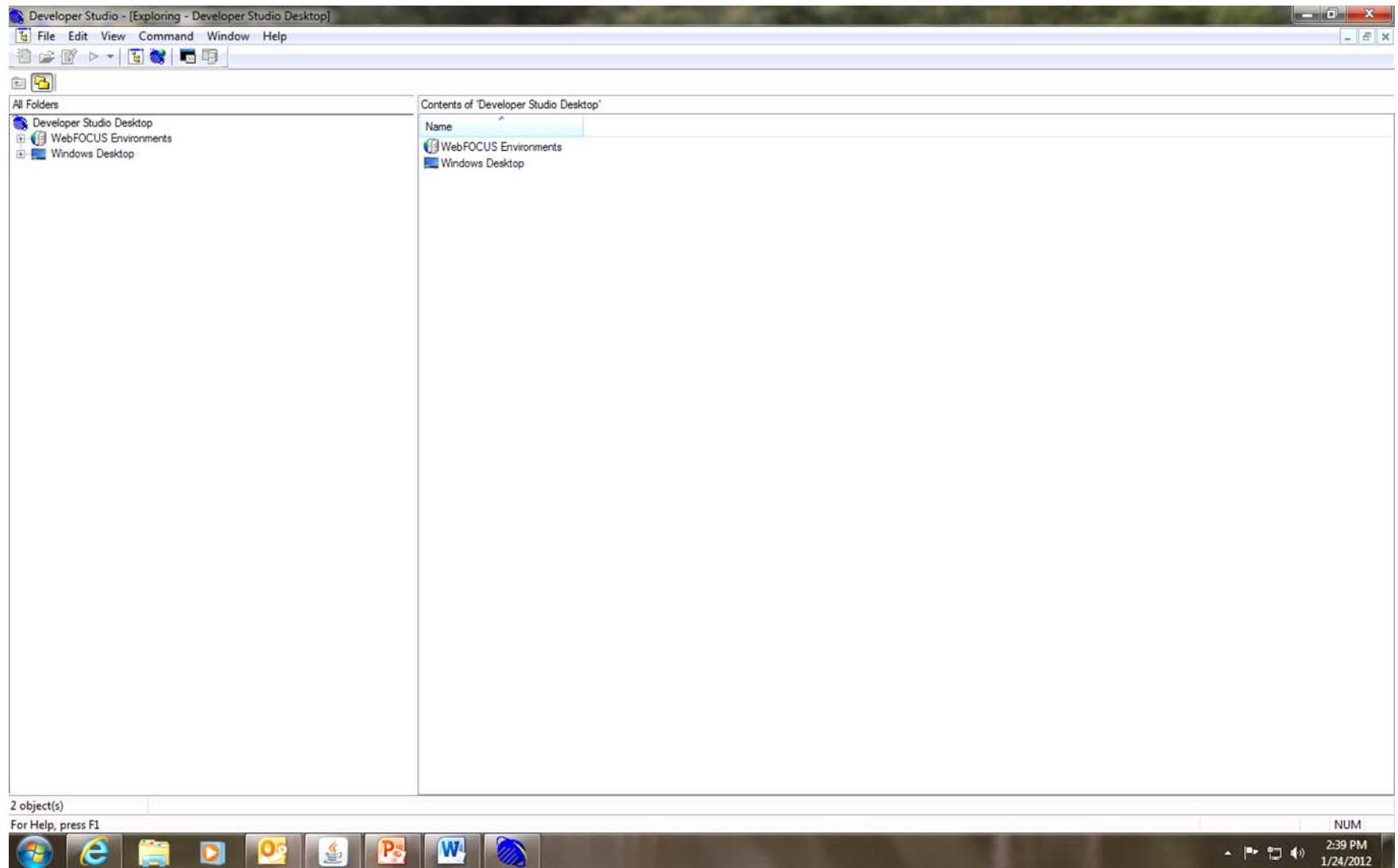


# **BEGINNING WEBFOCUS REPORT WRITING**

## **EXERCISE MANUAL**

## Exercise 1: Launch Developer Studio and Configure

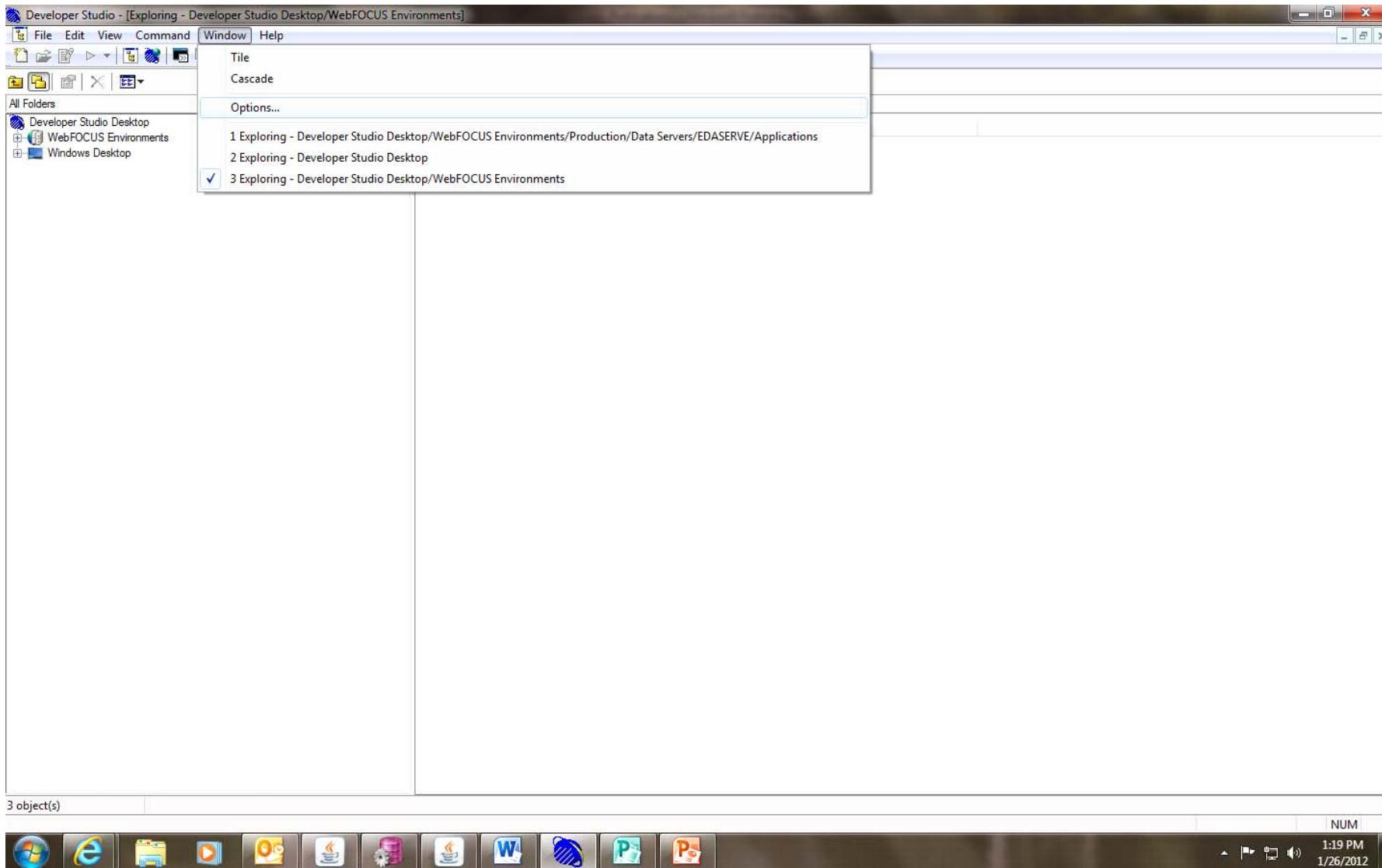
1. Double click the Developer Studio Icon on your Desktop Or
2. Click the start button, select all programs, Information Builders, Webfocus 77 Developer Studio, WebFOCUS Developer Studio.



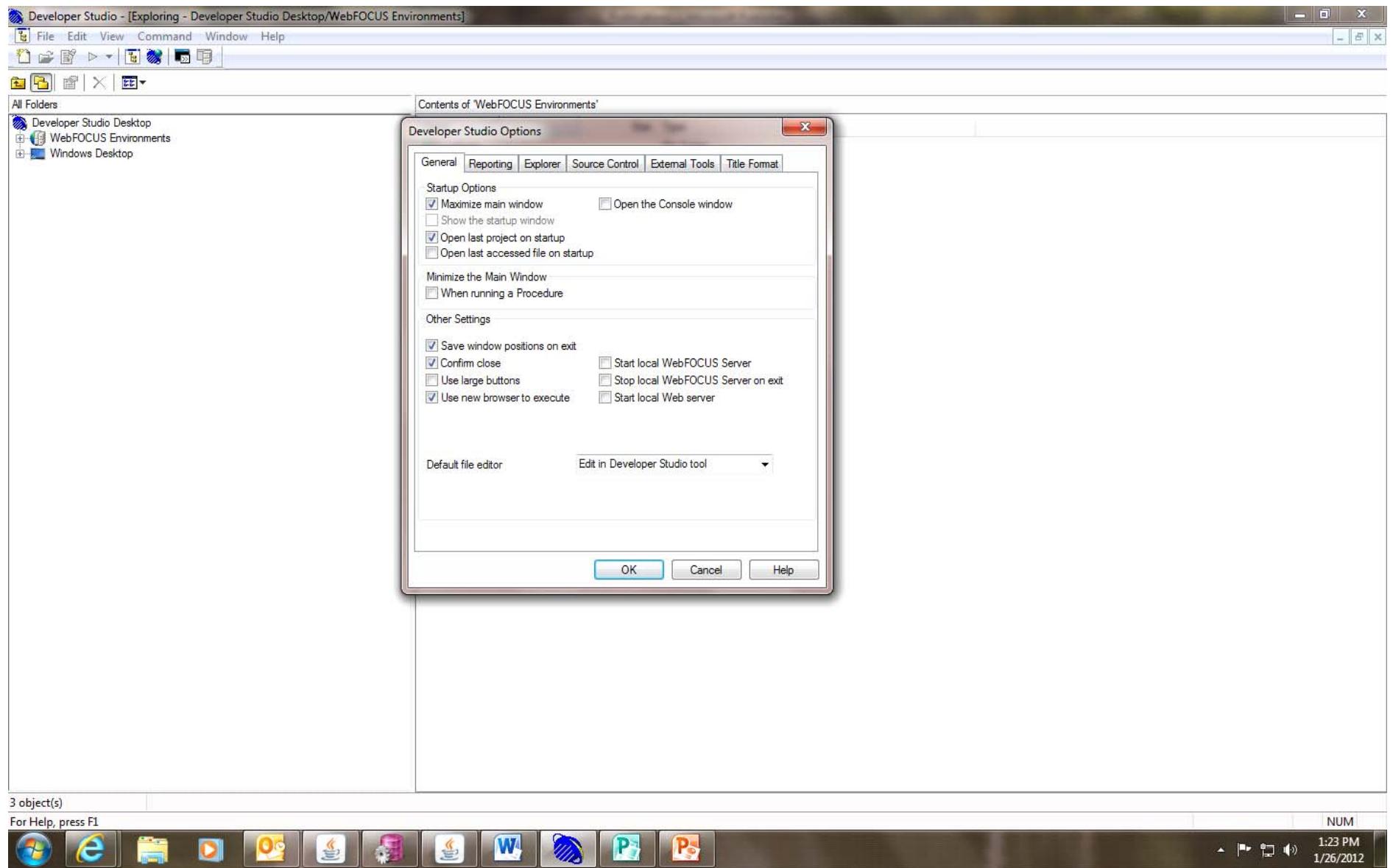
To Add the windows Desktop to your Environments and change windows options

1.Select Window from the Menu bar

2.Select Options

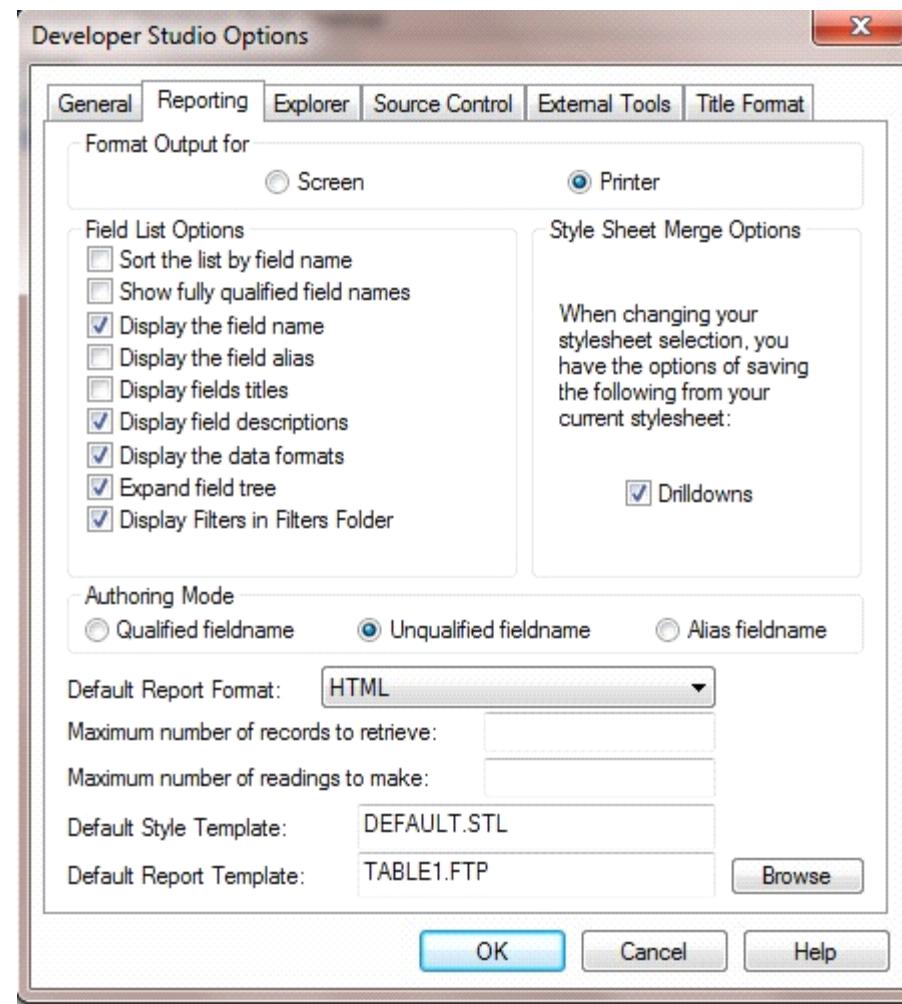


Under the general tab, click Confirm Close, Click Use new browser to execute.  
Click the Reporting tab.



