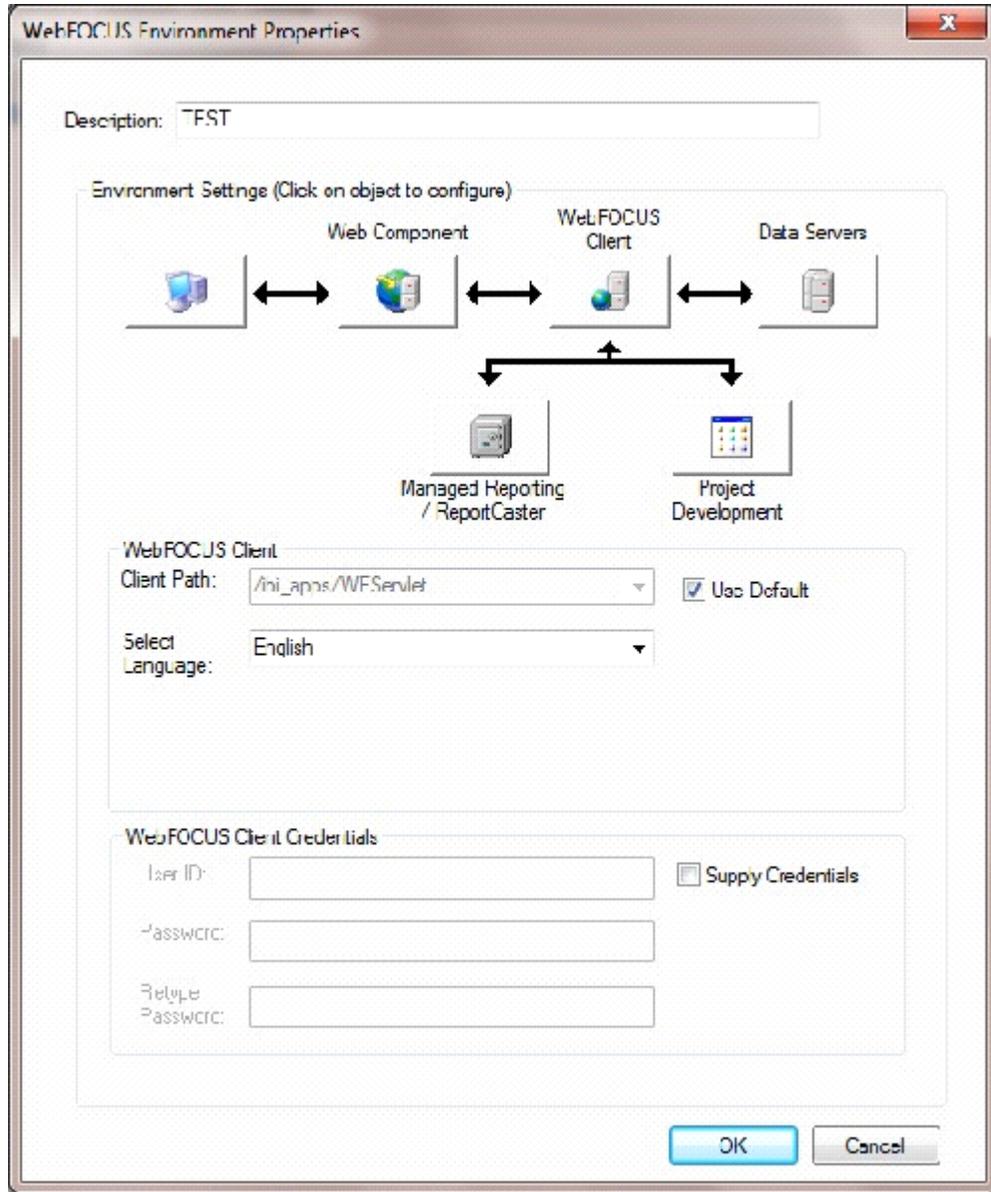
Add the TEST WebFOCUS Environment to your WebFOCUS Environments in Developer Studio.

1. Open Developer Studio
2. Right-click the WebFOCUS Environments node in the application explorer
3. Select Add.

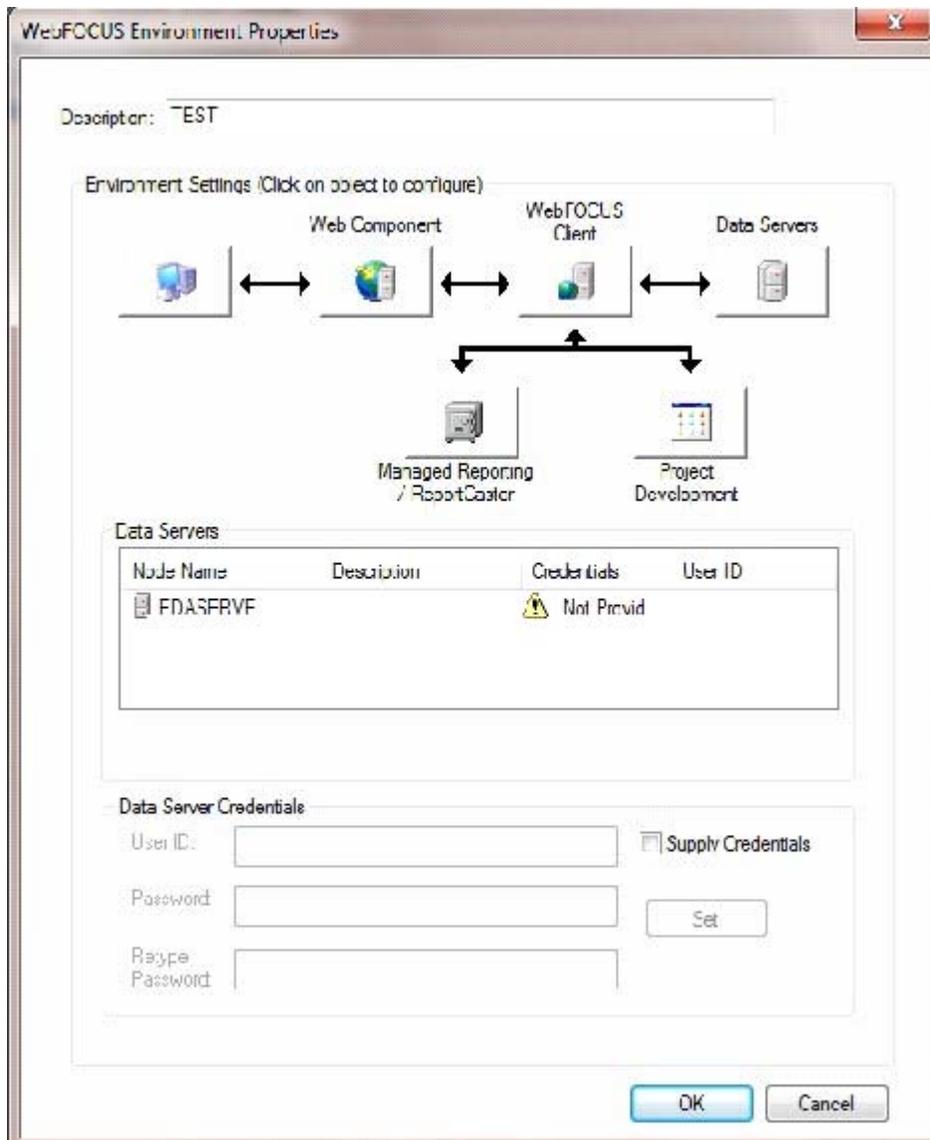




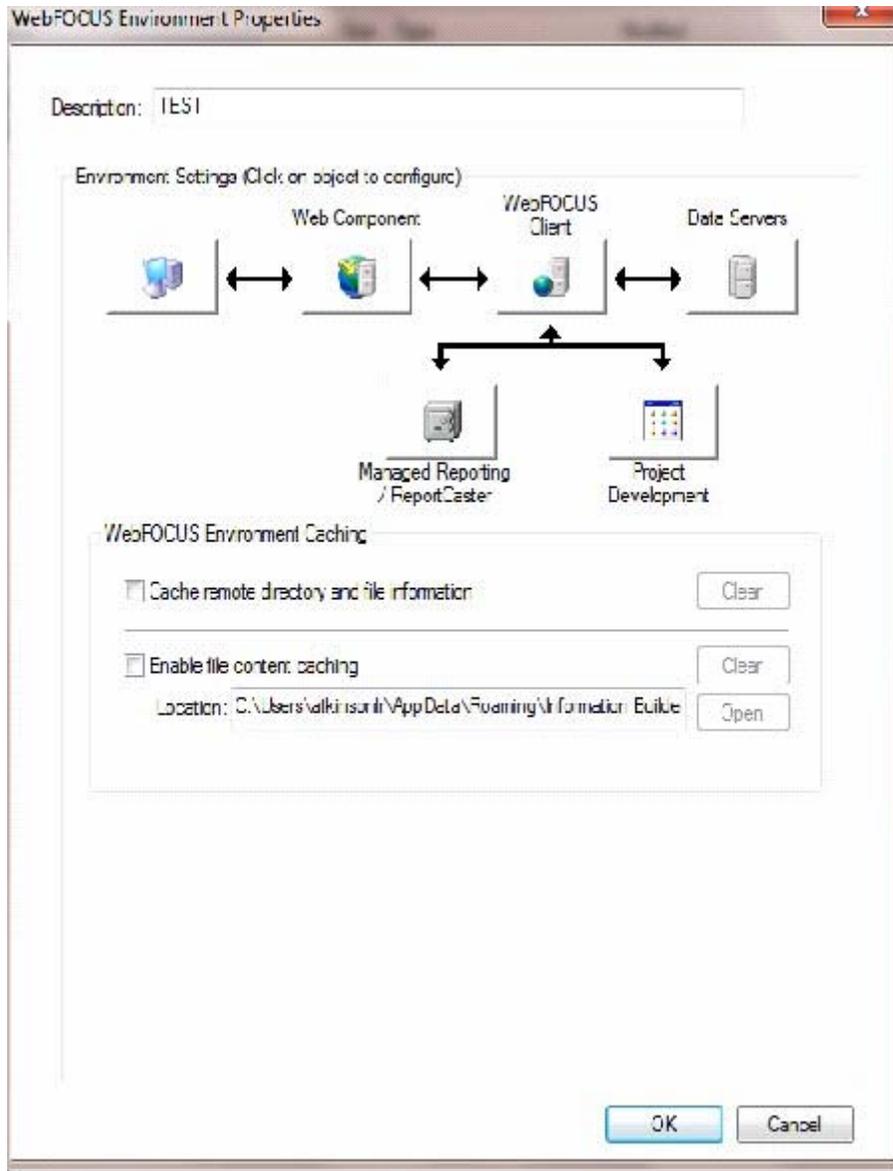
1. Enter the following Description for the new environment - TEST1
2. In the Host Name/ IP address box enter the following - wfclientmre-test.appstate.edu
3. Leave the protocol HTTP,
4. Leave the Port 8080
5. Change the Connection Timeout (seconds) 300
- 6 Under Web Component Authentication
  - A. Select BASIC
  - B. Enter your username and password



1. Click the WEBFOCUS Client Button, accept the default settings
2. Click Data Servers Button



1. Here the node name of the server, EDASERVE
2. Click supply credentials and enter your username and password.
3. Click Set button. You will notice that the Not provided is changed to Provided and turns green.
4. Click Local Machine button



The local machine button is used to manage Caching in Developer Studio

Cache remote directory and file information—unchecked is the default.

- A. Unchecked—developer studio will access and query the reporting server for each request for a list of files stored on the server.
- B. Checked—developer studio will use cache to store and retrieve information about files stored on the Reporting server.

Enable File content caching—unchecked is the default.

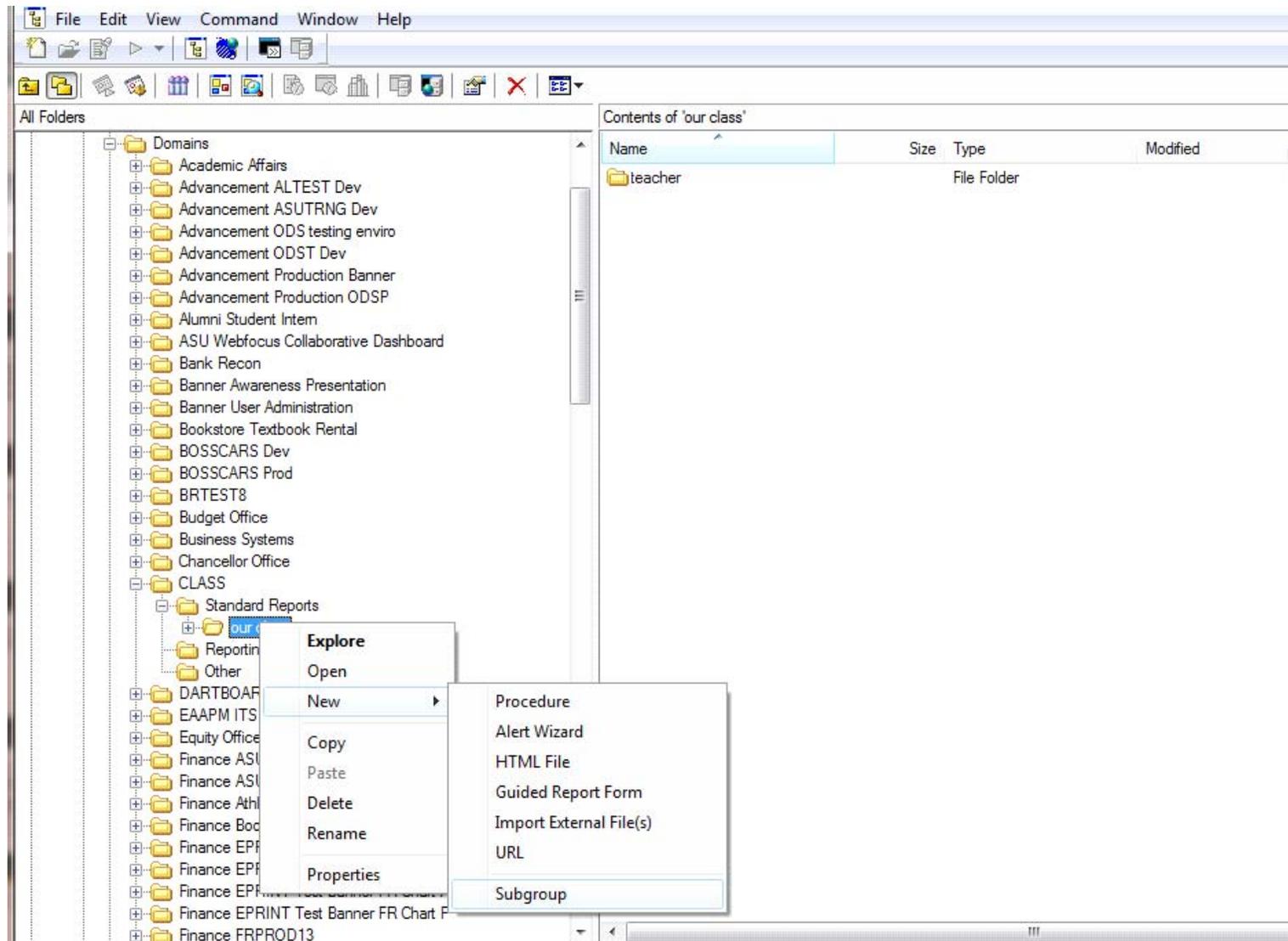
- A. Unchecked—developer studio will access and query the reporting server for each request for files stored on the server
- B. Checked— developer studio will access and query the reporting server once and retrieve and store the files locally in the directory identified in the location box.

To refresh the cache, click the clear buttons or restart developer studio.

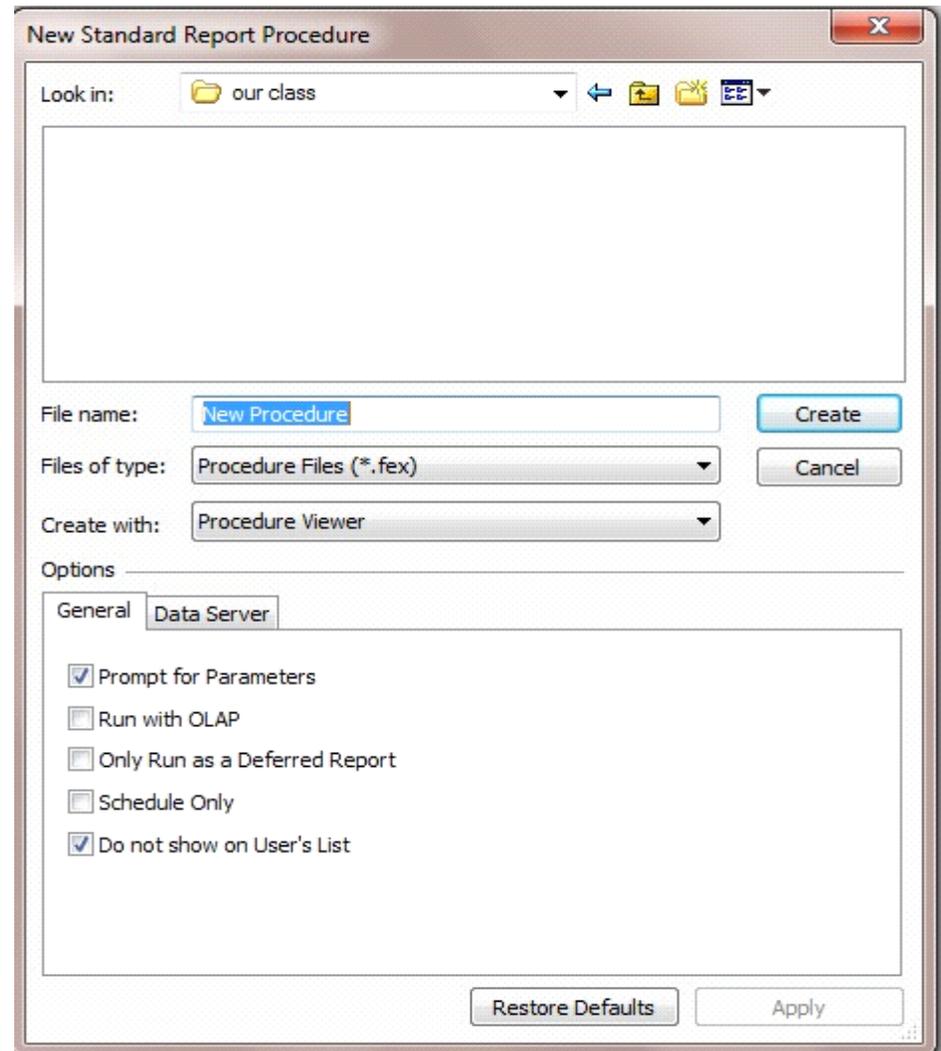
Click OK to return to the Webfocus Environments Properties Window.

### Exercise 3.1— Create a new procedure using Report Painter

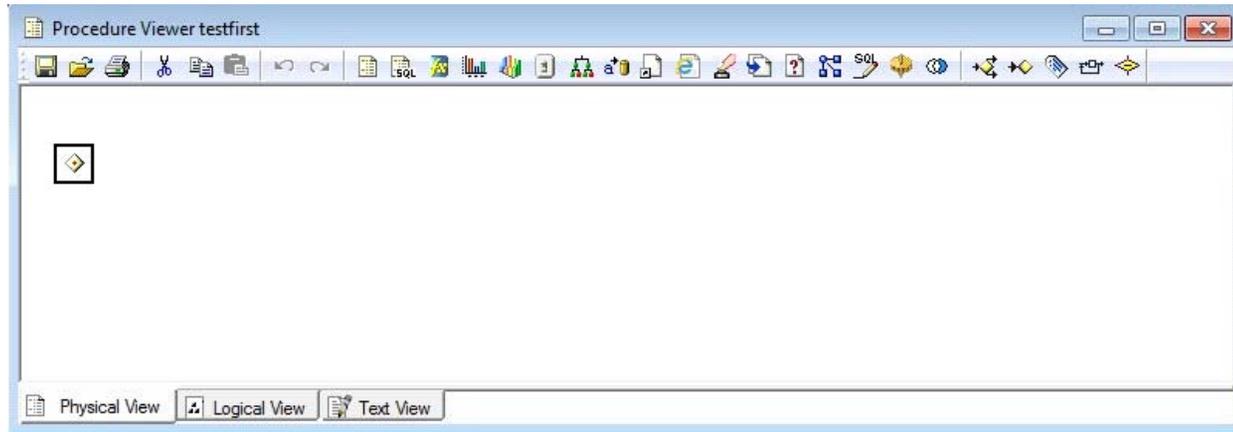
1. Open Developer Studio
2. Expand the TEST webfocus Environment, navigate to CLASS DOMAIN, expand standard reports folder, select our class folder.
3. Right click on our class folder and select New -> Subgroup -> type your name in place of new folder. (linda)



4. Right Click on your name folder and Select New -> Procedure
5. Replace the default name with yourfirstname 3 (testf3)
6. Verify that procedure Viewer is the selected in the create with box.
7. Click Create.

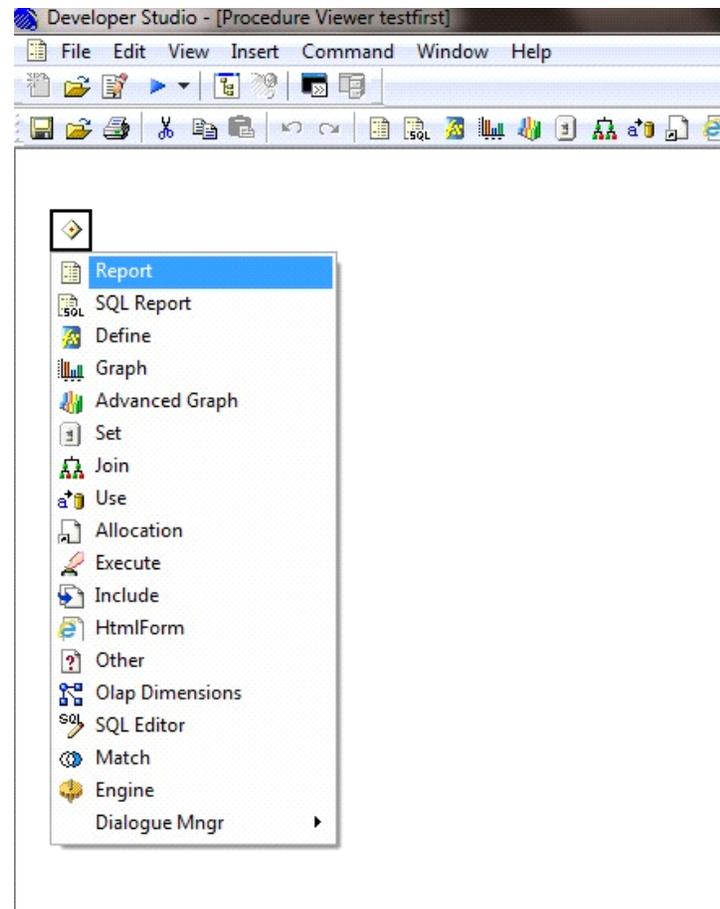


The procedure Viewer window opens:



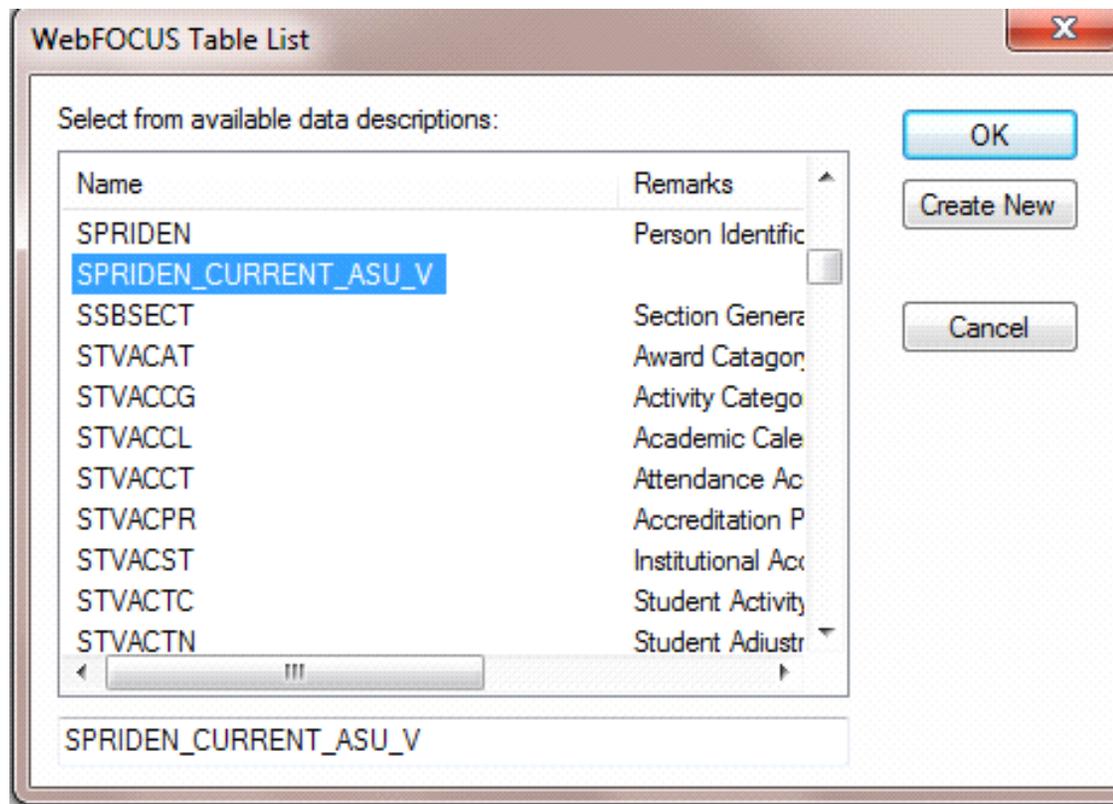
7. Click the component connector

8. Select the Report component



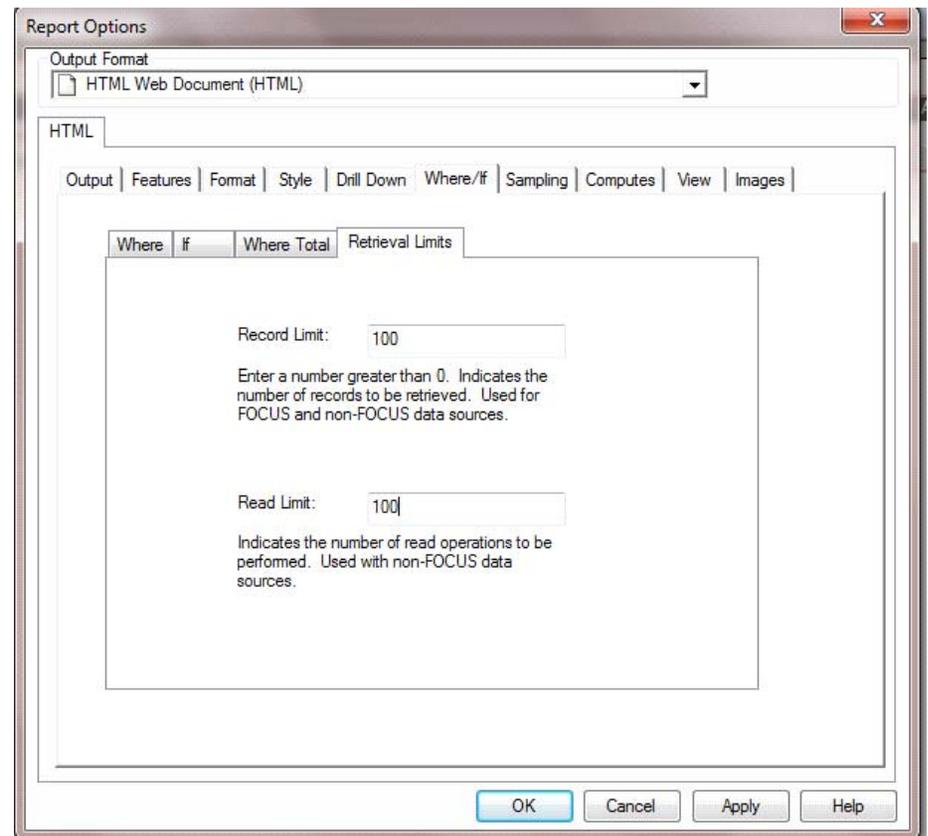
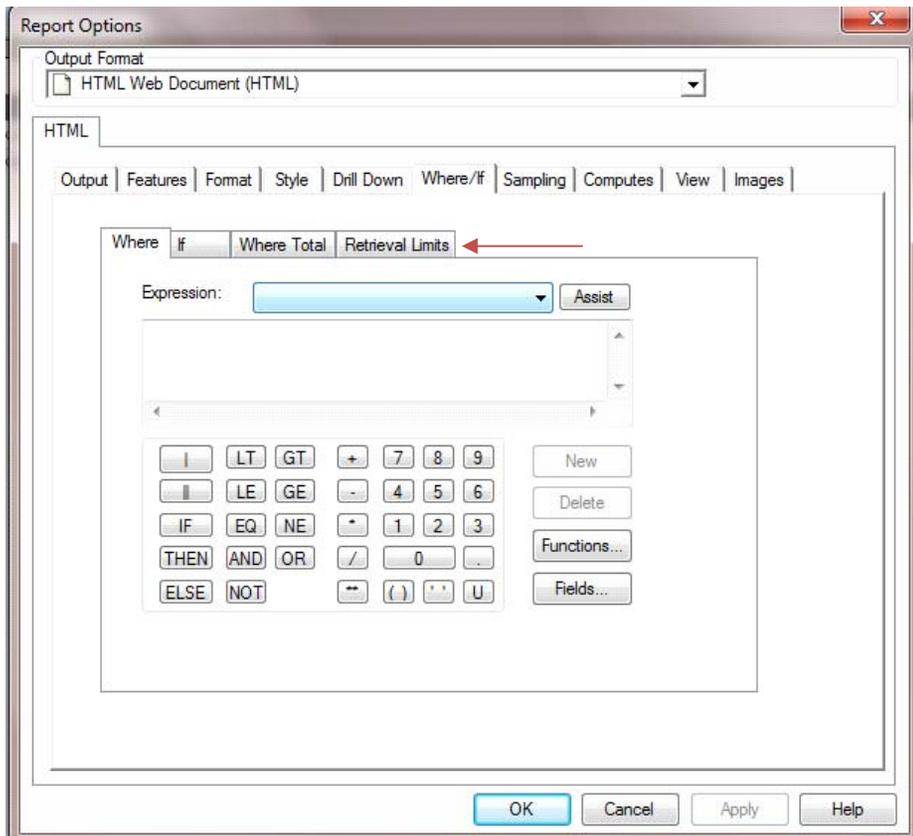
The WebFOCUS Table list Window opens

1. Select SPRIDEN\_CURRENT\_ASU\_V from the list
2. Click OK





4. Click the Retrieval Limits button.
5. Enter 100 in the record limit box and the Read limit box.
6. click OK.



7. Click the Run Button

WebFOCUS sends the unsorted output to the Web browser. Click the X to close the report output.

Next we will sort the output.

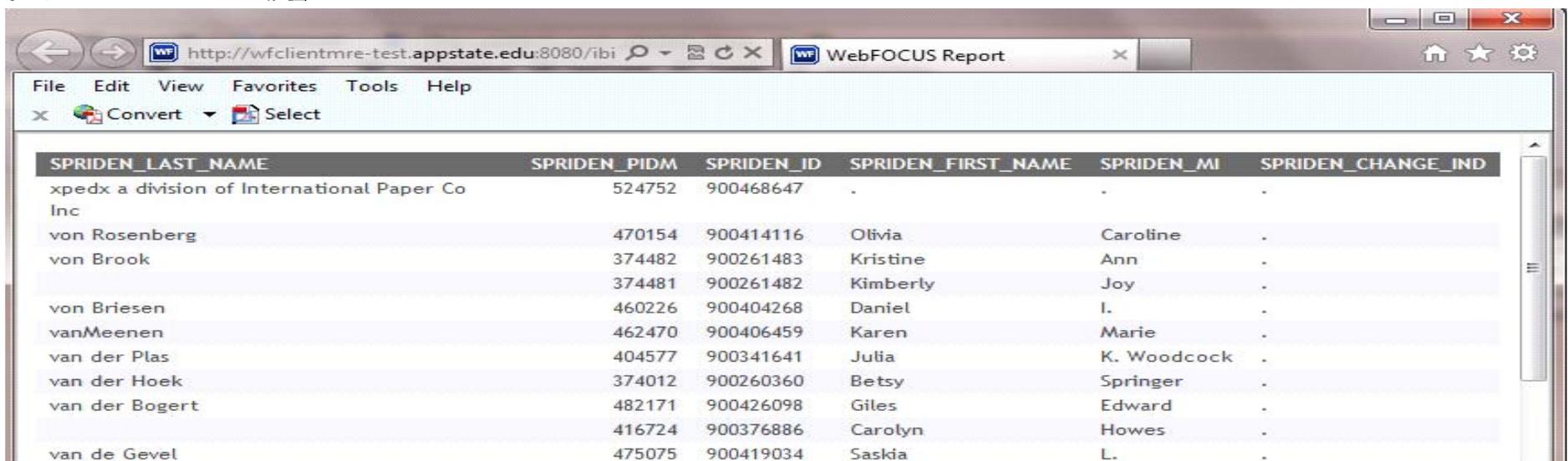
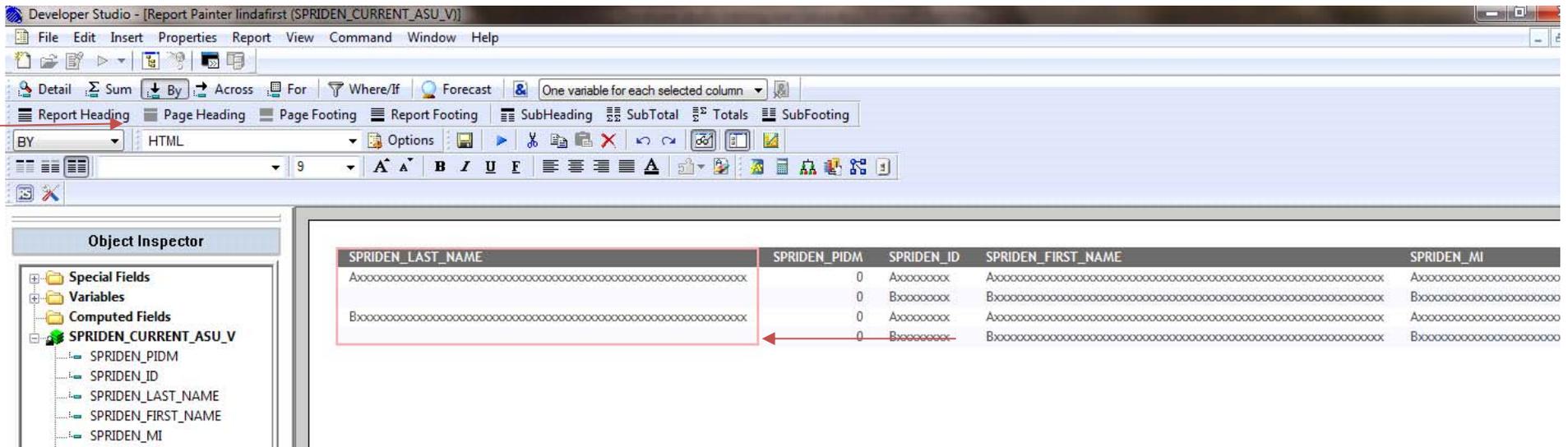
The image shows two overlapping windows. The top window is 'Developer Studio - [Report Painter lindafirst (SPRIDEN\_CURRENT\_ASU\_V)]'. It features a menu bar (File, Edit, Insert, Properties, Report, View, Command, Window, Help) and a toolbar with various icons. Below the toolbar is a 'PRINT' dropdown menu set to 'HTML'. The main area displays a report table with the following columns: SPRIDEN\_PIDM, SPRIDEN\_ID, SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, and SPRIDEN\_MI. The data rows are currently unsorted. On the left side of the Developer Studio window is an 'Object Inspector' pane showing a tree view of the report's structure, including 'Special Fields', 'Variables', 'Computed Fields', and the current report 'SPRIDEN\_CURRENT\_ASU\_V' with its fields listed.

The bottom window is a web browser displaying 'WebFOCUS Report'. The address bar shows 'http://wfclientmre-test.appstate.edu:8080/ibi'. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The report content is a table with the following columns: SPRIDEN\_PIDM, SPRIDEN\_ID, SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, and SPRIDEN\_CHANGE\_IND. The data is sorted by SPRIDEN\_PIDM in ascending order.

SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	SPRIDEN_CHANGE_IND
518	900000026	Wilcox	Kevin	Michael	.
519	900000027	Kershner	Amanda	Nicole	.
520	900000028	Lampley	Audra	Bevan	.
521	900000029	Kirkpatrick	Rickey	C.	.
522	900000030	Taylor	Rabon	H.	.
523	900000031	Stewart	Glenda	S.	.
524	900000032	Turner	Elizabeth	Ausley	.
525	900000033	Pridgen	Amy	Michelle	.
526	900000034	Carzoli	Annemarie	Page	.
1001	900001001	Kwaji	Dauda	J.	.
1002	900001002	Chen	Gao	.	.
1004	900001004	Ingersoll	Richard	Craig	.
1005	900001005	Moll	Krista	Beth	.
1006	900001006	Nunn	Tasha	Noel	.
1007	900001007	Karabinis	Nikki	Virginia	.

## EXERCISE 3.2 SORTING

1. Select the spriden\_last\_name field in your \*\*\*\*\*3 report.
2. Click the **By** button located on the columns toolbar. (by default the spriden\_last\_name field is moved to the first column in the report.)
3. Click **Run**. Notice the report order is by last name now. Close the report output.



Lets return to our report and sort by spriden\_last\_name, spriden\_first\_name, and spriden\_mi

1. Select spriden\_first\_name field in the report painter window.
2. Multi-select the spriden\_mi
3. Click **By**

The changes are reflected in the report painter window.

4. Click **Run** The report is now sorted by spriden\_last\_name, spriden\_first\_name and then spriden\_mi. Close the report output.

The image shows two screenshots from a report development environment. The top screenshot is the 'Report Painter' window for 'lindafirst (SPRIDEN\_CURRENT\_ASU\_V)'. The 'Object Inspector' on the left shows the 'Computed Fields' section with 'SPRIDEN\_CURRENT\_ASU\_V' selected. The main area shows a table with columns: SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, SPRIDEN\_PIDM, SPRIDEN\_ID, and SPRIDEN\_CHANGE\_IND. A red box highlights the 'SPRIDEN\_FIRST\_NAME' and 'SPRIDEN\_MI' columns. The 'BY' dropdown is set to 'HTML'. The bottom screenshot is a 'WebFOCUS Report' browser window showing the rendered report data.

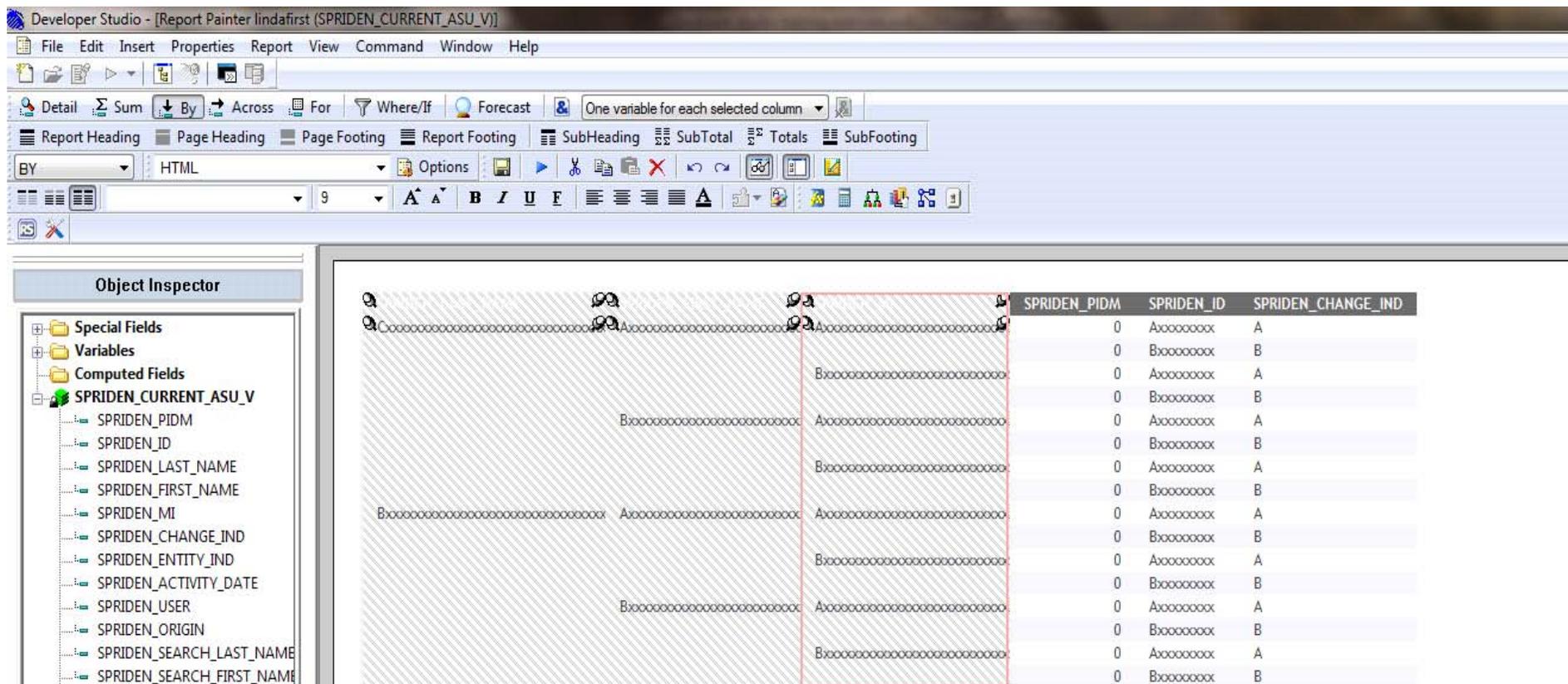
SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_CHANGE_IND
Zimmerman	Shawn	Steven	1031	900001031	.
Wilcox	Kevin	Michael	518	900000026	.
Vinci	Debra	M.	1069	900001069	.
Villanova	Peter	D.	1084	900001084	.
Valante	Mary	A.	1046	900001046	.
Tyrie	Carl	H.	1047	900001047	.
Turner	Elizabeth	Ausley	524	900000032	.
Taylor	Rabon	H.	522	900000030	.
Stoddard	James	E.	1034	900001034	.



Below is a screen shot of what the hidden fields will look like in your report painter window.

Now we will add back the fields to get our display to be spriden\_pidm, spriden\_id, spriden\_last\_name, spriden\_first\_name, spriden\_mi, spriden\_change\_ind.

1. Place your cursor after Spriden\_id and select Spriden\_last\_name in the object inspector and double click.
2. Select Spriden\_first\_name in the object inspector and double click.
3. Select spriden\_mi in the object inspector and double click.







## Add a page Footing

1. Click the page footing button.
2. Click in the page footing area in the report painter window.
3. Type PREPARED ON:
4. Right click directly after PREPARED ON:
5. Select Insert Date
6. Select an appropriate date from the list.
7. Click Run. Close the report output

The screenshot shows the Developer Studio interface for a report painter. The main window displays a report titled "SIMPLE PERSON LIST" with a table of data. The table has columns for SPRIDEN\_PIDM, SPRIDEN\_ID, SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, and SPRIDEN\_CHANGE\_IND. The data is presented in a grid format with placeholder text like "Axxxxxxxxx" and "Bxxxxxxxxx".

The "Page Footing" area at the bottom of the report contains the text "PREPARED ON:". A context menu is open over this text, showing options such as "Options...", "Footing Bottom", "Insert Date", "Insert Spotmarker...", "Insert Page Markers", and "Alignment Grid...". The "Insert Date" option is selected, and a sub-menu is visible showing a list of dates: "02/02/12", "02/02/2012", "Feb 2, 2012", "February 2, 2012", "2 FEB, 2012", and "Q1 2012".

The "Object Inspector" on the left side of the window shows a tree view of the report's structure, including "Special Fields", "Variables", and "Computed Fields". The "Computed Fields" section is expanded to show the "SPRIDEN\_CURRENT\_ASU\_V" object, which contains various fields like "SPRIDEN\_PIDM", "SPRIDEN\_ID", "SPRIDEN\_LAST\_NAME", etc.

The Windows taskbar at the bottom shows the system clock as 3:19 PM on 2/2/2012.

## Change a Column Heading

1. Highlight Spriden\_last\_name filed
2. Right click, select column title, change the title to Last\_Name, click OK
3. Change the column title for Spriden\_first\_name to First\_Name
4. Change the column title for Spriden\_mi to Middle\_Initial
5. Click Run. Close the report output.
6. Click File from the menu bar and select Save
7. Click File from the menu bar again and select Close.

Page Heading

**SIMPLE PERSON LIST**

SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	SPRIDEN_CHANGE_IND
0	Axxxxxxxx	Axxxxxxxx	xxxxxxxxxxxx	Axxxxxxxx	A
0	Bxxxxxxxx	Bxxxxxxxx	xxxxxxxxxxxx	Bxxxxxxxx	B
0	Axxxxxxxx	Axxxxxxxx	xxxxxxxxxxxx	Axxxxxxxx	A
0	Bxxxxxxxx	Bxxxxxxxx	xxxxxxxxxxxx	Bxxxxxxxx	B
0	Axxxxxxxx	Axxxxxxxx	xxxxxxxxxxxx	Axxxxxxxx	A
0	Bxxxxxxxx	Bxxxxxxxx	xxxxxxxxxxxx	Bxxxxxxxx	B
0	Axxxxxxxx	Axxxxxxxx	xxxxxxxxxxxx	Axxxxxxxx	A
0	Bxxxxxxxx	Bxxxxxxxx	xxxxxxxxxxxx	Bxxxxxxxx	B
0	Axxxxxxxx	Axxxxxxxx	xxxxxxxxxxxx	Axxxxxxxx	A
0	Bxxxxxxxx	Bxxxxxxxx	xxxxxxxxxxxx	Bxxxxxxxx	B
0	Axxxxxxxx	Axxxxxxxx	xxxxxxxxxxxx	Axxxxxxxx	A
0	Bxxxxxxxx	Bxxxxxxxx	xxxxxxxxxxxx	Bxxxxxxxx	B
0	Axxxxxxxx	Axxxxxxxx	xxxxxxxxxxxx	Axxxxxxxx	A
0	Bxxxxxxxx	Bxxxxxxxx	xxxxxxxxxxxx	Bxxxxxxxx	B
0	Axxxxxxxx	Axxxxxxxx	xxxxxxxxxxxx	Axxxxxxxx	A
0	Bxxxxxxxx	Bxxxxxxxx	xxxxxxxxxxxx	Bxxxxxxxx	B

Page Footing

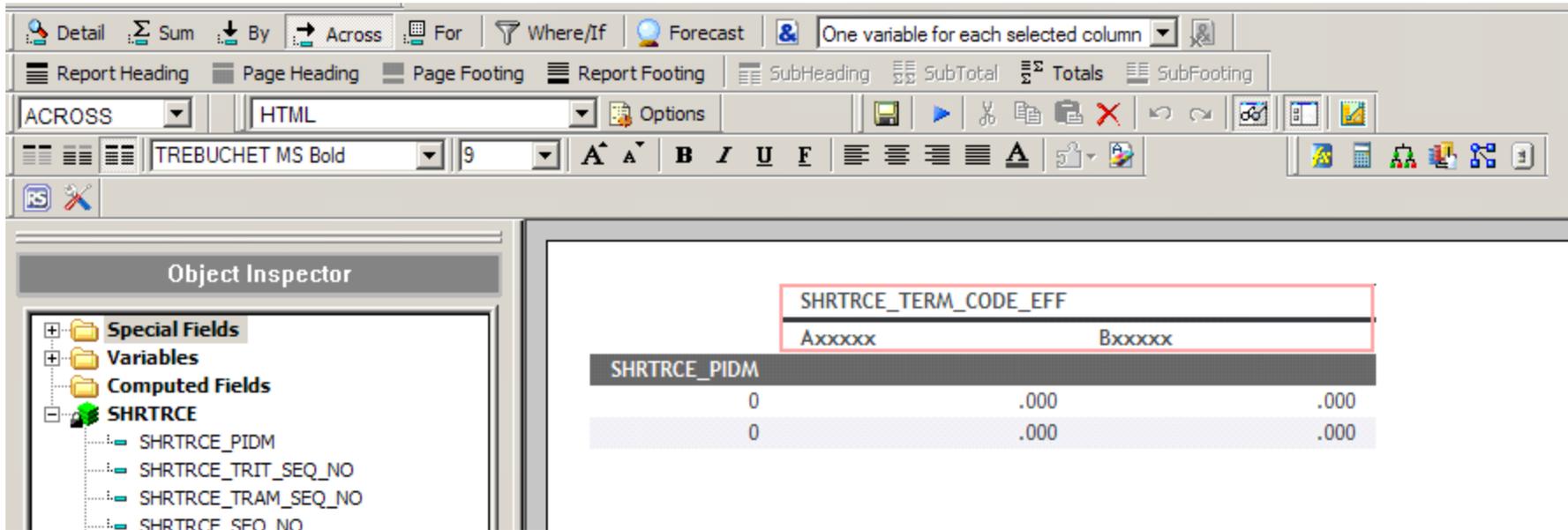
PREPARED ON: February 2, 2012



Next add shrtrce\_pidm to the report. Sort by the shrtrce\_pidm

Highlight the shrtrce\_term\_code\_eff and click on the **Across** button in the column toolbar. Click run.

You now have a matrix report. Close the report output.



		SHRTRCE_TERM_CODE_EFF															
		199640	199810	199910	199940	200010	200030	200040	200120	200140	200210	200220	200240	200320	200530	200910	201120
SHRTRCE_PIDM																	
	518	.	.	.	.	.	.	.	.	.	.	.	62.000	.	.	.	.
	519	.	.	.	.	.	.	6.000	.	.	.	.	.	.	.	.	.
	520	.	.	.	.	.	.	6.000	.	.	.	.	.	.	.	.	.
	525	.	.	.	.	.	.	6.000	.	.	.	7.000	.	6.000	.	.	.
	1006	.	.	.	.	.	.	31.000	.	.	.	7.000	.	.	.	.	.
	1007	.	.	.	.	.	.	.	.	.	.	6.000	.	.	.	.	.
	1008	.	.	.	3.000	.	.	.	.	.	.	.	.	.	.	.	.
	1015	.	3.000	.	.	.	.	.	.	.	.	.	.	.	3.000	.	.

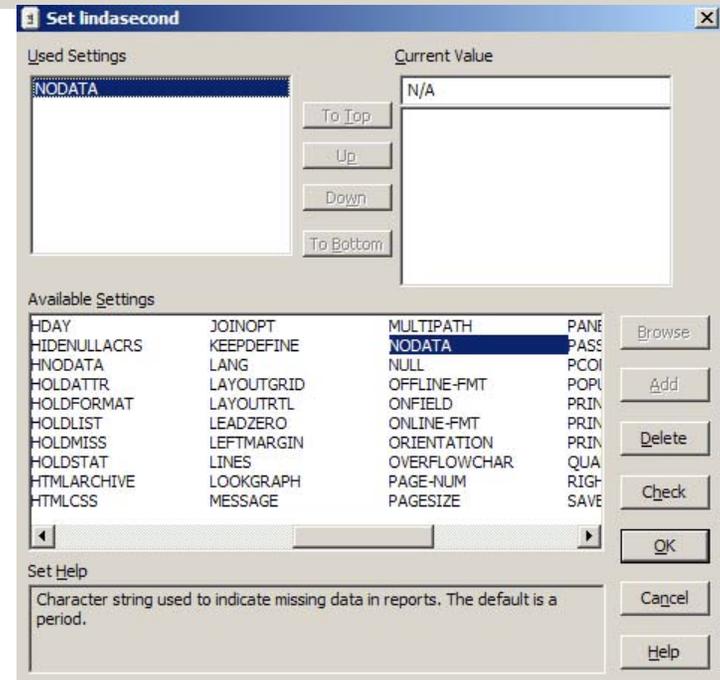
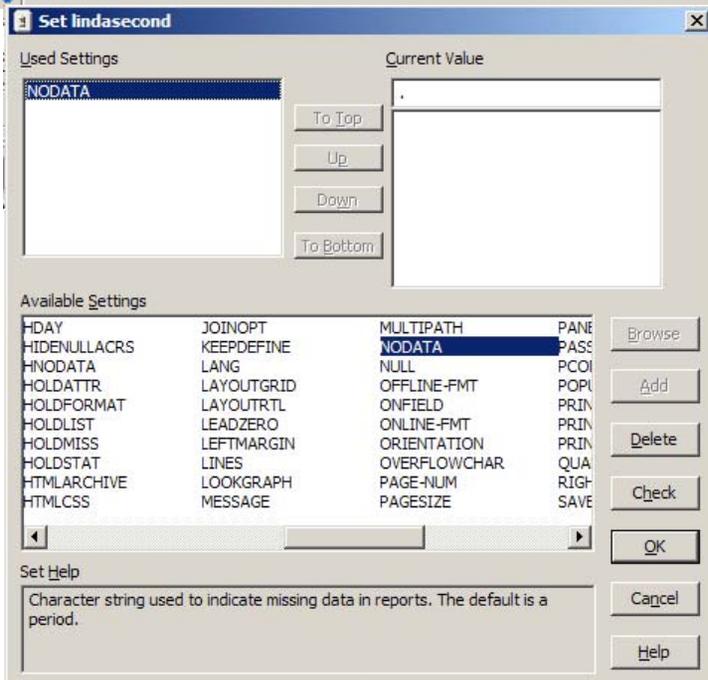
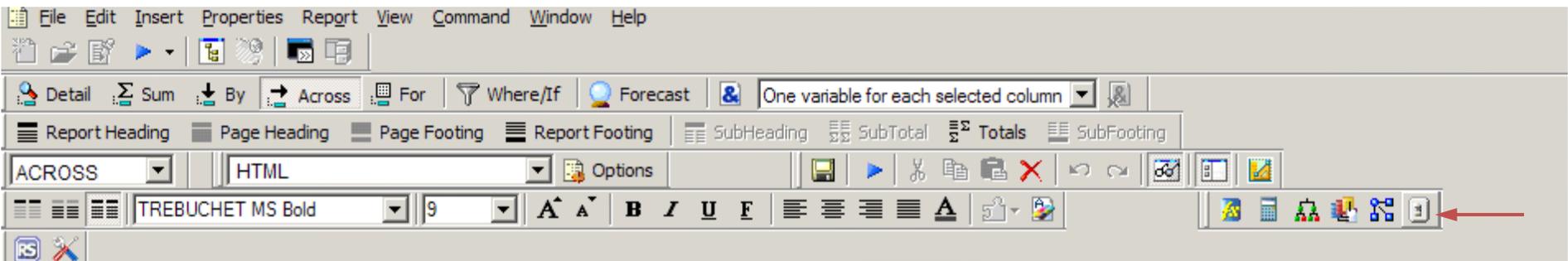
Next we will utilize the SET component. We will change the default NODATA character from a dot to N/A by adding a SET component to the report.

The SET tool looks like a little light switch, click the SET tool. The SET tool opens.

Scroll to the right and select NODATA, double click

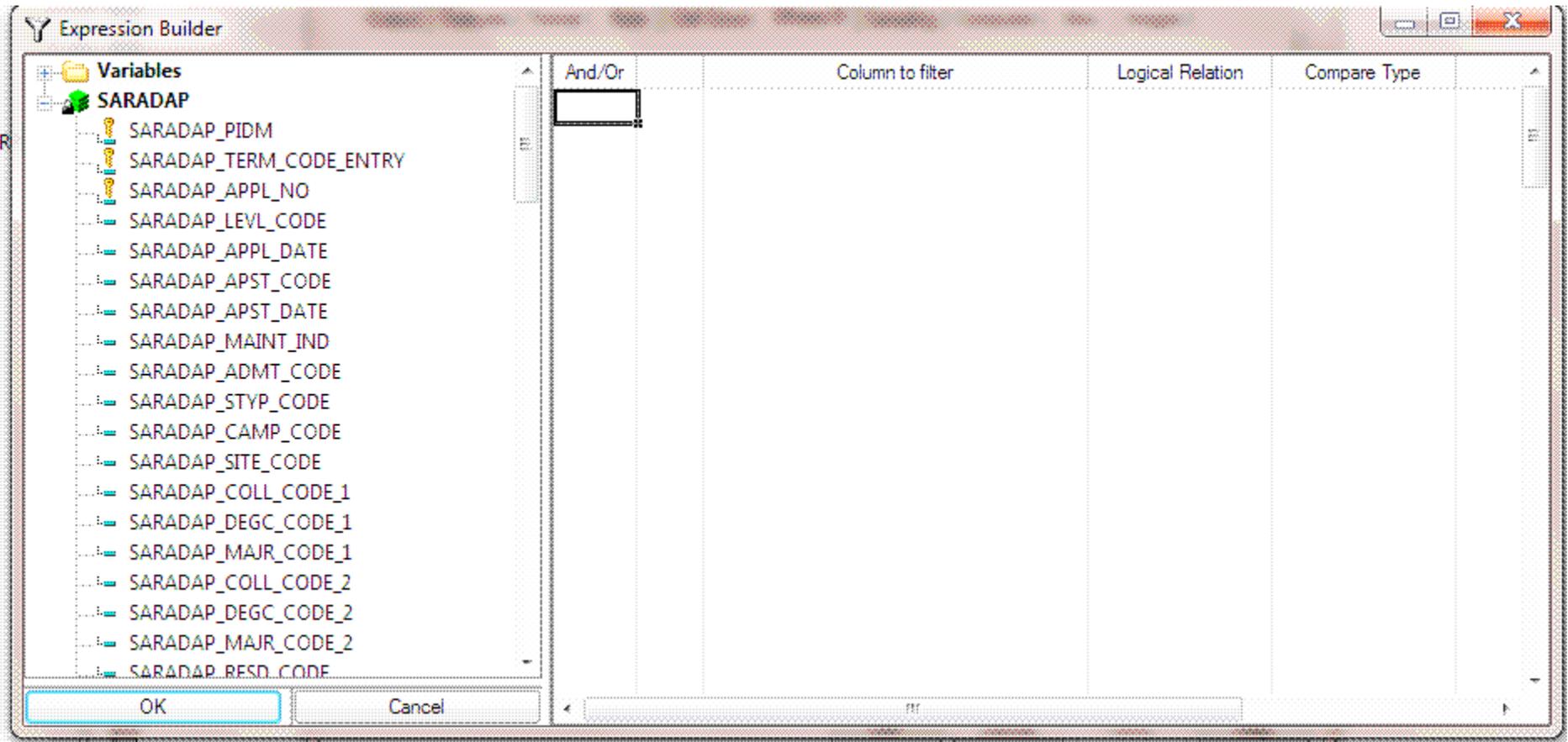
Replace the period in the current value box with N/A, click OK.

Click Run, notice the output now. Close and save the report.



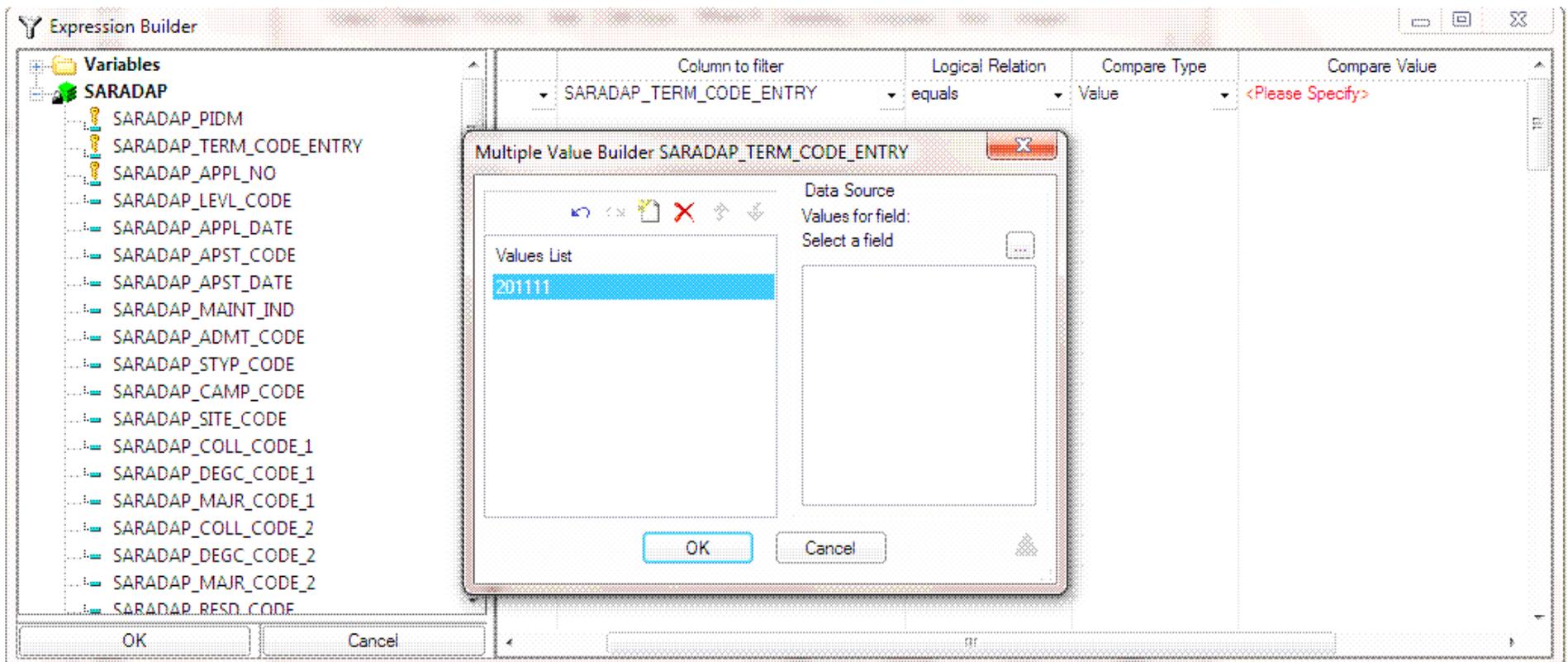
## Exercise 4.1 WHERE

1. Create a new report using SARADAP. Call it yourname4.
2. Add saradap\_pidm, saradap\_term\_code\_entry, saradap\_styp\_code, saradap\_admt\_code to the report, Sort by saradap\_pidm
3. Click Where/IF button and select Retrieval Limits tab and enter 1000 in the record limit box.
4. Click Where tab, click assist.



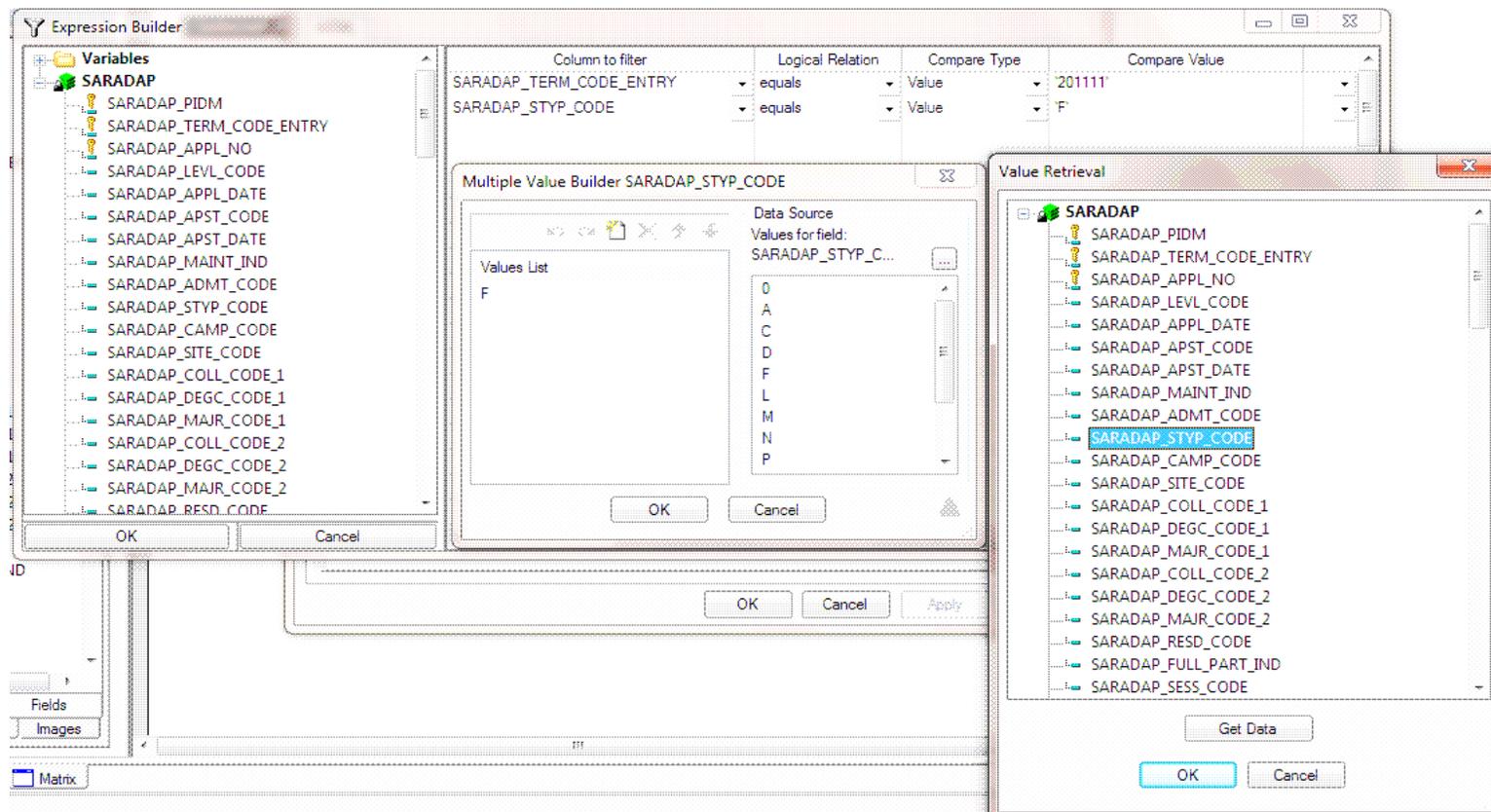
Use the expression builder to create the selection criteria. TERM = 200140 and Student Type = Freshman

1. In the column to filter add saradap\_term\_code\_entry.
2. Select equals in logical relation box.
3. Select Value in compare type box
4. In the compare value box you will double click to bring up the value builder window. Select the new item icon and type in 201110. Click OK.



Add the selection Student Type = Freshman.

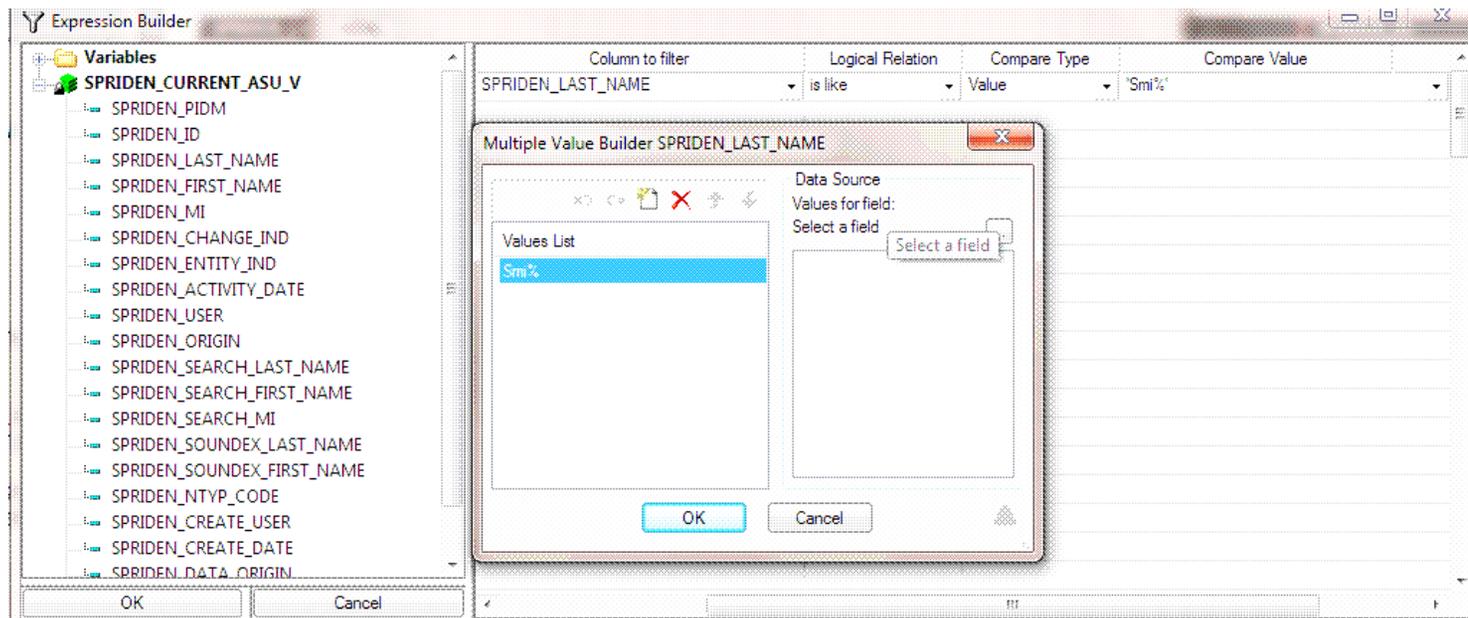
1. In the expression builder add saradap\_styp\_code to the column to filter box.
2. Select Equals in the logical relation box
3. Select Value in the compare type box. Double click in the compare value box. Click the button with the 3 periods to get the data that is in the field. Highlight the saradap\_styp\_code and click the Get Data button, the box under the data source values for field will be populated.
4. Select F from the data source values field box and double click. The Values list will be populated.
5. Click OK, Click Ok again until you return to the report painter window.
6. Run the report, save and close.



## Exercise 4.2

### Masking in a WHERE statement

1. Create a new report called yourname42 using spriden\_current\_asu\_v
2. Add spriden\_last\_name, spriden\_first\_name, and spriden\_mi to the report.
3. Click Where/If button on the column toolbar and select retrieval limits tab,
4. Enter 1000 in the record limit box. Click apply.
5. Select the Where tab and click assist.
6. Add Spriden\_last\_name to column to filter, select is like for Logical Relation, select Value for Compare Type, double click in the compare value box.
7. Click add new item and enter Smi%, click Ok, click OK, click Apply then OK. Run the report. Close the output window.
8. Save and close the report.



## Exercise 4.3

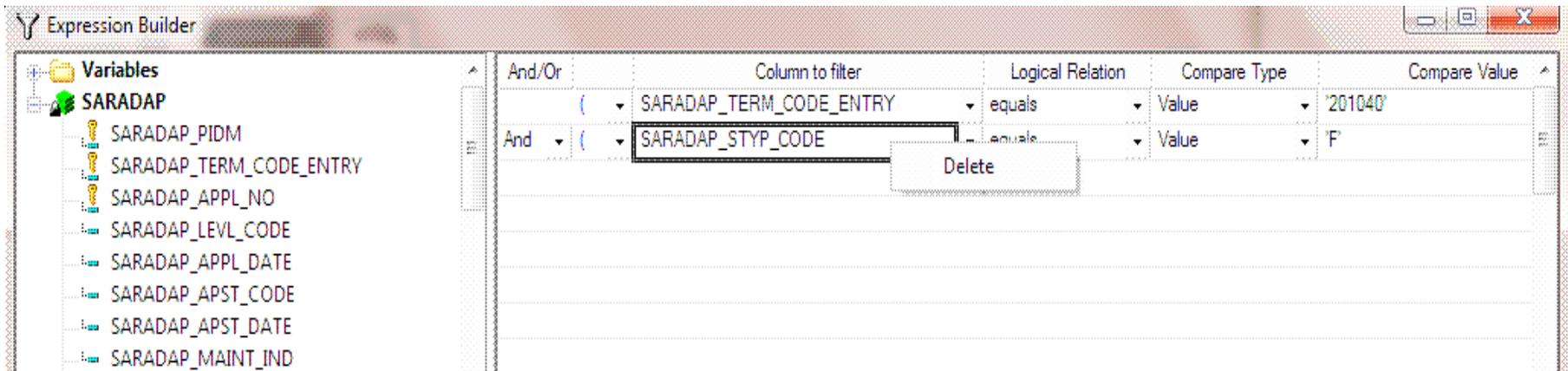
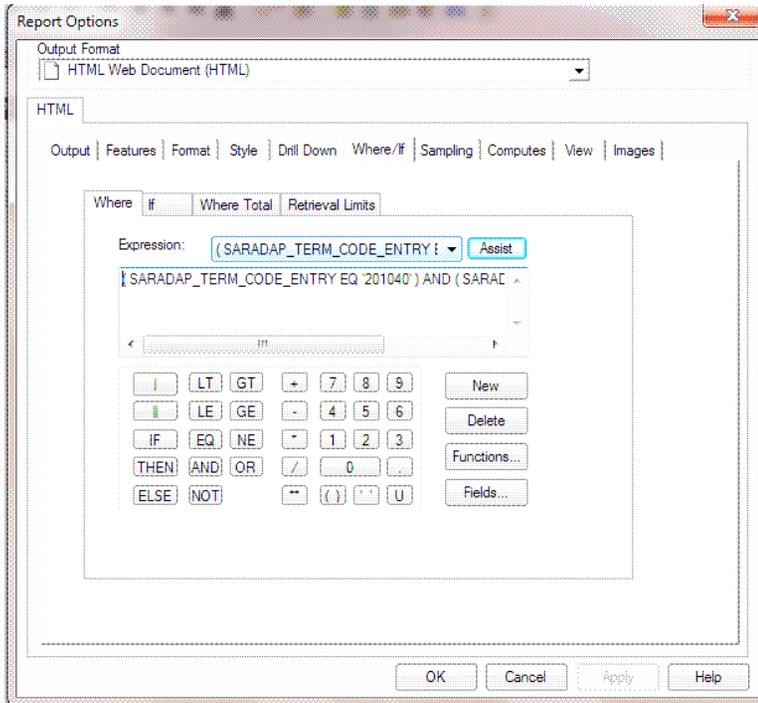
### Compound WHERE statements

1. Highlight and right click on yourname4 report in your folder and select copy.
2. Click anywhere in your folder, right click and select paste. Now you have a report named yourname41
3. Right click on yourname41 and select rename, rename your report to yourname43.
4. Double click yourname43 to open. Double click the report object to open the report painter window.
5. Notice you already have some of the fields in the report.
6. Add saradap\_lvl\_code and remove saradap\_styp\_code.

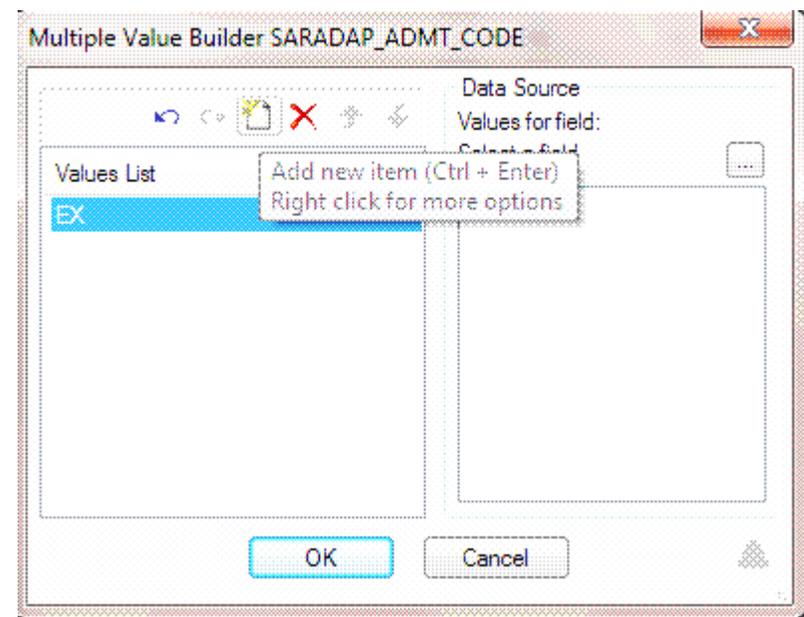
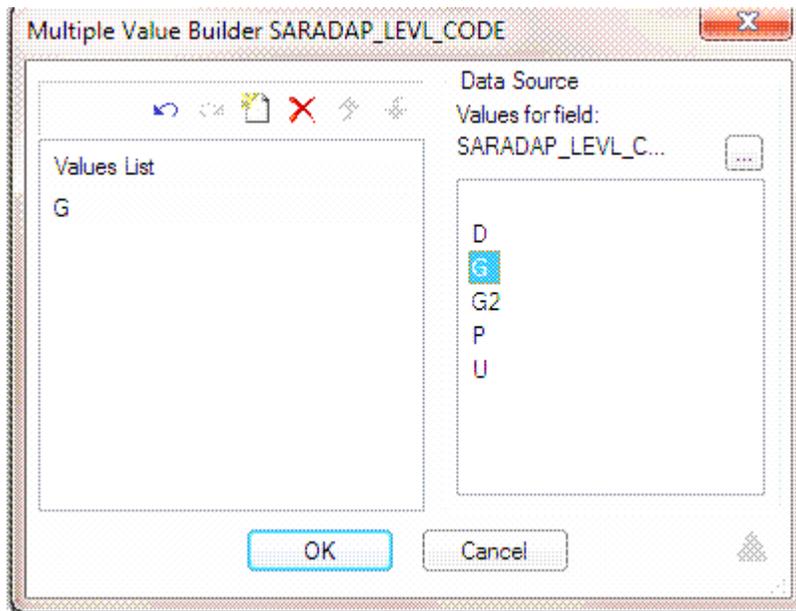
The screenshot shows a report painter window with a menu bar (File, Edit, Insert, Properties, Report, View, Command, Window, Help) and a toolbar. Below the toolbar is a filter bar with options like Detail, Sum, By, Across, For, Where/If, and Forecast. The main area displays a data table with four columns: SARADAP\_PIDM, SARADAP\_TERM\_CODE\_ENTRY, SARADAP\_LVL\_CODE, and SARADAP\_ADMT\_CODE. The table contains four rows of data. The Object Inspector on the left shows a tree view with folders for Special Fields, Variables, and Computed Fields, and a SARADAP folder containing fields like SARADAP\_PIDM, SARADAP\_TERM\_CODE\_ENTRY, SARADAP\_APPL\_NO, SARADAP\_LVL\_CODE, SARADAP\_APPL\_DATE, SARADAP\_APST\_CODE, SARADAP\_APST\_DATE, and SARADAP\_MAINT\_IND.