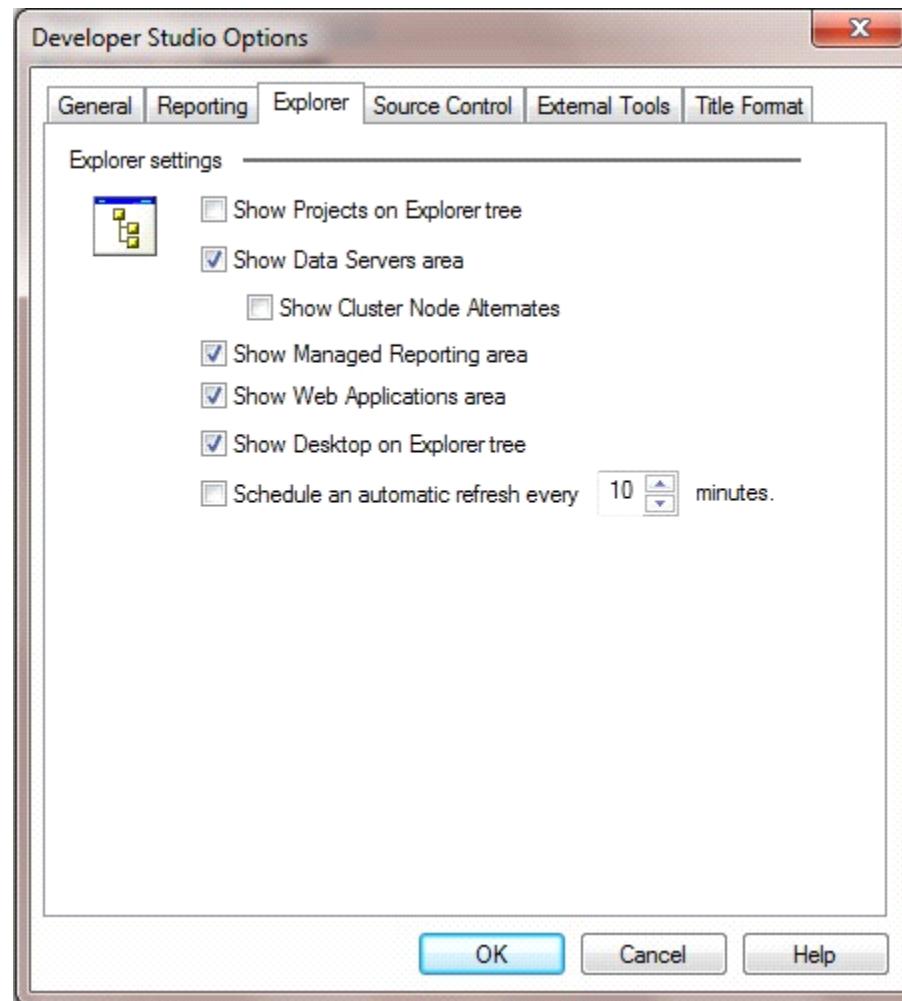
## Under the Reporting Tab

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.

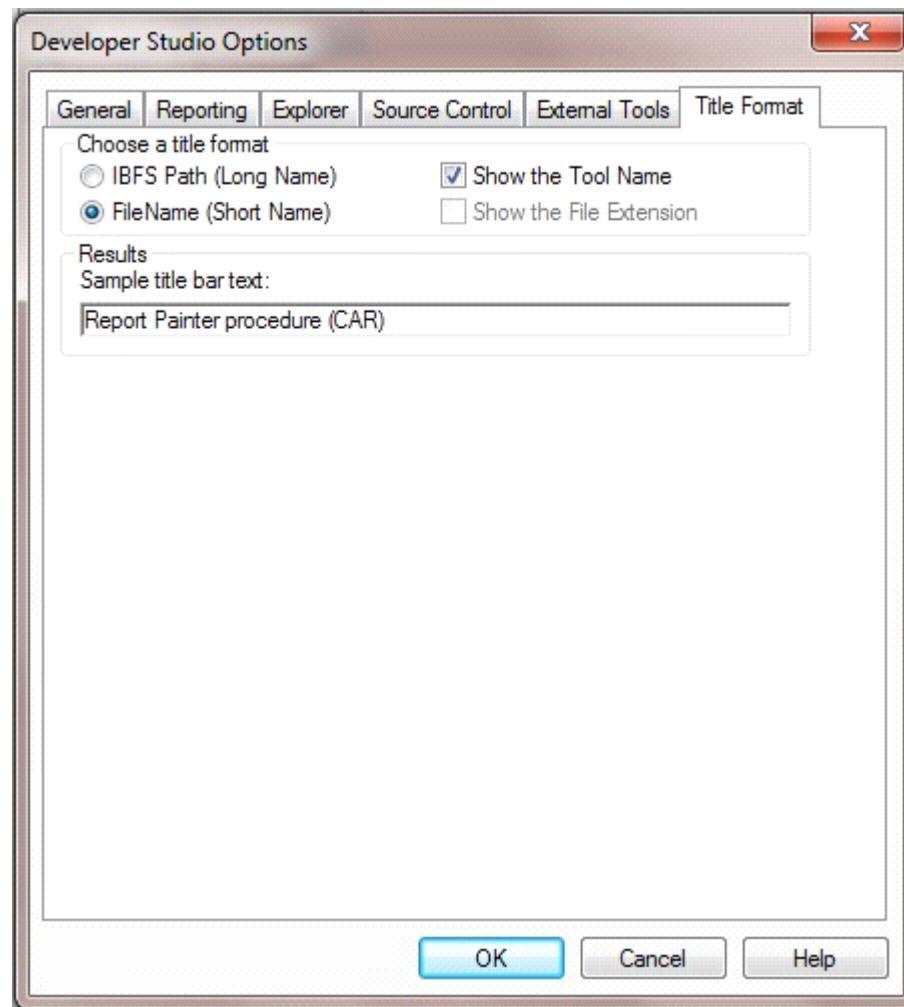


Under the explorer tab

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



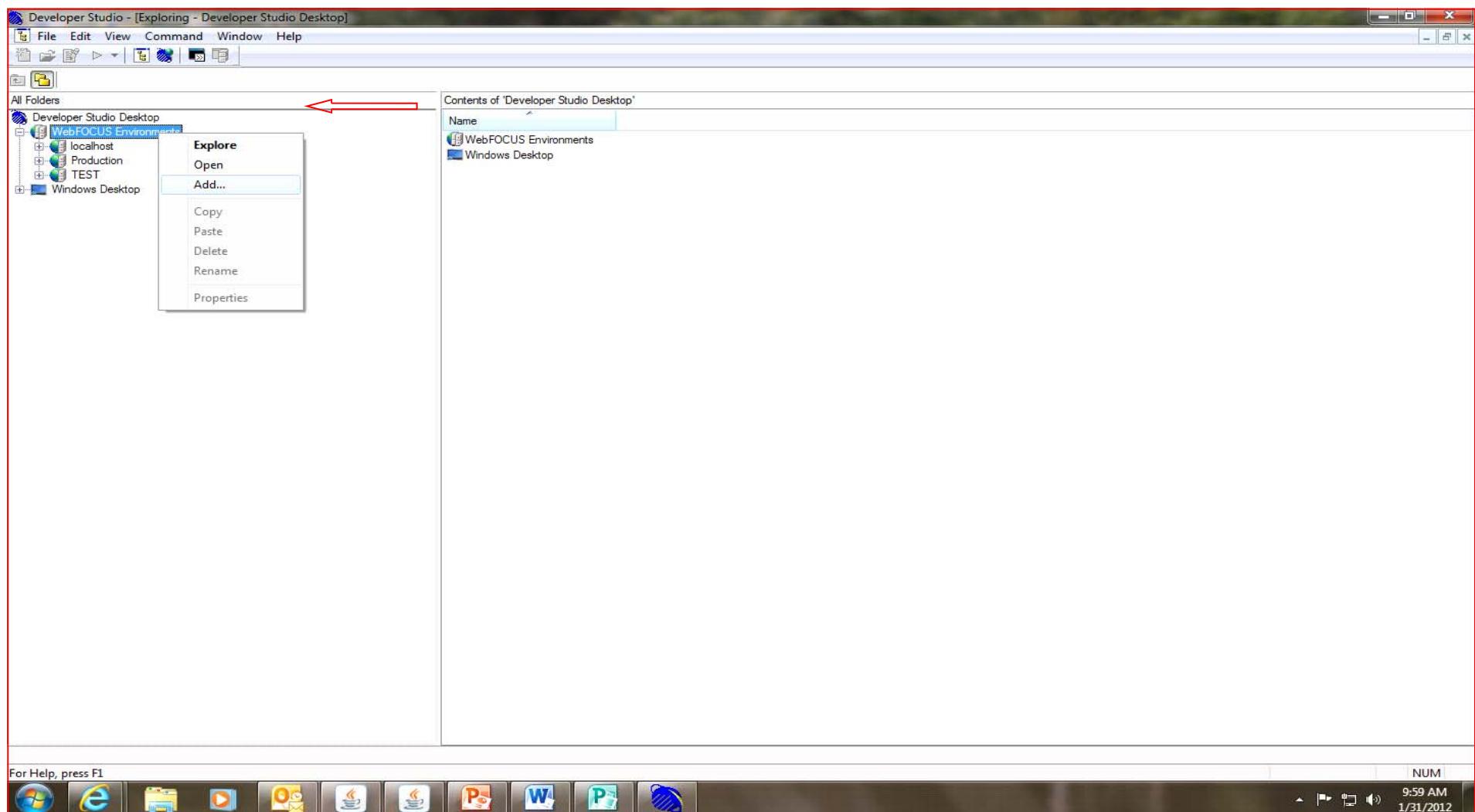
1. Click the Source Control tab. - Source Control Tab allows support for Third Party version control management.
2. Click the external Tools Tab – registered external tools can be managed from this tab.
3. The Title Format tab allows you to customize the information display in Developer Studio Title 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.

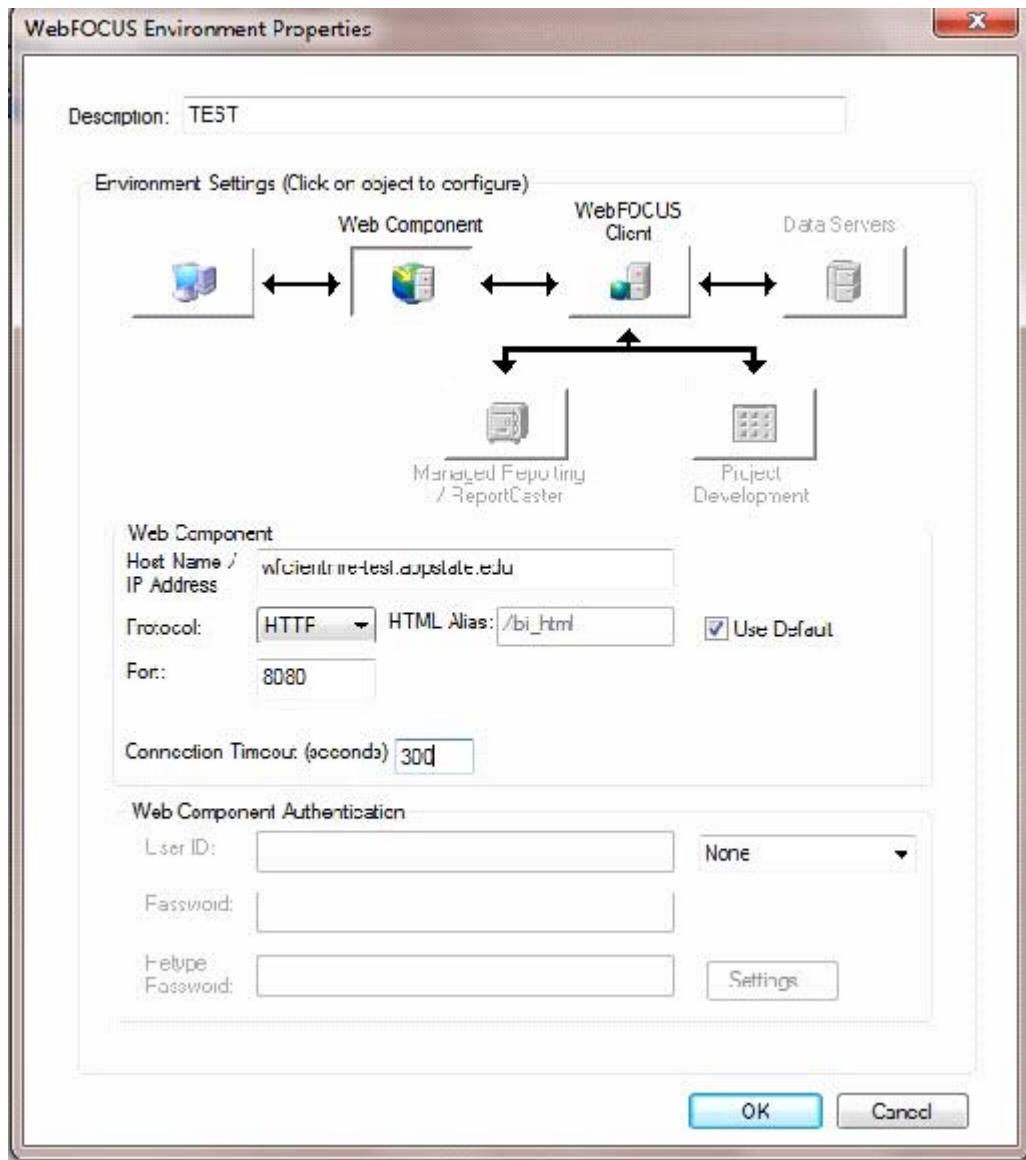


## Exercise 2 :

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.