SARADAP_PIDM	SARADAP_TERM_CODE_ENTRY	SARADAP_LVL_CODE	SARADAP_ADMT_CODE
0	Axxxxx	Ax	Ax
	Bxxxxx	Bx	Bx
0	Axxxxx	Ax	Ax
	Bxxxxx	Bx	Bx

1. Click the Where/If button in the column toolbar. Notice that you have an expression in the tool. Click Assist.
2. Click saradap\_styp\_code in the Column to filter box and right click and select delete.



1. Add saradap\_lvl\_code to the Column to filter, select equals in the Logical Relation box, select value in the Compare Type box.
2. Double click inside the Compare Value box, Click the button with ... and select saradap\_lvl\_code then click Get Data button.
3. Double click G from the Data Source Values for Field to get it in our Values list. Click OK
4. Add saradap\_admt\_code to the next Column to Filter, select equals in the Logical Relation box, select Value in the Compare Type box.
5. Double click in side the Compare Value box, Select Add new item button and enter EX. Click OK.



Below is how your expression should look when you are finished. Notice the AND that was added as you added the fields to be evaluated.

1. Click OK to save this expression. Click Ok again to exit the expression builder.
2. Run the report. It should look like the report below. Close the report output window.
3. Save this report and exit.

The screenshot shows the Expression Builder window with the following configuration:

And/Or	Column to filter	Logical Relation	Compare Type	Compare Value
(	SARADAP_TERM_CODE_ENTRY	equals	Value	'201040'
And	SARADAP_LEVEL_CODE	equals	Value	'G'
And	SARADAP_ADMT_CODE	equals	Value	'EX'

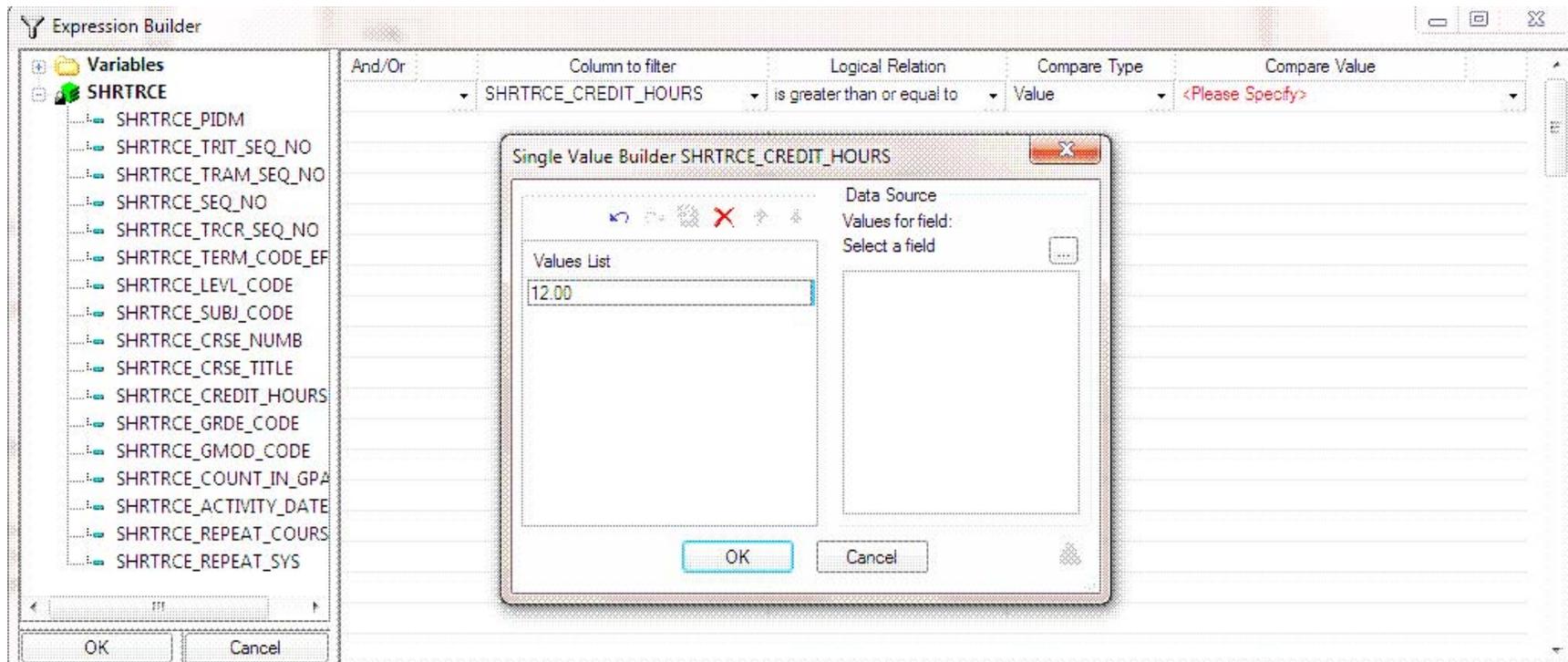
The WebFOCUS Report window displays the following data:

SARADAP_PIDM	SARADAP_TERM_CODE_ENTRY	SARADAP_LEVEL_CODE	SARADAP_ADMT_CODE
2921	201040	G	EX
3124	201040	G	EX
3191	201040	G	EX
4574	201040	G	EX
5839	201040	G	EX
5928	201040	G	EX
6085	201040	G	EX
6341	201040	G	EX
13487	201040	G	EX
13666	201040	G	EX

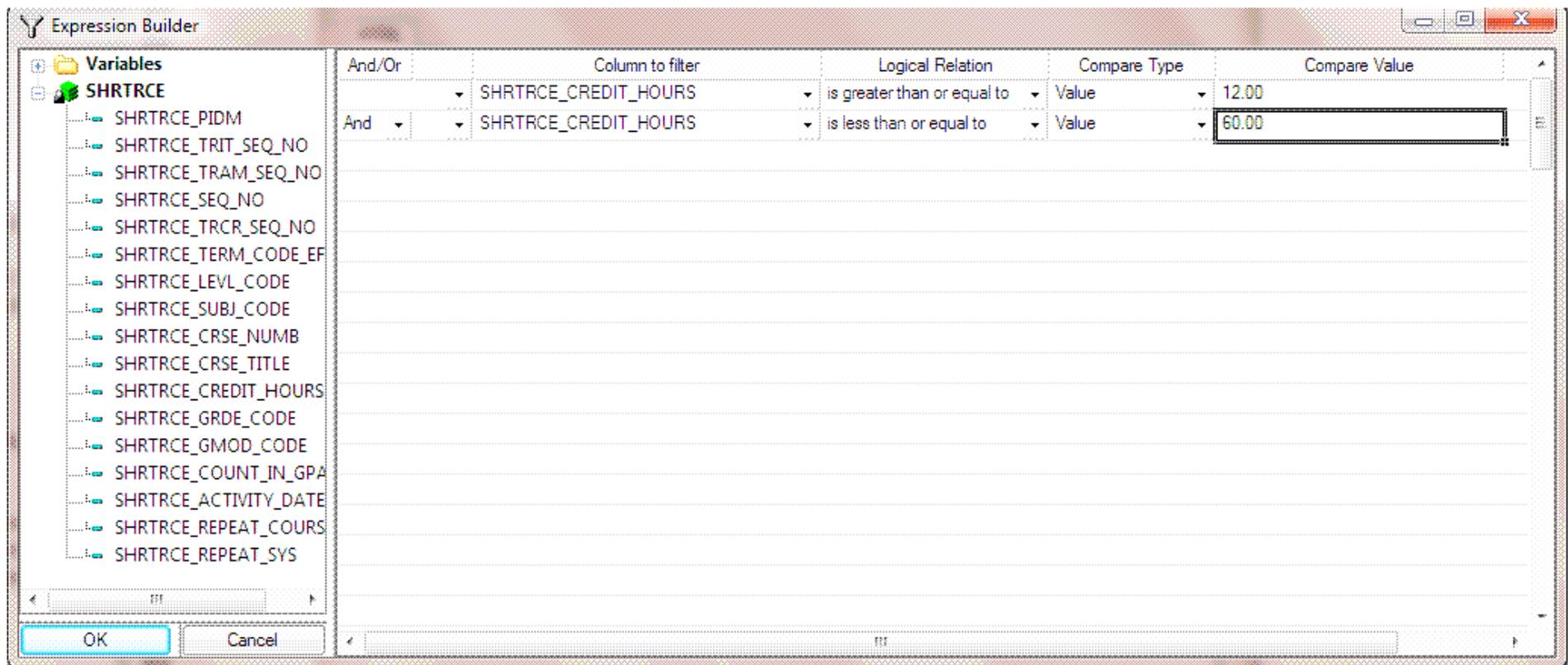
## Exercise 4.4

### Numeric Selection

1. Select your report named yourname33 and right click and select copy.
2. Click anywhere in your folder window and right click and paste. You now have a new report named yourname331.
3. Rename the report to yourname44.
4. Double click to open the procedure. Select the report component and double click to open
5. Click Where/If button on the columns toolbar. Click Assist. The expression builder opens.
6. Add shrrtce\_credit\_hours to the Column to Filter box. Select is greater than or equal to in the Logical Relation box. Select Value in the Compare Type Box. Double click in the Compare Value box.
7. Click the add new item button or ctrl enter and type in 12.00. Click OK



1. Add shrtrce\_cridt\_hours to the Column to Filter, select Is less than or equal to in the logical relation box.
2. Select Value in the compare type box, double click in the compare value box
3. Click add new item, type in 60.00. click OK. Your expression builder screen should resemble the screen print below.
4. Click OK, click Apply, the Click OK.
5. Run the report, close the output after verifying you have the correct data. Close and save the report.



## Exercise 5.1

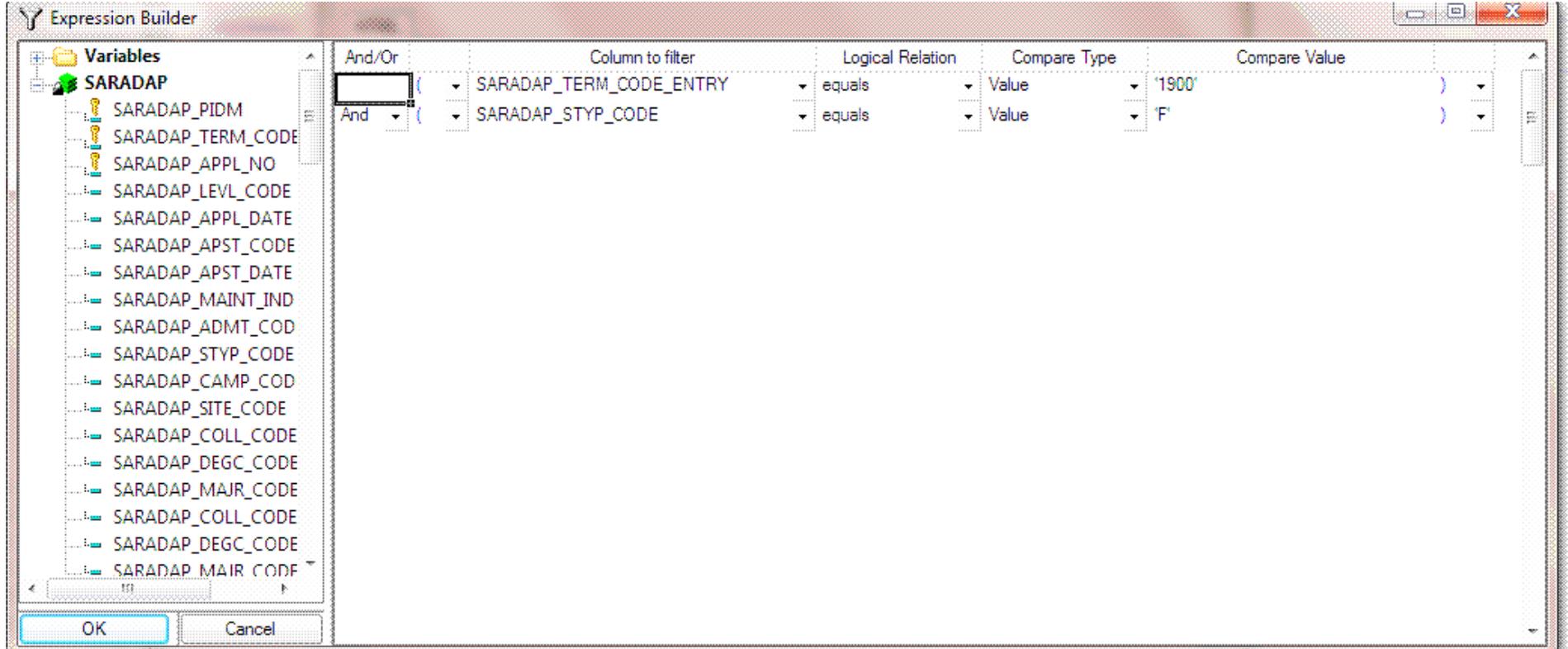
### SET EMPTYREPORT

1. Right click on yourname4 and select copy. Click anywhere in your folder and select paste. Rename yourname41 to yourname5.
2. Double click yourname5 procedure. Double click the report object in the procedure viewer.
3. Click the Page Heading button in the Headings/Footings toolbar and type Students Admitted for Term then add sara-dap\_term\_code\_entry by double clicking the field.

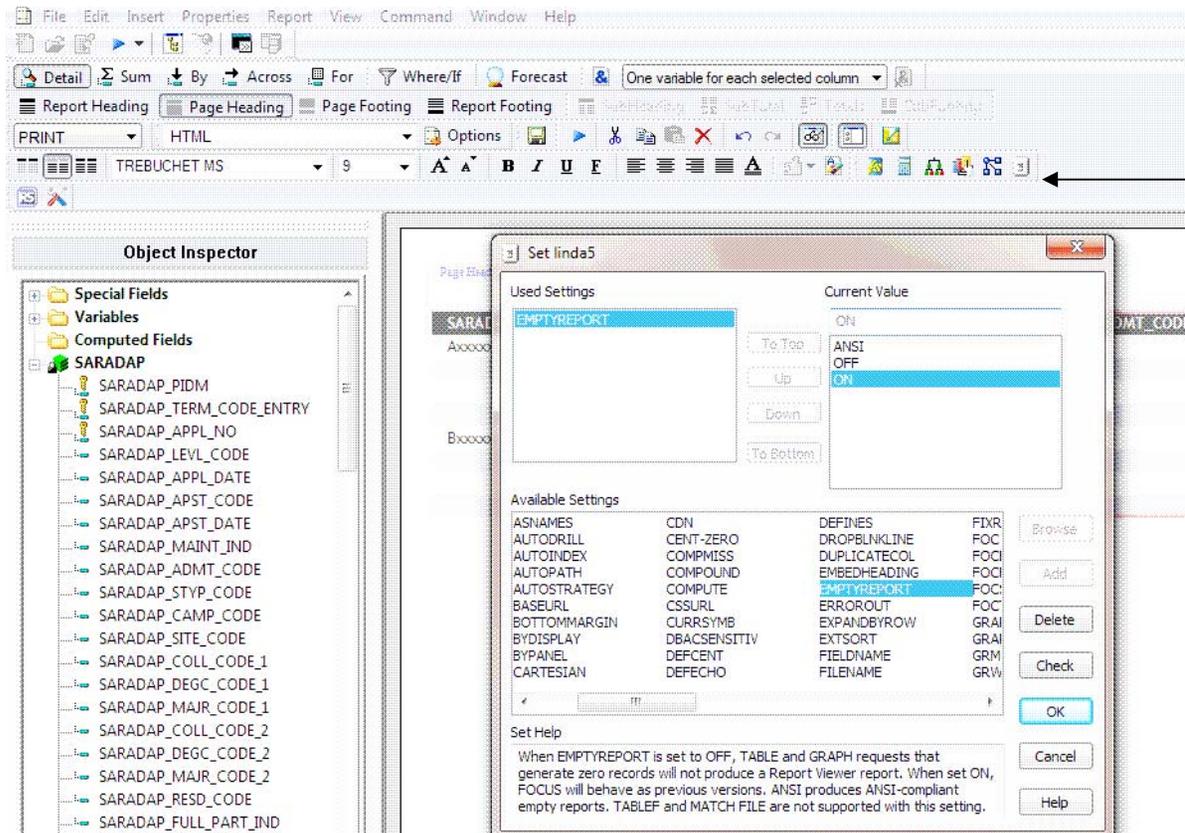
The screenshot shows a report design tool interface. The top menu bar includes File, Edit, Insert, Properties, Report, View, Command, Window, and Help. Below the menu is a toolbar with various icons. A specific toolbar for 'Report Headings' is visible, containing buttons for Report Heading, Page Heading, Page Footing, and Report Footing. The 'Page Heading' button is highlighted with a black arrow. Below the toolbar, the 'Object Inspector' panel is open, showing a tree view of fields under the 'SARADAP' object. The 'SARADAP\_TERM\_CODE\_ENTRY' field is selected, and a black arrow points to it. The main report area displays a table with the following data:

Page Heading: Students Admitted for Term <SARADAP_TERM_CODE_ENTRY			
SARADAP_PIDM	SARADAP_TERM_CODE_ENTRY	SARADAP_STYP_CODE	SARADAP_ADMT_CODE
0	Axxxxx	A	Ax
	Bxxxxx	B	Bx
0	Axxxxx	A	Ax
	Bxxxxx	B	Bx

1. Move saradap\_term\_code\_entry field in the report to the first column and click ok to change it from a detail field to a by field.
2. Click the Where/If button on the columns toolbar. Click the Retrieval Limits tab and remove the 1000 from the Record limit box.
3. Click the Where tab and select assist to open the expression builder.
4. Change the saradap\_term\_code\_entry Compare Value to 1900.
5. Click OK, Click OK again to bring you back to the report painter window.



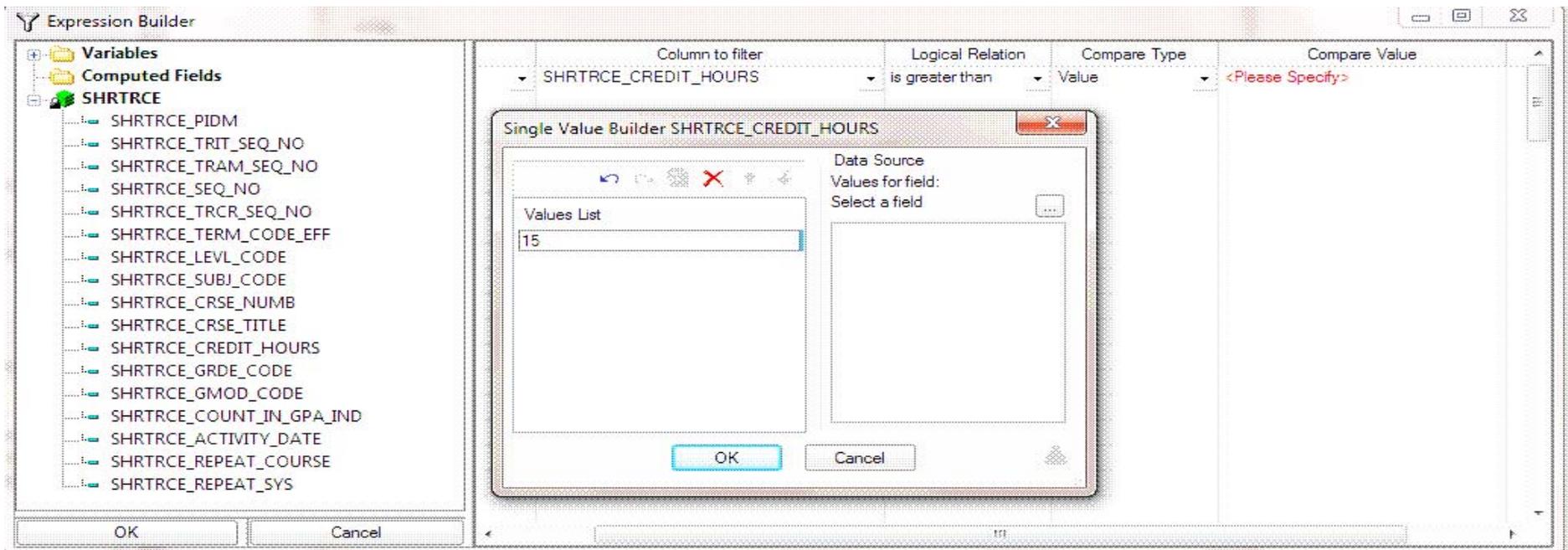
1. Click the Set Button on the Setup toolbar.
2. Scroll to find EMPTYREPORT in the available settings section of the Set tool window.
3. Double click EMPTYREPORT to get it in the Used settings section
4. Click ON to change the current value from off to ON.
5. Click Check to make sure you have the syntax correct.
6. Click OK to return to the report painter window.
7. Run the report. Notice the report is empty except for the Heading and column headings. Close the output. Close and save the report.



## Exercise 5.2

### WHERE TOTAL

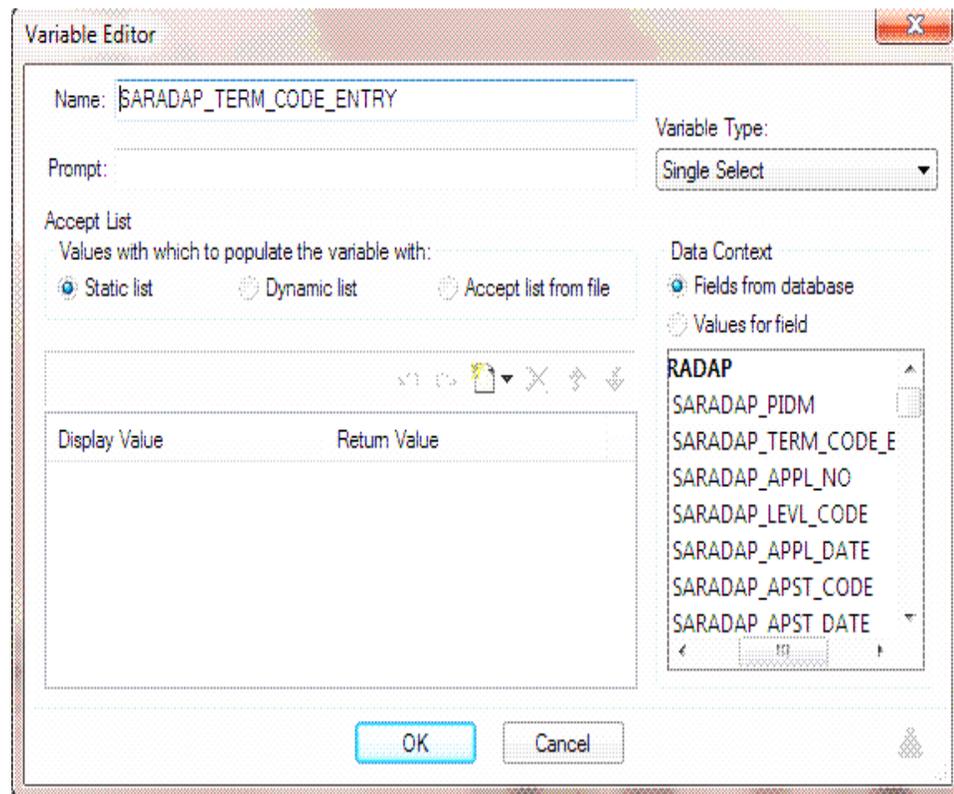
1. Right click yourname33 and select copy. Right click in the folder and select paste. Rename the report to yourname52.
2. Double click yourname52 to open the procedure viewer. Double click the report object to open the report painter.
3. Click the Where/If button on the column toolbar.
4. Click the Where Total tab. Click Assist
5. Add shrtrce\_credit\_hours to the Column to filter, select is greater than in the Logical Relation box, select Value in the Compare type box.
6. Double click in the Compare Value box, Click add item, enter 15, Click OK, Click OK, Click Apply then OK to return to the report painter window.
7. Run the report. Close the output. Close and save the report.



## Exercise 5.3

### Creating Parameters

1. Right click yourname4 procedure and select copy. Right click in your folder and select paste. Rename yourname41 to yourname53.
2. Double click yourname53 procedure. Double click the report object in the procedure viewer to open the report in report painter.
3. Click the Where/If button on the columns toolbar. Click Assist button to open the expression builder.
4. Change the Compare Type for saradap\_term\_code\_entry to Parameter. Double click in the Compare Value box to bring up the Variable Editor.



This first type of parameter we will create is a Single Select.

1. Make sure saradap\_term\_code\_entry is in the Name box. Check to be sure the Variable Type is Single Select.
2. Type Select a Term in the Prompt box.
3. Make sure the Static List radio button is on in the Accept List area.
4. Click the add new item button.
5. Type 200940 in the display value hit enter, type 200940 in the Return Value.
6. Continue to add the following terms in the static list. 201010, 201020, 201030, 201040
7. Adjust the order by using the up and down arrows. Click OK. Click OK. Click Apply. Click OK to return to the report painter window.

Variable Editor

Name: SARADAP\_TERM\_CODE\_ENTRY

Prompt: Select a Term

Variable Type: Single Select

Accept List

Values with which to populate the variable with:

Static list  Dynamic list  Accept list from file

Data Context

Fields from database  Values for field

Display Value	Return Value
200940	200940
201010	201010
201020	201020
201030	201030
201040	201040

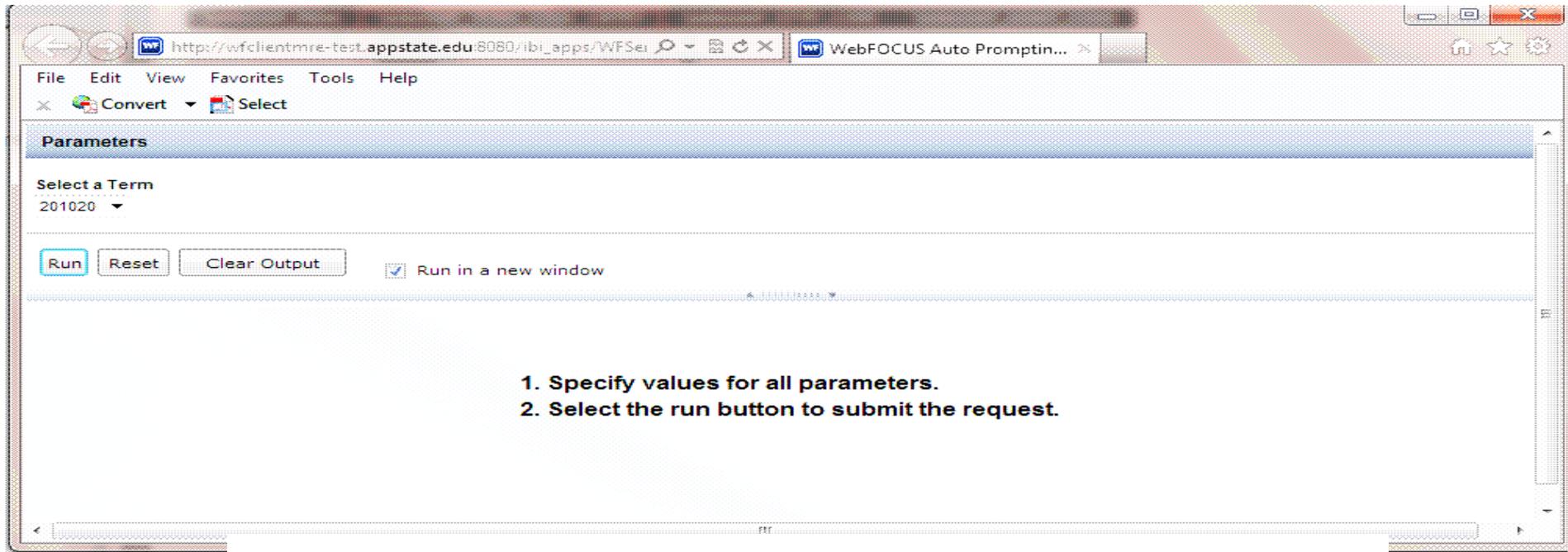
**RADAP**

- SARADAP\_PIDM
- SARADAP\_TERM\_CODE\_E
- SARADAP\_APPL\_NO
- SARADAP\_LEVL\_CODE
- SARADAP\_APPL\_DATE
- SARADAP\_APST\_CODE
- SARADAP APST DATE

OK Cancel

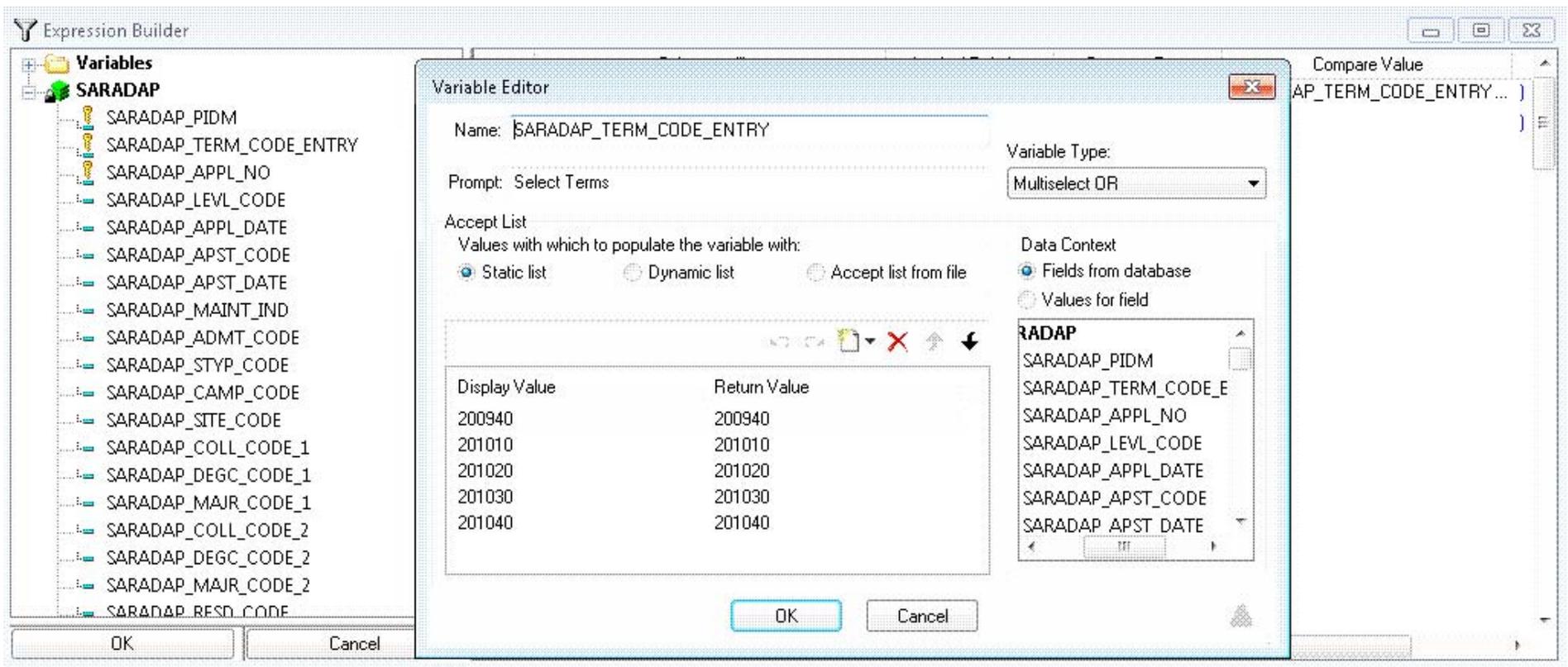
1. Run the report. Notice that instead of a report being generated you are presented with the Parameters screen.
2. Select a Term. Click Run in a new window. Click Run.

Notice you are getting a listing for only saradap\_term\_code\_entry of 200940. Close the output. Close the parameter screen. You should be back at the report painter window now.. Next we will create a Multiselect OR parameter.

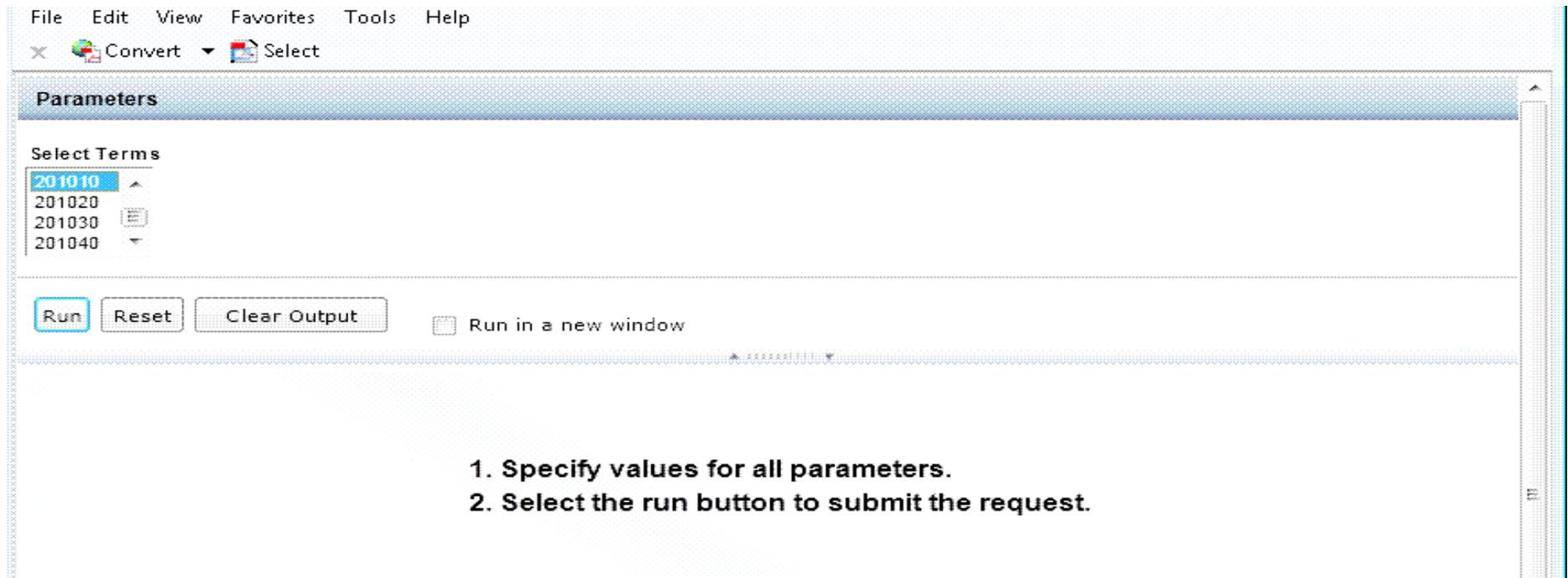


SARADAP_PIDM	SARADAP_TERM_CODE_ENTRY	SARADAP_STYP_CODE	SARADAP_ADMT_CODE
6198	200940	F	ST
261239	200940	F	ST
385193	200940	F	ST
446957	200940	F	LP
458006	200940	F	ST
460378	200940	F	ST
461575	200940	F	ST
461577	200940	F	ST
464650	200940	F	ST
466790	200940	F	ST

1. Move the Saradap\_term\_code field to the first field position. Click By. Highlight saradap\_pidm click By.
2. Click the Where/If button again. Click Assist.
3. Double Click in the Compare Value Box on saradap\_term\_code\_entry line.
4. Change the Variable type to Multiselect OR.
5. Verify that the name is saradap\_term\_code\_entry..
6. Change the Prompt to Select Terms. Verify static List is still on. Verify the terms are still listed.
7. Click OK. Click OK. Click Apply then OK.

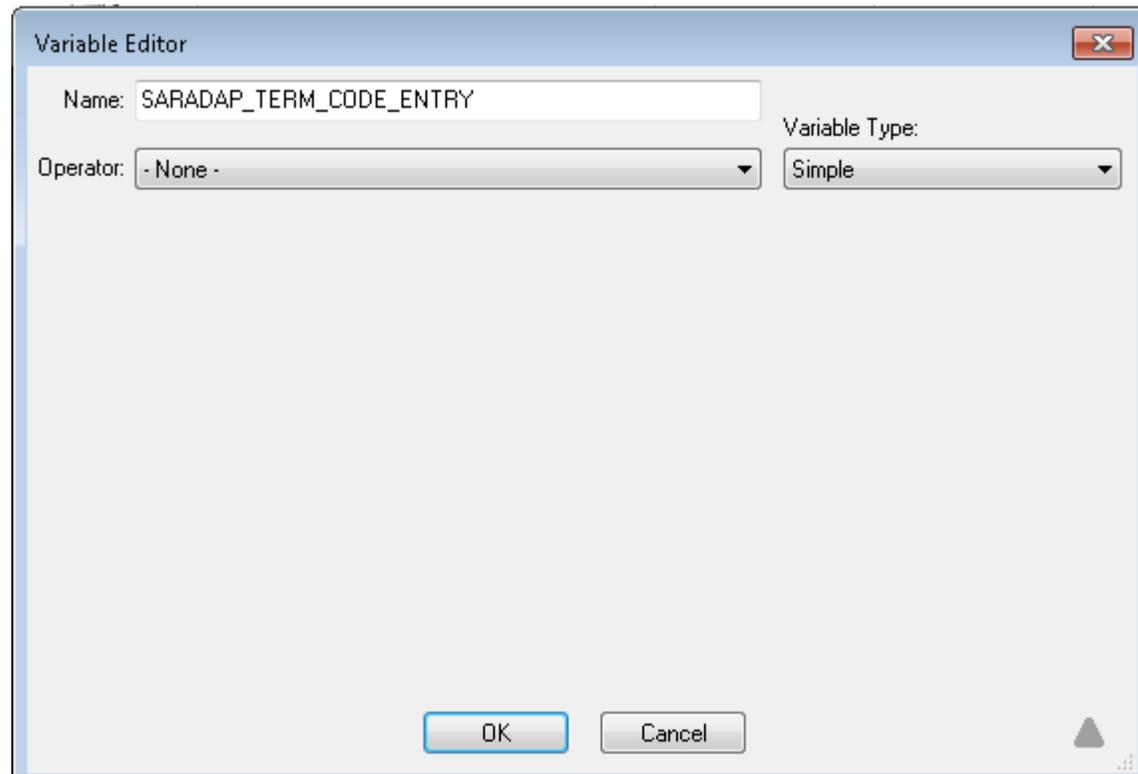


1. Run the Report.
2. Notice you get a parameter screen First.
3. Select some parameters by clicking on a value then hold the ctrl key and click another value.
4. Click Run in a new Window. Notice now your report has several parameters in it.



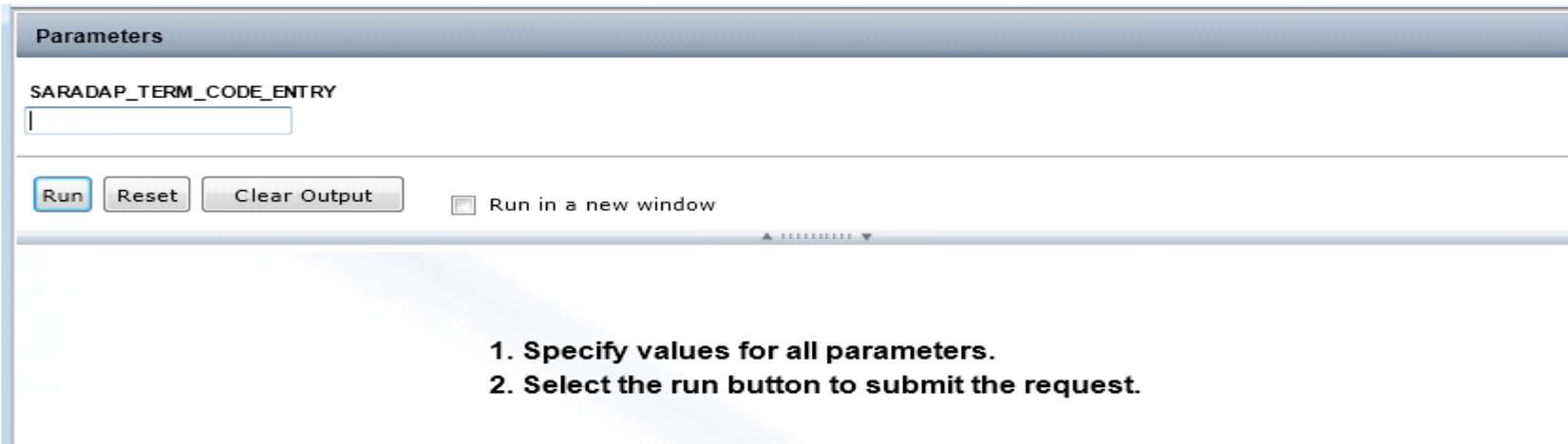
Next we will create a parameter where the end user will enter the value.

1. You should still have yourname53 open in the report painter windows.
2. Click Where/If in the columns toolbar. Select Assist.
3. Double click in the Compare Value for saradap\_term\_code\_entry line.
4. Select Simple in the Variable Type dropdown list.
5. Click Ok. Click OK. Click Apply, click OK to return to the report painter screen.
6. Click Run.



Notice the parameters windows comes up again. This time you have to enter a term value.

1. Enter 201010 in the saradap\_term\_code\_entry value box.
2. Click Run in a new window.
3. Click Run .
4. Close the report output window. Close the parameters window. Exit the report and save.



**Parameters**

SARADAP\_TERM\_CODE\_ENTRY

Run in a new window

1. Specify values for all parameters.  
2. Select the run button to submit the request.

SARADAP_TERM_CODE_ENTRY	SARADAP_PIDM	SARADAP_STYP_CODE	SARADAP_ADMT_CODE
201010	4156	F	ST
	12541	F	ST
	480004	F	RV
	480008	F	ST
	482647	F	ST
	482855	F	ST
	483129	F	ST
	483237	F	ST
	483485	F	ST
	483571	F	ST
	483720	F	ST
	483807	F	ST
	483818	F	ST

## Exercise 6.1 INNER JOIN

1. right click on yourname3 report and select copy.
2. Click anywhere in your folder right click and select paste.
3. Right click on yourname31 and select rename.
4. Rename to yourname61.
5. Double click on yourname61 to open the report .
6. Double click on the report object to open your report in the report painter window.

**Object Inspector**

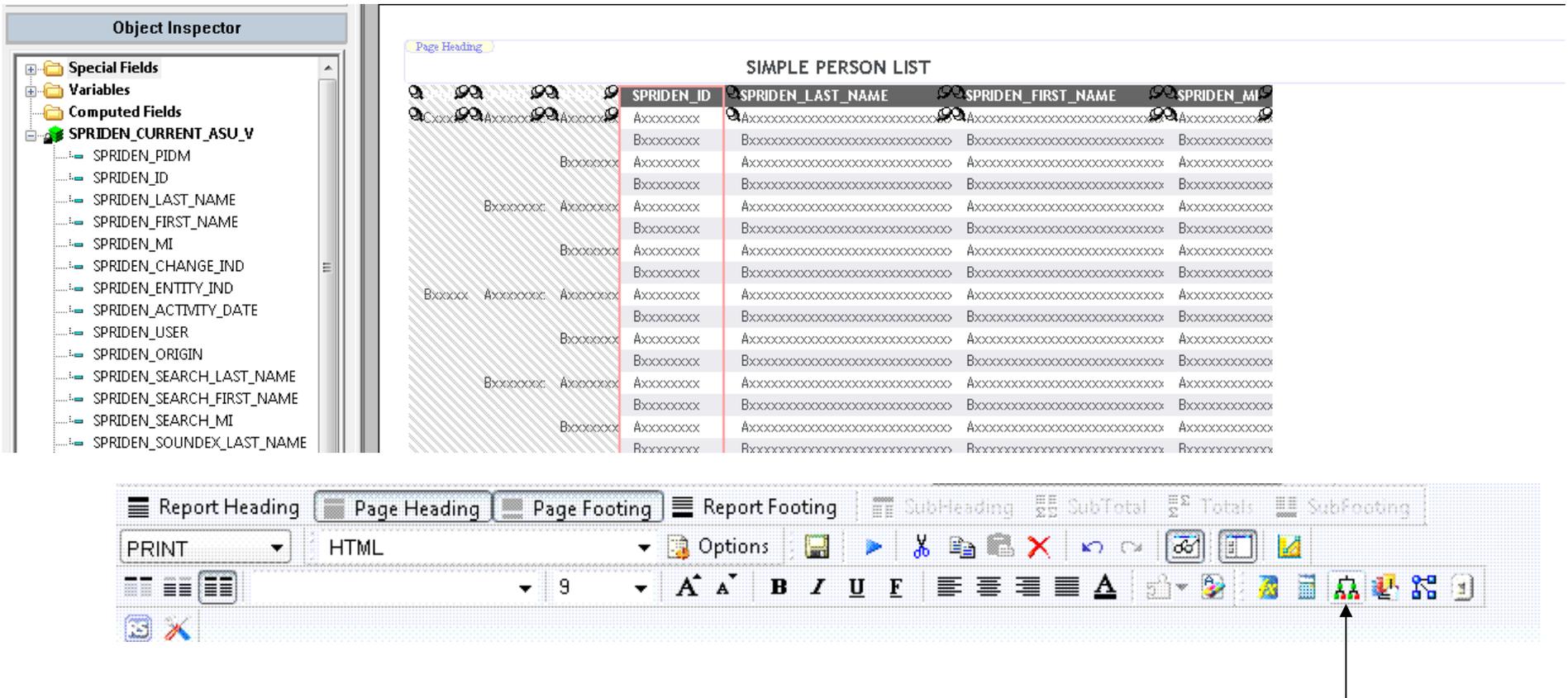
- Special Fields
- Variables
- Computed Fields
  - SPRIDEN\_CURRENT\_ASU\_V
    - SPRIDEN\_PIDM
    - SPRIDEN\_ID
    - SPRIDEN\_LAST\_NAME
    - SPRIDEN\_FIRST\_NAME
    - SPRIDEN\_MI
    - SPRIDEN\_CHANGE\_IND
    - SPRIDEN\_ENTITY\_IND
    - SPRIDEN\_ACTIVITY\_DATE
    - SPRIDEN\_USER
    - SPRIDEN\_ORIGIN
    - SPRIDEN\_SEARCH\_LAST\_NAME
    - SPRIDEN\_SEARCH\_FIRST\_NAME
    - SPRIDEN\_SEARCH\_MI
    - SPRIDEN\_SOUNDEX\_LAST\_NAME
    - SPRIDEN\_SOUNDEX\_FIRST\_NAME
    - SPRIDEN\_NTYP\_CODE
    - SPRIDEN\_CREATE\_USER
    - SPRIDEN\_CREATE\_DATE

**SIMPLE PERSON LIST**

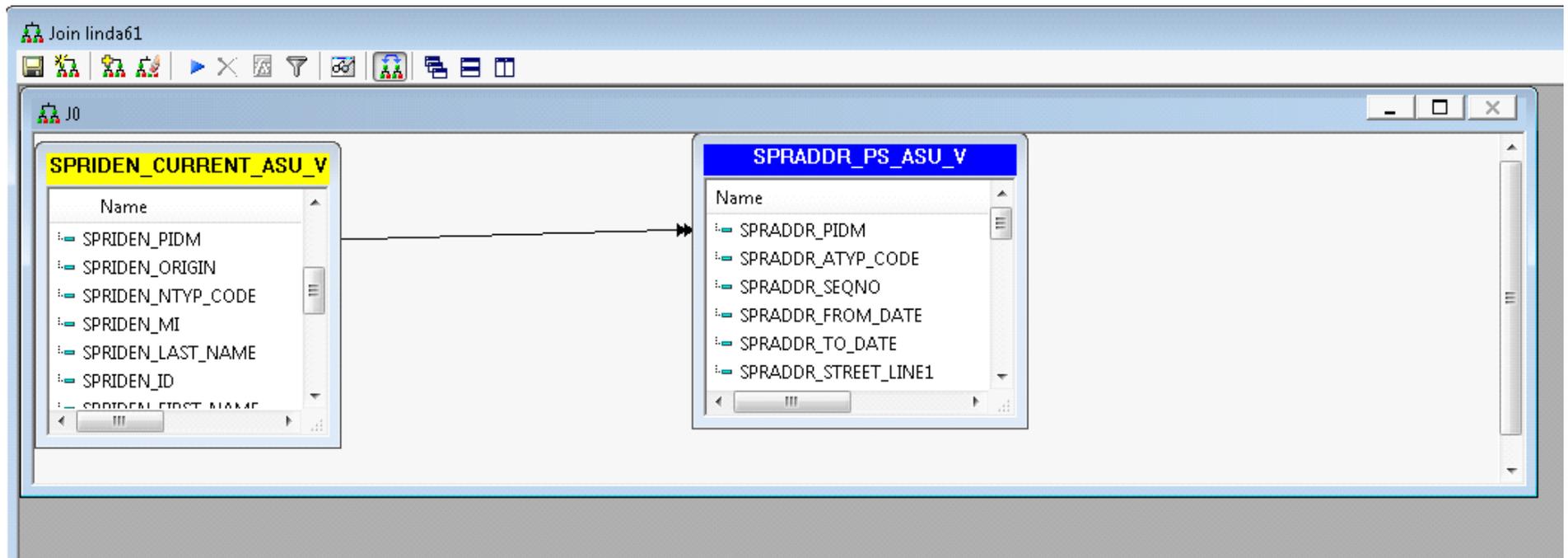
SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	SPRIDEN_CHANGE_IND
0	Axxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Axxxxxxx	A
0	Bxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxx	B
0	Axxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Axxxxxxx	A
0	Bxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxx	B
0	Axxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Axxxxxxx	A
0	Bxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxx	B
0	Axxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Axxxxxxx	A
0	Bxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxx	B
0	Axxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Axxxxxxx	A
0	Bxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxx	B
0	Axxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Axxxxxxx	A
0	Bxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxx	B

PREPARED ON: February 12, 2012

1. Highlight spriden\_change\_ind in the report and delete.
2. Highlight spriden\_pidm in the report and delete.
3. The report painter window should look like below.
4. Click the JOIN tool in the Font Toolbar.



- 1 The join dialog window opens.
- 2 Click add button to select a file to join to.
- 3 Select spraddr\_ps\_asu\_v , click ok.
- 4 Highlight spriden\_pidm in spriden\_current\_asu\_v.
- 5 Hold the left mouse button and slide the mouse across to the spraddr\_pidm in spraddr\_ps\_asu\_v.
- 6 Notice the arrow drawn between the two tables.



1. double click on the arrow between the 2 tables. This opens the Join properties window.
2. Select Single, select Inner Join under join type properties
3. Notice the graphic showing the intersection between the two tables.
4. Click OK Click Save. Close the Join by clicking the x in the upper right corner of the join window.

SPRIDEN\_CURREN'                      SPRADDR\_PS\_ASU\_

Host Tag:                       Cross Tag:

Selected Fields:

Join Name:

Name:

Description:

Join Type:

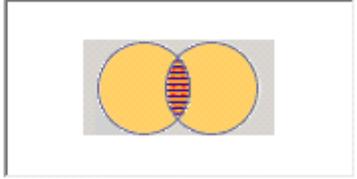
Multiple Instances

Single Instance

Unspecified

Inner Join

Left Outer Join





## Exercise 6.2 Left Outer JOIN

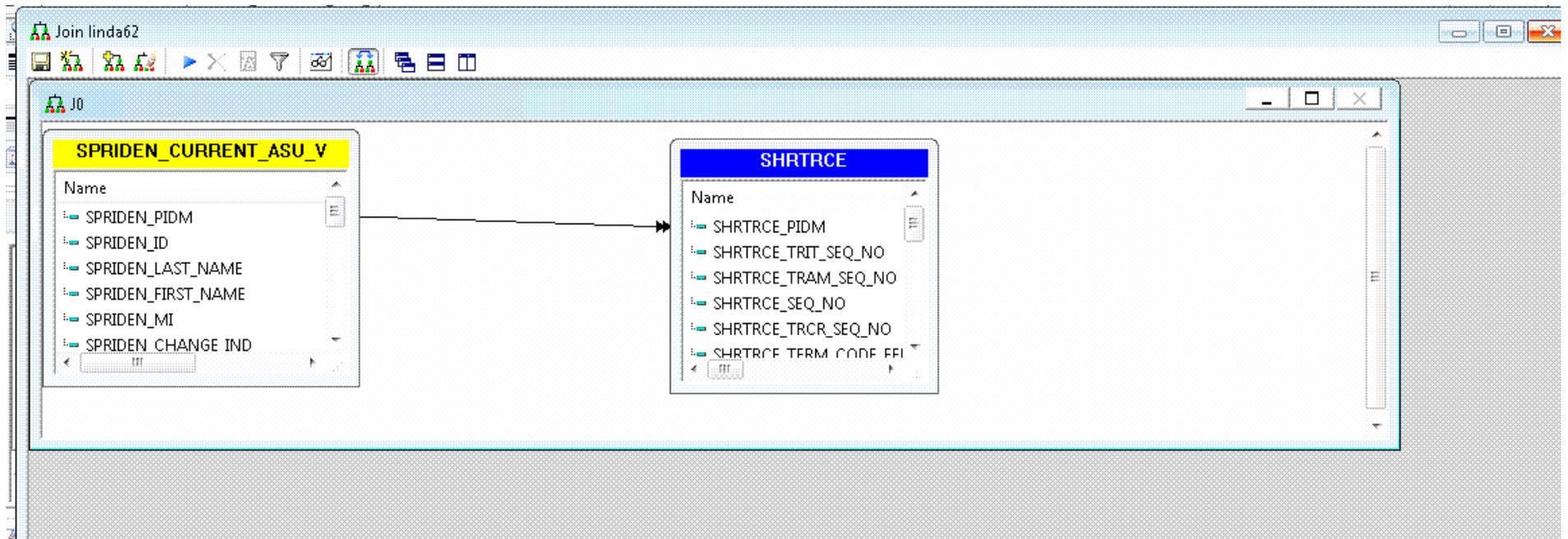
1. Right click on yourname3 and select copy.
2. Right click anywhere in your folder and select paste.
3. Rename yourname31 to yourname62 by right clicking on yourname31 and selecting rename.
4. Double click yourname62
5. Double click the report object in the procedure viewer to open the report for editing.
6. Highlight and remove spriden\_change\_ind . Highlight and remove Spriden\_pidm.
7. Make Spriden\_id, spriden\_last\_name, Spriden\_first\_name, and spriden\_mi BY fields

The screenshot displays the SAP Crystal Reports interface. On the left, the **Object Inspector** pane shows a tree view of the report's fields:

- Special Fields
- Variables
- Computed Fields
  - SPRIDEN\_CURRENT\_ASU\_V
    - SPRIDEN\_PIDM
    - SPRIDEN\_ID
    - SPRIDEN\_LAST\_NAME
    - SPRIDEN\_FIRST\_NAME
    - SPRIDEN\_MI
    - SPRIDEN\_CHANGE\_IND
    - SPRIDEN\_ENTITY\_IND
    - SPRIDEN\_ACTIVITY\_DATE

The main preview area shows a report titled **SIMPLE PERSON LIST**. The report has a **Page Heading** section with the title and a **Page Footing** section with the text "PREPARED ON: February 12, 2012". The data table has four columns: **SPRIDEN\_ID**, **SPRIDEN\_LAST\_NAME**, **SPRIDEN\_FIRST\_NAME**, and **SPRIDEN\_MI**. The **SPRIDEN\_MI** column is highlighted with a red box, indicating it is a BY field. The data rows are filled with placeholder text like "Axxxxxxx".

1. Click the Join button on the Fonts toolbar.
2. Click the add file button.
3. Select SHRTRCE from the table list.
4. Click spriden\_pidm and hold the left mouse button and slid over to shrtrce\_pidm and let go.
5. Notice the arrow between spriden\_pidm and shrtrce\_pidm.



1. Double click the arrow to open the Join properties box
2. Select Multiple Instances and Left Outer Join in the Join type area.
3. Notice the graphic depicting a one to many relationship.
4. Click ok.
5. Click Save in the join window then click the X to update the procedure.

General

SPRIDEN\_CURREN'                      SHRTRCE

Host Tag:                       Cross Tag:

Selected Fields:

Join Name:

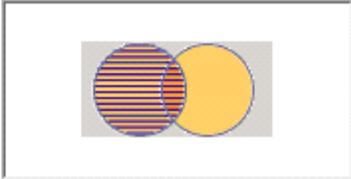
Name:

Description:

Join Type:

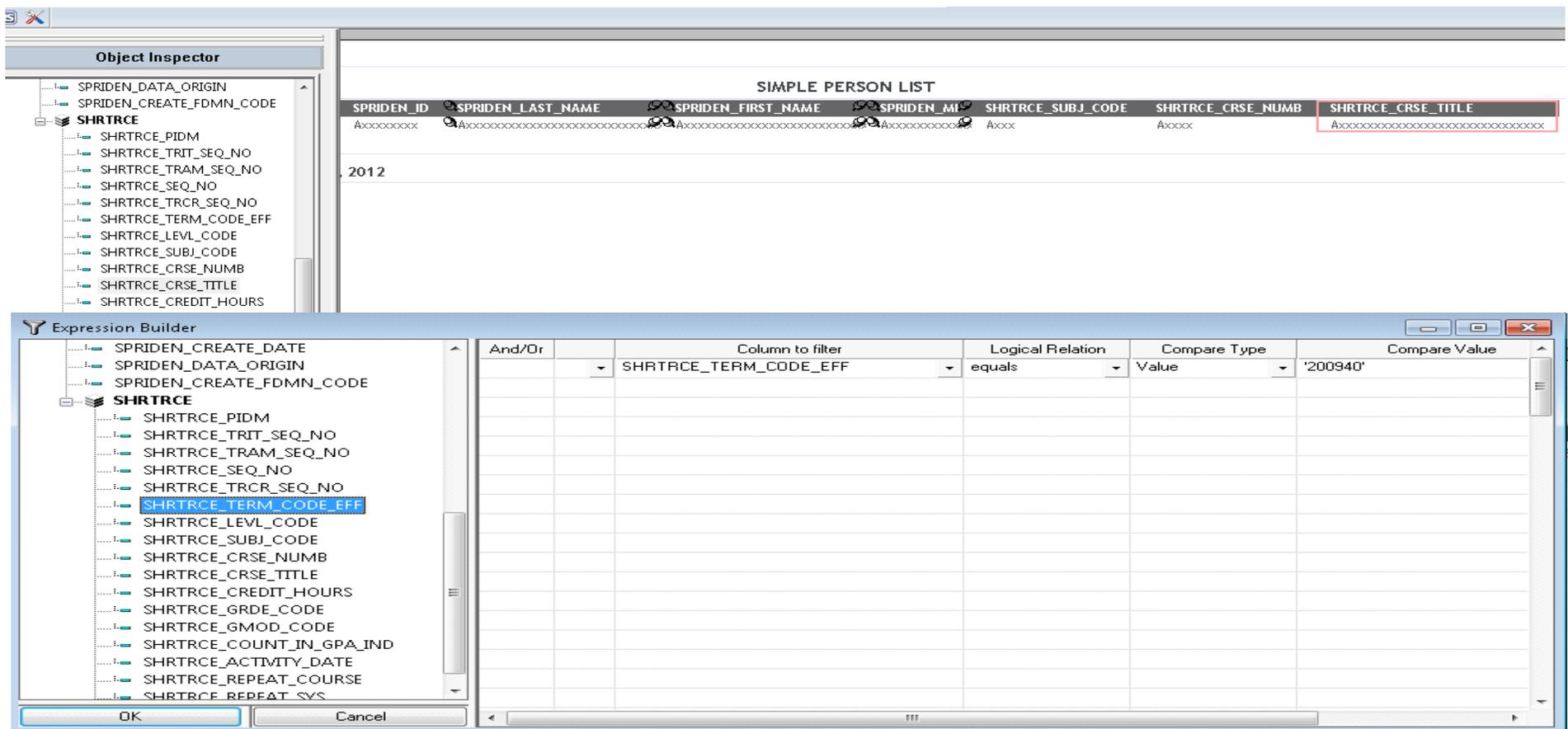
Multiple Instances  
 Single Instance

Unspecified  
 Inner Join  
 Left Outer Join



The Venn diagram consists of two overlapping circles. The left circle is filled with horizontal red and white stripes, and the right circle is solid yellow. The intersection of the two circles is shaded grey, representing the relationship between the two data sources.

1. Place your cursor after spriden\_mi in the report painter window.
2. Scroll down to the SHRTRCE table and select shrtrce\_subj\_code, Shrtrce\_crse\_num, and Shrtrce\_crse\_title adding them to your report as you select them.
3. Click the Where/If button in the columns toolbar. Click Assist.
4. Scroll down to the Shrtrce table and select shrtrce\_term\_code\_eff for the Column to filter
5. Select Equals for Logical Relation, Select Value for Compare type.
6. Make 200940 the Compare Value. Click OK, Click Apply then OK to return to the report painter window.



1. Change the title of the report to COURSE LIST FOR STUDENTS FOR TERM 200940
2. Run the report.
3. Close the output window.
4. Close and save the report.

**COURSE LIST FOR STUDENTS FOR TERM 200940**

SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	SHRTRCE_SUBJ_CODE	SHRTRCE_CRSE_NUMB	SHRTRCE_CRSE_TITLE
900325698	Truelove	Ryan	Michael	ART	2011	INTRODUCTION TO VISUAL ARTS
				BIO	1101	BIOLOGY IN SOCIETY I
				COM	2101	PUBLIC SPEAKING
				ECO	1010	SURV CURRENT ECO ISSUES
					2030	PRIN ECON-PRICE THEORY
					2040	PRINC OF ECON - MACRO
				ENG	1100	INTROD TO LITERATURE
				HIS	2201	SUR AMER CIV TO 1876
				MAT	1020	COLLEGE ALGEBRA W/APPLIC
				PSY	2301	PSY HUMAN GROWTH & DEVEL
900013422	Stoll	Douglas	Ian	SOC	1000	THE SOCIOLOGICAL PERSPECTIVE
				TEC	2029	SOCIETY AND TECHNOLOGY
				CHN	2001	ADVANCED CHINESE I
				2003	ADVANCED CHINESE II	
900324837	Seatz	Janet	Adams	SOC	1000	THE SOCIOLOGICAL PERSPECTIVE
900014029	Propst	Alton	Wayne	CIS	ELEC	CIS ELECTIVE CREDIT

## Exercise 7.1 DEFINE

1. Right Click on yourname3 and select copy.
2. Right Click anywhere in your folder and select paste.
3. Right Click on yourname31 and select rename.
4. Rename yourname31 to yourname71.
5. Double Click yourname71 to open the procedure viewer.
6. Double Click the report object to open the report painter window.

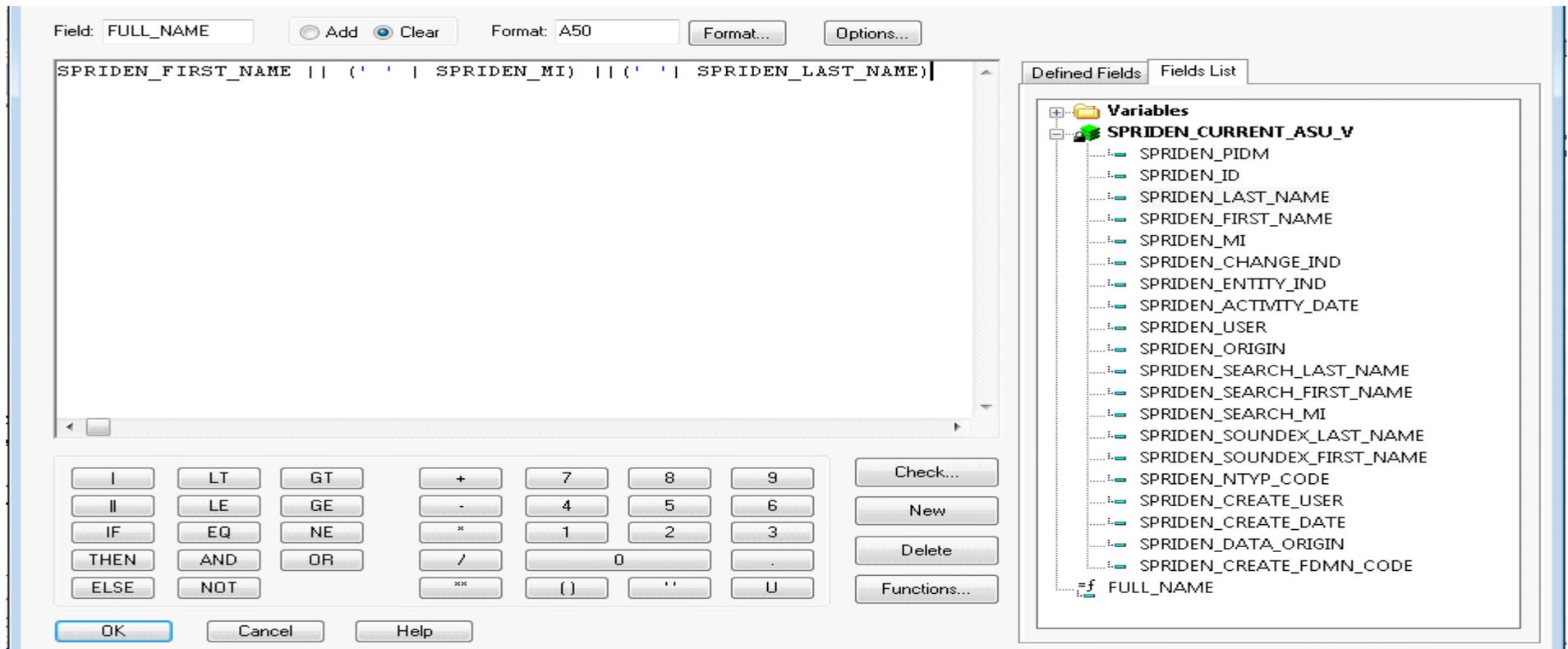
The screenshot shows a software interface with two main panels. On the left is the 'Object Inspector' panel, which displays a tree view of objects under 'Special Fields', 'Variables', and 'Computed Fields'. The 'Computed Fields' folder is expanded, showing a list of fields including 'SPRIDEN\_CURRENT\_ASU\_V', 'SPRIDEN\_PIDM', 'SPRIDEN\_ID', 'SPRIDEN\_LAST\_NAME', 'SPRIDEN\_FIRST\_NAME', 'SPRIDEN\_MI', 'SPRIDEN\_CHANGE\_IND', 'SPRIDEN\_ENTITY\_IND', 'SPRIDEN\_ACTIVITY\_DATE', 'SPRIDEN\_USER', 'SPRIDEN\_ORIGIN', 'SPRIDEN\_SEARCH\_LAST\_NAME', 'SPRIDEN\_SEARCH\_FIRST\_NAME', and 'SPRIDEN\_SEARCH\_MI'. On the right is the 'Report Painter' window, titled 'SIMPLE PERSON LIST'. It displays a table with the following columns: 'SPRIDEN\_PIDM', 'SPRIDEN\_ID', 'SPRIDEN\_LAST\_NAME', 'SPRIDEN\_FIRST\_NAME', 'SPRIDEN\_MI', and 'SPRIDEN\_CHANGE\_IND'. The table contains 15 rows of data, with the first row having a value of '0' in the 'SPRIDEN\_PIDM' column and 'A' in the 'SPRIDEN\_CHANGE\_IND' column. A text box containing the text 'SPRIDEN\_ID' is positioned over the 'SPRIDEN\_ID' column of the 11th row.

Now we are going to create a full name field using the DEFINE tool.

1. Click the DEFINE tool in the Fonts Toolbar. The little icon with the Fx on it.
2. Type FULL\_NAME in the Field box. Type A50 in the Format box.
3. Click in the expression builder window. Double click SPRIDEN\_FIRST\_NAME ,
4. Click the double Bar button or type it by holding Shift and hitting the bar key twice.
5. Type the left parens, a single quote, a space, another single quote, a single bar.
6. Double click SPRIDEN\_MI , type the right parens., another double bar, the left parens, a single quote, a space, a single quote, one bar double click SPRIDEN\_LAST\_NAME and close with the right parens.



The single quote space and single bar force a space between the fields.





1. Run the report.
2. Notice the nice format of the Full Name.
3. Close the output windows.
4. Close and save your report.

### SIMPLE PERSON LIST

SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	FULL_NAME
1031	900001031	Zimmerman	Shawn	Steven	Shawn Steven Zimmerman
518	900000026	Wilcox	Kevin	Michael	Kevin Michael Wilcox
1069	900001069	Vinci	Debra	M.	Debra M. Vinci
1084	900001084	Villanova	Peter	D.	Peter D. Villanova
1046	900001046	Valante	Mary	A.	Mary A. Valante
1047	900001047	Tyrie	Carl	H.	Carl H. Tyrie
524	900000032	Turner	Elizabeth	Ausley	Elizabeth Ausley Turner
522	900000030	Taylor	Rabon	H.	Rabon H. Taylor
1034	900001034	Stoddard	James	E.	James E. Stoddard
1039	900001039	Stinson	Lisa	M.	Lisa M. Stinson
523	900000031	Stewart	Glenda	S.	Glenda S. Stewart
1077	900001077	Sox	Barbara	Chapman	Barbara Chapman Sox

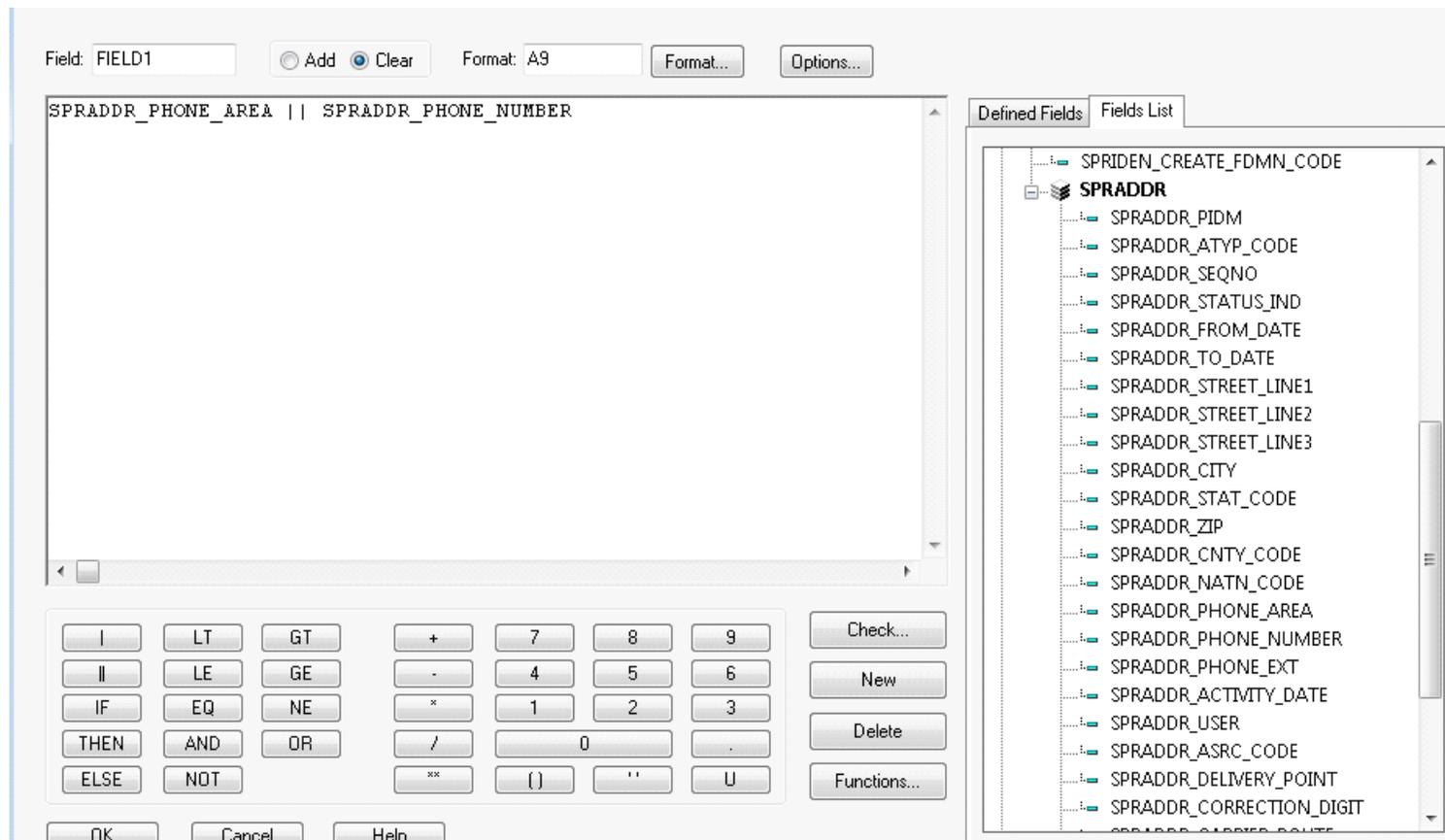
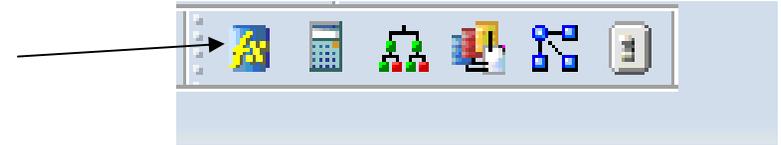
## Exercise 7.2 EDIT

1. Right click on yourname61 and select copy.
2. Right click anywhere in your folder and select paste.
3. Right on yourname611 and select rename.
4. Rename yourname611 to yourname72.
5. Double click yourname72 to open it in the procedure viewer.
6. Double click the report object to open the report in the report painter window.
7. Remove SPRADDR\_STREET\_LINE1, SPRADDR\_CITY, SPRADDR\_STAT\_CODE and SPRADDR\_ZIP from the report.
8. Change the join by removing spraddr\_ps\_asu\_v and adding spraddr .
9. Make an INNER Join.

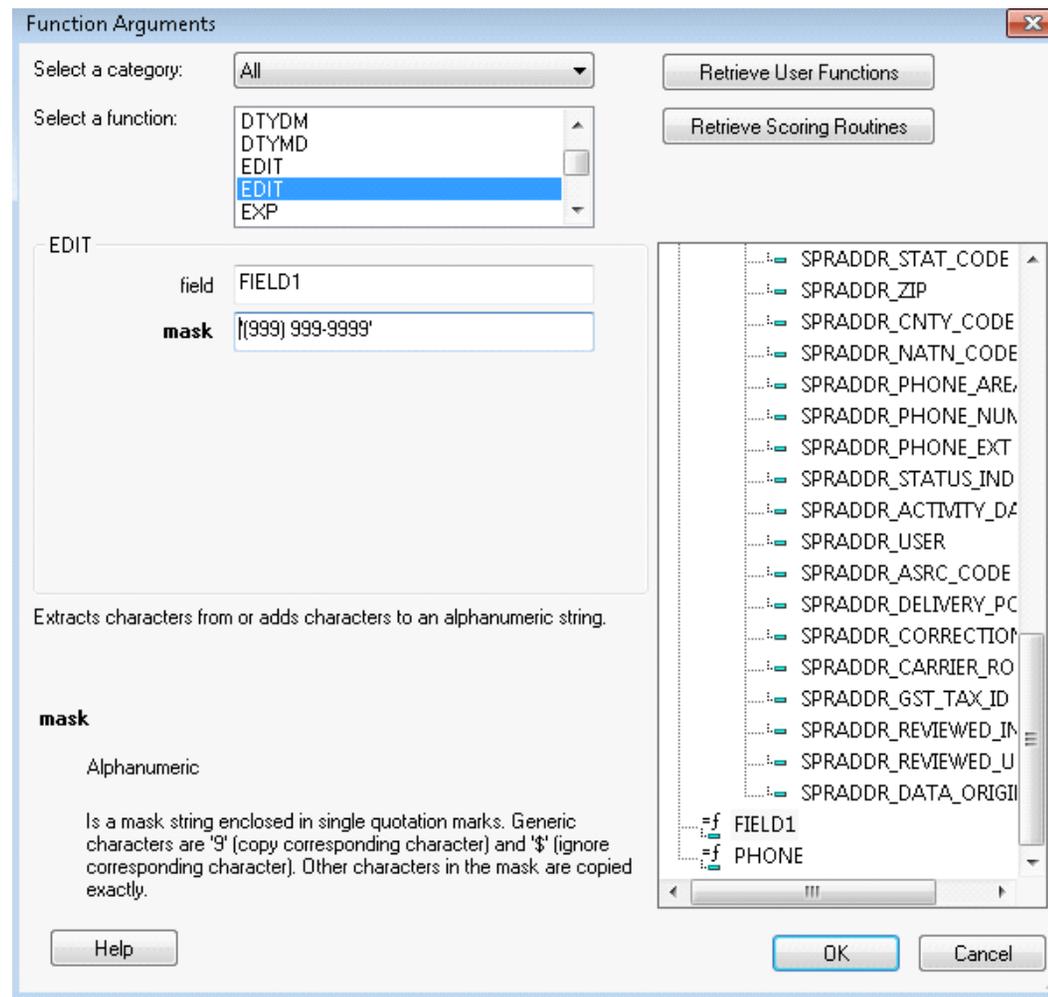
The screenshot displays a report designer interface. On the left is the 'Object Inspector' pane, which is expanded to show 'Computed Fields'. Under 'Computed Fields', there is a folder named 'SPRIDEN\_CURRENT\_ASU\_V' containing several fields: SPRIDEN\_PIDM, SPRIDEN\_ID, SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, SPRIDEN\_CHANGE\_IND, SPRIDEN\_ENTITY\_IND, SPRIDEN\_ACTIVITY\_DATE, SPRIDEN\_USER, SPRIDEN\_ORIGIN, and SPRIDEN\_SFARCH\_LAST\_NAME.