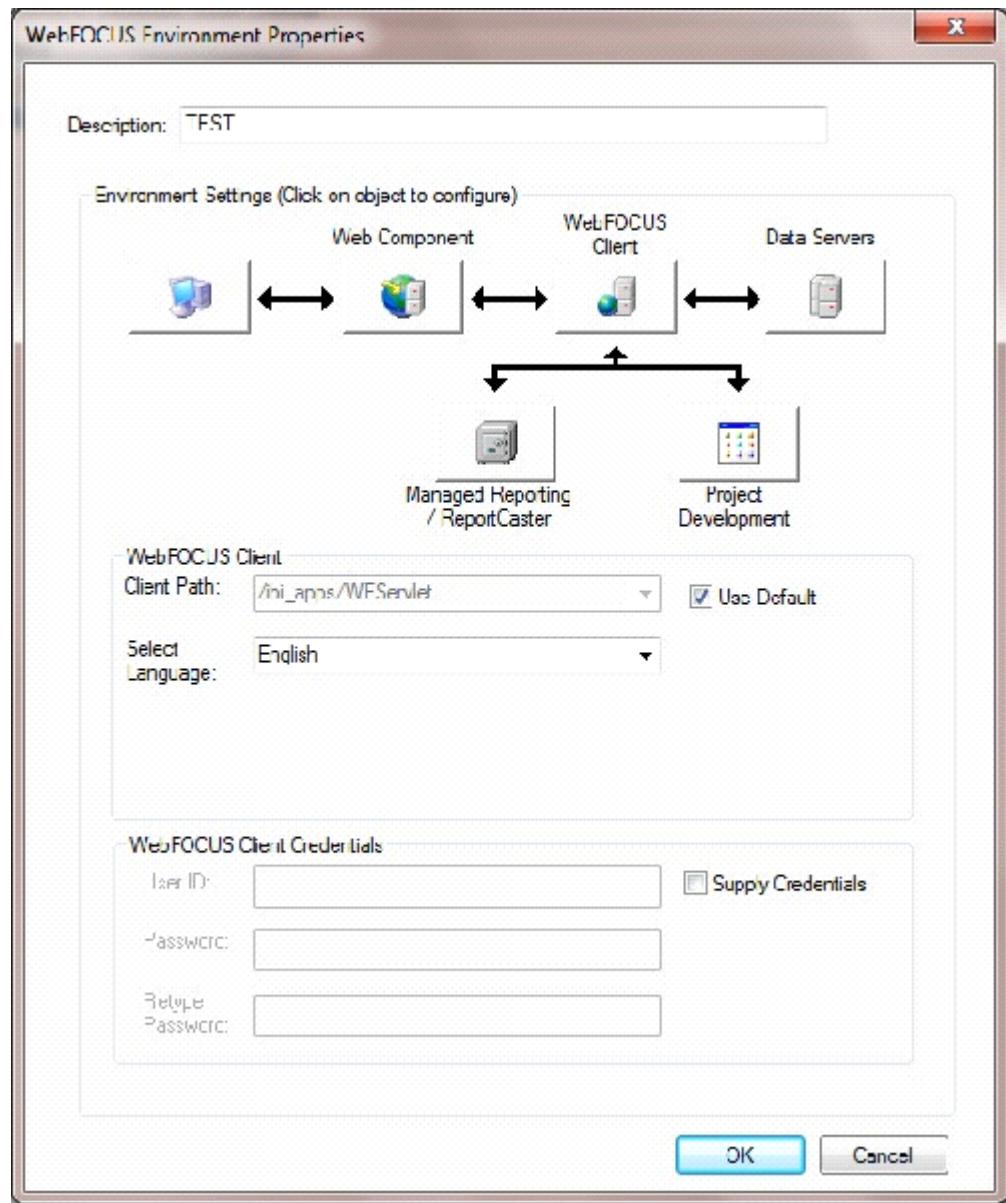




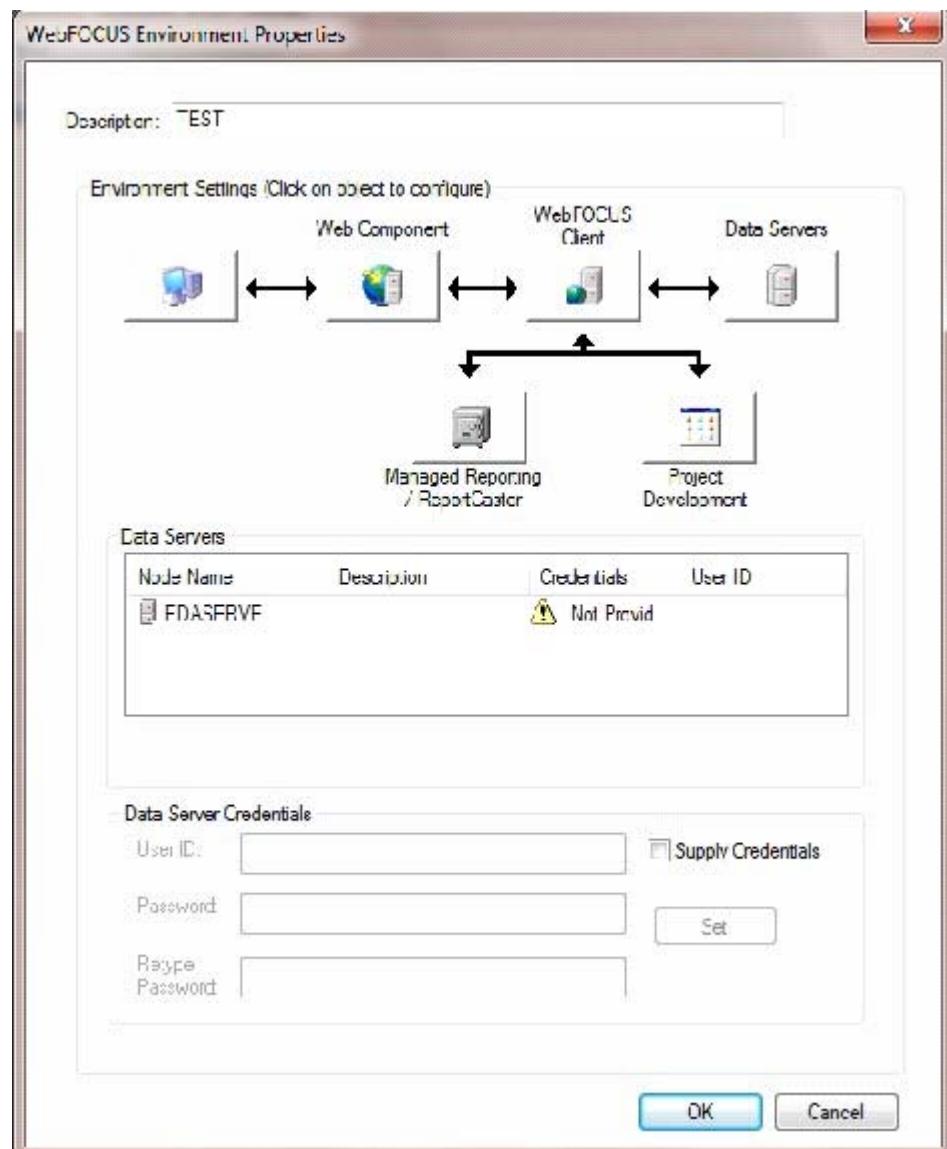
1. Enter the following Description for the new environment - TEST1
2. In the Host Name/ IP address box enter the following - wfclientmre-test.appstate.edu
3. Leave the protocol HTTP,
4. Leave the Port 8080
5. Change the Connection Timeout (seconds) 300

#### 6 Under Web Component Authentication

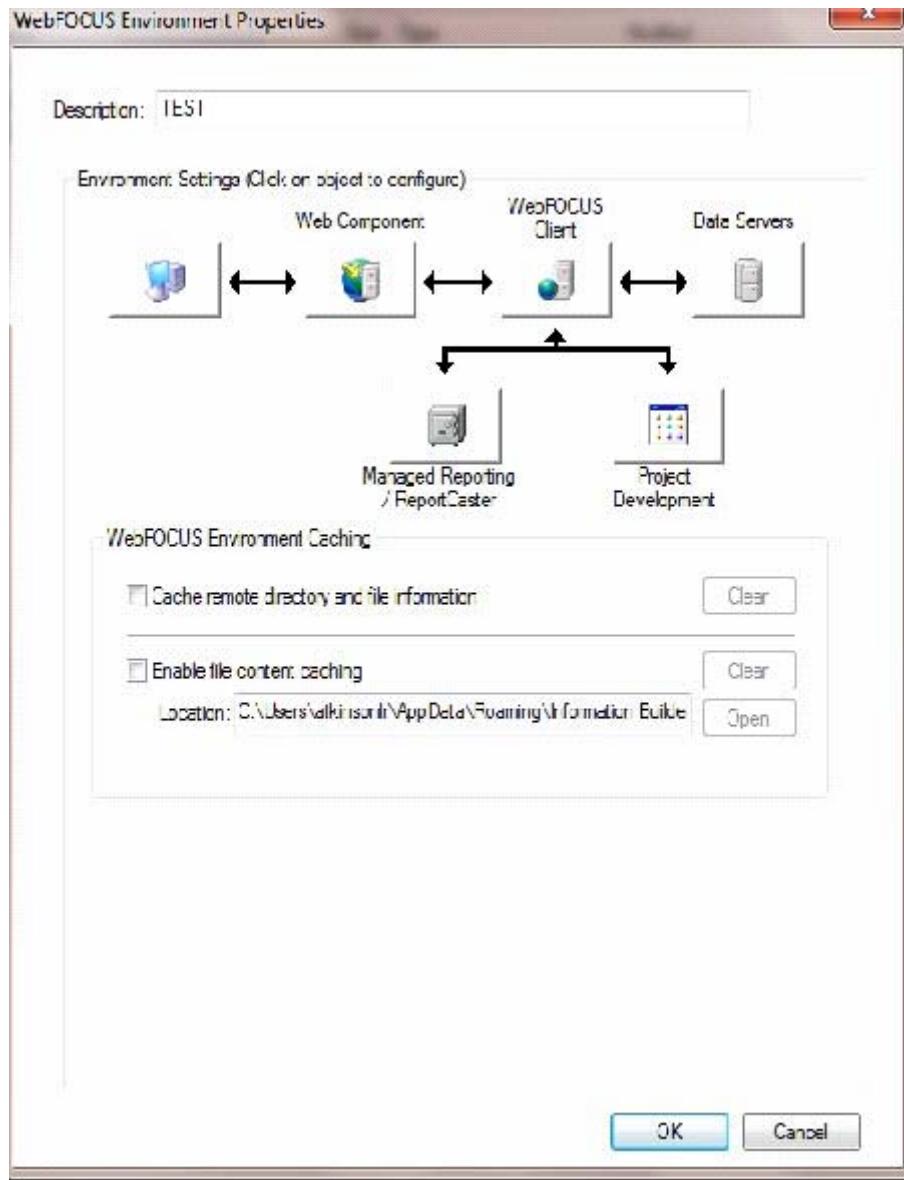
- A. Select BASIC
- B. Enter your username and password



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.

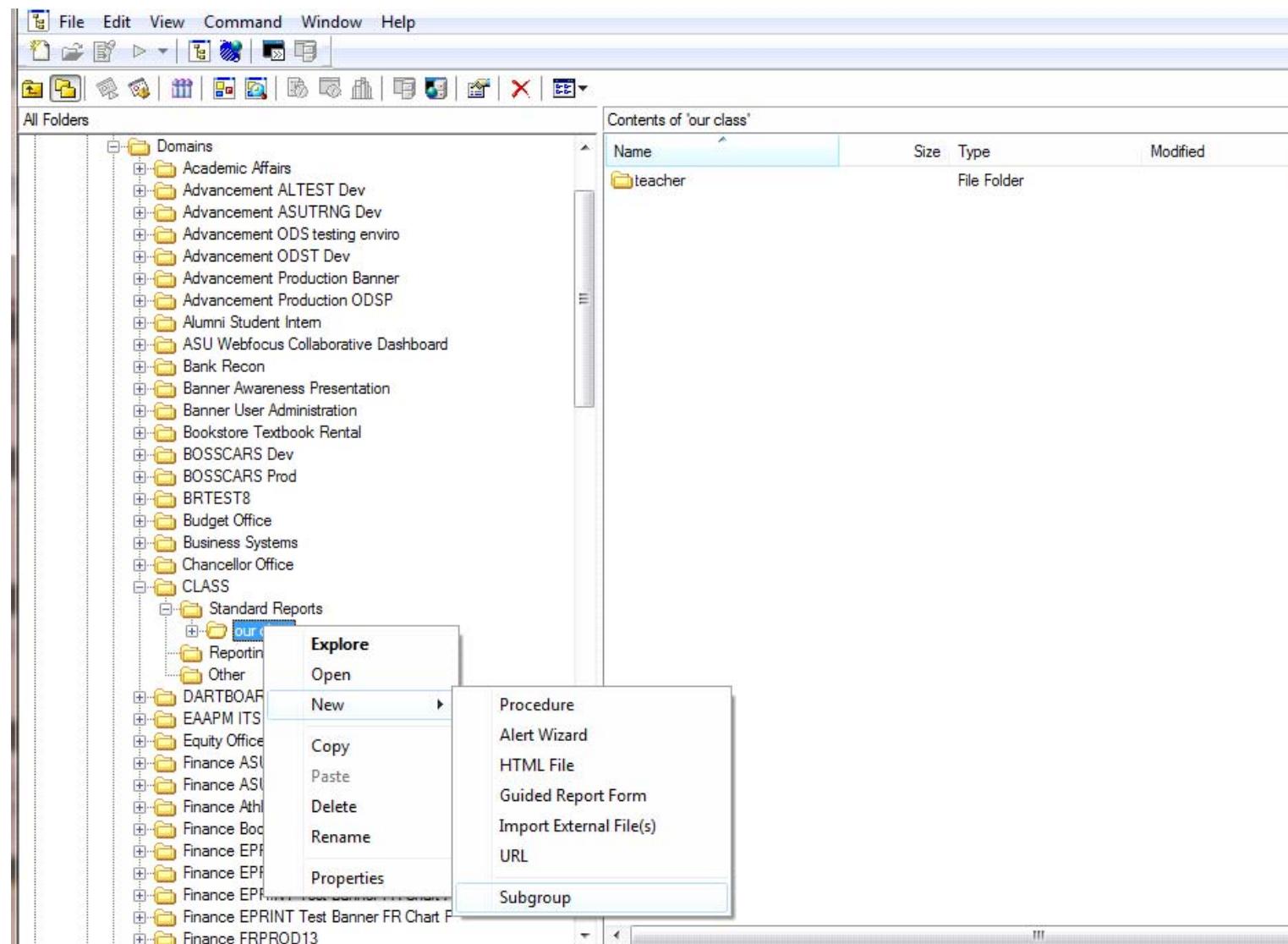
- A. Unchecked—developer studio will access and query the reporting server for each request for files stored on the server
- B. Checked—developer studio will access and query the reporting server once and retrieve and store the files locally in the directory identified in the location box.