The main area shows a report preview titled 'SIMPLE PERSON LIST'. The report has a 'Page Heading' section. Below it is a table with the following columns: SPRIDEN\_ID, SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, SPRADDR\_STREET\_LINE1, and SPRADDR\_CITY. The table contains multiple rows of data, with some cells containing 'Axxxxxxxx' and others containing 'Bxxxxxxxx'.

1. First we have to get the phone number in one field by using concatenation.
2. Click the DEFINE tool in the Fonts Tool Bar.
3. Enter FIELD1 in the Field box. Enter A9 in the Format box.
4. Place your cursor in the expression windows.
5. Double click SPRADDR\_AREA. Click the || icon.
6. Double click SPRADDR\_PHONE\_NUMBER. Click Check.
7. Click New button. A new define field box is opened.

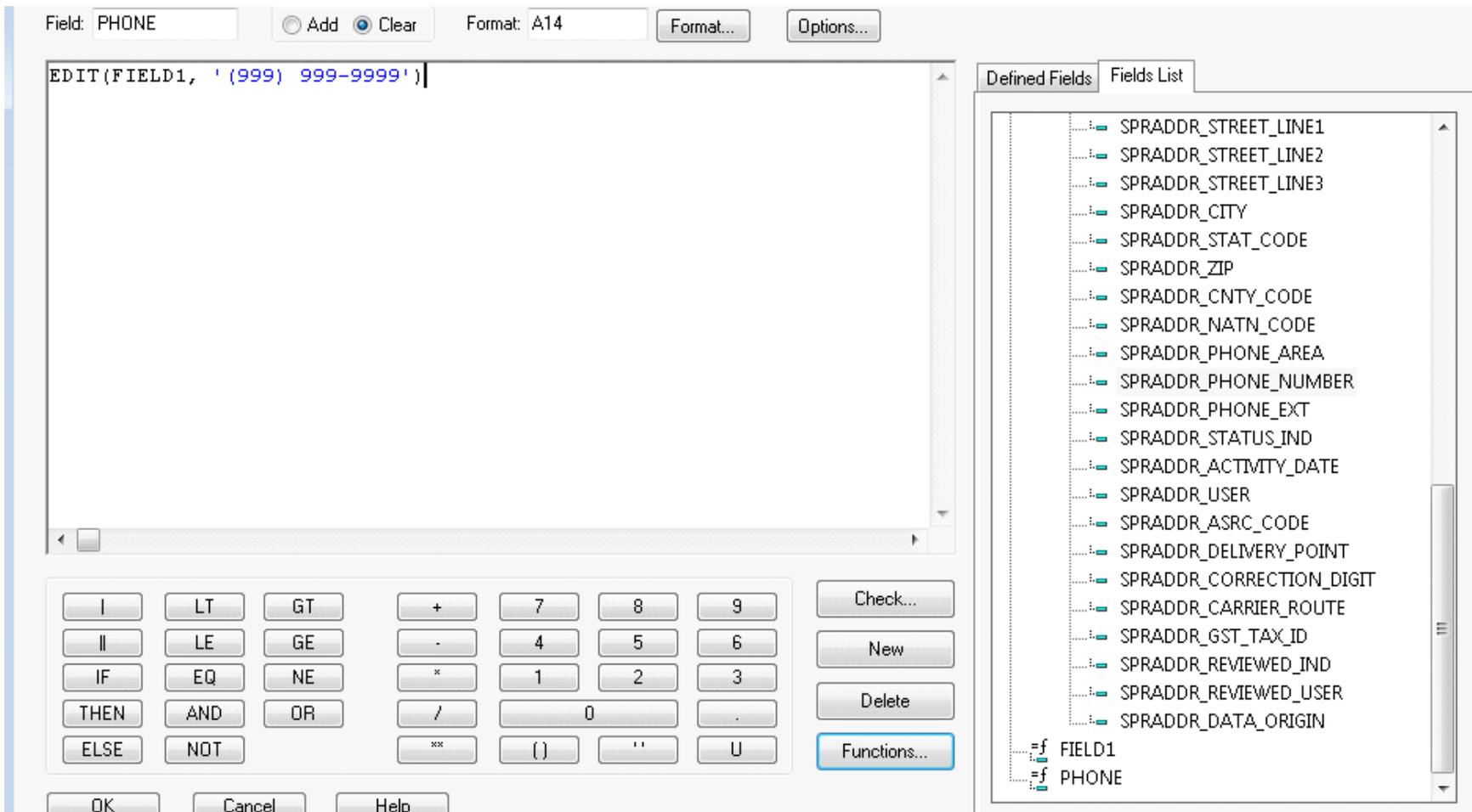


1. Name the field PHONE.
2. Type A14 in the Format box. Place your cursor in the expression box and Click the Functions button.
3. This opens the Functions Arguments window. Scroll down in the Select a Function box to the second EDIT and Select it.
4. Select FIELD1 from the fields list and drag it to the Field box of the function.
5. In the Mask box type (999) 999-999
6. Click Ok to return to the DEFINE window.



Notice in the expression box the EDIT function syntax.

1. Click Check to make sure the syntax is correct.
2. Click OK if no errors found.



1. Scroll down in the Object Inspector window to find your new PHONE field.
2. Place your cursor after SPRIDEN\_MI and double click PHONE to add it to the report.
3. Run the report.
4. Notice the nice Phone number format in the report. Is the phone number correct?

The screenshot shows the 'Object Inspector' window on the left, listing various fields. The 'PHONE' field is highlighted in blue. The main window displays a report titled 'SIMPLE PERSON LIST' with the following columns: SPRIDEN\_ID, SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, and PHONE. The PHONE column is highlighted in red, indicating it has been added to the report.

**SIMPLE PERSON LIST**

SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	PHONE
900002723	Wilson	Bertha	T.	(828) 297-257
900002723	Wilson	Bertha	T.	(828) 262-205
900002574	Wilson	Derick	T.	(828) 262-404
900002574	Wilson	Derick	T.	(828) 297-530
900002722	Williams	Edith	O.	(828) 265-331
900002722	Williams	Edith	O.	(828) 262-404

### Exercise 7.3 HDATE

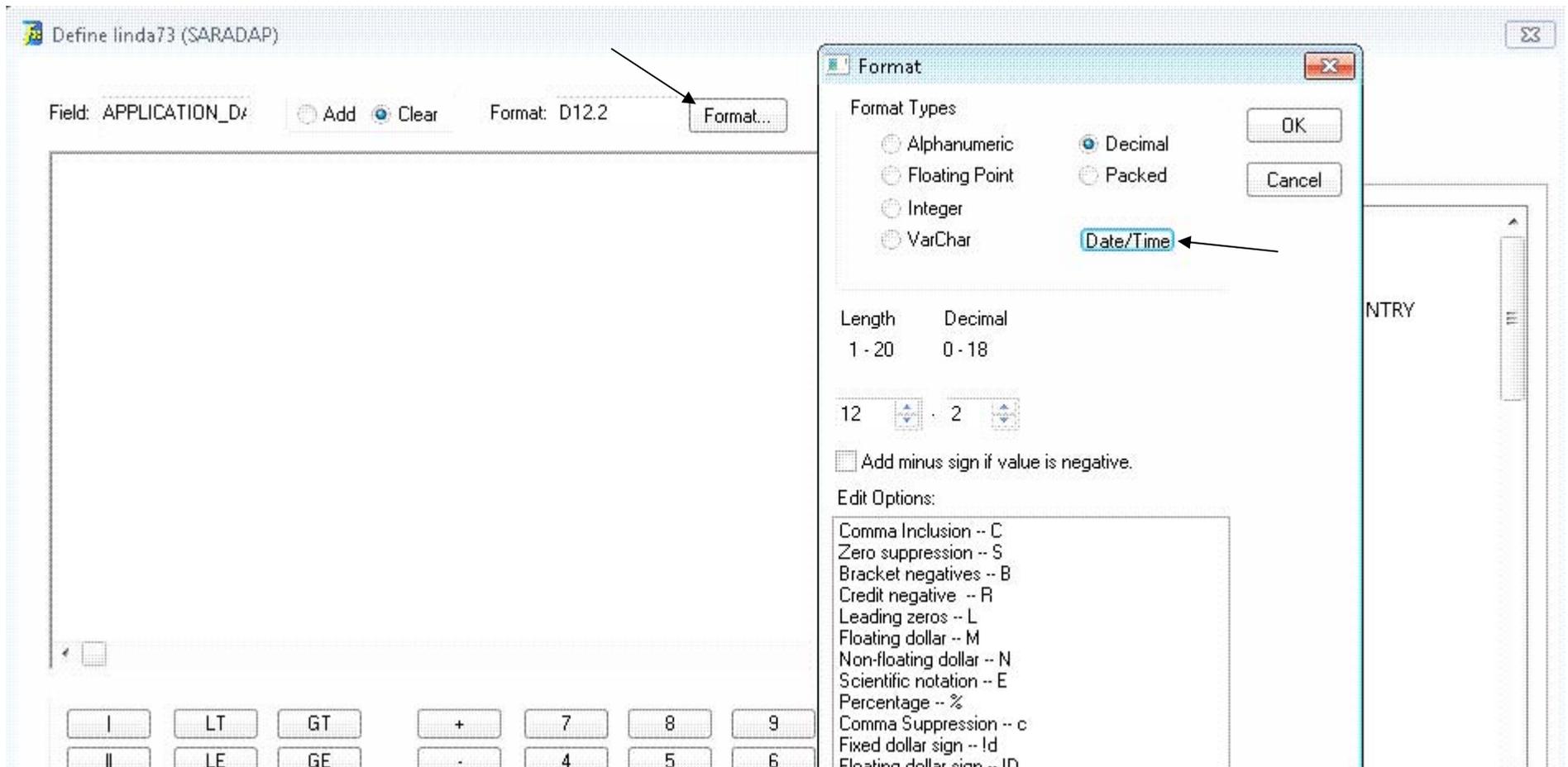
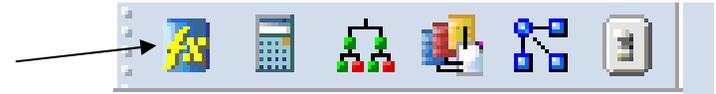
1. Right click on yourname53 and select copy.
2. Right click anywhere in your folder and select paste.
3. Rename yourname531 to yourname73.
4. Double click yourname73 to open it in the procedure viewer.
5. Double click the report object to open the report in report painter.
6. Review the parameters of this report. What are they?

The screenshot displays the SAP Report Painter interface. The top toolbar includes options like 'Detail', 'Sum', 'By', 'Across', 'For', 'Where/If', 'Forecast', and 'One variable for each selected column'. Below the toolbar, the report is configured for 'HTML' output with 'Options' and a 'TREBUCHET MS' font. The 'Object Inspector' on the left shows a tree structure with 'SARADAP' expanded, listing fields such as SARADAP\_PIDM, SARADAP\_TERM\_CODE\_ENTRY, SARADAP\_APPL\_NO, SARADAP\_LEVEL\_CODE, SARADAP\_APPL\_DATE, SARADAP\_APST\_CODE, SARADAP\_APST\_DATE, SARADAP\_MAINT\_IND, SARADAP\_ADMT\_CODE, and SARADAP\_STYP\_CODE. The main window shows a data table with the following content:

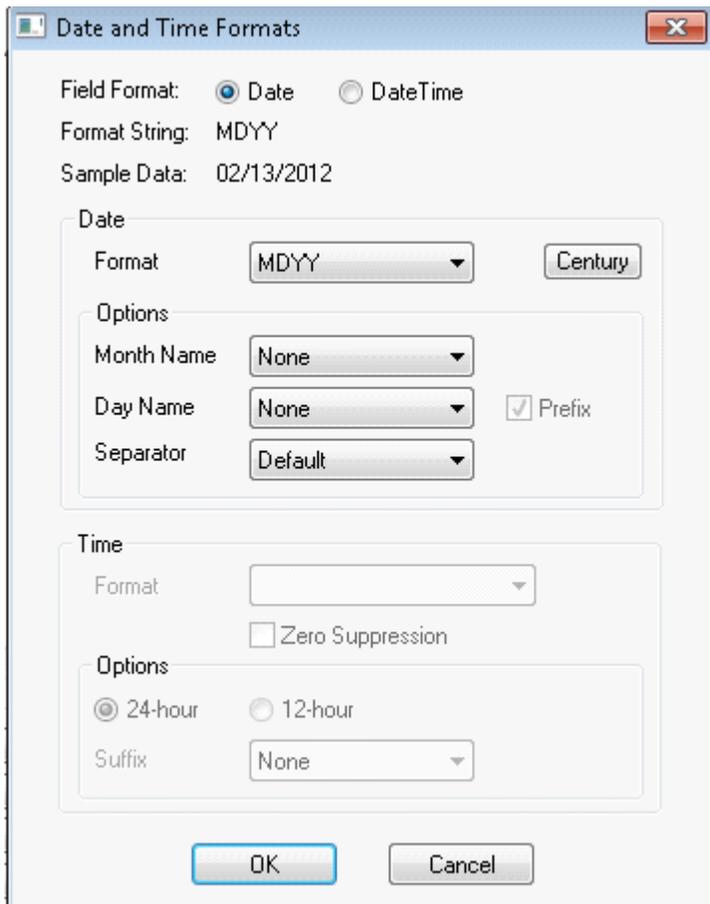
SARADAP_TERM_CODE_ENTRY	SARADAP_PIDM	SARADAP_STYP_CODE	SARADAP_ADMT_CODE
Axxxxx	0	A	Ax
		B	Bx
	0	A	Ax
		B	Bx
Bxxxxx	0	A	Ax
		B	Bx
	0	A	Ax
		B	Bx

Now we are going to use HDATE to convert the saradap\_appl\_date to a date we can use in our report for a parameter.

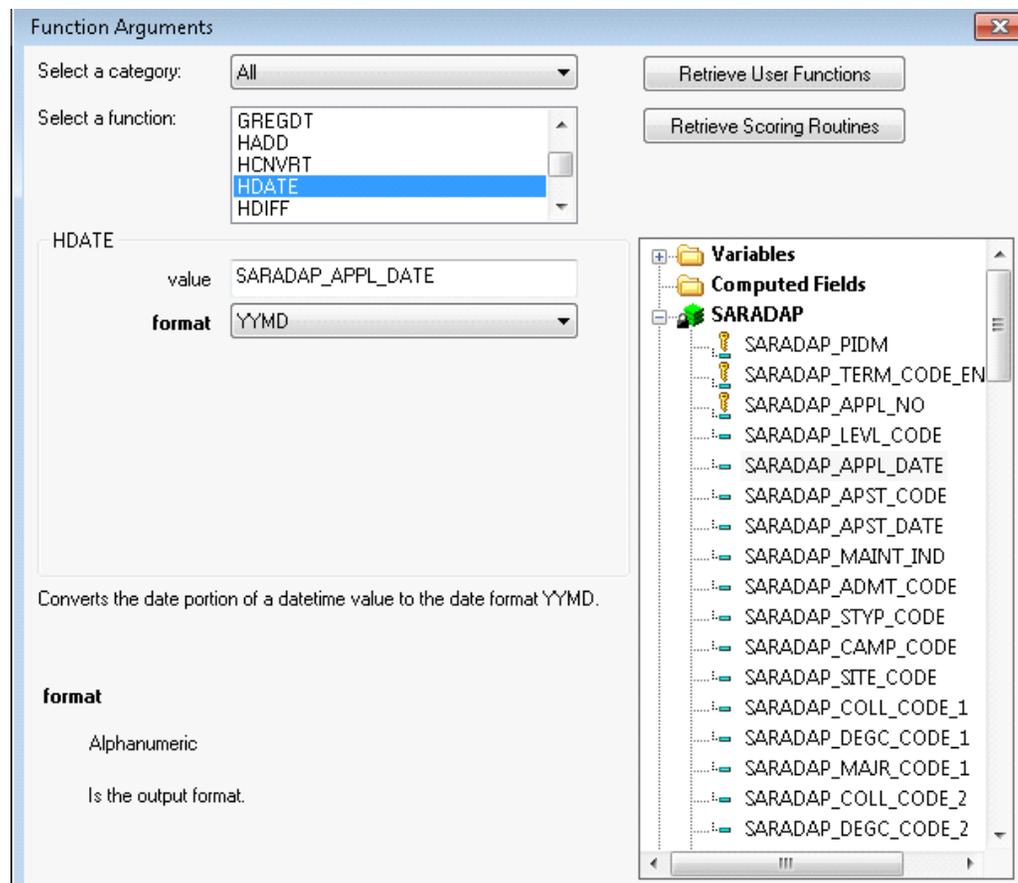
1. Click on the FUNCTION button .
2. Type APPLICATION\_DATE in the Field box.
3. Click the Format button.
4. Click Date Time Button



1. Make sure the Field Format radio button is Date.
2. Notice the Format String is MDYY. Notice the Sample Data . This is what will display on your report.
3. Under the Date Format select MDYY from the drop down list.
4. Click OK. Click Ok again.
5. Notice the Format of your filed now.

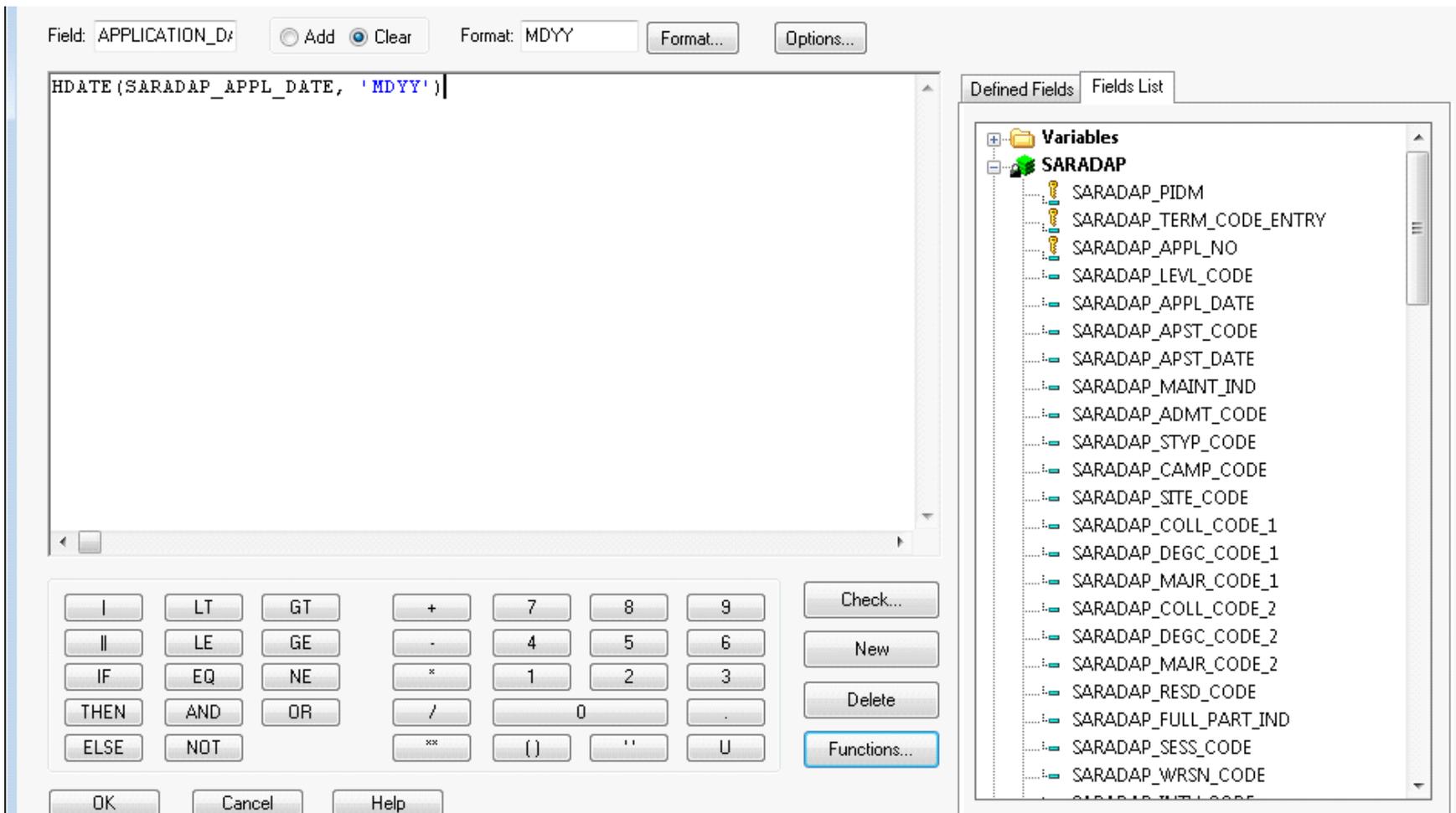


1. Place your cursor in the expression box .
2. Click Functions.
3. Scroll down in the function list until you find HDATE. Highlight HDATE
4. Drag saradap\_appl\_date to the value box
5. Select YYMD from the format list.
6. Click OK



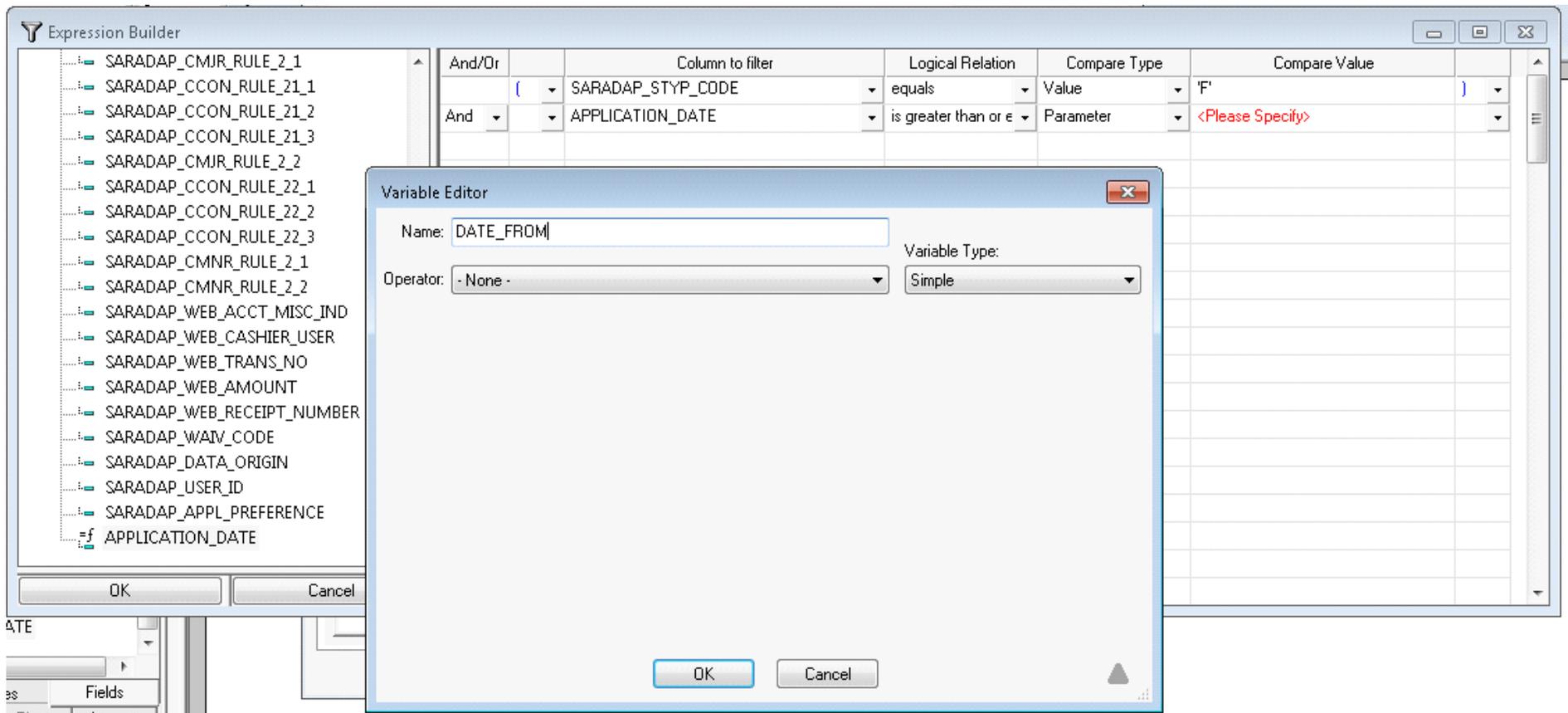
Notice the formats don't match. For a virtual field the format of the result must match the format specified.

1. Change the Format in the expression window to MDYY
2. Click Check to check the syntax. Click Ok if no Errors

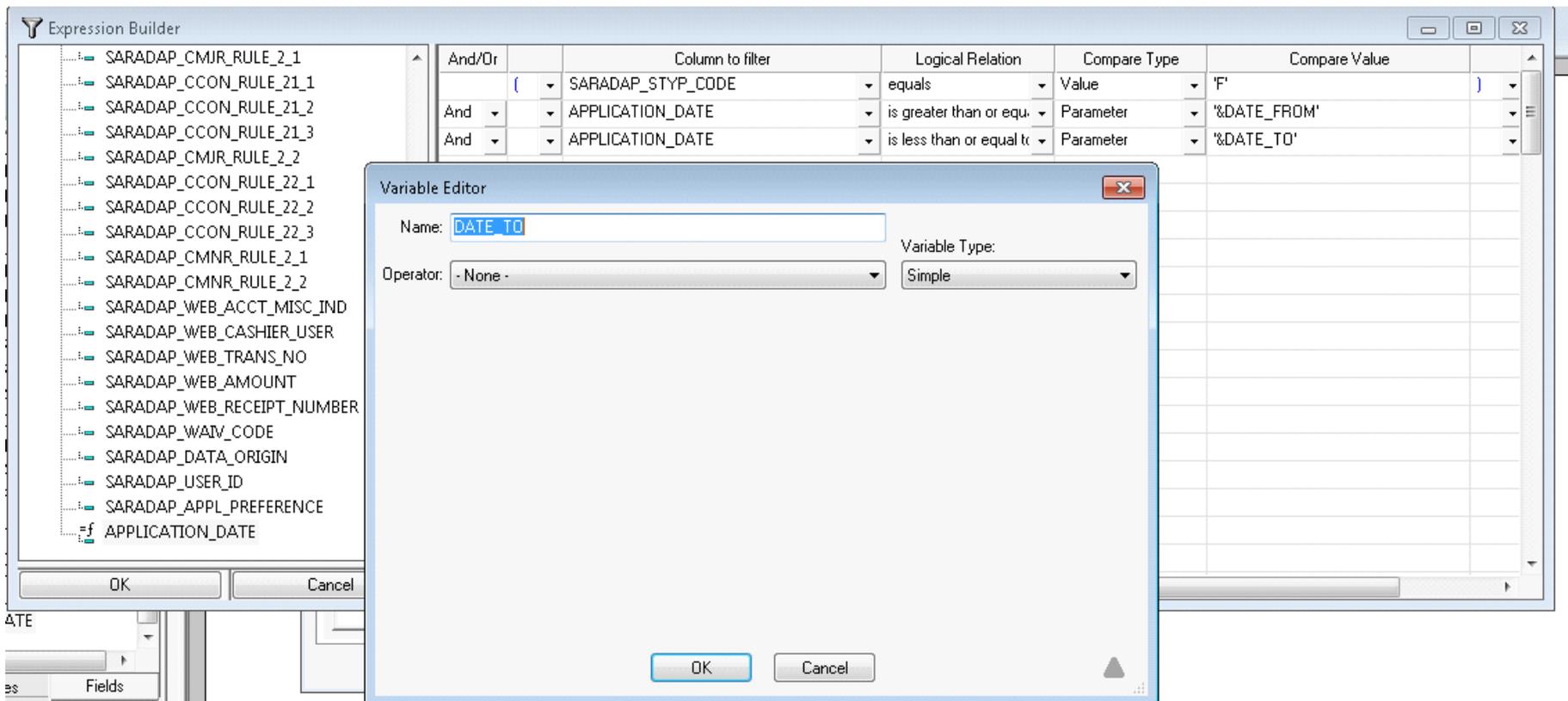




1. Scroll down in the field list and locate APPLICATION\_DATE. Double Click to add it to the column to filter.
2. Select is greater than or equal to in the Logical Relation box.
3. Select Parameter in the Compare Type box.
4. Double Click in the Compare Value box and Select Simple for the Variable Type.
5. In the Name Box type DATE\_FROM
6. Click OK.



1. Add APPLICATION\_DATE in the next Column to Filter box .
2. Select is less than or equal to for the Logical Relation.
3. Select Parameter for the Compare Type.
4. Double Click in the Compare Value box.
5. Select Simple for the Variable Type.
6. Type DATE\_TO in the Name.
7. Click OK
8. Notice you now have 2 compare values using the field you created.. Click OK. Click Apply. Click OK



You should now be back at the report painter window.

1. Run the report.
2. Enter parameters on the parameters screen.
3. Click Run in a new window. Click Run .
4. Close the output. Close the parameter window. Close and save your report.

**Parameters**

DATE\_FROM: 01/02/2010      DATE\_TO: 02/01/2010

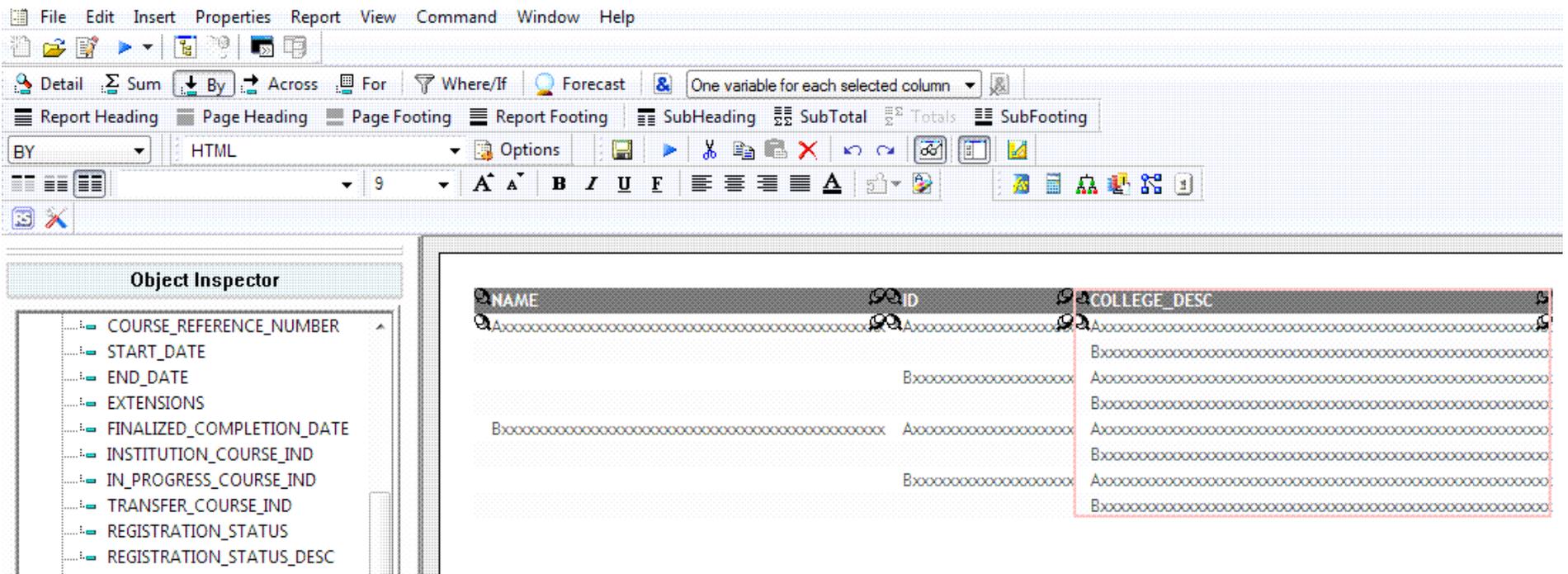
Run in a new window

1. Specify values for all parameters.  
2. Select the run button to submit the request.

SARADAP_TERM_CODE_ENTRY	SARADAP_PIDM	SARADAP_STYP_CODE	SARADAP_ADMT_CODE	APPLICATION_DATE
201030	510703	F	AT	01/27/2010
	510705	F	AT	01/24/2010
	510709	F	AT	01/06/2010
	510739	F	AT	01/09/2010
	512166	F	ST	01/10/2010
	512645	F	ST	01/15/2010
	514071	F	AT	01/24/2010
201040	483893	F	ST	01/13/2010
	484369	F	ST	01/16/2010
	488842	F	ST	01/21/2010

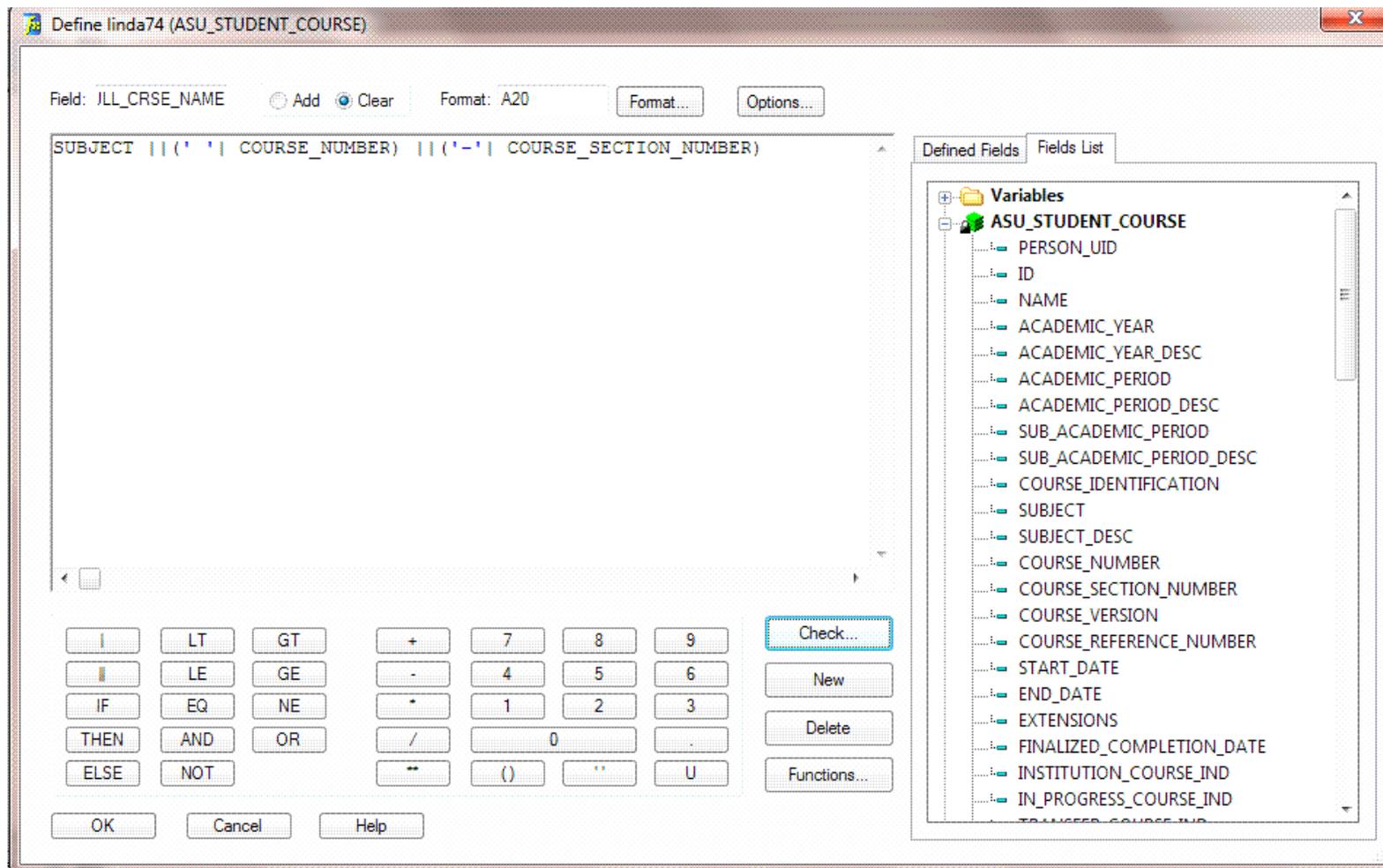
## Exercise 7.4 COMPUTE

1. This time you are going to create a report from scratch.
2. Right click in your folder and select new -> procedure.
3. Name the procedure yourname74 and click create.
4. Click on the diamond in the procedure viewer and select Report.
5. Select ASU\_STUDENT\_COURSE from the Table list.
6. Add NAME, ID, COLLEGE\_DESC to the report make them all a BY field.

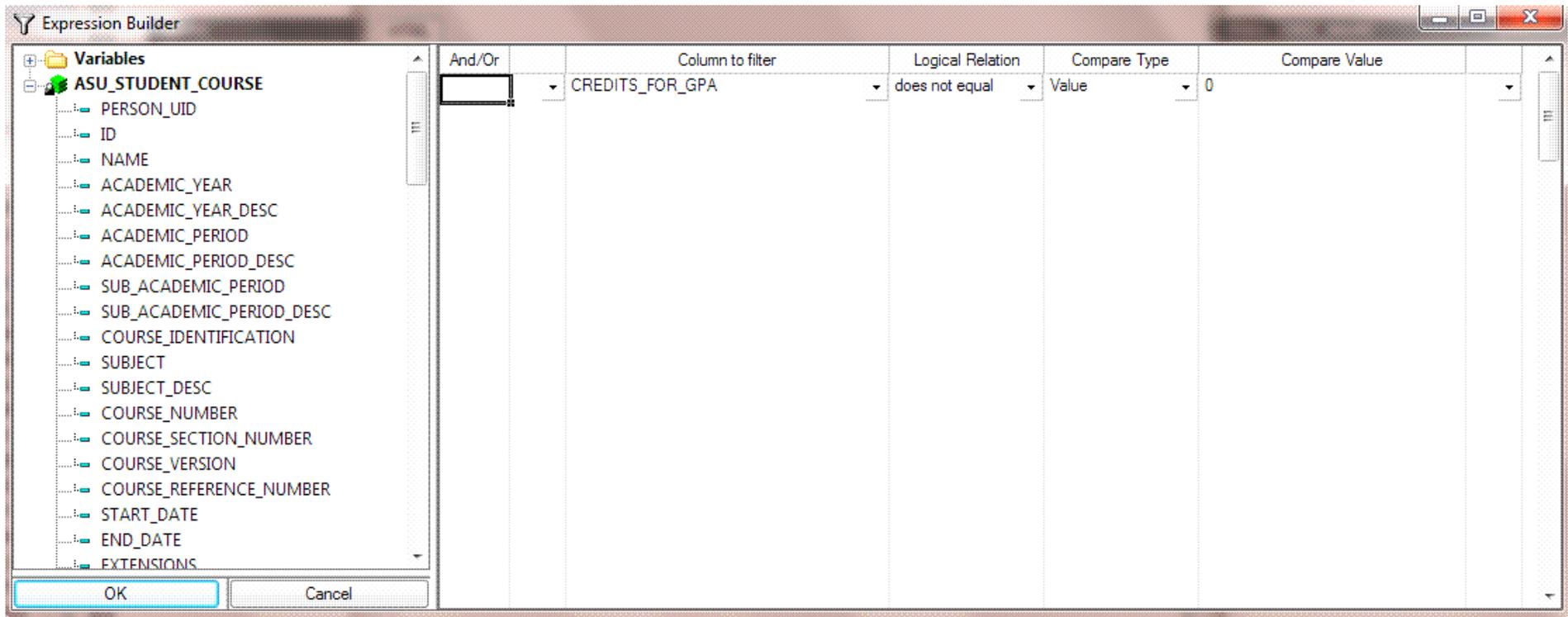


Create a defined field called FULL\_CRSE\_NAME.

1. Field = FULL\_COURSE\_NAME    Format = A20
2. In the expression box SUBJECT || (' ' | COURSE\_NUMBER) || ('-' | COURSE\_SECTION\_NUMBER)
3. Click Check to make sure you have the correct syntax.
4. If no errors click OK.

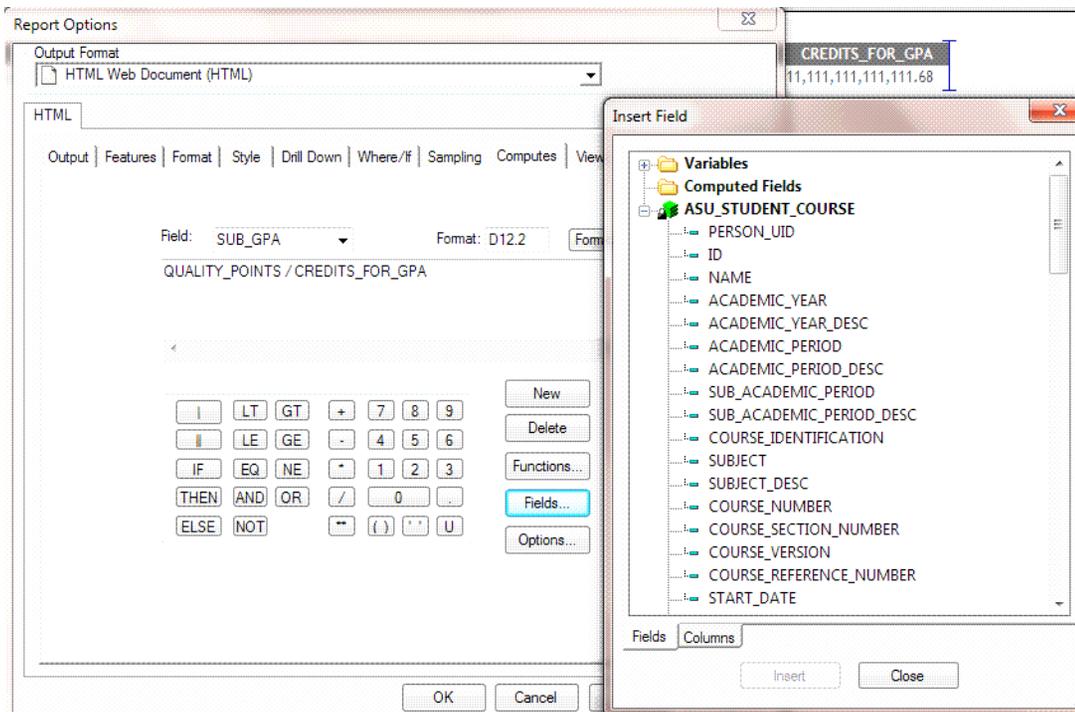


1. Add FULL\_CRSE\_NAME to the report after the college. This should be a BY field also.
2. Place your cursor after the FULL\_CRSE\_NAME field and click the detail button
3. Add QUALITY\_POINTS and CREDITS\_FOR\_GPA
4. Click the Where/IF button on the columns toolbar.
5. Set retrieval limits to 1000
6. Click the Where tab and click assist. Add CREDITS\_FOR\_GPA to the Column to filter, Select does not equal in the Logical Relation box, Select Value for the Compare type.
7. Double click in the Compare Value box and create the value 0 (zero). Click OK, click Apply, Click ok.



Create the computed field.

1. Place your cursor after CREDITS\_FOR\_GPA field in the report.
2. Click the COMPUTE button.
3. Type SUB\_GPA in the Field box. Leave the format D12.2
4. Click the fields button to bring up the field list.
5. Double click QUALITY\_POINTS field to get it in the expression box.
6. Click / button or type it. (divided by)
7. Double click CREDITS\_FOR\_GPA.
8. Click OK.



Notice SUB\_GPA is now a field in your report.

Run the report.

Close the output window

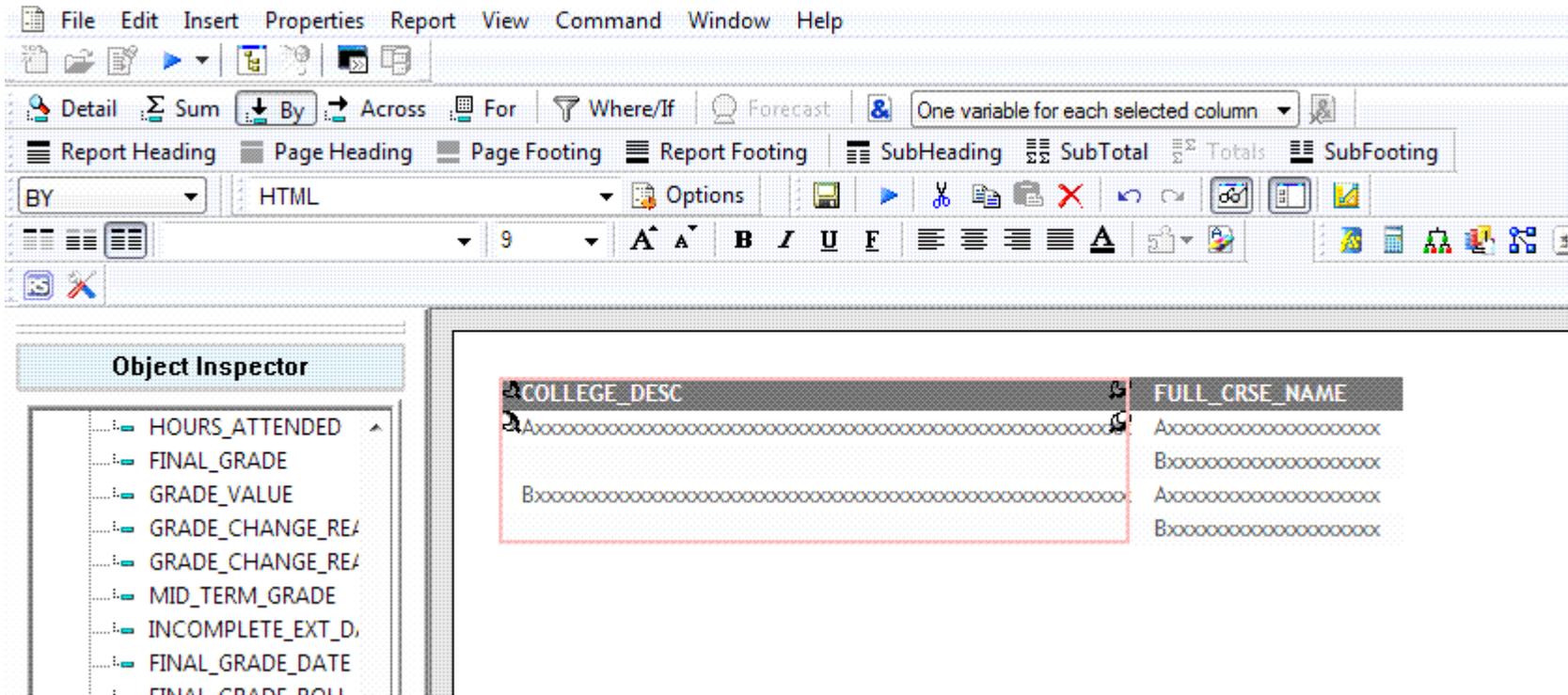
Close and save your report.

The screenshot displays a report generation software interface. The main window shows a report preview with the following columns: COLLEGE\_DESC, FULL\_CRSE\_NAME, QUALITY\_POINTS, CREDITS\_FOR\_GPA, and SUB\_GPA. The SUB\_GPA column contains the value 111,111,111.11. An Object Inspector panel on the left lists various fields, including COLLEGE\_DESC, DEPARTMENT\_DESC, DIVISION\_DESC, COURSE\_TITLE\_SHORT, COURSE\_TITLE\_LONG, GRADABLE\_IND, SCHEDULE\_TYPE, SCHEDULE\_TYPE\_DESC, INSTRUCTION\_METHC, COURSE\_BILLING\_CRED, CREDITS\_ATTEMPTED, CREDITS\_PASSED, CREDITS\_FOR\_GPA, CREDITS\_EARNED, QUALITY\_POINTS, TRADITIONAL\_IND, and EFF\_ACADEMIC\_PERIO. A WebFOCUS Report window is open in the foreground, displaying a table with the following data:

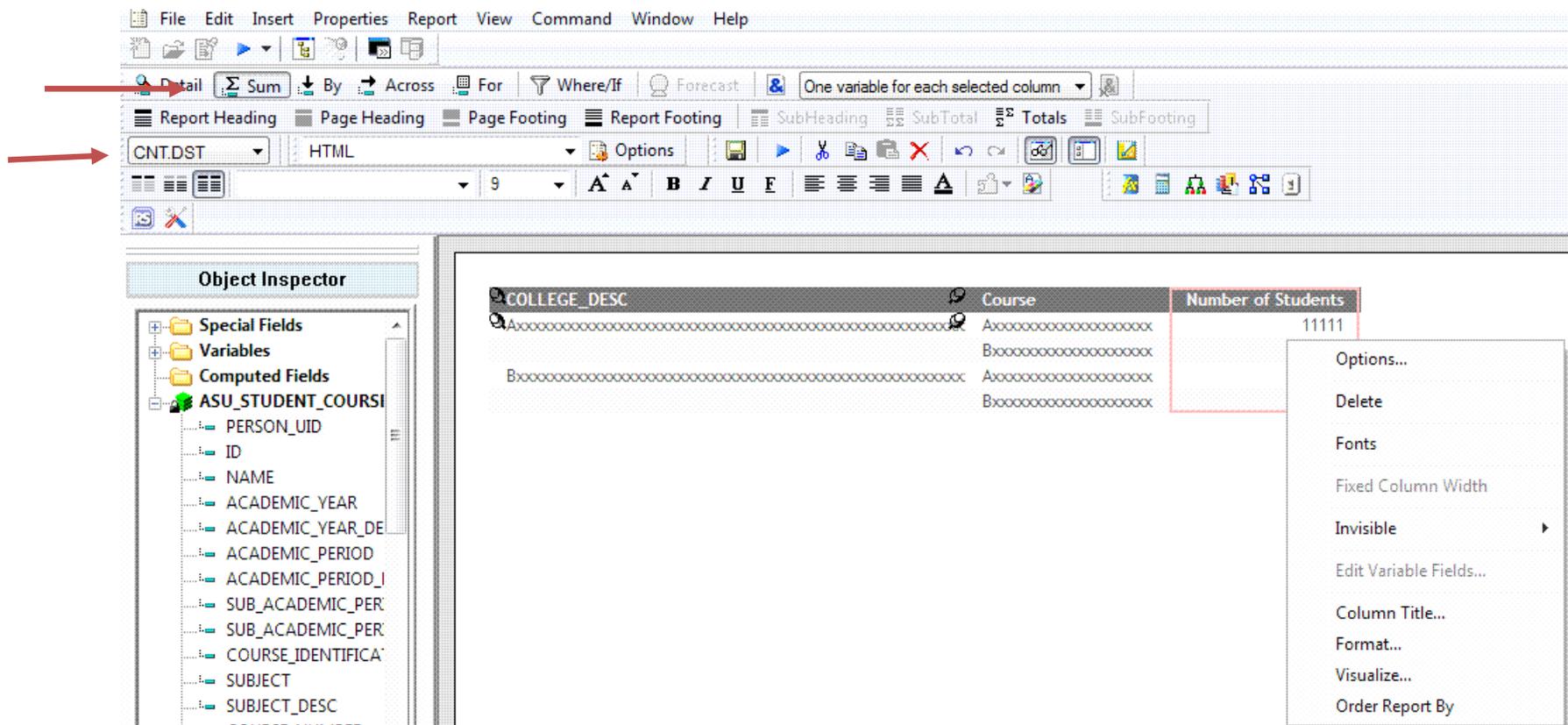
NAME	ID	COLLEGE_DESC	FULL_CRSE_NAME	QUALITY_POINTS	CREDITS_FOR_GPA	SUB_GPA
Adams, James A.	900205597	.	ENG 4730-101	8.10	3.00	2.70
Adams, Jonavan D.	900003818	.	H P 1105-103	1.40	2.00	.70
Bandurraga, Sara E.	900397087	College of Arts & Sciences	STT 1810-102	9.00	3.00	3.00
Barkoskie, Amber L.	900262386	.	PSY 4660-101	6.00	3.00	2.00
Bates, Virginia C.	900323182	.	ENG 2170-106	5.10	3.00	1.70
Bealer, Donna M.	900284846	.	PSY 3201-101	9.00	3.00	3.00
Berry, Jennifer L.	900386876	.	GHY 1020-107	3.00	3.00	1.00
Bouton, Scott C.	900212247	.	AMU 3425-122	8.00	2.00	4.00
Brown, Jennifer M.	900218091	.	LDW 2150-111	9.00	3.00	3.00

## Exercise 8.1 COUNT

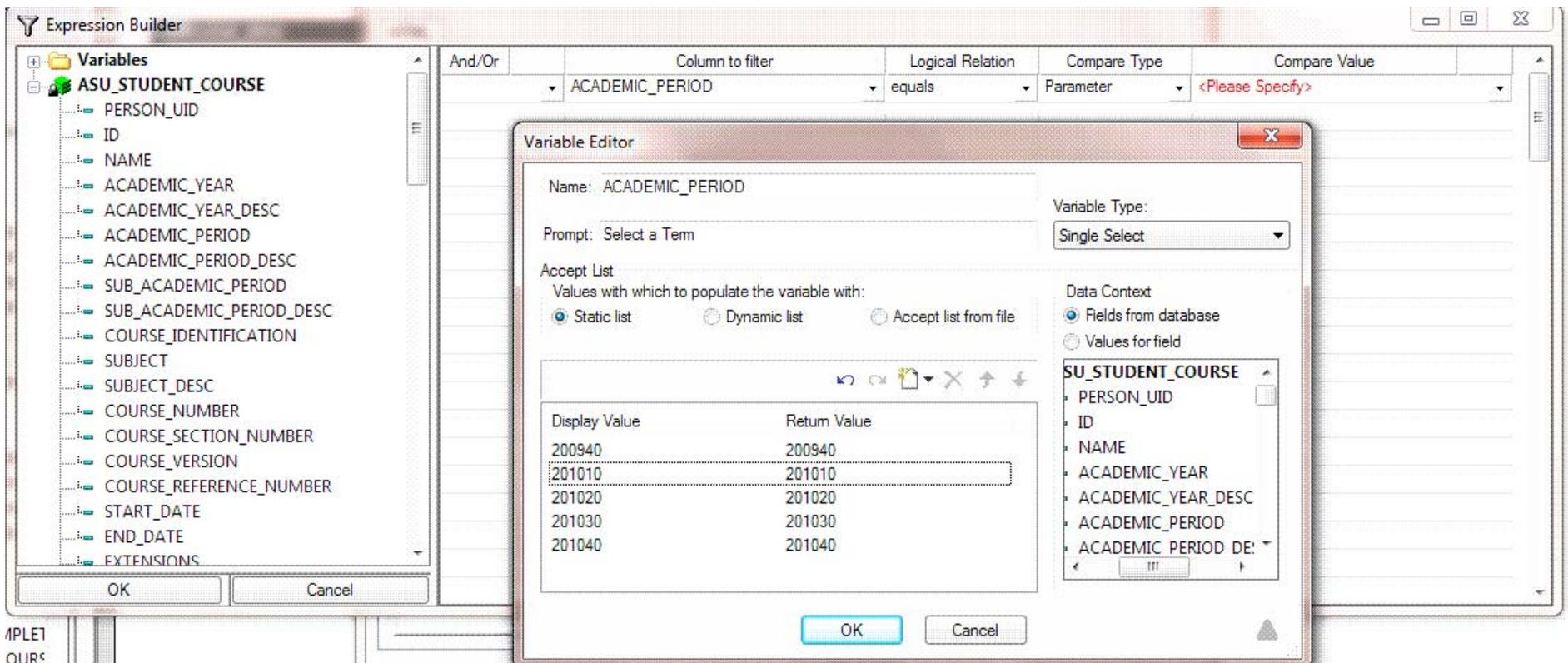
1. Right Click on yourname74 and select copy
2. Right click anywhere in your folder and select paste
3. Rename yournam741 to yourname8
4. Double Click yourname8 to open the procedure viewer
5. Double click the report object to open the report in the report painter.
6. Remove the following fields from the report— COLLEGE\_DESC, QUALITY\_POINTS, CREDITS\_FOR\_GPA, SUB\_GPA, NAME, AND ID.
7. Add COLLEGE\_DESC before FULL\_CRSE\_NAME field in the report.



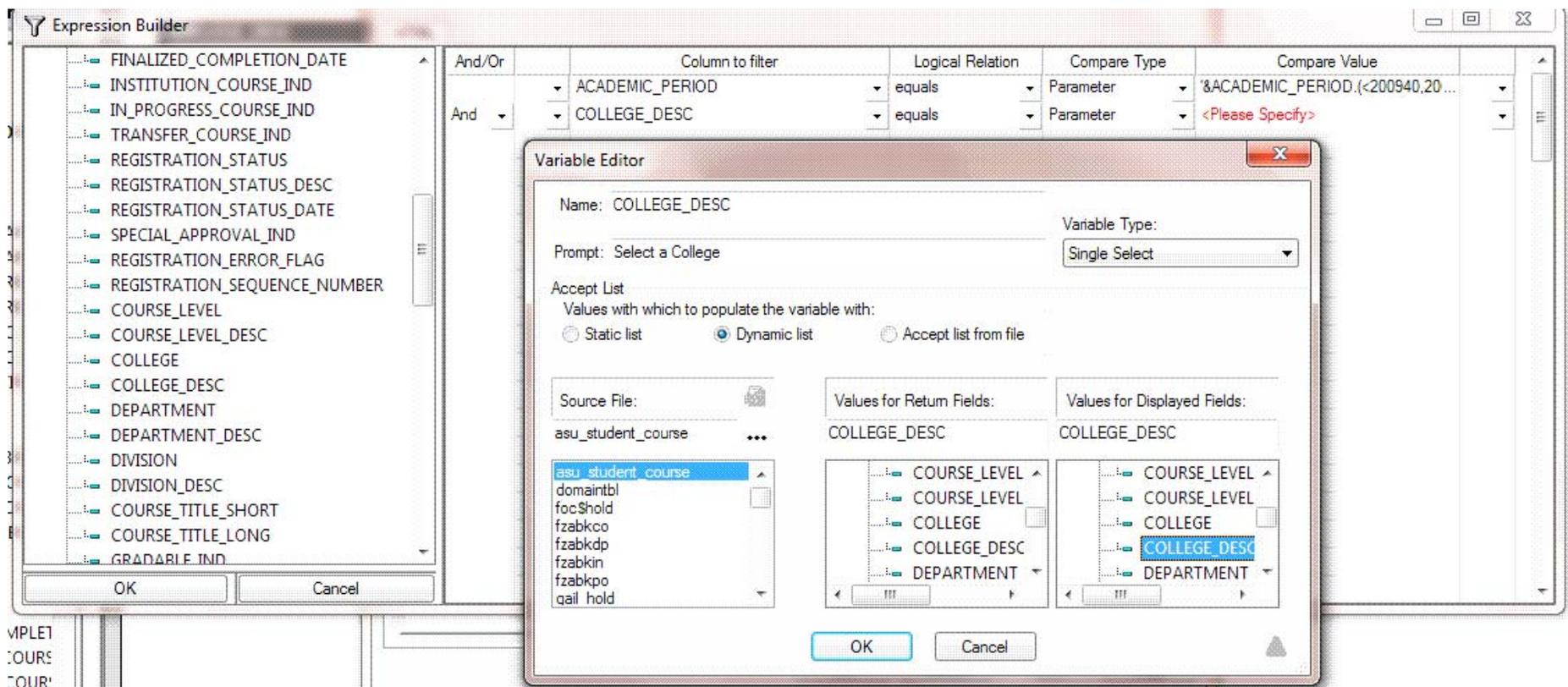
1. Add PERSON\_UID to the report after the FULL\_COURSE\_NAME.
2. Select PERSON\_UID in the report if it is not already selected.
3. Click the SUM button in the Columns Toolbar.
4. In the general Toolbar select CNT.DST.
5. Right click the COUNT DISTINCT PERSON\_UID field in your report and select Column Title
6. Name the field Number of Students.
7. Right click on the FULL\_CRSE\_NAME field in the report and Select Column Title.
8. Name the field Course



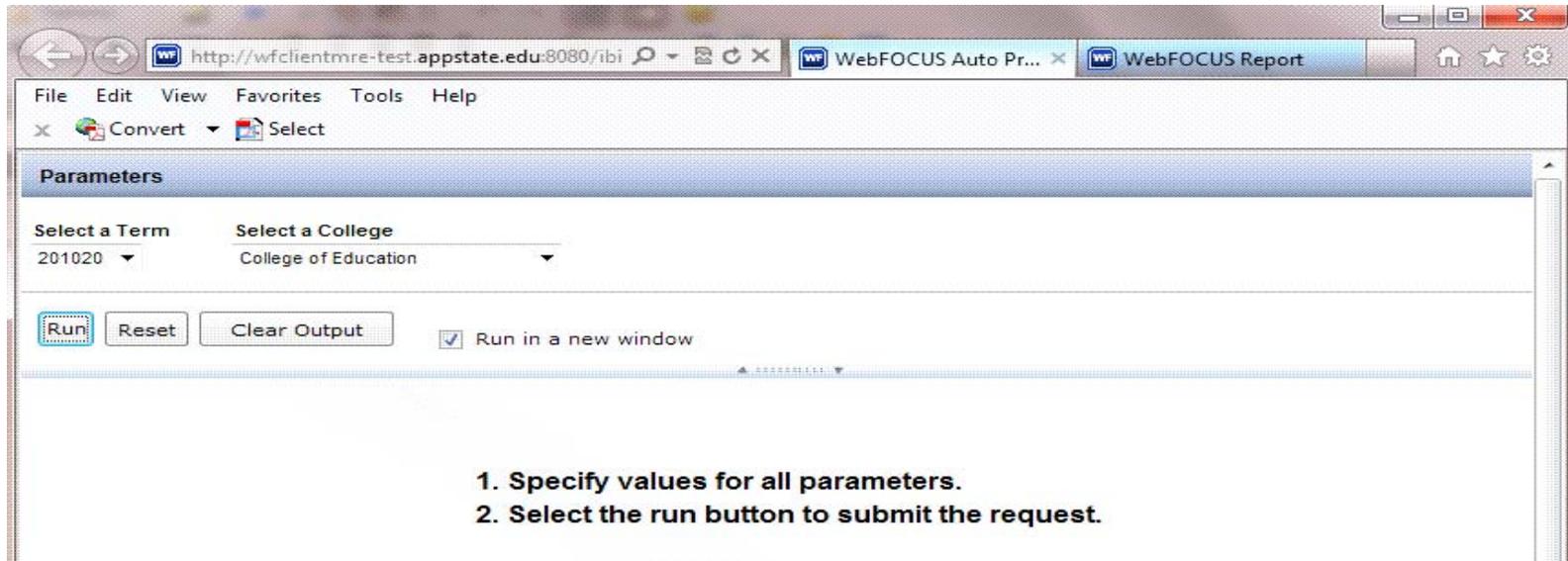
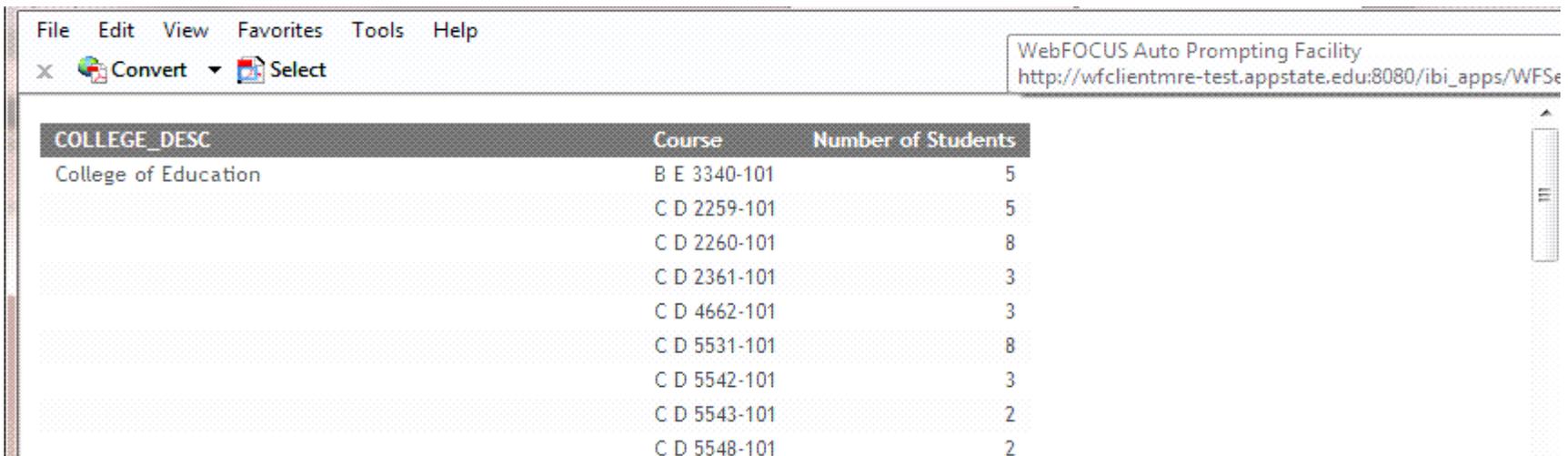
1. Click the Retrieval Limits tab and remove the limits you had set in the previous report.
2. Click the Where/IF button in the columns toolbar and delete the WHERE CREDITS\_FOR\_GPA NE 0.
3. Click Assist.
4. Add ACADEMIC\_PERIOD to Column to Filter. Select Equals for Logical Relation. Select Parameter for Compare Type.
5. Double Click in the Compare Value box
6. Select Single Select in the Variable Type list.
7. Type Select a Term on the Prompt box.
8. Click the Static List button and add the following terms. 200940, 201010, 201020, 201030, 201040.
9. Click OK.



1. Add COLLEGE\_DESC to the Column to Filter. Notice the And is added for you.
2. Select equals for the Logical Relation. Select Parameter for the Compare Type. Double click in the Compare Value box.
3. Select Single Select in the Variable Type box. Type Select a College in the Prompt box.
4. Click Dynamic List in the Accept List area.
5. Select asu\_student\_course from the Source File list.
6. Select COLLEGE\_DESC for the Value for Return Fields box.
7. Select COLLEGE\_DESC for the Value for Displayed Fields box.
8. Click OK. Click OK. Click Apply then OK to return to the report painter window.



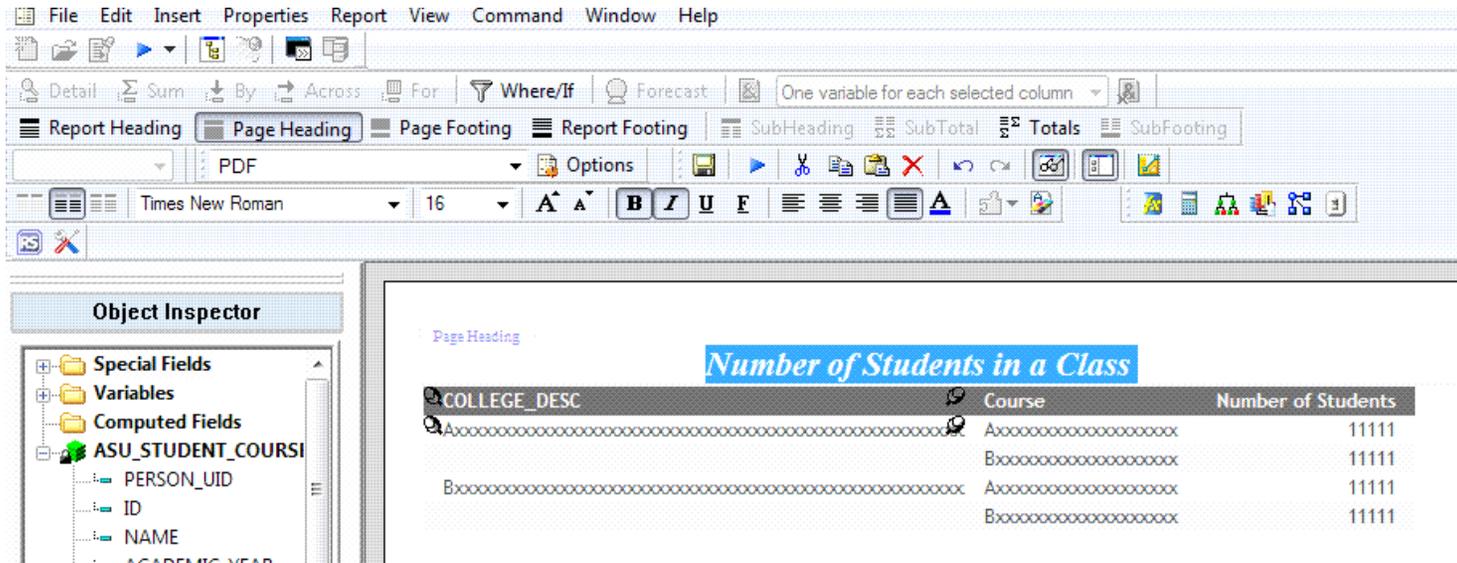
1. Run the report.
2. Select a Term and a College.
3. Click Run in a new window
4. Click Run. Close the output. Close and Save your report.

COLLEGE_DESC	Course	Number of Students
College of Education	B E 3340-101	5
	C D 2259-101	5
	C D 2260-101	8
	C D 2361-101	3
	C D 4662-101	3
	C D 5531-101	8
	C D 5542-101	3
	C D 5543-101	2
	C D 5548-101	2



1. Click the Page Heading button in the general toolbar.
2. Change the FONT to Times New Roman. Change the font size to 16. Change the Font Color to Blue.
3. Type Number of Students in a Class in the Report Heading
4. Change your output type to PDF.
5. Run the report. Close the output and save the report.



### *Number of Students in a Class*

COLLEGE_DESC	Course	Number of Students
School of Music	MUS 1113-101	10
	MUS 1115-101	2
	MUS 1116-101	4
	MUS 1117-101	19
	MUS 1119-101	3
	MUS 1119-102	1
	MUS 1120-101	7
	MUS 1121-101	2

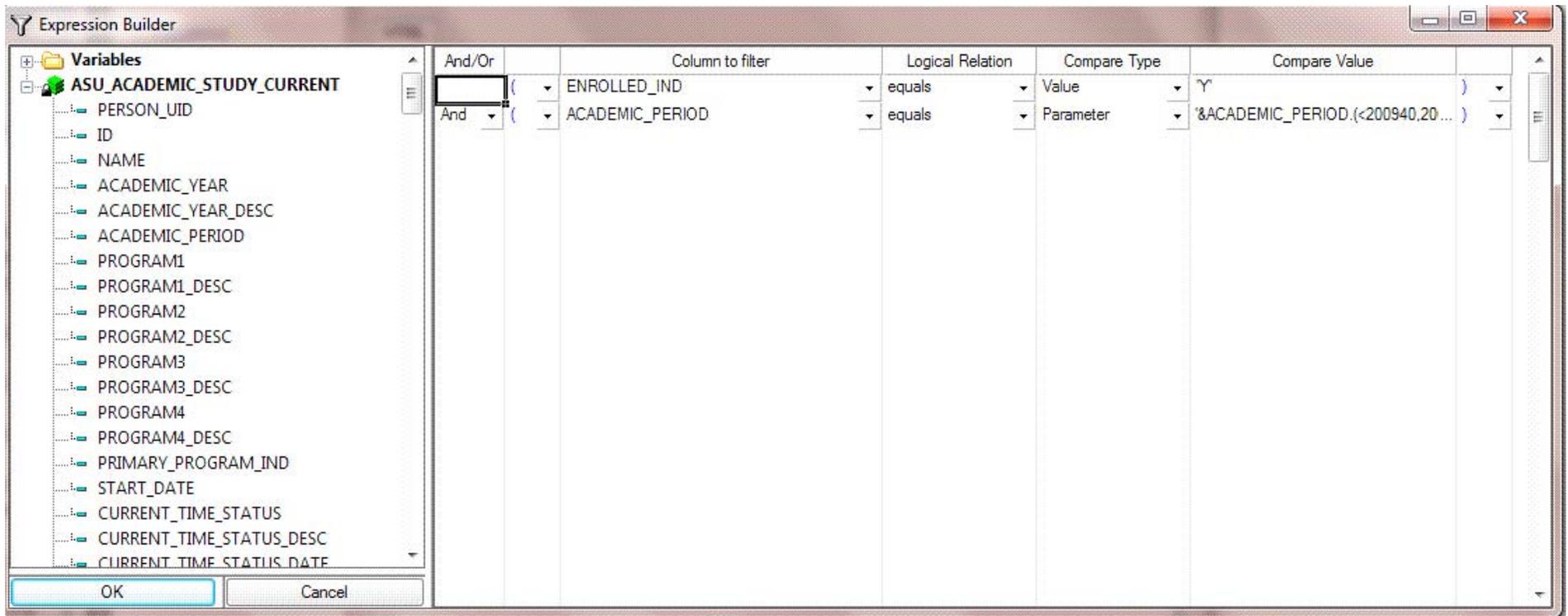
## Exercise 9.2 Visualize

1. Create a new procedure called yourname92.
2. Select ASU\_ACADEMIC\_STUDY\_CURRENT from the list of tables.
3. Add COLLEGE\_DESC as a BY Field to the report. Change the Column title to just COLLEGE.
4. Add PERSON\_UID to the report and update it to a Count field. Change the Column Title to ENROLLED STUDENTS

The screenshot displays a report design tool interface. The top menu bar includes File, Edit, Insert, Properties, Report, View, Command, Window, and Help. Below the menu is a toolbar with various icons for report design. The main toolbar contains options for Detail, Sum, By, Across, For, Where/If, Forecast, and a dropdown for 'One variable for each selected column'. Below this is another toolbar with Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, Totals, and SubFooting. The main toolbar also includes a dropdown for 'CNT', a dropdown for 'HTML', and various formatting options like Bold, Italic, Underline, and Font Color. The Object Inspector on the left shows a tree view with folders for Special Fields, Variables, and Computed Fields, and a tree for ASU\_ACADEMIC\_STUDY with fields PERSON\_UID, ID, NAME, and ACADEMIC\_YEAR. The report preview on the right shows a Page Heading section with a table. The table has two columns: COLLEGE and ENROLLED STUDENTS. The data rows are A and B, both showing 11111 in the ENROLLED STUDENTS column.

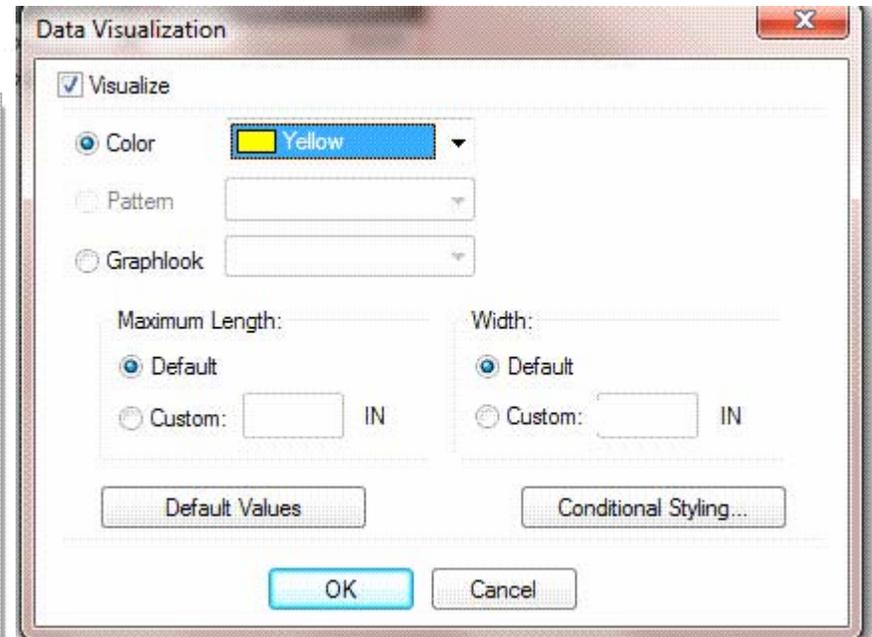
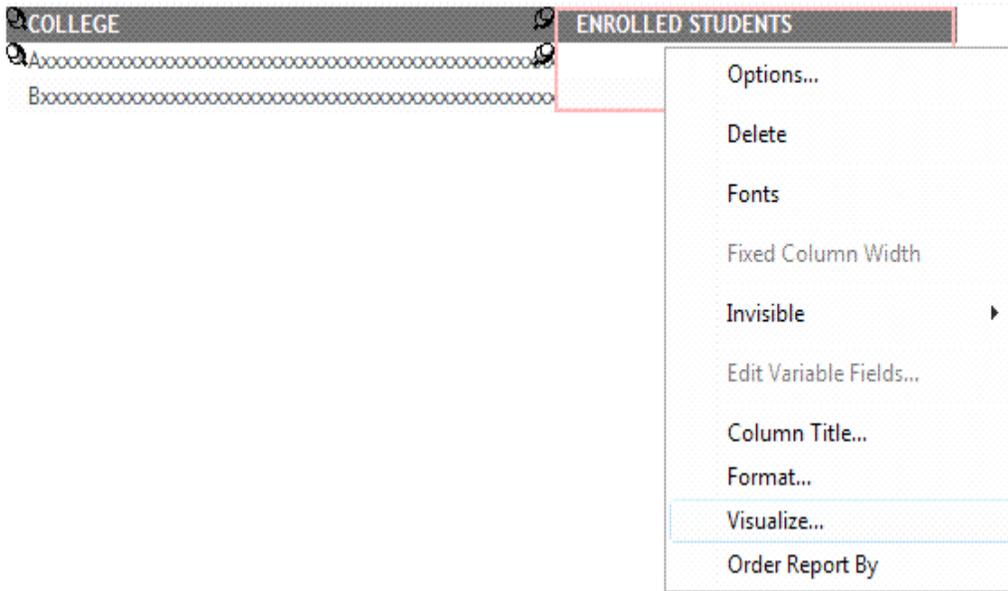
COLLEGE	ENROLLED STUDENTS
A.....	11111
B.....	11111

1. Click the Where/if button, click Assist.
2. Add ENROLLED\_IND to the Column to Filter, select equals for the Logical Relation, Select Value for the Compare Type
3. Create the Compare Value Y.
4. Add ACADEMIC\_PERIOD to the Column to Filter, select equals for the Logical Relation, Select Parameter for the Compare Type
5. Create a Static List for the Compare Value consisting of 200940, 201010, 201020, 201030, 201040.
6. Click OK
7. Click Apply, Click Ok to return to the report painter window.