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

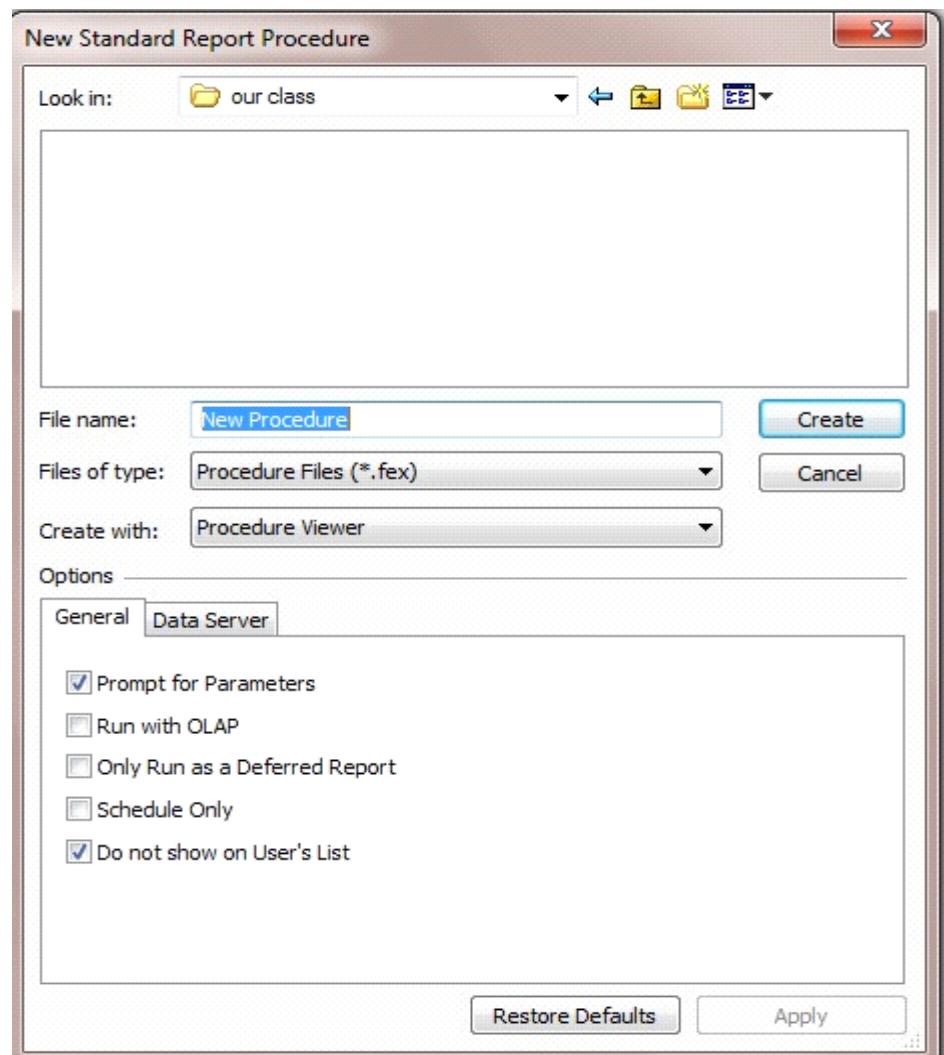
Click OK to return to the Webfocus Environments Properties Window.

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

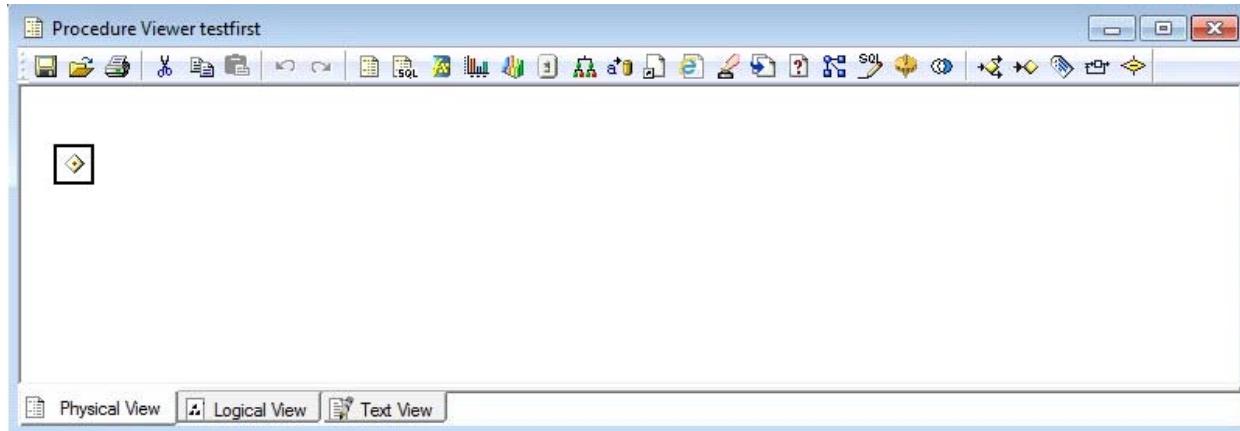
1. Open Developer Studio
2. Expand the TEST webfocus Environment, navigate to CLASS DOMAIN, expand standard reports folder, select our class folder.
3. Right click on our class folder and select New -> Subgroup -> type your name in place of new folder. (linda)



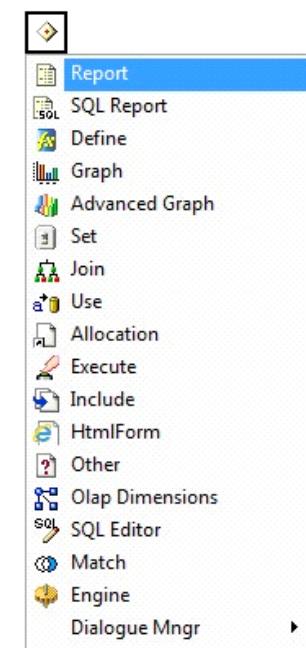
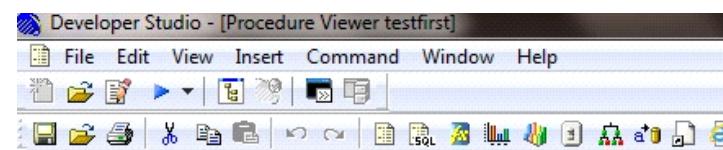
4. Right Click on your name folder and Select New -> Procedure
5. Replace the default name with yourfirstname 3 (testf3)
6. Verify that procedure Viewer is the selected in the create with box.
7. Click Create.



The procedure Viewer window opens:

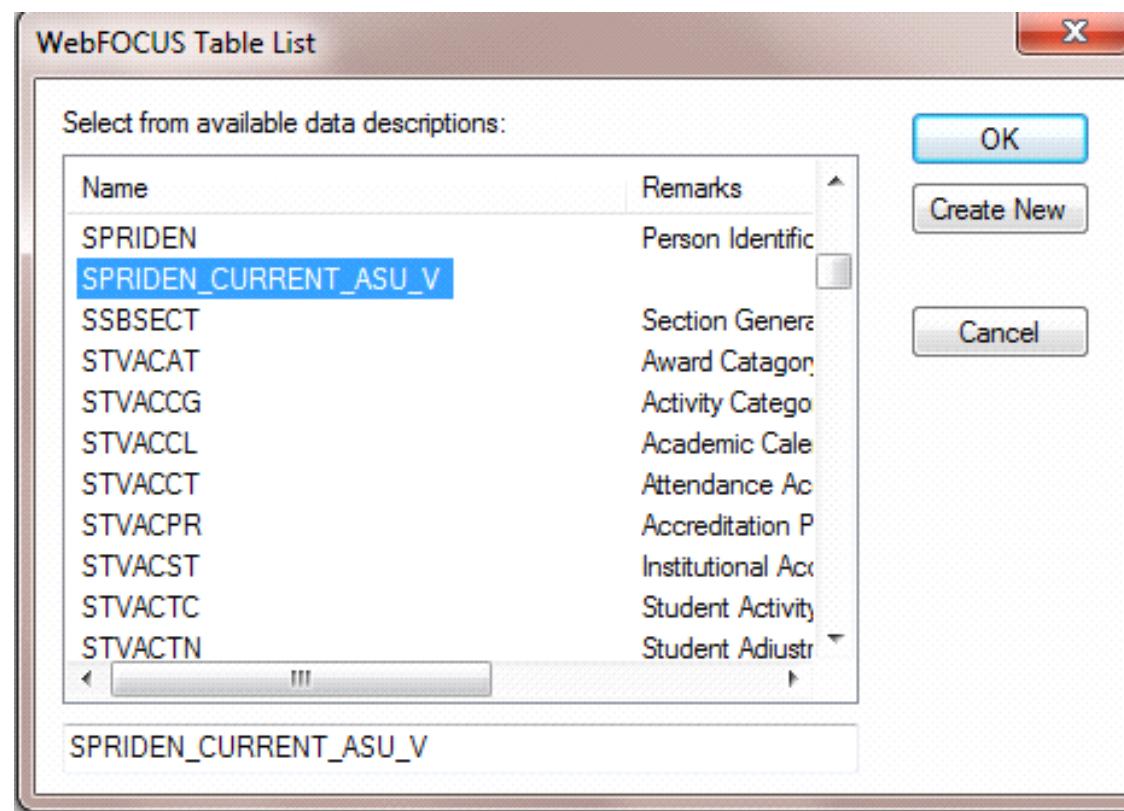


7. Click the component connector
8. Select the Report component



The WebFOCUS Table list Window opens

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



1. Select SPRIDEN\_PIDM, SPRIDEN\_ID, SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, SPRIDEN\_CHANGE\_IND
2. Drag and drop the fields in the Report Painter Window or you can select each field and double click to place it in the Report Painter Window or you can select a field and enter to place it in the Report Painter Window.
3. Click the Where/If button in the columns toolbar. This will bring up the report options window.

Developer Studio - [Report Painter lindafirst (SPRIDEN\_CURRENT\_ASU\_V)]

File Edit Insert Properties Report View Command Window Help

Detail Sum By Across For Where/If Forecast One variable for each selected column

Report Heading Page Heading Page Footing Report Footing SubHeading SubTotal SubFootings Totals SubFootings

PRINT HTML Options

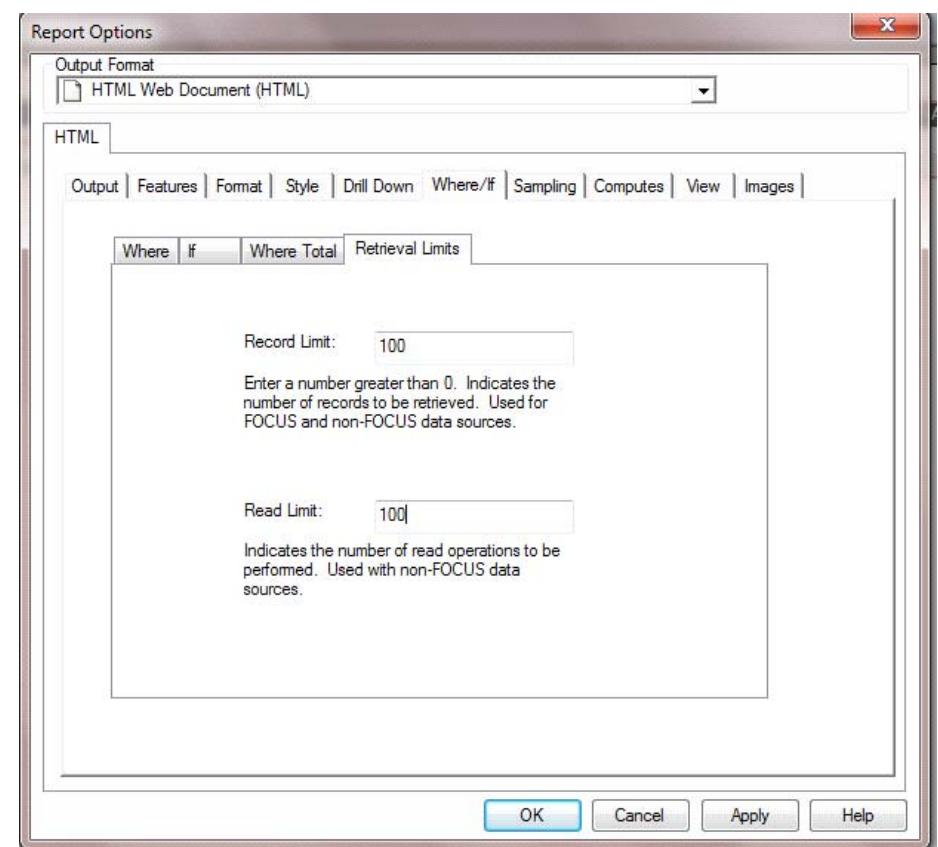
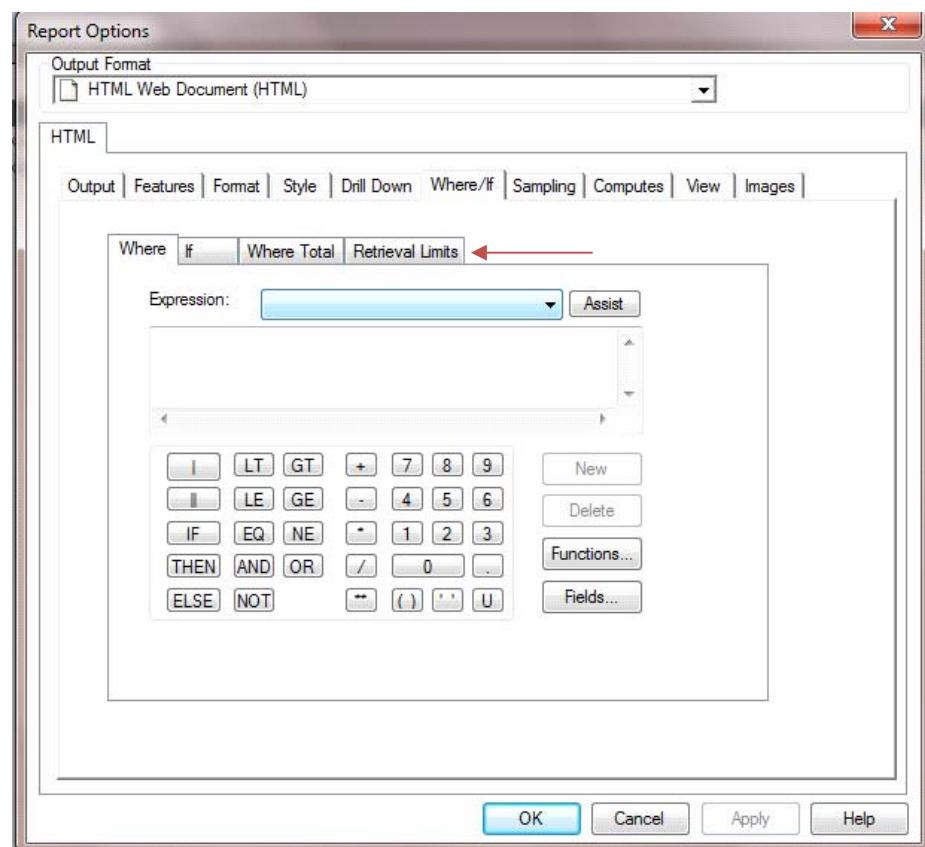
Font Size: 9 A A B I U F

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\_SOUNDDEX\_LAST\_NAM
  - SPRIDEN\_SOUNDDEX\_FIRST\_NAM
  - SPRIDEN\_NTYP\_CODE
  - SPRIDEN\_CREATE\_USER
  - SPRIDEN\_CREATE\_DATE
  - SPRIDEN\_DATA\_ORIGIN
  - SPRIDEN\_CREATE\_FDMN\_CODE

SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI
0	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx
0	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx

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 screenshot shows two windows side-by-side. The top window is 'Developer Studio - [Report Painter lindafirst (SPRIDEN\_CURRENT\_ASU\_V)]' with a menu bar (File, Edit, Insert, Properties, Report, View, Command, Window, Help) and various toolbar buttons. An 'Object Inspector' panel on the left lists fields under 'SPRIDEN\_CURRENT\_ASU\_V': SPRIDEN\_PIDM, SPRIDEN\_ID, SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, and SPRIDEN\_CHANGE\_IND. The main area displays a table with two rows:

SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI
0	Axxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx
0	Bxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx

The bottom window is a 'WebFOCUS Report' browser window with the URL 'http://wfclientmre-test.appstate.edu:8080/ibi'. It has a menu bar (File, Edit, View, Favorites, Tools, Help) and toolbar buttons. The table from the developer studio is displayed here, showing 14 rows of data:

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.