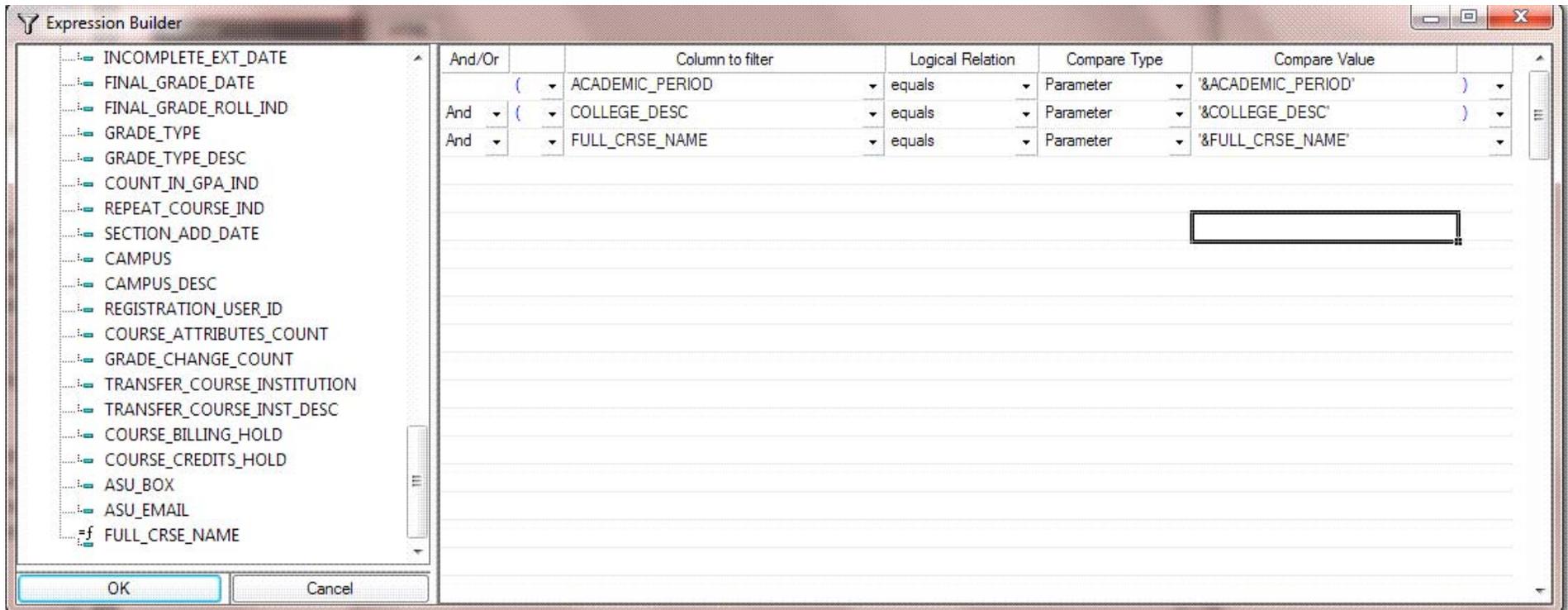
1. Right click on ENROLLED STUDENTS and select Visualize....
2. Click the check box for Visualize in the Data Visualization window.
3. Select the Color radio button and pick a color. I picked yellow.
4. Click OK.
5. Run the report. Close the output. Close and Save the report.

Page Heading

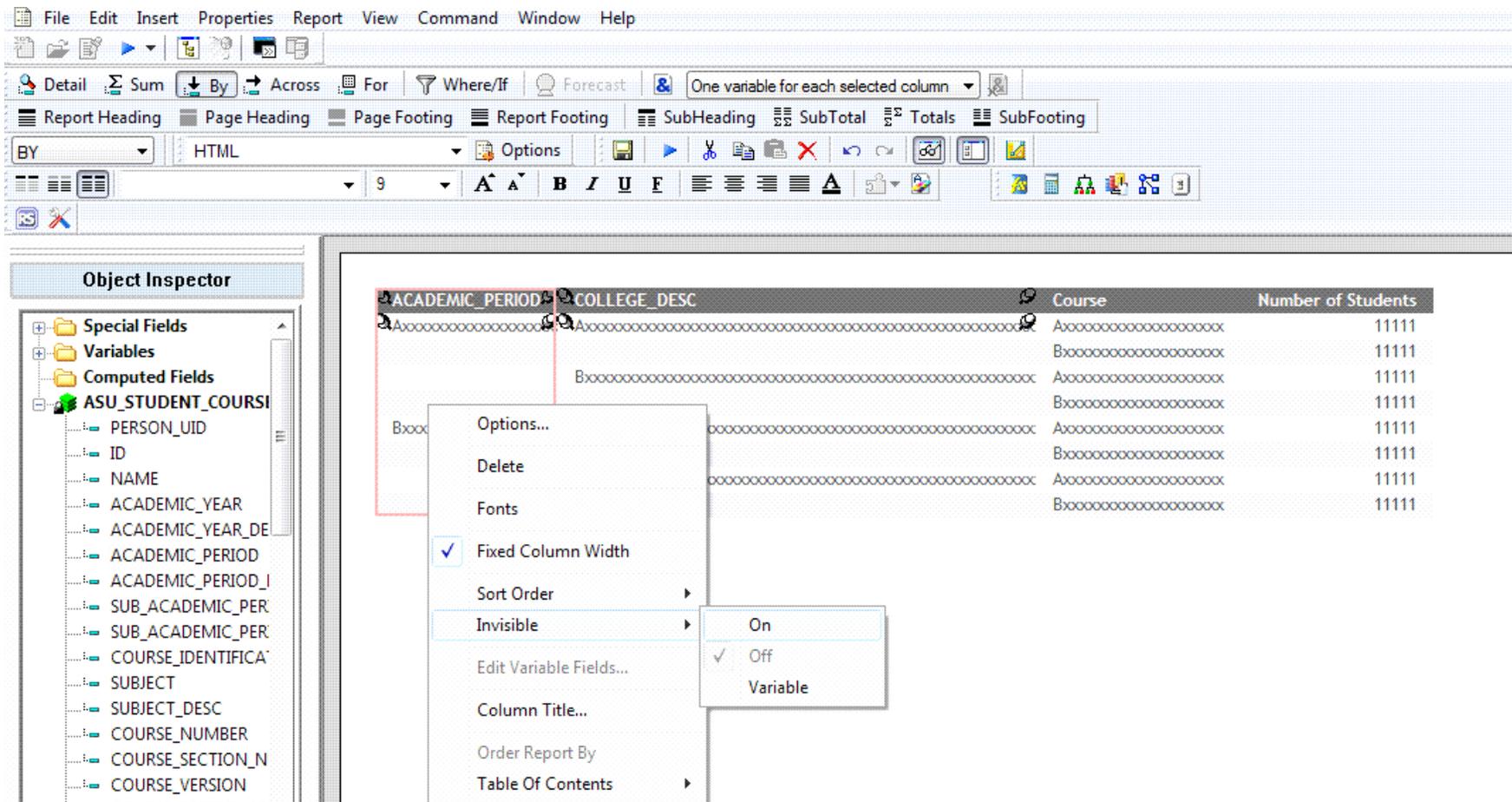




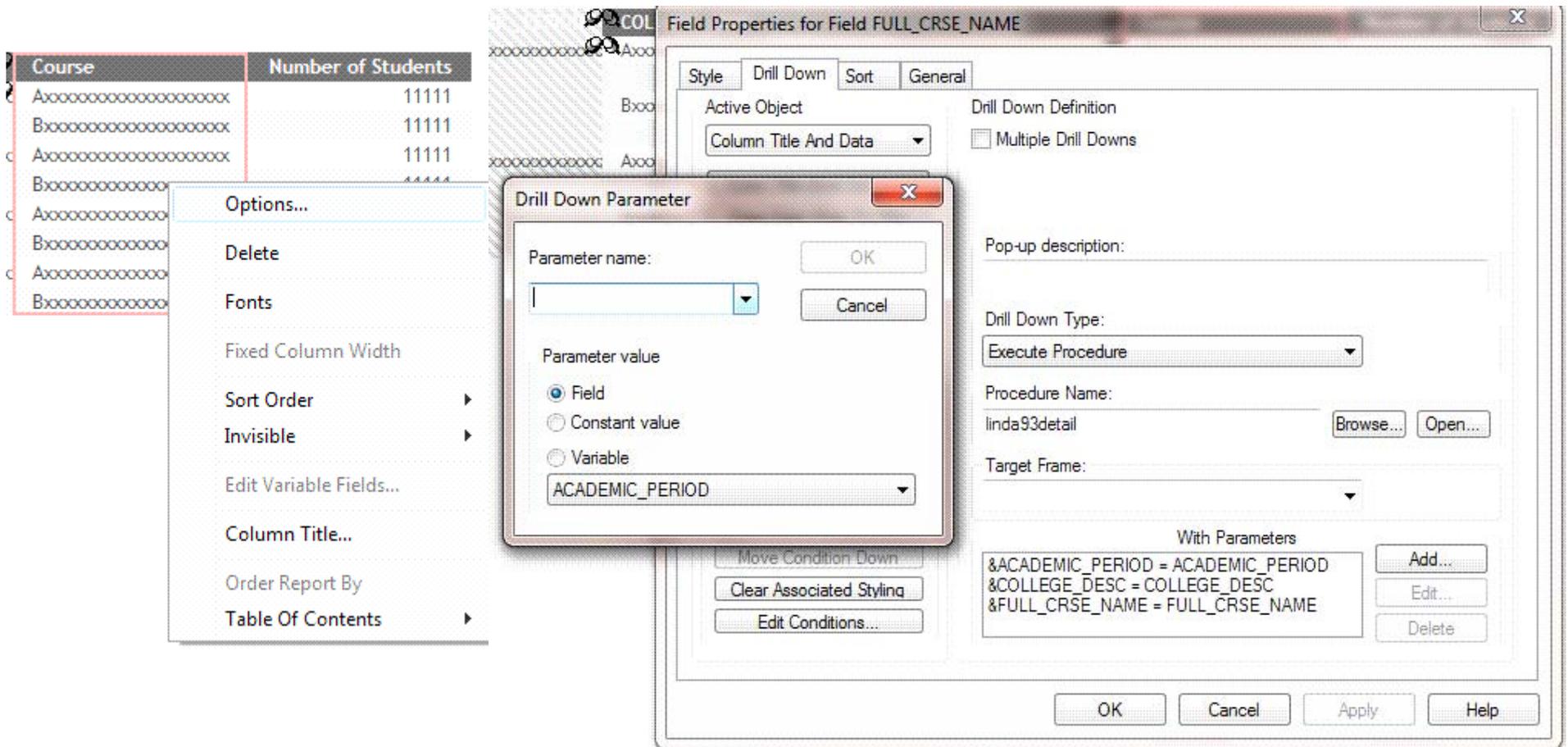
1. Remove College and Number of Students from the report.
2. Add NAME after the Course field.
3. Click Where/If and Select the Retrieval Limits tab and remove the limits set. Click Where tab and select assist.
4. Change the ACADEMIC\_PERIOD Compare Value to a Simple Variable Type.
5. Change the COLLEGE\_DESC Compare Value to a Simple Variable Type.
6. Add FULL\_CRSE\_NAME to the Column to Filter, select equals for the Logical Relation, Select Parameter for the Compare Type.
7. Double Click the Compare Value and select Simple for the Variable Type.
8. Click OK, Click Apply, Click OK to return to the report painter window.
9. Close and Save this report.



1. Double Click yourname93 to open it in the procedure viewer. Double Click the Report object to open it in report painter.
2. Add ACADEMIC\_PERIOD in front of COLLEGE\_DESC. Make sure it is a By field.
3. Right Click on ACADEMIC\_PERIOD select Invisible then Select on.
4. Click Where/If button and select Retrieval Limits and remove the limits that were set.
5. Click Ok.



1. Right Click on Course and Select Options.
2. Click the Drill Down tab. Select Execute Procedure from the Drill Down Type list.
3. Under the Procedure Name click Browse and find yourname93detail and select it.
4. Click the Add button for the With Parameters box. Select ACADEMIC\_PERIOD in the Parameter name box.
5. Select ACADEMIC\_PERIOD in the Parameter Value list with Field radio button on. Click OK.
6. Repeat the steps for COLLEGE\_DESC and FULL\_CRSE\_NAME.
7. When you are finished your With Parameters box should look just like below. Click OK to return to the report painter.



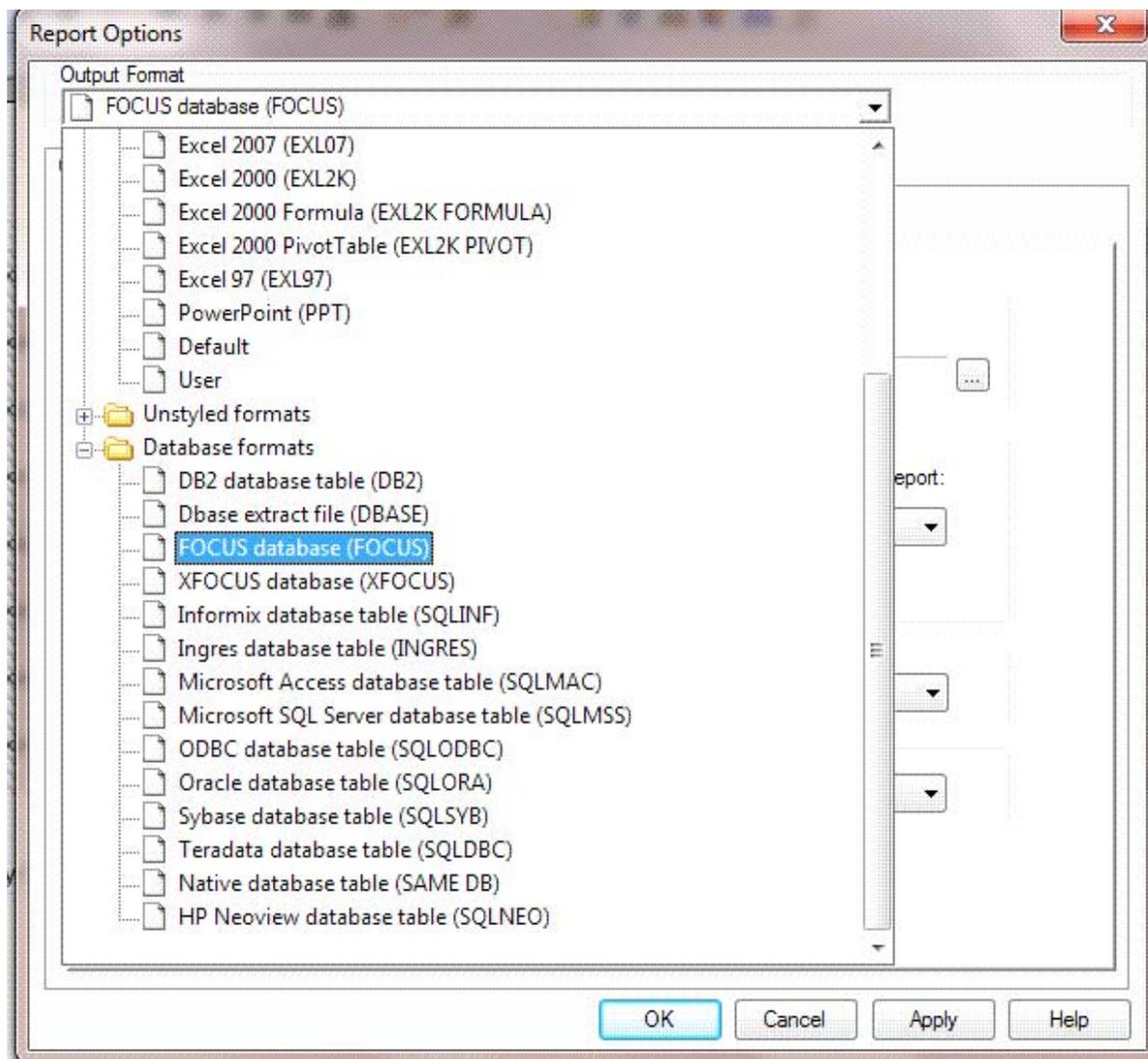
1. Run the report.
2. Select a Term and College.
3. Notice now your output has an underline on the Course field. Click a Course.
4. Now you get a list of the student in that course. Close the outputs and close and save your report.

COLLEGE_DESC	Course	Number of Students
College of Business	<u>ACC 1050-1</u>	1
	<u>ACC 1050-101</u>	20
	<u>ACC 1050-102</u>	23
	<u>ACC 1050-103</u>	13
	<u>ACC 1050-104</u>	19
	<u>ACC 1050-105</u>	21
	<u>ACC 1050-106</u>	28
	<u>ACC 1050-14</u>	1
	<u>ACC 1100-10</u>	1
	<u>ACC 2100-1</u>	124

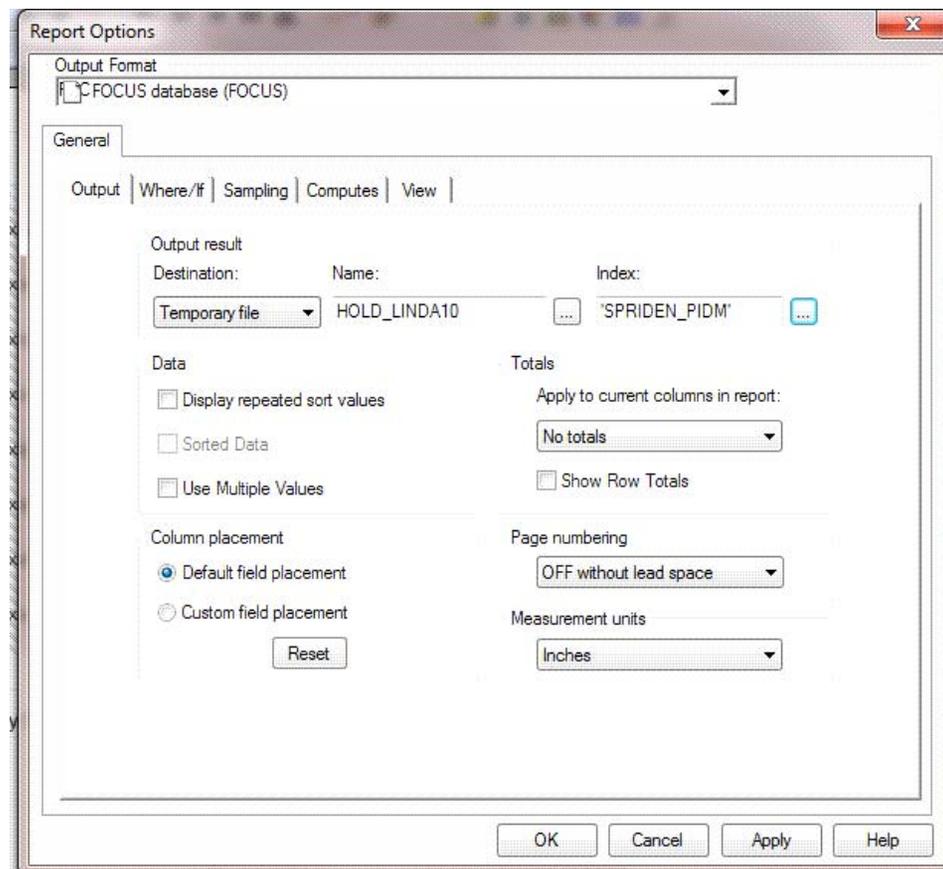
Course	NAME
ACC 1050-101	Birdwell, Andrew G.
	Blankenship, Seth B.
	Ericson, Katherine L.
	Franklin, Brian A.
	Griffith, William L.
	Harley, Jennifer M.
	Harris, John W.
	Healy, Michael L.
	Irvine, Ann S.
	Kirlauski, Joseph R.
	Morgan, Evan S.
	Nordelo, Christopher J.
	O'leary, Katelyn N.
	Reine, Jared A.
	Rhodes, Andrew B.
	Sineath, Scott J.
	Singleton, Millard R.
	Smith, Jenna T.
	Steckey, Laura J.
	Swaim, Lindsay E.



1. Click the Options button on the general toolbar. This will open the Report Options window.
2. Scroll Down in the Output Format list until you see Database formats.
3. Expand Database formats and Select FOCUS database (FOCUS).
4. Once you select Focus you will be returned to the Report Options window.



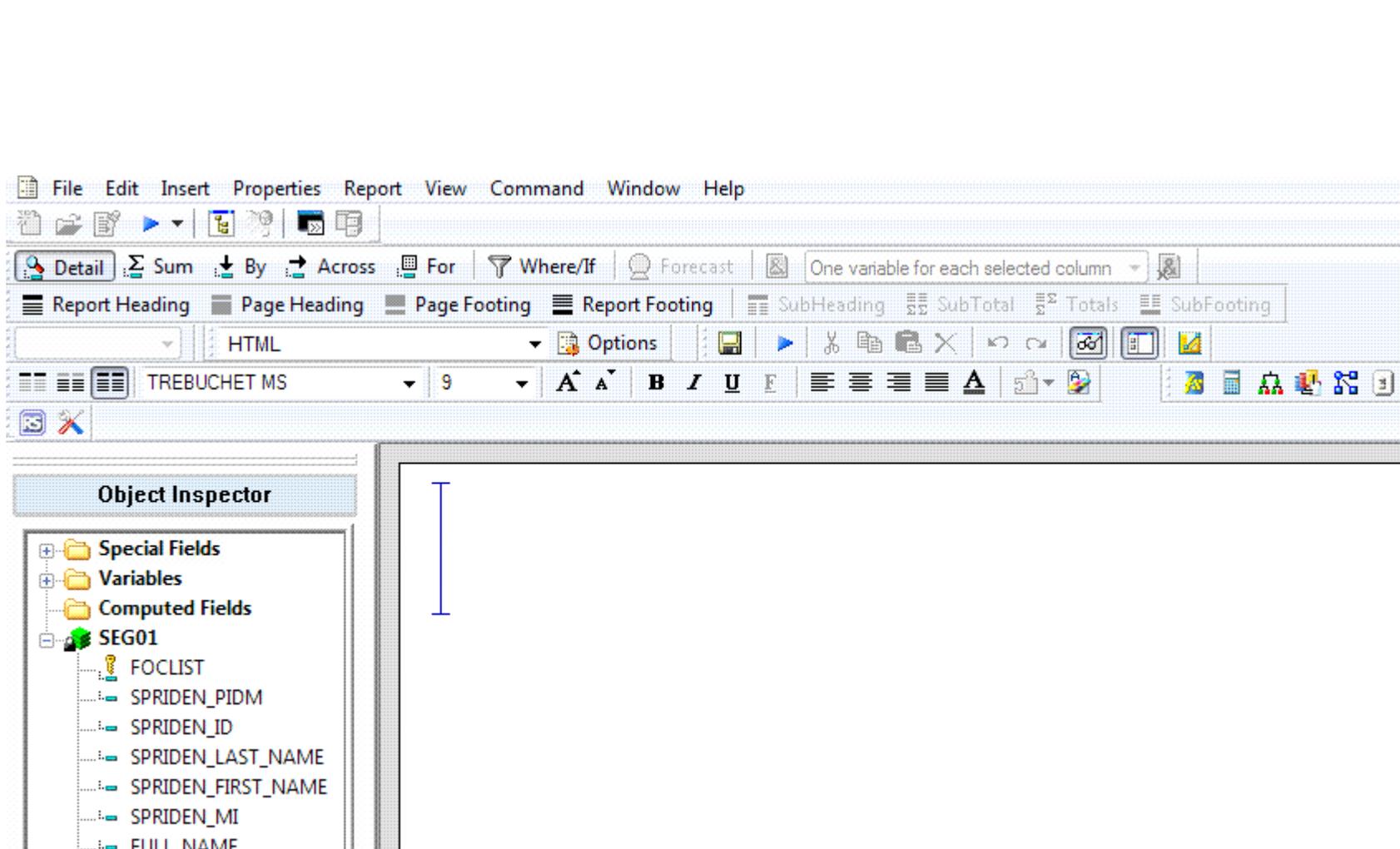
1. In the Output result area. Leave Destination Temporary file.
2. In the Name box leave the HOLD and add \_YOURNAME10. (HOLD\_LINDA10)
3. In the Index box click the ... button and select SPRIDEN\_PIDM.
4. Click Apply then OK.
5. Notice the Output Format changes to FOCUS for your report.
6. Run the report. Notice you get no output but you do get 100 records were created.
7. Close the report and save. You should be at the procedure viewer window.



1. Click the diamond in the procedure viewer and select Report.
2. Select HOLD\_YOURNAME10 from the Table list.
3. Notice you now have your hold file as a table to pick fields from.

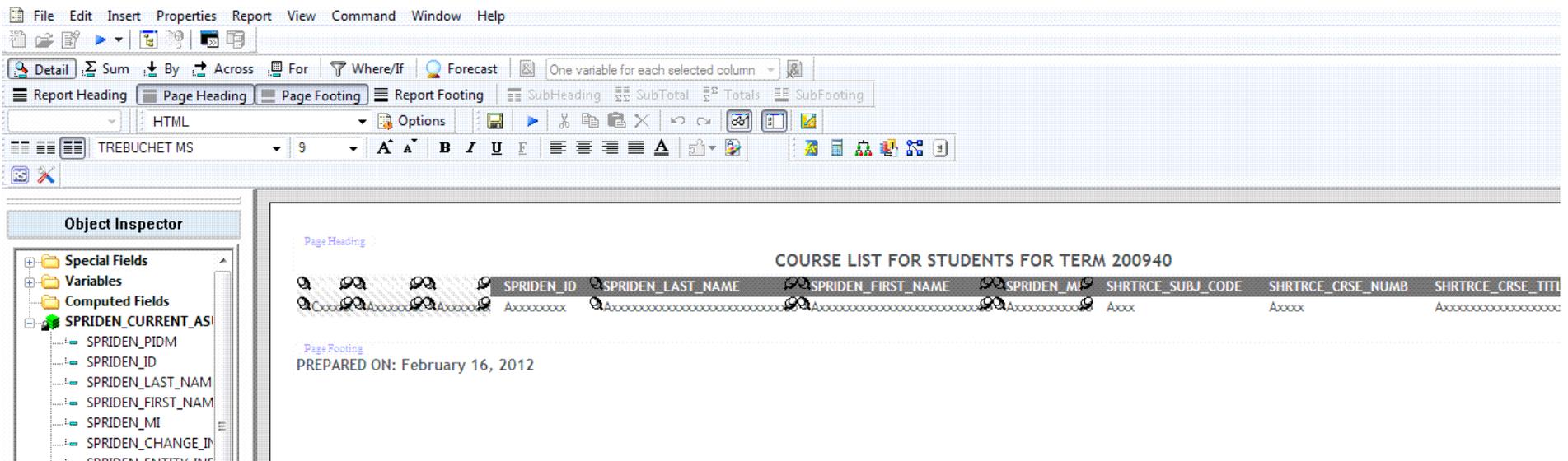
This can be very helpful if you need a subset of a table to work with in your report.

Close the report.

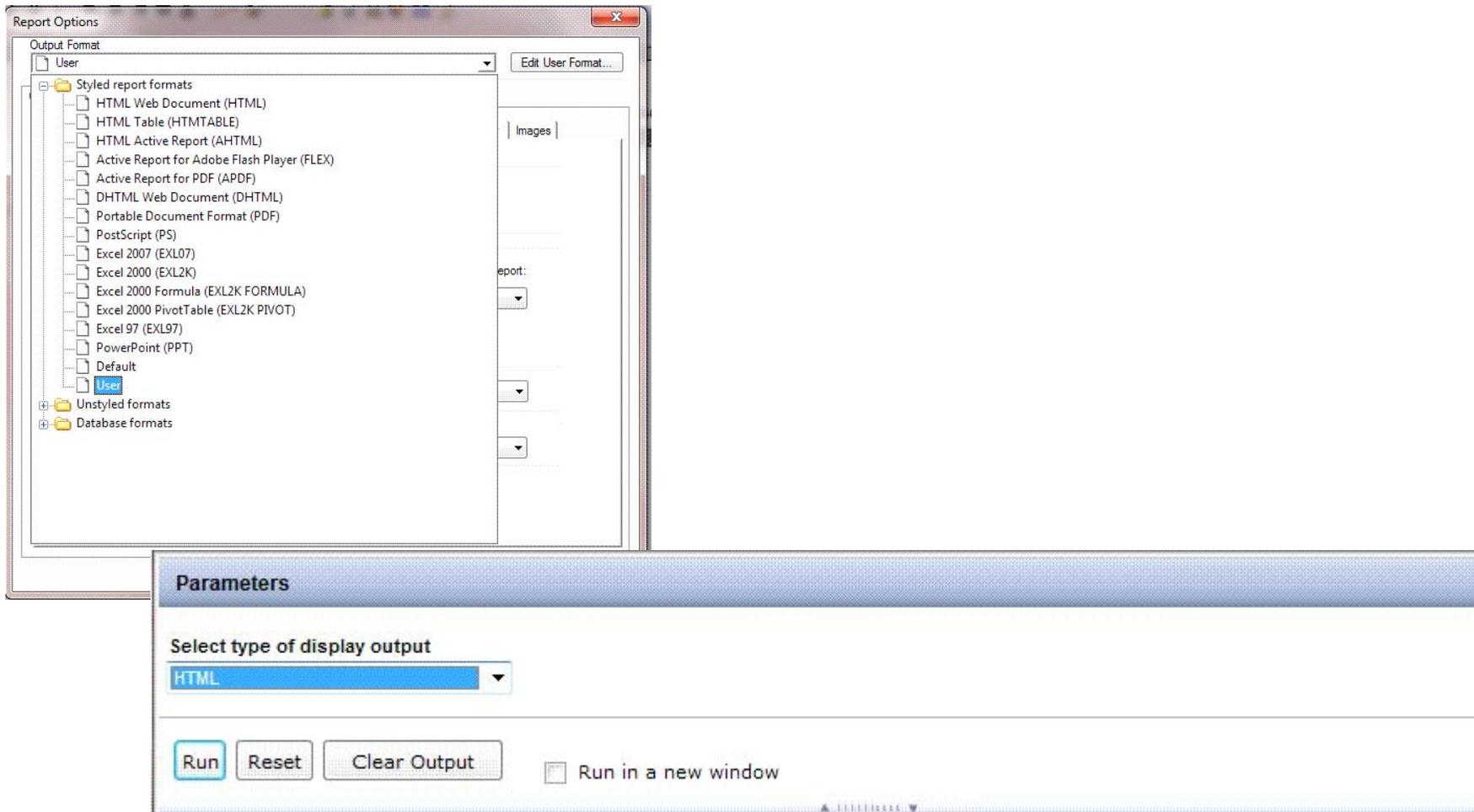


## Exercise 10.2 Change Report Output

1. Right click on yourname62 and select copy. Right click anywhere in your folder and select paste.
2. Right click on yourname621 and select rename. Rename to yourname102.
3. Double click yourname102 to open in the procedure viewer.
4. Double click the report object to open the report in the report painter.

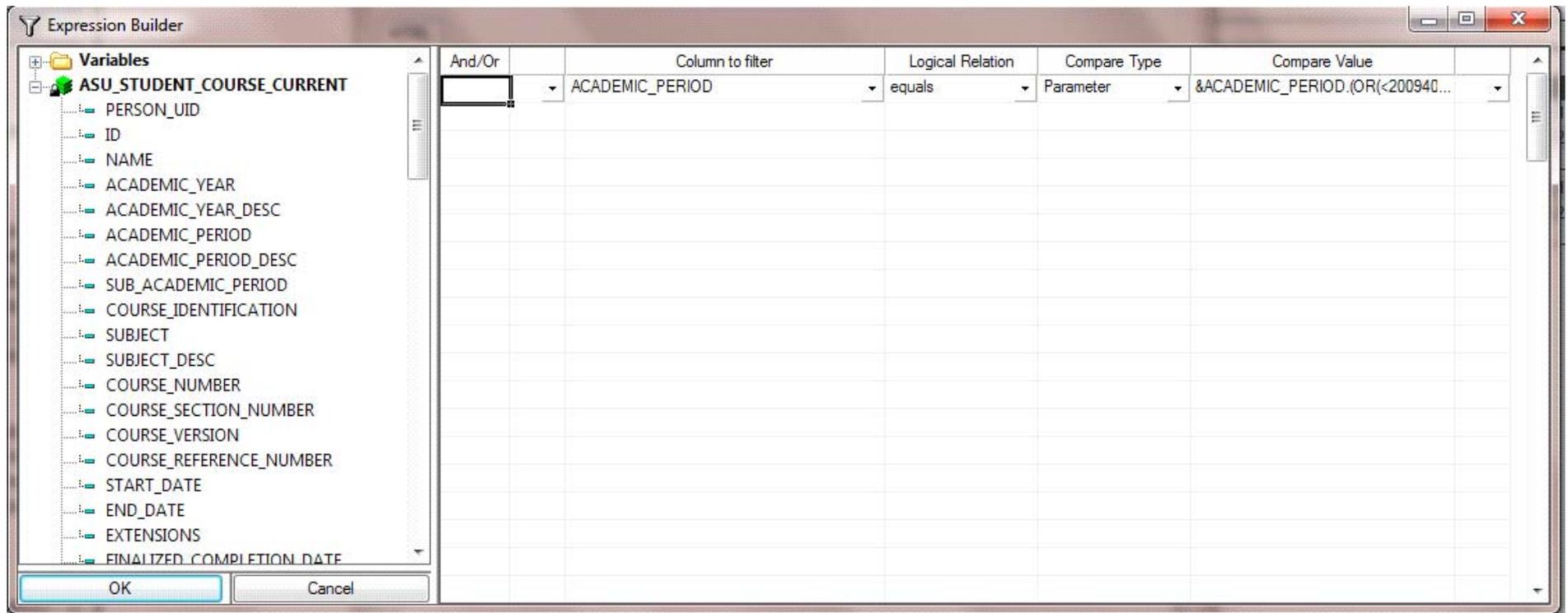


1. Click the Options button in the general toolbar.
2. From the Output Format drop down list select user
3. Click Apply, click Ok.
4. Run the report.
5. Notice you are prompted to pick a display output. Pick one click Run in a new window. Click Run.
6. Close and save the report.

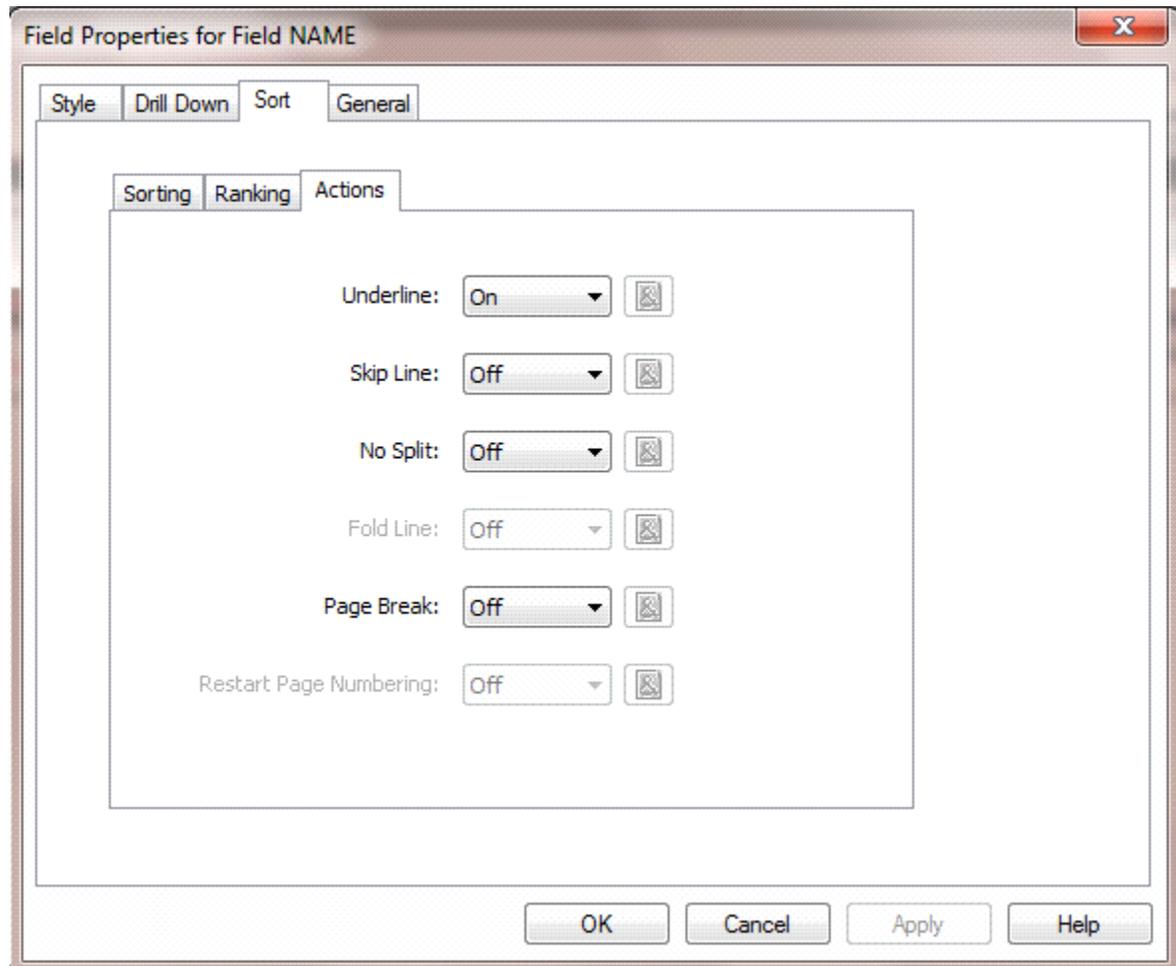




1. Set your retrieval limits to 1000.
2. Create a Multi Select OR Parameter for Academic\_period that is a static list consisting of 200940, 201010, 201040,201110,201140. Prompt the user to Select Terms.
- 3.