The screenshot illustrates the process of sorting a report. In the top window, 'Developer Studio - [Report Painter lindafirst (SPRIDEN\_CURRENT\_ASU\_V)]', the 'Object Inspector' on the left shows the report structure. A red arrow points to the 'BY' button on the toolbar above the report preview. The report preview shows a table with columns: SPRIDEN\_LAST\_NAME, SPRIDEN\_PIDM, SPRIDEN\_ID, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI. The first two rows of data are highlighted with a red box. In the bottom window, 'WebFOCUS Report', the report is run and displayed. The data is sorted by SPRIDEN\_LAST\_NAME, showing records for 'xpedx a division of International Paper Co Inc', 'von Rosenberg', 'von Brook', 'von Briesen', 'vanMeenen', 'van der Plas', 'van der Hoek', 'van der Bogert', and 'van de Gevel'. The 'Select' button in the WebFOCUS interface is highlighted with a red box.

SPRIDEN_LAST_NAME	SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_FIRST_NAME	SPRIDEN_MI	SPRIDEN_CHANGE_IND
xpedx a division of International Paper Co Inc	524752	900468647	-	-	-
von Rosenberg	470154	900414116	Olivia	Caroline	-
von Brook	374482	900261483	Kristine	Ann	-
von Briesen	374481	900261482	Kimberly	Joy	-
vanMeenen	460226	900404268	Daniel	I.	-
van der Plas	462470	900406459	Karen	Marie	-
van der Hoek	404577	900341641	Julia	K. Woodcock	-
van der Bogert	374012	900260360	Betsy	Springer	-
van de Gevel	482171	900426098	Giles	Edward	-
	416724	900376886	Carolyn	Howes	-
	475075	900419034	Saskia	L.	-

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 screenshot shows two windows related to a WebFOCUS report.

**Developer Studio - [Report Painter lindafirst (SPRIDEN\_CURRENT\_ASU\_V)]**

This window displays the Report Painter interface. On the left, the Object Inspector shows a tree structure with nodes like Special Fields, Variables, and Computed Fields, with SPRIDEN\_CURRENT\_ASU\_V selected. In the center, a table structure is shown with columns: SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, SPRIDEN\_PIDM, SPRIDEN\_ID, and SPRIDEN\_CHANGE\_IND. The SPRIDEN\_FIRST\_NAME column is highlighted with a red border, indicating it is the current selection. The SPRIDEN\_MI column is also highlighted with a red border, indicating it is part of a multi-selection.

**WebFOCUS Report**

This window shows the generated report output. It has a browser-like header with a back button, forward button, address bar (http://wfclientmre-test.appstate.edu:8080/ibi), and a search icon. The main content area displays a table with the following 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	-

This was really not how we wanted our report to display. We wanted it to display spriden\_pidm, spriden\_id, spriden\_last\_name, spriden\_first\_name, spriden\_mi, spriden\_change\_ind.

How can we sort by spriden\_last\_name, spriden\_first\_name, and spriden\_mi and display this way.

Easy. We will make the sort fields invisible.

1. click on spriden\_last\_name, right click and select invisible -> on
2. Continue for spriden\_first\_name and spriden\_mi

The screenshot shows the Oracle Developer Studio Report Painter interface. The title bar reads "Developer Studio - [Report Painter lindafirst (SPRIDEN\_CURRENT\_ASU\_V)]". The menu bar includes File, Edit, Insert, Properties, Report, View, Command, Window, Help. The toolbar has various icons for report design. The main area shows a table with columns: SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, SPRIDEN\_PIDM, SPRIDEN\_ID, and SPRIDEN\_CHANGE\_IND. The first row contains data: Axxxxxx, Bxxxxxx, Axxxxxx, 0, Axxxxxxxx, A. A context menu is open over the first cell of the SPRIDEN\_LAST\_NAME column. The menu options are: Options..., Delete, Fonts, Fixed Column Width (selected), Sort Order, Invisible (selected), On (checked), Off, Variable, Edit Variable Fields..., Column Title..., Order Report By, and Table Of Contents.

SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_CHANGE_IND
Axxxxxx	Bxxxxxx	Axxxxxx	0	Axxxxxxxx	A
Bxxxxxx	Axxxxxx	Bxxxxxx	0	Bxxxxxxxx	B
Bxxxxxx	Bxxxxxx	Axxxxxx	0	Axxxxxxxx	A
Axxxxxx	Bxxxxxx	Bxxxxxx	0	Bxxxxxxxx	B
Bxxxxxx	Axxxxxx	Axxxxxx	0	Axxxxxxxx	A
Bxxxxxx	Bxxxxxx	Bxxxxxx	0	Bxxxxxxxx	B
Axxxxxx	Axxxxxx	Axxxxxx	0	Axxxxxxxx	A
Bxxxxxx	Bxxxxxx	Bxxxxxx	0	Bxxxxxxxx	B
Axxxxxx	Axxxxxx	Axxxxxx	0	Axxxxxxxx	A
Bxxxxxx	Bxxxxxx	Bxxxxxx	0	Bxxxxxxxx	B

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.

The screenshot shows the Report Painter interface in Developer Studio. The title bar reads "Developer Studio - [Report Painter lindafirst (SPRIDEN\_CURRENT\_ASU\_V)]". The menu bar includes File, Edit, Insert, Properties, Report, View, Command, Window, Help. The toolbar has various icons for report design. The ribbon tabs include Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, Totals, and SubFooting. The bottom toolbar includes options for BY, HTML, Options, and various report layout tools. On the left, the Object Inspector pane shows a tree structure with "SPRIDEN\_CURRENT\_ASU\_V" expanded, listing 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, SPRIDEN\_SEARCH\_LAST\_NAME, and SPRIDEN\_SEARCH\_FIRST\_NAME. The main workspace displays a table with three columns: SPRIDEN\_PIDM, SPRIDEN\_ID, and SPRIDEN\_CHANGE\_IND. The first column contains values 0, Axxxxxx, and Bxxxxxx. The second column contains values Axxxxxx, Bxxxxxx, and Axxxxxx. The third column contains values A, B, and A. The entire table is highlighted with a red border.

SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_CHANGE_IND
0	Axxxxxx	A
0	Bxxxxxx	B
0	Axxxxxx	A
0	Bxxxxxx	B
0	Axxxxxx	A
0	Bxxxxxx	B
0	Axxxxxx	A
0	Bxxxxxx	B
0	Axxxxxx	A
0	Bxxxxxx	B
0	Axxxxxx	A
0	Bxxxxxx	B

Below is a screen shot of what your report painter will look like.

Click Run

Close the report output.

The screenshot shows the Report Painter 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 Sum, Across, For, Where/If, Forecast, and a dropdown for 'One variable for each selected column'. Below the toolbar are tabs for Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, Totals, and SubFooting. The main area displays an HTML preview of a report with a grid of data. The grid has columns for SPRIDEN\_PIDM, SPRIDEN\_ID, SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, and SPRIDEN\_CHANGE\_IND. The data rows show alternating A and B values for each column. To the left of the main area is an 'Object Inspector' panel with sections for Special Fields, Variables, Computed Fields, and a expanded section for SPRIDEN\_CURRENT\_ASU\_V containing 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, SPRIDEN\_SEARCH\_LAST\_NAME, and SPRIDEN\_SEARCH\_FIRST\_NAME.

## Add a Page Heading

1. Click the Page Heading button in the column toolbar.
2. Type in SIMPLE PERSON LIST in the heading box in the report painter window.

The screenshot shows the Oracle Developer Studio Report Painter interface. The top menu bar includes File, Edit, Insert, Properties, Report, View, Command, Window, and Help. The toolbar below has various icons for report design, including a red arrow pointing to the 'Report Heading' button. The main workspace displays a table with columns: SPRIDEN\_PIDM, SPRIDEN\_ID, SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, and SPRIDEN\_CHANGE\_IND. A red arrow points to the header cell containing 'SIMPLE PERSON LIST'. To the left, the Object Inspector pane shows a tree view of special fields, variables, and computed fields, with 'SPRIDEN\_CURRENT\_ASU\_V' expanded to show its sub-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, SPRIDEN\_SEARCH\_LAST\_NAME, SPRIDEN\_SEARCH\_FIRST\_NAME, SPRIDEN\_SEARCH\_MI, and SPRIDEN\_SOUNDDEX\_LAST\_NAM.

## 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 Report Painter interface with the following details:

- Toolbar:** Standard Windows-style toolbar with icons for File, Edit, Insert, Properties, Report, View, Command, Window, Help.
- Menu Bar:** File, Edit, Insert, Properties, Report, View, Command, Window, Help.
- Toolbars:** Detail, Sum, By, Across, For, Where/If, Forecast, One variable for each selected column.
- Report Structure:** Report Heading, Page Heading, Page Footing (selected), SubHeading, SubTotal, Totals, SubFootings.
- Font and Style:** HTML, TREBUCHET MS, 10pt, A, B, U, F.
- Object Inspector:** Shows the current report structure under SPRIDEN\_CURRENT\_ASU\_V:
  - 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\_SOUNDDEX\_LAST\_NAM
    - SPRIDEN\_SOUNDDEX\_FIRST\_NAM
    - SPRIDEN\_NTYP\_CODE
    - SPRIDEN\_CREATE\_USER
    - SPRIDEN\_CREATE\_DATE
    - SPRIDEN\_DATA\_ORIGIN
    - SPRIDEN\_CREATE\_FDMN\_CODE
- Report Preview:** SIMPLE PERSON LIST table with columns: SPRIDEN\_PIDM, SPRIDEN\_ID, SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, SPRIDEN\_CHANGE\_IND. Data rows show various combinations of A and B for each field.
- Page Footing:** A context menu is open over the "PREPARED ON:" field, listing options:
  - Options...
  - Footing Bottom
  - Insert Date >
    - 02/02/12
    - 02/02/2012
    - Feb 2, 2012
    - February 2, 2012
    - 2 FEB, 2012
    - Q1 2012
  - Insert Spotmarker...
  - Insert Page Markers >
  - Alignment Grid...
- Bottom Taskbar:** Shows system icons for Start, Internet Explorer, File Explorer, Media Center, Mail, Task View, and Paint.
- System Status:** NUM, 3:19 PM, 2/2/2012.

## Change a Column Heading

1. Highlight Spriden\_last\_name field
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.

SIMPLE PERSON LIST									
SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	SPRIDEN_CHANGE_IND	SPRIDEN_PIMM	SPRIDEN_PIMI	SPRIDEN_PITL	SPRIDEN_PITM
Axxxxxx	0	Axxxxxxxxx	Bxxxxxxxxx	Cxxxxxxxxx	A	Bxxxxxxxxx	Cxxxxxxxxx	Dxxxxxxxxx	Exxxxxxxxx
	0	Bxxxxxxxxx	Axxxxxxxxx	Bxxxxxxxxx	B	Axxxxxxxxx	Cxxxxxxxxx	Dxxxxxxxxx	Exxxxxxxxx
	0	Axxxxxxxxx	Bxxxxxxxxx	Cxxxxxxxxx	A	Cxxxxxxxxx	Dxxxxxxxxx	Exxxxxxxxx	Fxxxxxxxxx
	0	Bxxxxxxxxx	Axxxxxxxxx	Bxxxxxxxxx	B	Dxxxxxxxxx	Exxxxxxxxx	Fxxxxxxxxx	Gxxxxxxxxx
	0	Axxxxxxxxx	Bxxxxxxxxx	Cxxxxxxxxx	A	Exxxxxxxxx	Fxxxxxxxxx	Gxxxxxxxxx	Hxxxxxxxxx
	0	Bxxxxxxxxx	Axxxxxxxxx	Bxxxxxxxxx	B	Fxxxxxxxxx	Gxxxxxxxxx	Hxxxxxxxxx	Ixxxxxxxxx
	0	Axxxxxxxxx	Bxxxxxxxxx	Cxxxxxxxxx	A	Gxxxxxxxxx	Hxxxxxxxxx	Ixxxxxxxxx	Jxxxxxxxxx
	0	Bxxxxxxxxx	Axxxxxxxxx	Bxxxxxxxxx	B	Hxxxxxxxxx	Ixxxxxxxxx	Jxxxxxxxxx	Kxxxxxxxxx
	0	Axxxxxxxxx	Bxxxxxxxxx	Cxxxxxxxxx	A	Ixxxxxxxxx	Jxxxxxxxxx	Kxxxxxxxxx	Lxxxxxxxxx
	0	Bxxxxxxxxx	Axxxxxxxxx	Bxxxxxxxxx	B	Jxxxxxxxxx	Kxxxxxxxxx	Lxxxxxxxxx	Mxxxxxxxxx
	0	Axxxxxxxxx	Bxxxxxxxxx	Cxxxxxxxxx	A	Kxxxxxxxxx	Lxxxxxxxxx	Mxxxxxxxxx	Nxxxxxxxxx
	0	Bxxxxxxxxx	Axxxxxxxxx	Bxxxxxxxxx	B	Lxxxxxxxxx	Mxxxxxxxxx	Nxxxxxxxxx	Oxxxxxxxxx

### Exercise 3.3 SUM and SET

Create a new procedure called yourname33 using table SHRTRCE

Add the following fields to the report: shrtrce\_term\_code\_eff, shrtrce\_credit\_hours

Limit the output to 1000 record.

Sort By shrtrce\_term\_code\_eff, run the report. The report displays the credit\_hours for the term. Close the report output.

Highlight shrtrce\_credit\_hours and click on the sum button on the column toolbar. Run the report again. The report displays the total credit hours for the term. Close the report output.

WebFOCUS Report - Windows Internet Explorer provided by MSN & Bing

http://wfcdien...

File Edit View Favorites Tools Help

Favorites WebFOCUS Report

SHRTRCE_TERM_CODE_EFF	SHRTRCE_CREDIT_HOURS
198240	3.000
	1.000
	1.500
	3.000
	3.000
	3.000
	3.000
	3.000
	3.000
	3.000
	3.000
	3.000
	3.000
	3.000
	3.000
	3.000
	1.500
198340	3.000
	.000
	0.000

WebFOCUS Report - Windows Internet Explorer provided by MSN & Bing

http://wfcdien...

File Edit View Favorites Tools Help

Favorites WebFOCUS Report

Page

SHRTRCE_TERM_CODE_EFF	SHRTRCE_CREDIT_HOURS
198240	43.000
198340	3.000
198410	60.000
198440	86.000
198520	15.000
198530	3.300
198620	7.000
198640	89.000

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.

The screenshot shows a reporting application interface with the following components:

- Object Inspector (Left Panel):** A tree view of report objects:
  - Special Fields
  - Variables
  - Computed Fields
  - SHRTRCE
    - SHRTRCE\_PIDM
    - SHRTRCE\_TRIT\_SEQ\_NO
    - SHRTRCE\_TRAM\_SEQ\_NO
    - SHRTRCE\_SFQ\_NO
- Report Preview (Center):** A matrix report structure with columns labeled "SHRTRCE\_TERM\_CODE\_EFF" and "SHRTRCE\_PIDM". The first row under "SHRTRCE\_TERM\_CODE\_EFF" contains "Axxxxx" and "Bxxxxx". The second row under "SHRTRCE\_PIDM" contains two rows of data: "0 .000 .000" and "0 .000 .000".
- Report Output (Bottom):** A detailed table view of the matrix data, showing rows for SHRTRCE\_PIDM values 518, 519, 520, 525, 1006, 1007, 1008, and 1015 across columns for years 199640 to 201120. The data includes values like 62.000, 6.000, 31.000, and 3.000.

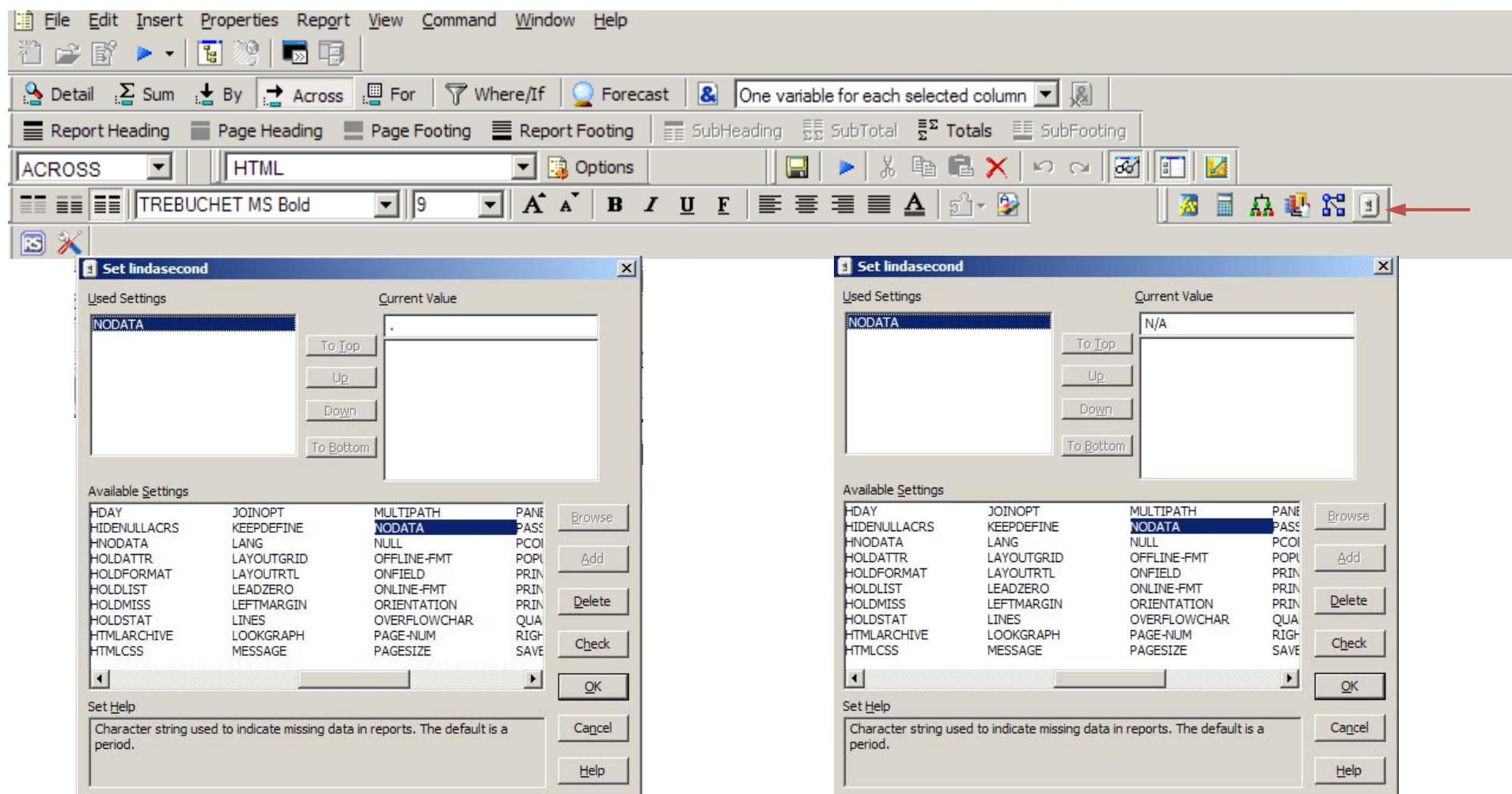
Next we will utilize the SET component. We will change the default NODATA character from a dot to N/A by adding a SET component to the report.

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

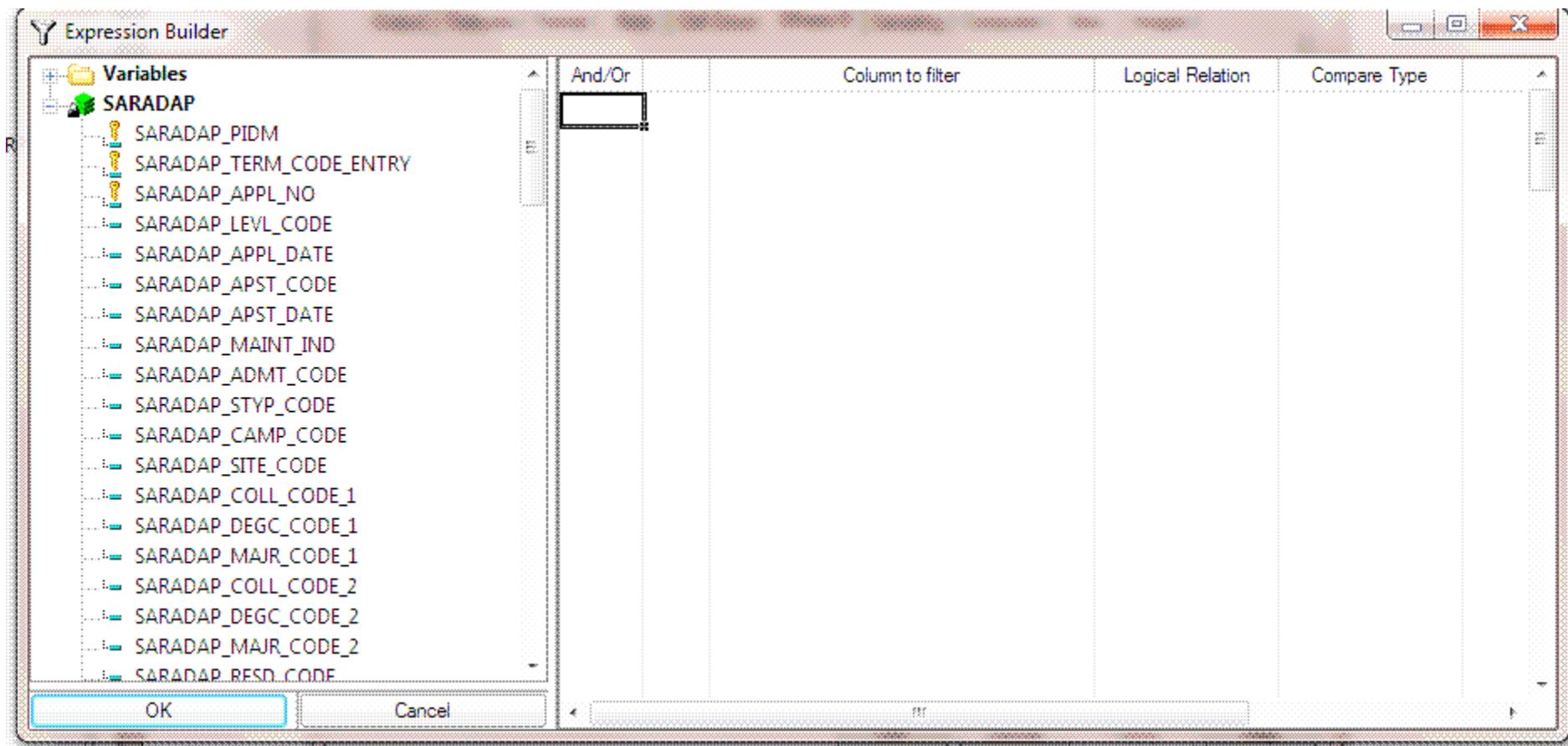
Replace the period in the current value box with N/A, click OK.

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



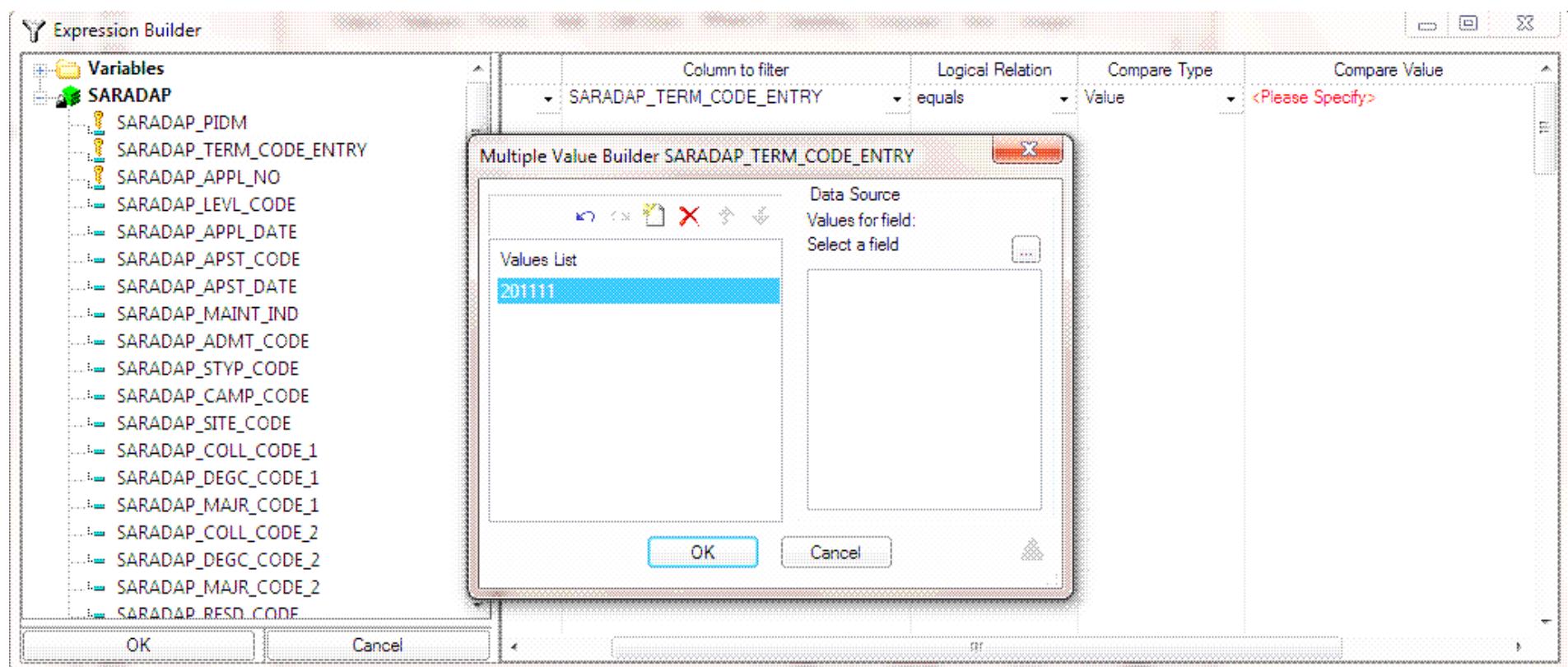
## Exercise 4.1 WHERE

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.



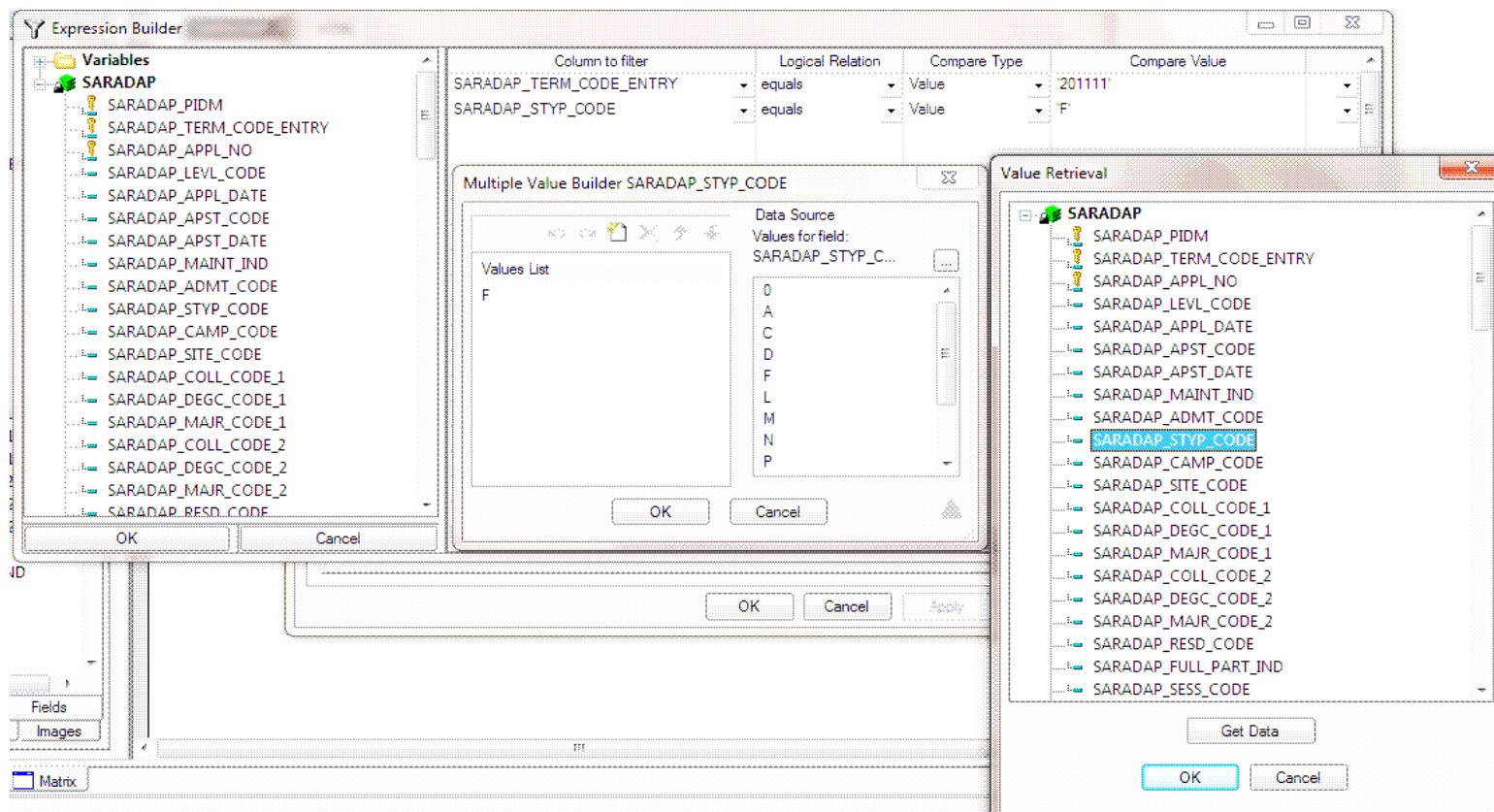
Use the expression builder to create the selection criteria. TERM = 200140 and Student Type = Freshman

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.