1. Right click on the Name field and select options.
2. Click on the Sort Tab and within that tab click on Actions.
3. Select On in the Underline selection box.
4. Click OK



1. Run the report.
2. Select several Terms.
3. Notice the underline between each Name.
4. Close and save your report.

NAME	ACADEMIC_PERIOD		201040		201140	
	200940		FULL_COURSE_NAME	CREDITS_FOR_GPA	FULL_COURSE_NAME	CREDITS_FOR_GPA
Acikgoz, Yalcin	.			.	PSY 5672	.
Adams, Forrest A.	.		ENG ELEC	.		.00
Adams, Lydia G.	.		COM 2300	.		3.00
Addison, Steven E.	.		FRE 1010	.		3.00
Aebischer, Joshua P.	.		ENG 2510	.		3.00
Aguilera, Tamra E.	S W 2020			3.00		.
Alberti, Alexander M.	.			.	AST 1001	.
Alford, Meredith B.	LSA 5585			3.00		.
Allard, Trent S.	.			.	HIS 1200	.
	.			.	GLY 1103	.

## Exercise 11.2 RANK

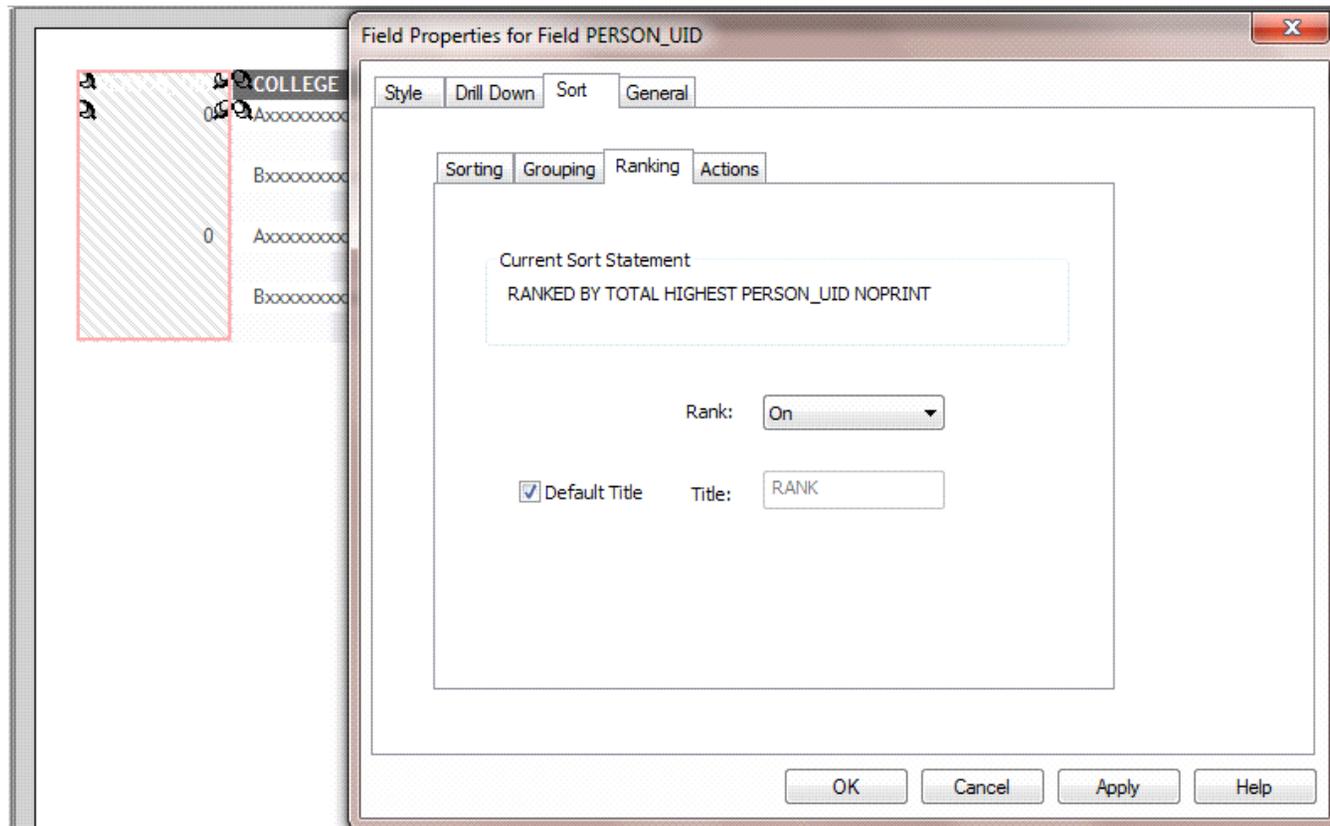
1. Create a report using ASU\_ACADEMIC\_STUDY\_CURRENT name it yourname112.
2. Add the following field to the report as BY fields—College\_desc,
3. Make the title of college\_desc COLLEGE. .
4. Add the PERSON\_UID field after college and make it a SUM Field and add the prefix operator CNT.DST
5. Make the Title of COUNT DISTINCT PERSON\_UID -> NUMBER\_OF\_STUDENTS

The screenshot shows the SAP Crystal Reports interface. The menu bar includes File, Edit, Insert, Properties, Report, View, Command, Window, and Help. The toolbar contains various icons for report design. The design area shows a report with two columns: 'COLLEGE' and 'NUMBER\_OF\_STUDENTS'. The 'NUMBER\_OF\_STUDENTS' column is highlighted with a red box. The 'Object Inspector' on the left shows the data source 'ASU\_ACADEMIC\_STUDY'.

COLLEGE	NUMBER_OF_STUDENTS
A.....	11111
B.....	11111



1. Right Click on the field again and select Options
2. Select the Sort Tab, then select the Ranking tab.
3. Notice the Current Sort Statement.
4. Click the box next to Rank and select on.
5. Leave the Default Title checked.
6. Click Apply, then Click OK.
7. Notice you now have a Field called RANK in your report.
8. Size your fields in the report to get them all on one page. Hint—you can make the hidden field really small also Rank.





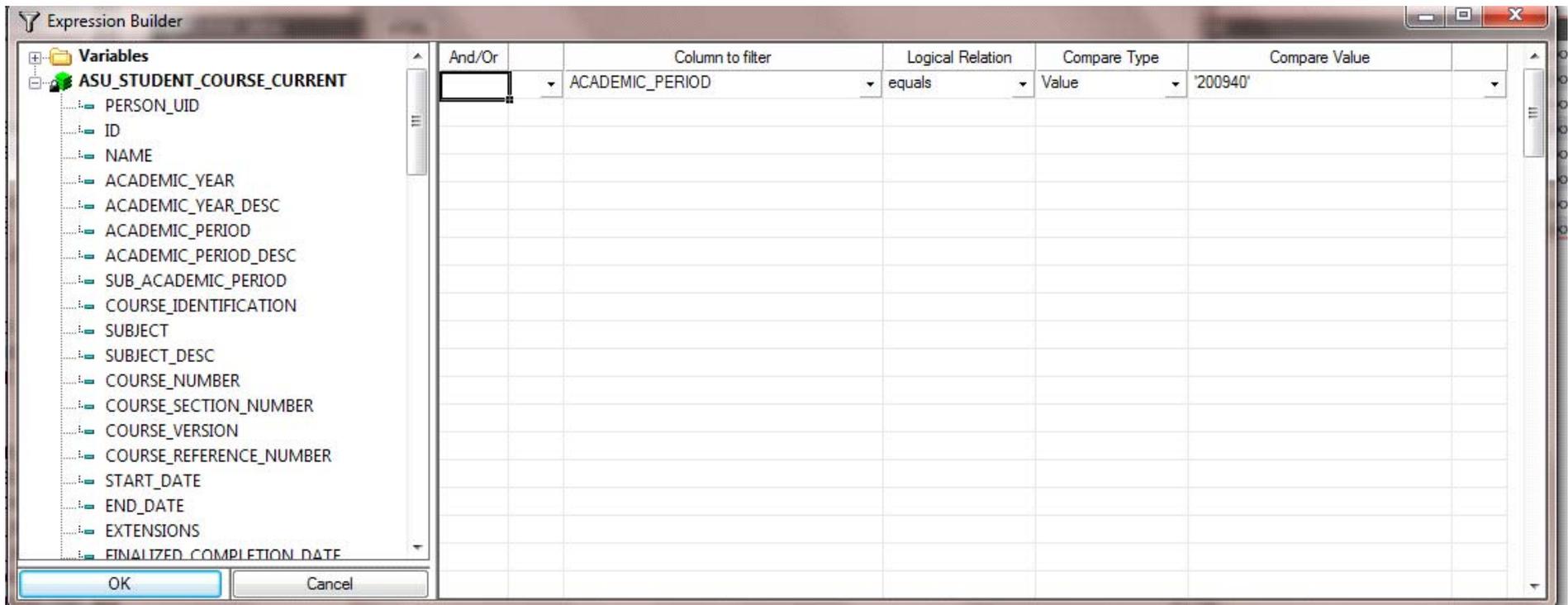
## Exercise 11.3

### TABLE of Contents

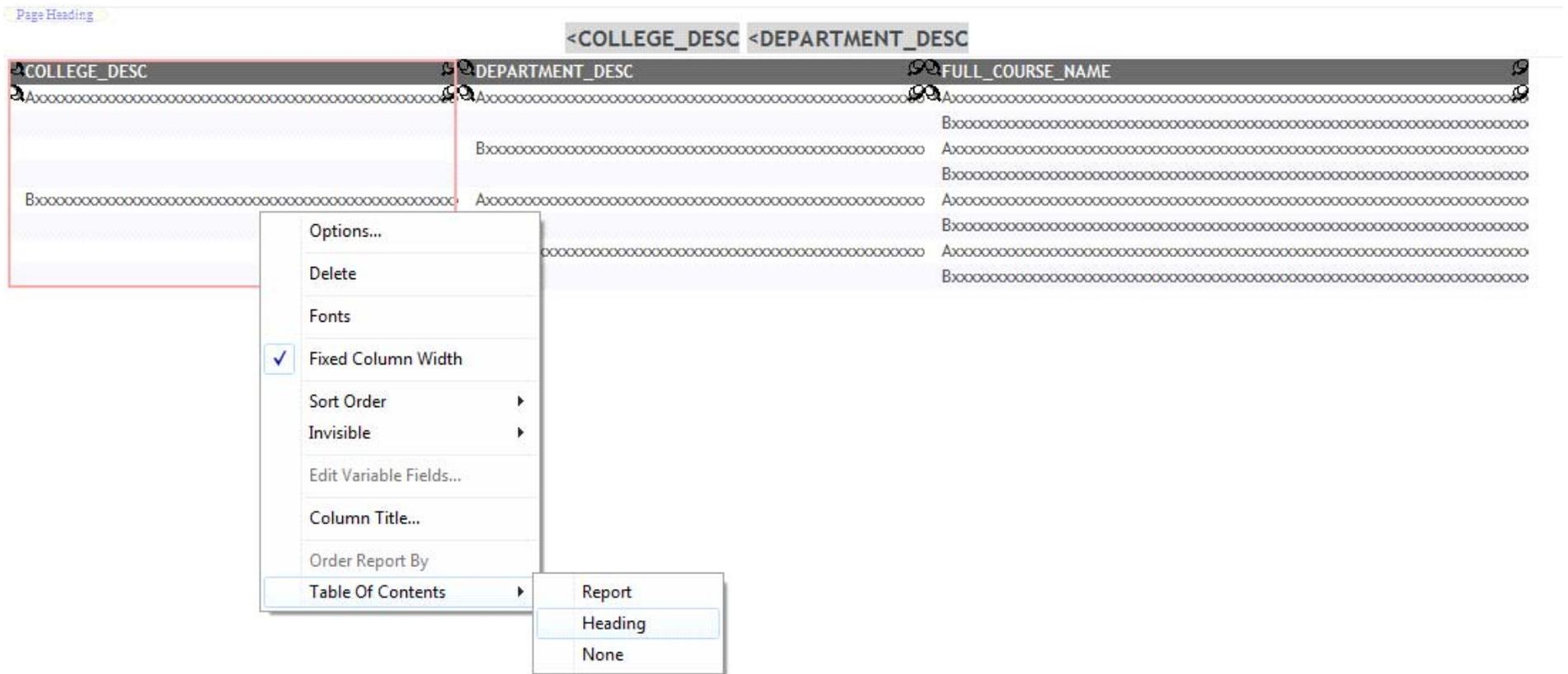
1. Create a new report using ASU\_STUDENT\_COURSE\_CURERNT named yourname113.
2. Add COLLEGE\_DESC, DEPARTMENT\_DESC to the report as BY fields
3. Add FULL\_COURSE\_NAME as a DETAIL field.

The screenshot displays a report designer application window. The menu bar includes File, Edit, Insert, Properties, Report, View, Command, Window, and Help. The toolbar contains various icons for report design, including a 'PRINT' button. Below the toolbar, there are sections for 'Report Heading', 'Page Heading', 'Page Footing', 'Report Footing', 'SubHeading', 'SubTotal', 'Totals', and 'SubFooting'. The main workspace shows a report layout with three columns: COLLEGE\_DESC, DEPARTMENT\_DESC, and FULL\_COURSE\_NAME. The COLLEGE\_DESC column contains two rows of data, each starting with 'A' followed by a long string of 'x' characters. The DEPARTMENT\_DESC column contains two rows of data, each starting with 'B' followed by a long string of 'x' characters. The FULL\_COURSE\_NAME column contains two rows of data, each starting with 'A' followed by a long string of 'x' characters. The FULL\_COURSE\_NAME column is highlighted with a red border. On the left side, there is an 'Object Inspector' panel with a list of fields: HOURS\_ATTENDED, FINAL\_GRADE, GRADE\_VALUE, GRADE\_CHANGE\_REA, GRADE\_CHANGE\_REA, MID\_TERM\_GRADE, INCOMPLETE\_EXT\_D, FINAL\_GRADE\_DATE, FINAL\_GRADE\_ROLL, and GRADE\_TYPE.

1. Click Where/If button on the columns toolbar.
2. Select ACADEMIC\_PERIOD for the column to filter.
3. Select equals for the Logical Relation.
4. Select Value for the Compare Type
5. Add 200940 for the Compare Value.
6. Click OK, Click Apply, Click OK.



1. Right Click on COLLEGE\_DESC and select Table of Contents then Heading.
2. Right click on DEPARTMENT\_DESC and select Table of Contents then Heading.
3. Notice a Page Heading is added to your report with COLLEGE\_DESC and DEPARTMENT\_DESC fields in it.



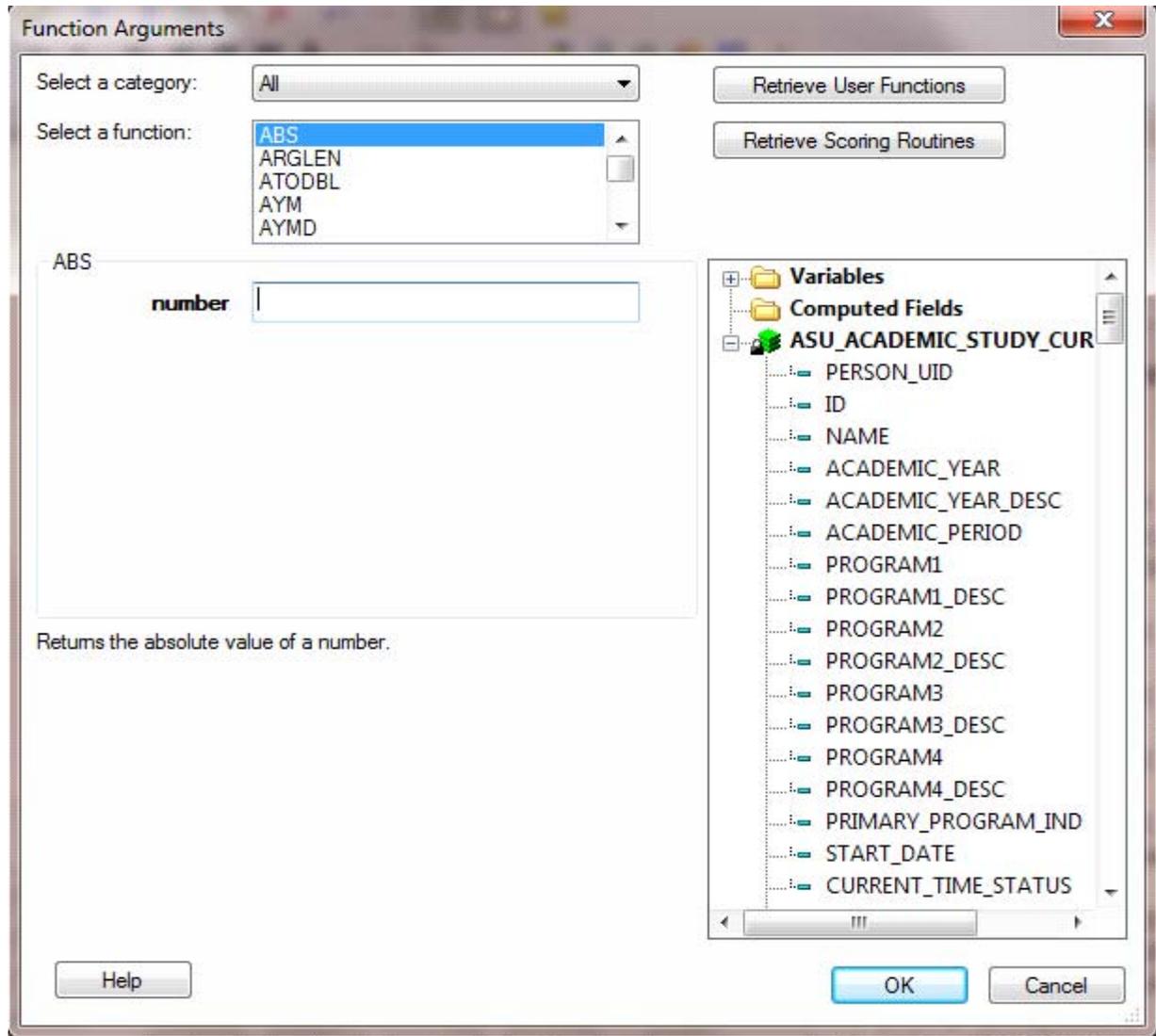
1. Run the report.
2. Notice in the Heading you will have Drop Down List for College and Department.
3. It will be blank first,. Select a College. Notice how the report changes.
4. Select a Department. Notice the report will move down to the Department listing.
5. Close the output. Close and Save your report.

College of Business	Accounting	
COLLEGE_DESC	DEPARTMENT_DESC	FULL_COURSE_NAME
College of Business	Accounting	ACC 3580
		ACC 5580
		ACC 1050
		ACC 4560
		ACC 4580
		ACC 4580
		ACC 4560
		ACC 2100
		ACC 3580
		ACC 1050
		ACC 5390
		ACC 2100

## Exercise 12.1

### Review FUNCTIONS

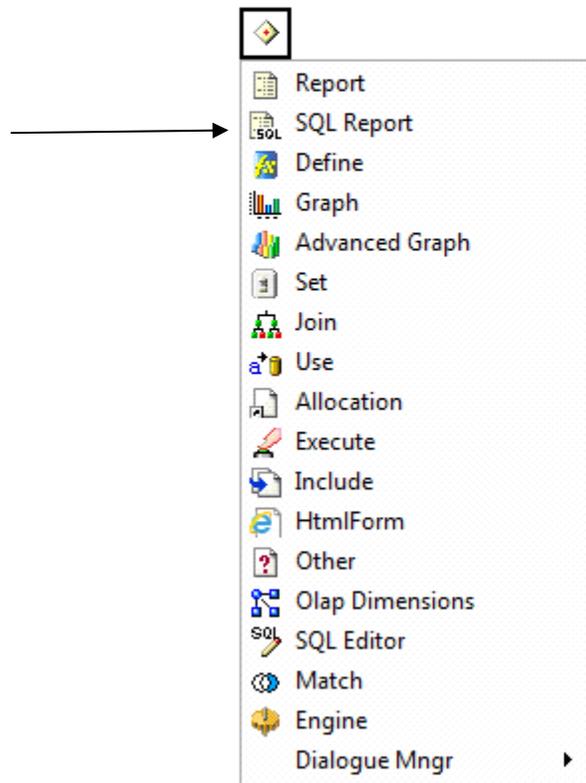
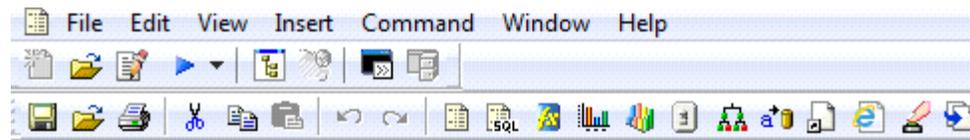
1. Open any report you want or a new report and click on the Define button so you can get to Functions.
2. Explore the functions. Any function you would like to see demonstrated?



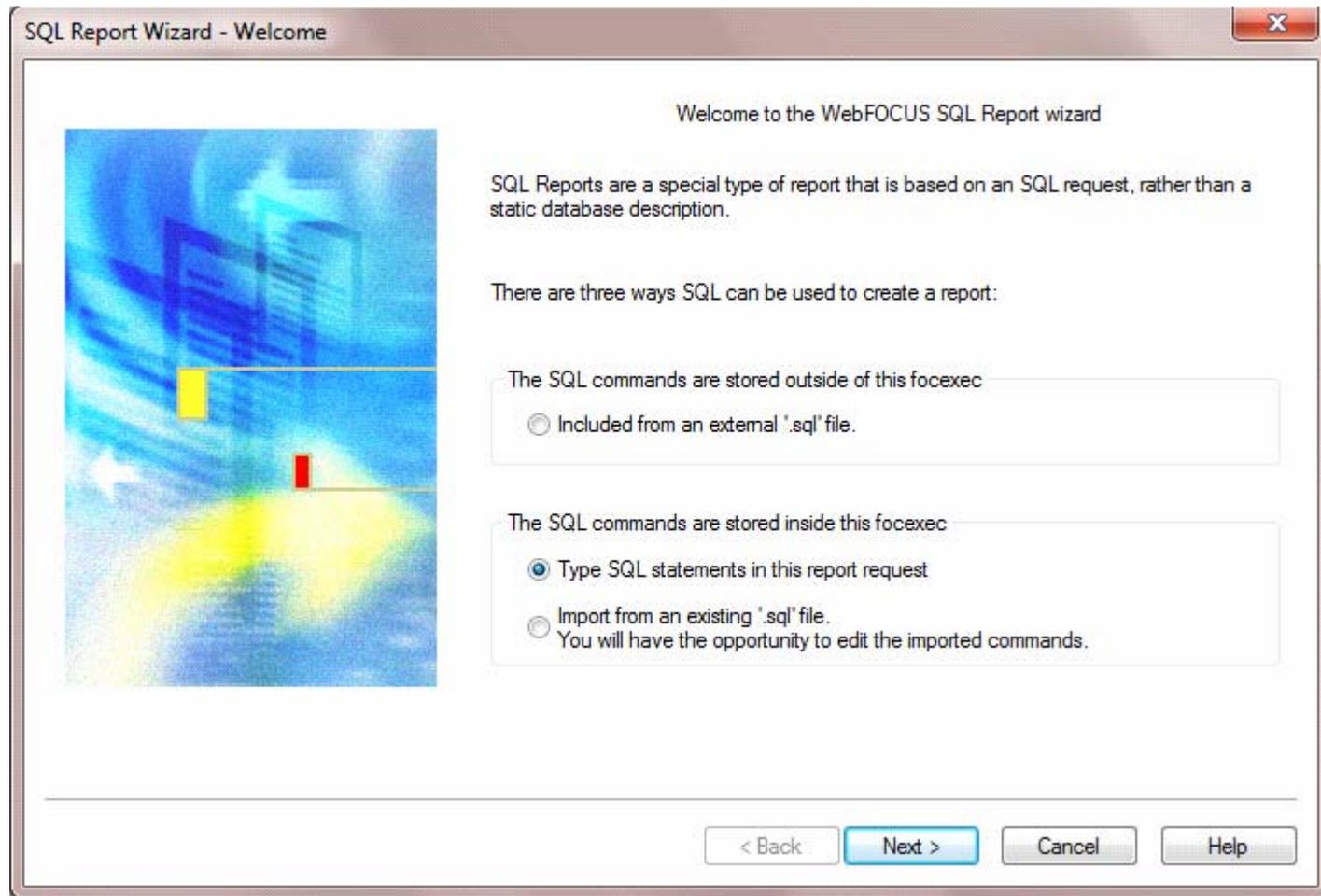
## Exercise 12.2

### SQL Report Wizard

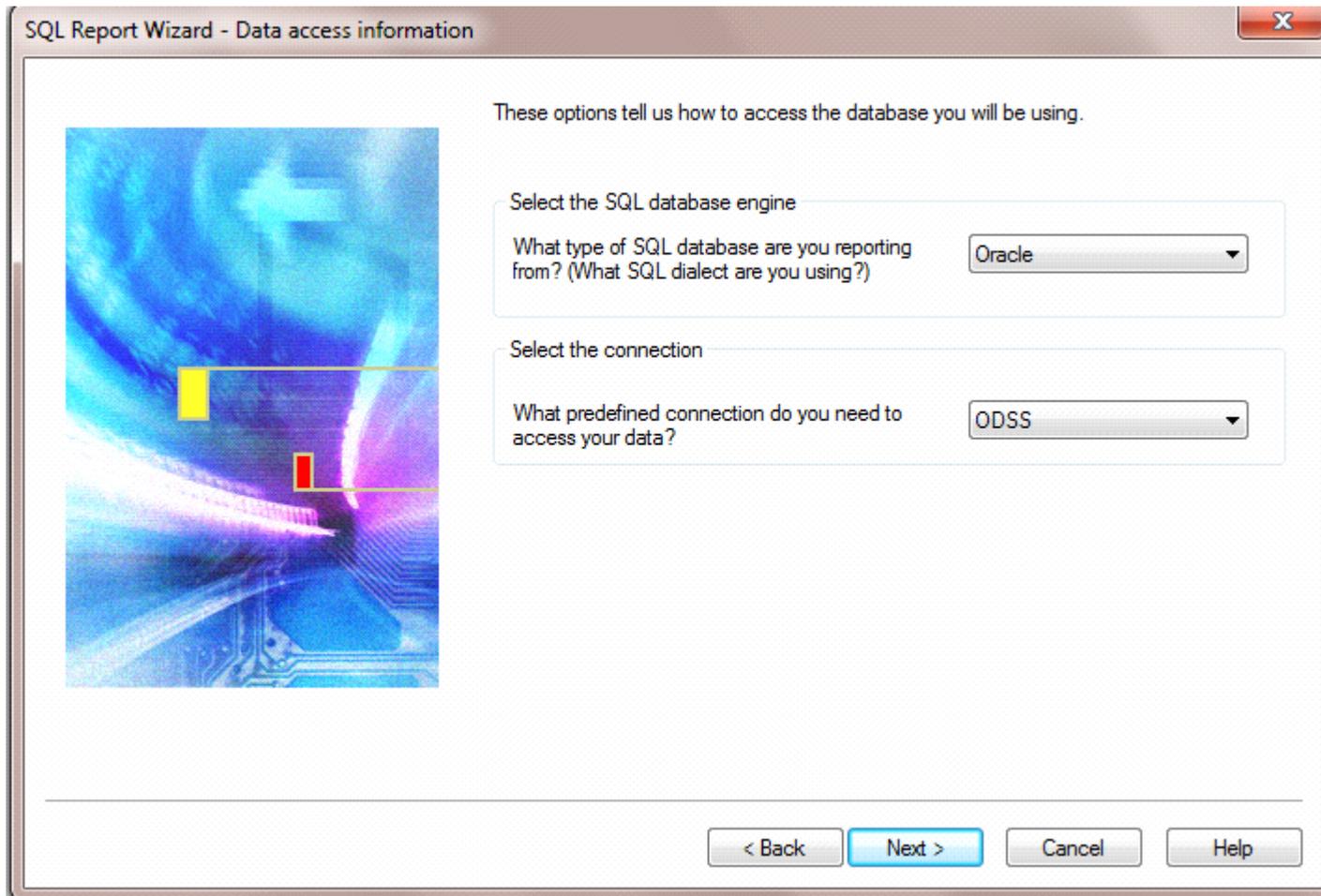
1. Create a new report calling yourname122.
2. In the procedure viewer click on the diamond and Select SQL Report



1. You are presented with the SQL Report Wizard Welcome screen.
2. Read the Screen to learn more about this wizard.
3. Select Type SQL statements in this report request.
4. Click Next.



1. Next you are presented with the Data access information screen.
2. Select Oracle from the drop down list for the type of SQL database you are reporting from.
3. Select ODSS from the drop down list for the predefined connection you need to access.
4. Click Next.

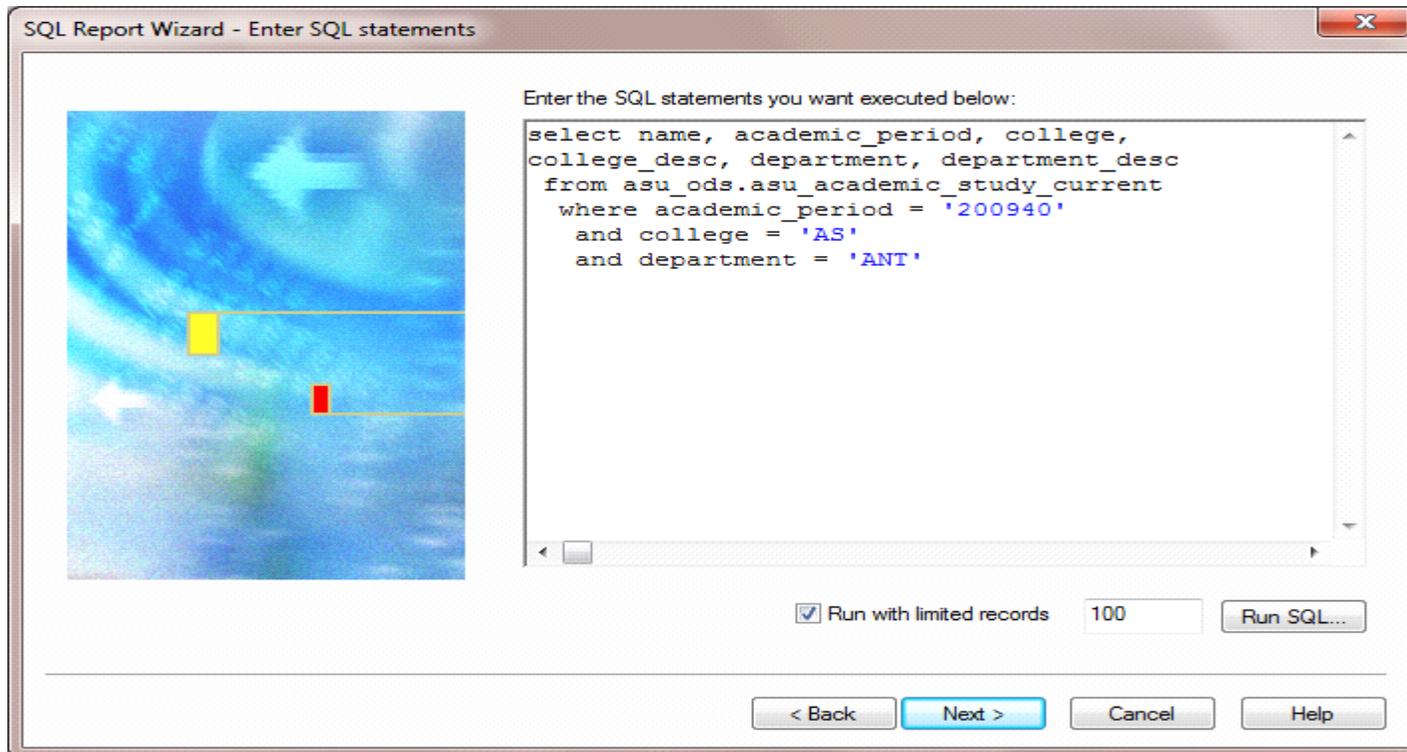


1. Next you are presented with the Enter SQL statements window. Type in the following statement.

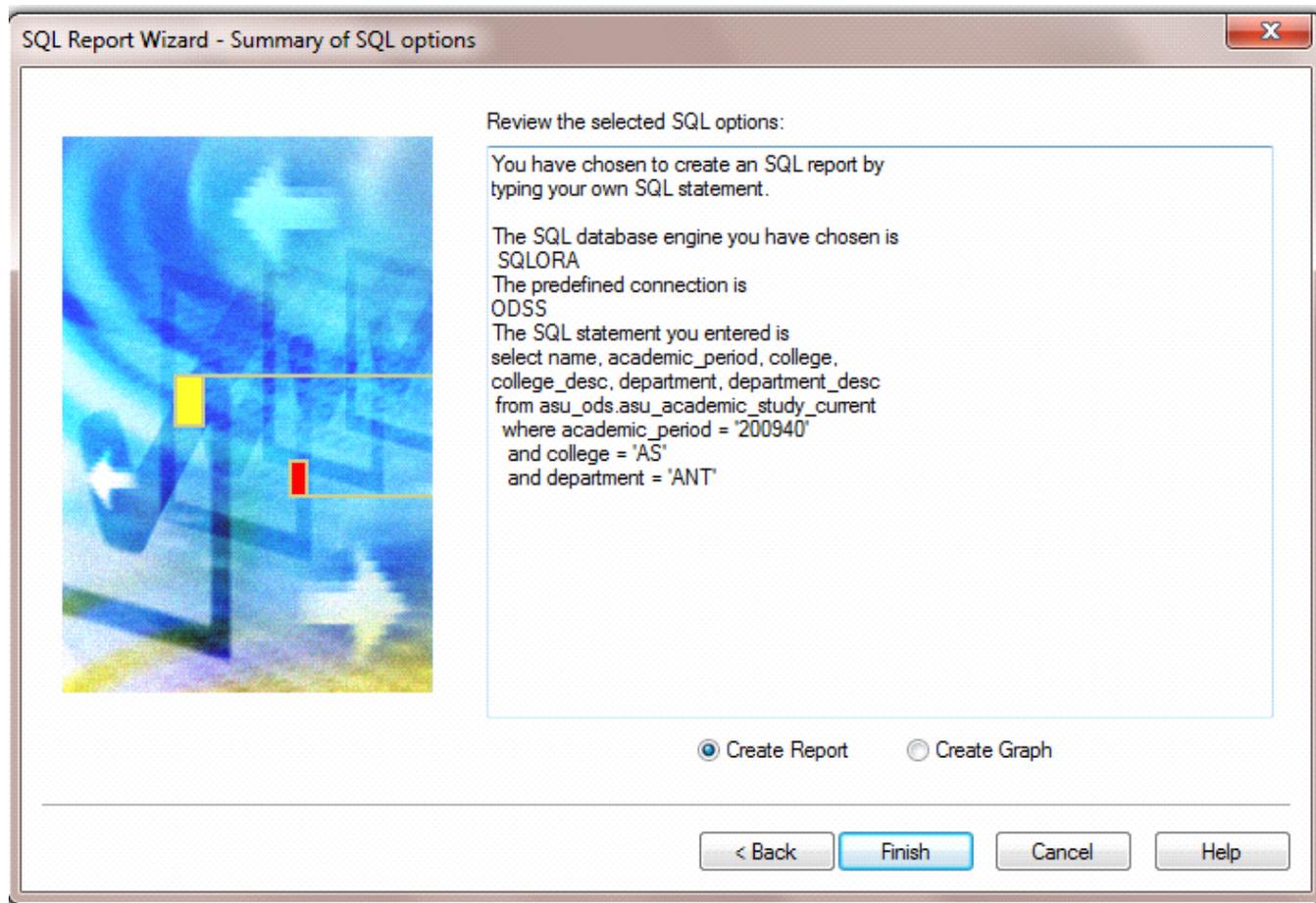
```
select name, academic_period, college, college_desc,  
department, department_desc  
from asu_ods.asu_academic_study_current  
where academic_period = '200940'  
and college = 'AS'  
and department = 'ANT'
```

2. Click Run SQL to check your syntax.

3. Click Next.



1. Review the SQL Summary then click Create Report
2. Click Finish.
3. The report painter is opened.
4. Notice that the only fields available are the ones you selected.
5. Also this is a data set so it only includes what specified in your where statement.



1. Add academic\_period and Name as BY fields to the report.
2. Add the other fields as detail.
3. Run the report.
4. Close the output and close and save your report.

The screenshot shows a report design tool interface. The top menu bar includes File, Edit, Insert, Properties, Report, View, Command, Window, and Help. Below the menu is a toolbar with various icons. The main workspace is divided into two panes. On the left is the 'Object Inspector' pane, which shows a tree view of the report's structure: Special Fields, Variables, Computed Fields, and SQLOUT. Under SQLOUT, the following fields are listed: NAME, ACADEMIC\_PERIOD, COLLEGE, COLLEGE\_DESC, DEPARTMENT, and DEPARTMENT\_DESC. On the right is the report preview pane, which displays a table with the following columns: ACADEMIC\_PERIOD, NAME, COLLEGE, COLLEGE\_DESC, DEPARTMENT, and DEPARTMENT\_DESC. The table contains 10 rows of data. A red box highlights the COLLEGE and COLLEGE\_DESC columns in the preview.

ACADEMIC_PERIOD	NAME	COLLEGE	COLLEGE_DESC	DEPARTMENT	DEPARTMENT_DESC
200940	Allison, Jessica T.	AS	College of Arts & Sciences	ANT	Anthropology
	Ashe, Leigh A.	AS	College of Arts & Sciences	ANT	Anthropology
	Auman, Abigail N.	AS	College of Arts & Sciences	ANT	Anthropology
	Austin, Amanda A.	AS	College of Arts & Sciences	ANT	Anthropology
	Baracca, Alexis K.	AS	College of Arts & Sciences	ANT	Anthropology
	Barbour, Terry E.	AS	College of Arts & Sciences	ANT	Anthropology
	Barefoot, Anna O.	AS	College of Arts & Sciences	ANT	Anthropology
	Barnes, Nathan L.	AS	College of Arts & Sciences	ANT	Anthropology
	Becker-Seidman, Sarah E.	AS	College of Arts & Sciences	ANT	Anthropology