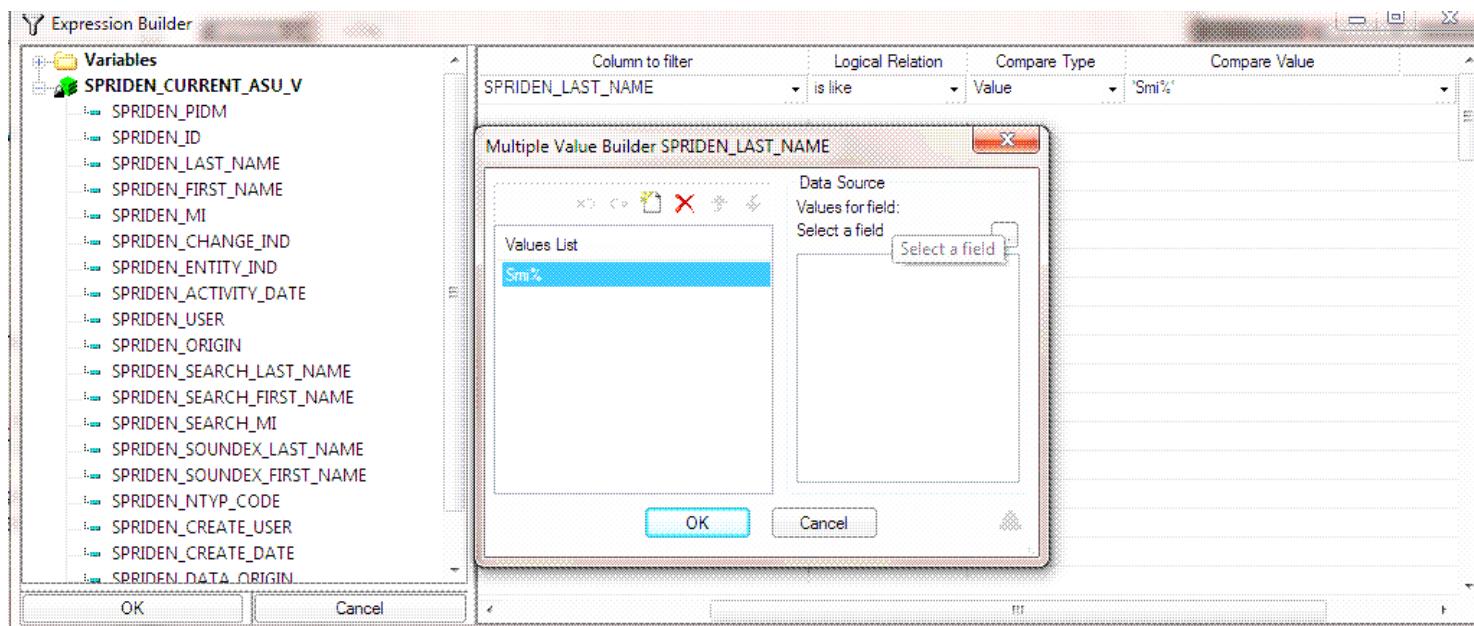
1. In the expression builder add saradap\_styp\_code to the column to filter box.
2. Select Equals in the logical relation box
3. Select Value in the compare type box. Double click in the compare value box. Click the button with the 3 periods to get the data that is in the field. Highlight the saradap\_styp\_code 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

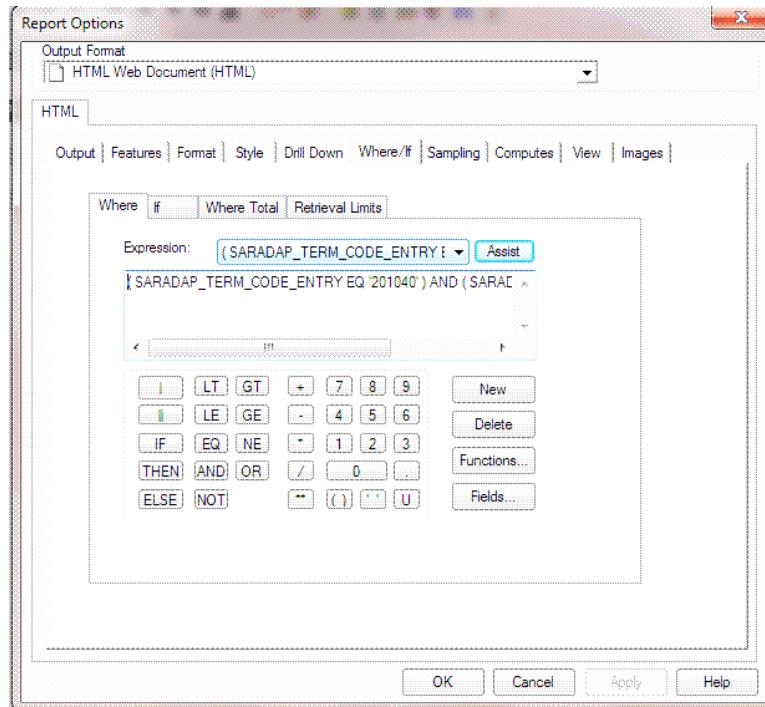
1. Highlight and right click on yourname4 report in your folder and select copy.
2. Click anywhere in your folder, right click and select paste. Now you have a report named yourname41
3. Right click on yourname41 and select rename, rename your report to yourname43.
4. Double click yourname43 to open. 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\_levl\_code and remove saradap\_styp\_code.

The screenshot shows the Report Painter interface with the following details:

- Toolbar:** Includes File, Edit, Insert, Properties, Report, View, Command, Window, Help, and various report design tools like Detail, Sum, By, Across, For, Where/If, Forecast, and a dropdown for "One variable for each selected column".
- Report Structure:** Shows Report Heading, Page Heading, Page Footing, and Report Footing tabs.
- Output Options:** PRINT and HTML dropdowns, along with other export icons.
- Formatting:** Font size (9), bold (B), italic (I), underline (U), and various alignment and style icons.
- Object Inspector:** A tree view showing Special Fields, Variables, Computed Fields, and the current node: SARADAP, which contains fields: SARADAP\_PIDM, SARADAP\_TERM\_CODE\_ENTRY, SARADAP\_APPL\_NO, SARADAP\_LEVL\_CODE, SARADAP\_APPL\_DATE, SARADAP\_APST\_CODE, SARADAP\_APST\_DATE, and SARADAP\_MAINT\_IND.
- Table Data:** A table with the following data:

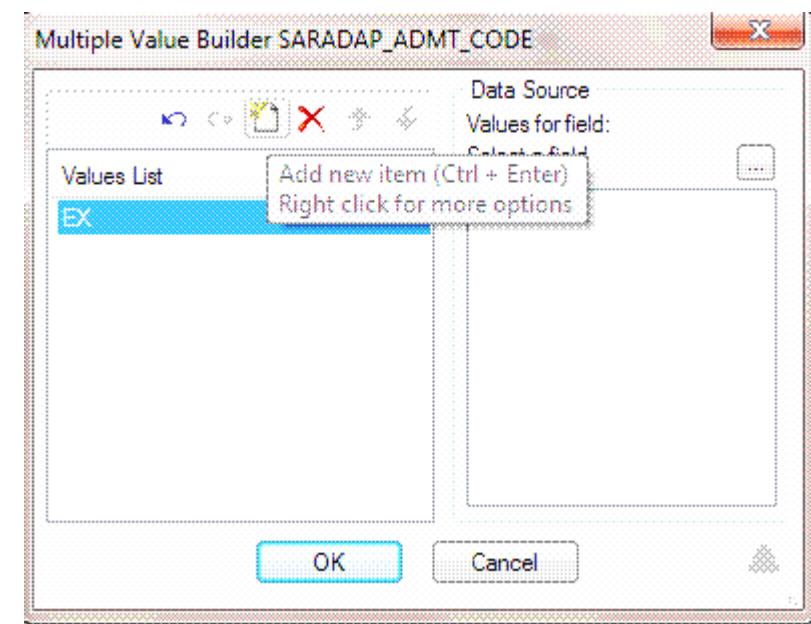
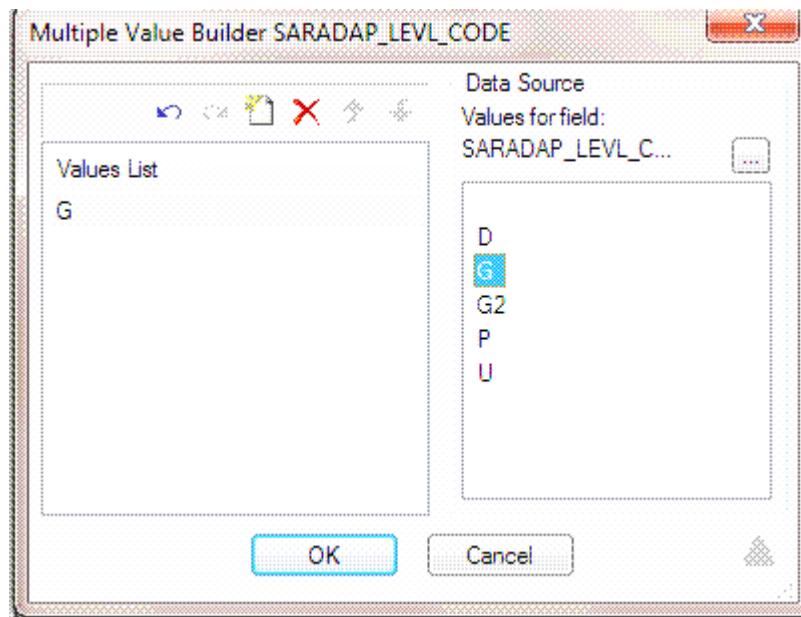
SARADAP_PIDM	SARADAP_TERM_CODE_ENTRY	SARADAP_LEVL_CODE	SARADAP_ADMT_CODE
0	Axxxxx Bxxxxx	Ax Bx	Ax Bx
0	Axxxxx Bxxxxx	Ax Bx	Ax Bx

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.



The screenshot shows the 'Expression Builder' dialog box. On the left, a tree view shows variables under 'Variables': SARADAP, SARADAP\_PIDM, SARADAP\_TERM\_CODE\_ENTRY, SARADAP\_APPL\_NO, SARADAP\_LEVEL\_CODE, SARADAP\_APPL\_DATE, SARADAP\_APST\_CODE, SARADAP\_APST\_DATE, and SARADAP\_MAINT\_IND. The main area shows an 'And/Or' structure. The first condition is 'And' followed by 'SARADAP\_TERM\_CODE\_ENTRY equals Value '201040''. The second condition is 'And' followed by 'SARADAP\_STYP\_CODE equals Value 'F''. A red 'Delete' button is positioned next to the second condition.

1. Add saradap\_levl\_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\_levl\_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 at the top and a WebFOCUS Report window below it.

**Expression Builder:**

- Variables pane: SARADAP
- And/Or pane: ( And And )
- Column to filter: SARADAP\_TERM\_CODE\_ENTRY, SARADAP\_LEVL\_CODE, SARADAP\_ADMT\_CODE
- Logical Relation: equals, equals, equals
- Compare Type: Value, Value, Value
- Compare Value: '201040', 'G', EX

**WebFOCUS Report:**

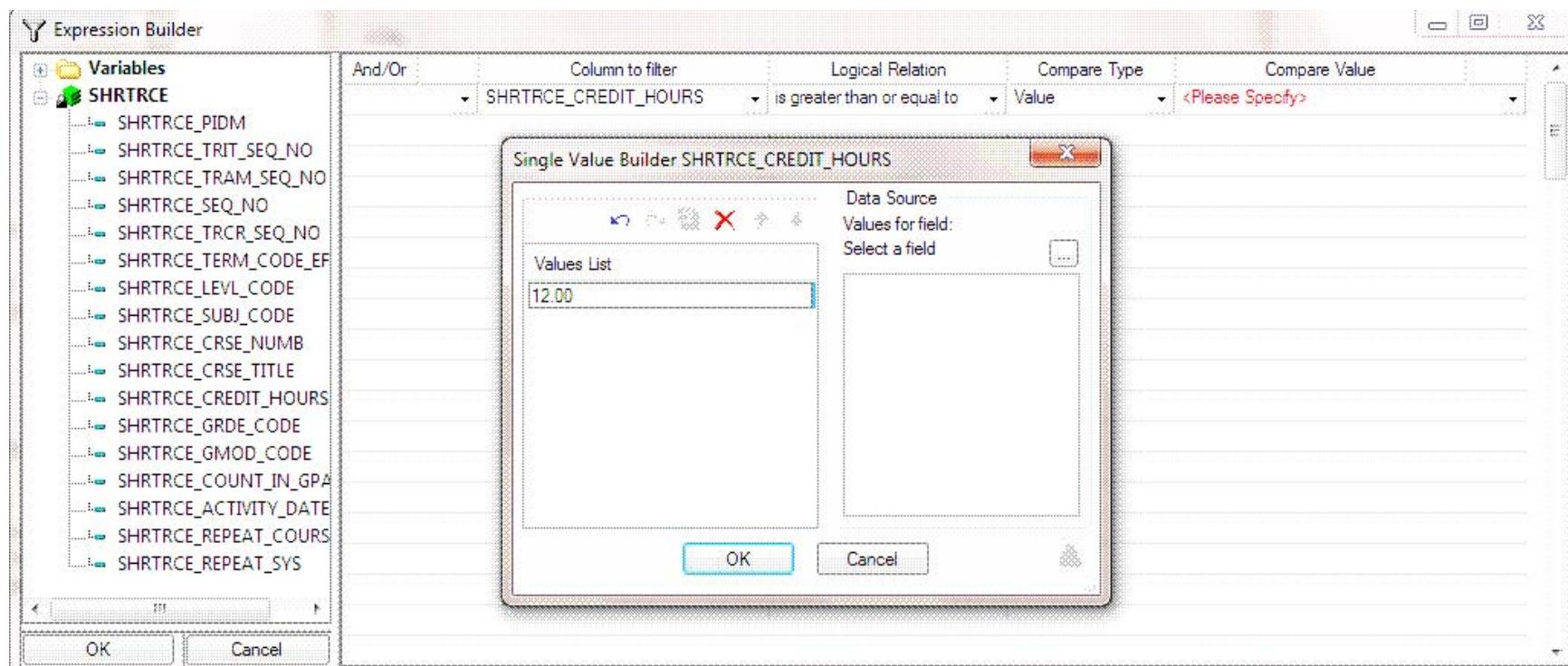
Report URL: <https://wfcientmre-test.appstate.edu:8080/i>

SARADAP_PIDM	SARADAP_TERM_CODE_ENTRY	SARADAP_LEVL_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

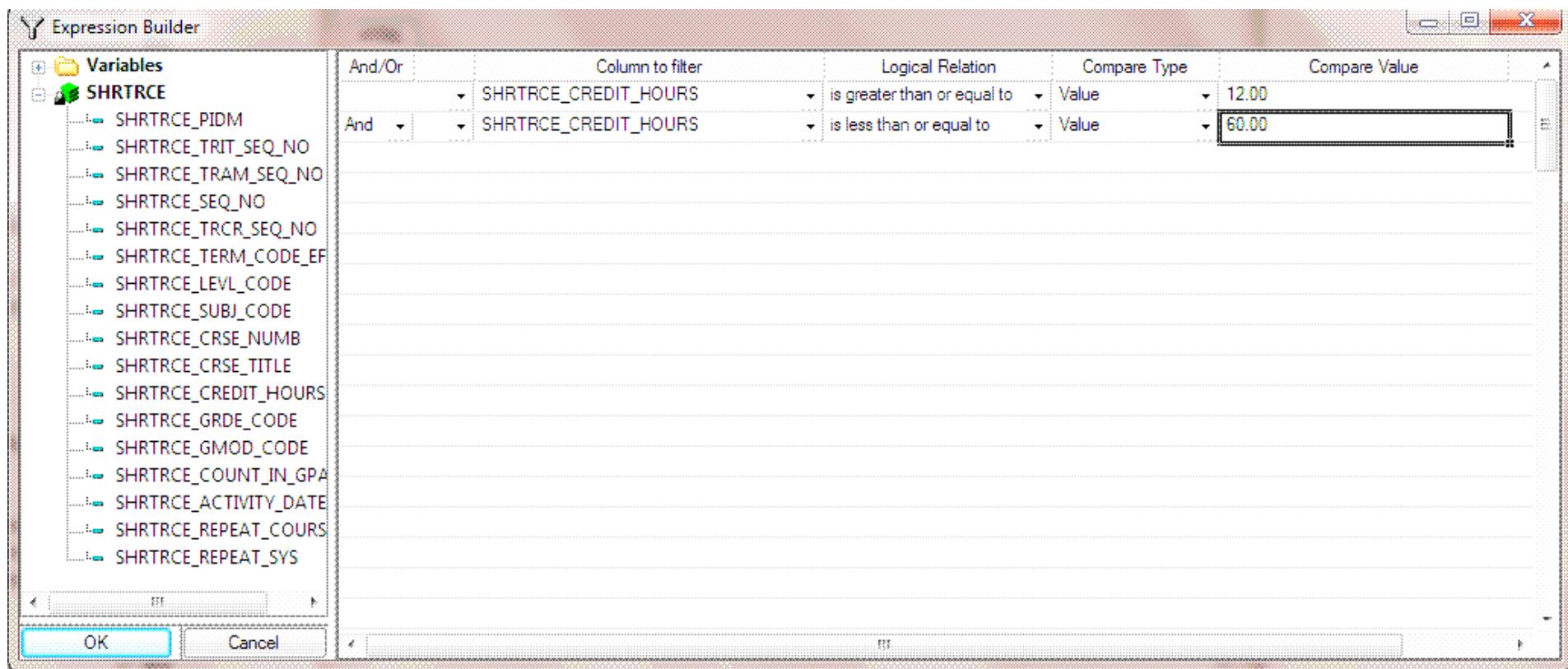
## Exercise 4.4

### 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 shrtrce\_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\_crdit\_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, then Click OK.
5. Run the report, close the output after verifying you have the correct data. Close and save the report.



## Exercise 5.1

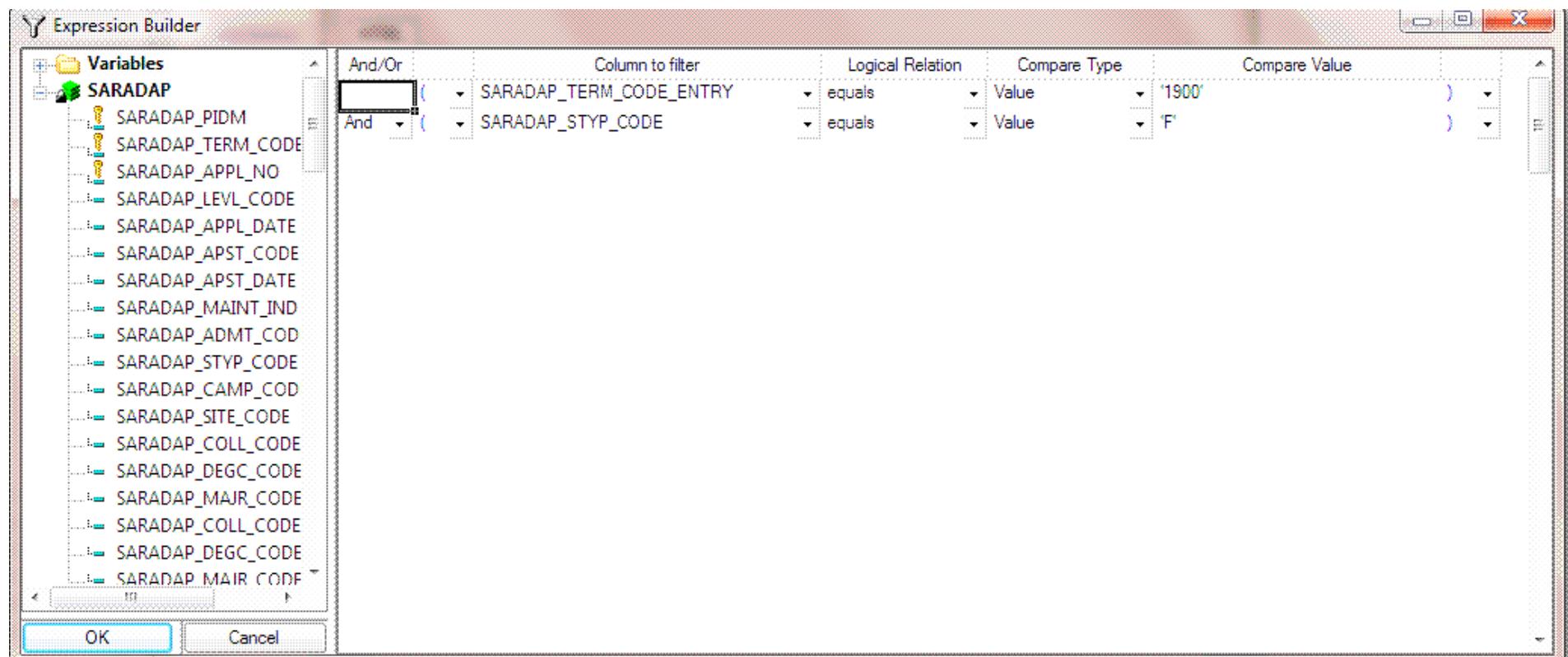
### SET EMPTYREPORT

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.

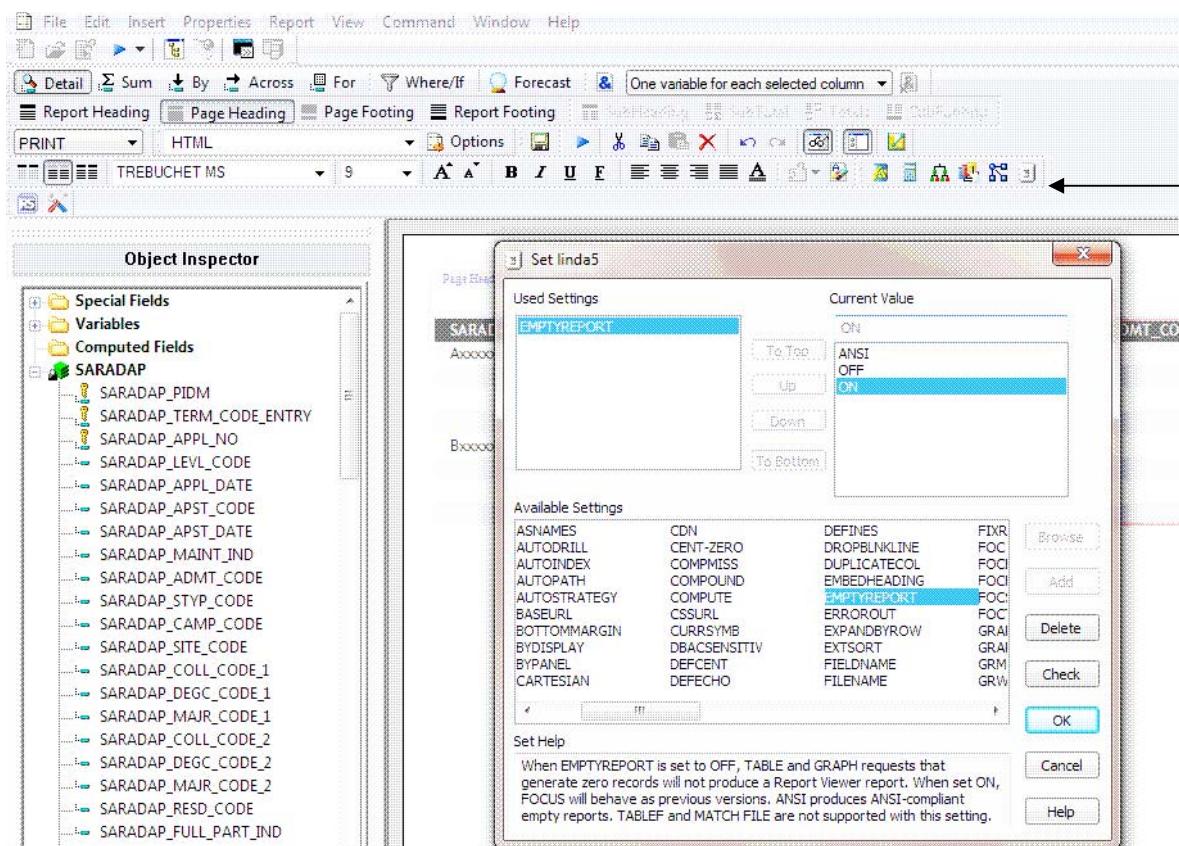
The screenshot shows the Oracle Reports Designer interface. The main area displays a report titled "Students Admitted for Term". The report consists of a page header containing the title and a table with four columns: SARADAP\_PIDM, SARADAP\_TERM\_CODE\_ENTRY, SARADAP\_STYP\_CODE, and SARADAP\_ADMT\_CODE. The table contains two rows of data. The toolbar at the top includes buttons for File, Edit, Insert, Properties, Report, View, Command, Window, Help, and various report configuration options. The Object Inspector on the left lists fields under the SARADAP node, including SARADAP\_PIDM, SARADAP\_TERM\_CODE\_ENTRY, SARADAP\_APPL\_NO, SARADAP\_LEVL\_CODE, SARADAP\_APPL\_DATE, SARADAP\_APST\_CODE, SARADAP\_APST\_DATE, SARADAP\_MAINT\_IND, SARADAP\_ADMT\_CODE, SARADAP\_STYP\_CODE, SARADAP\_CAMP\_CODE, and SARADAP\_SITF\_CODE.

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



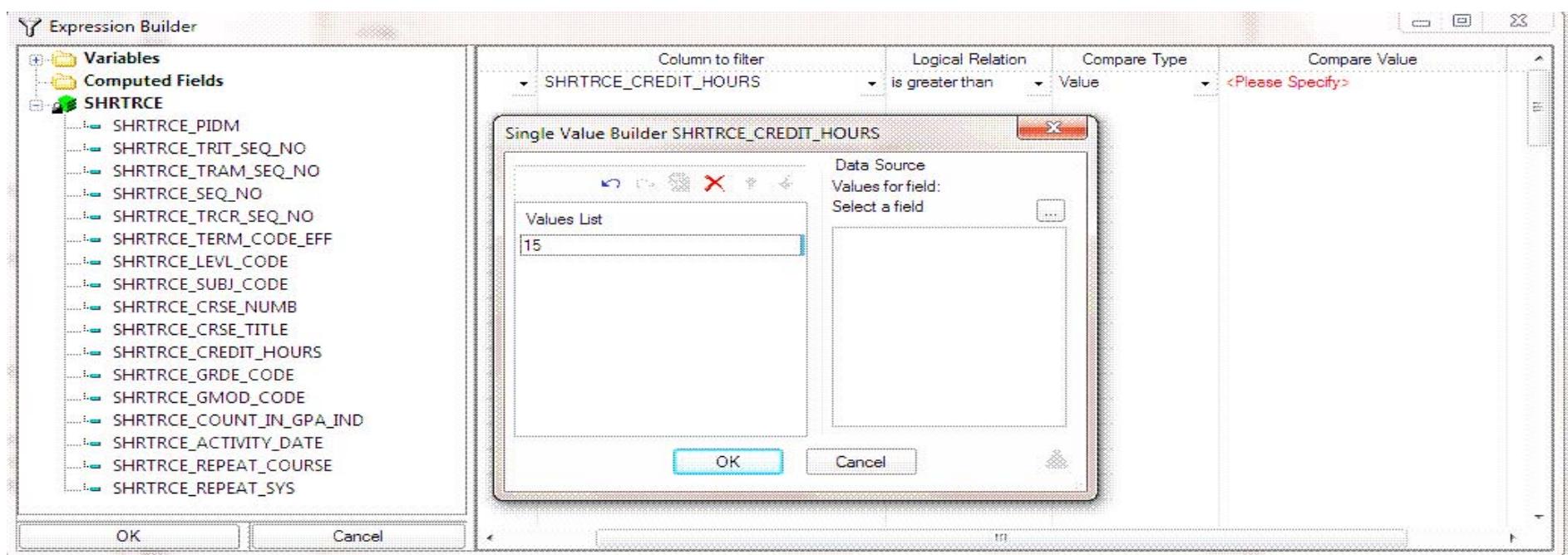
1. Click the Set Button on the Setup toolbar.
2. Scroll to find EMPTYREPORT in the available settings section of the Set tool window.
3. Double click EMPTYREPORT to get it in the Used settings section
4. Click ON to change the current value from off to ON.
5. Click Check to make sure you have the syntax 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

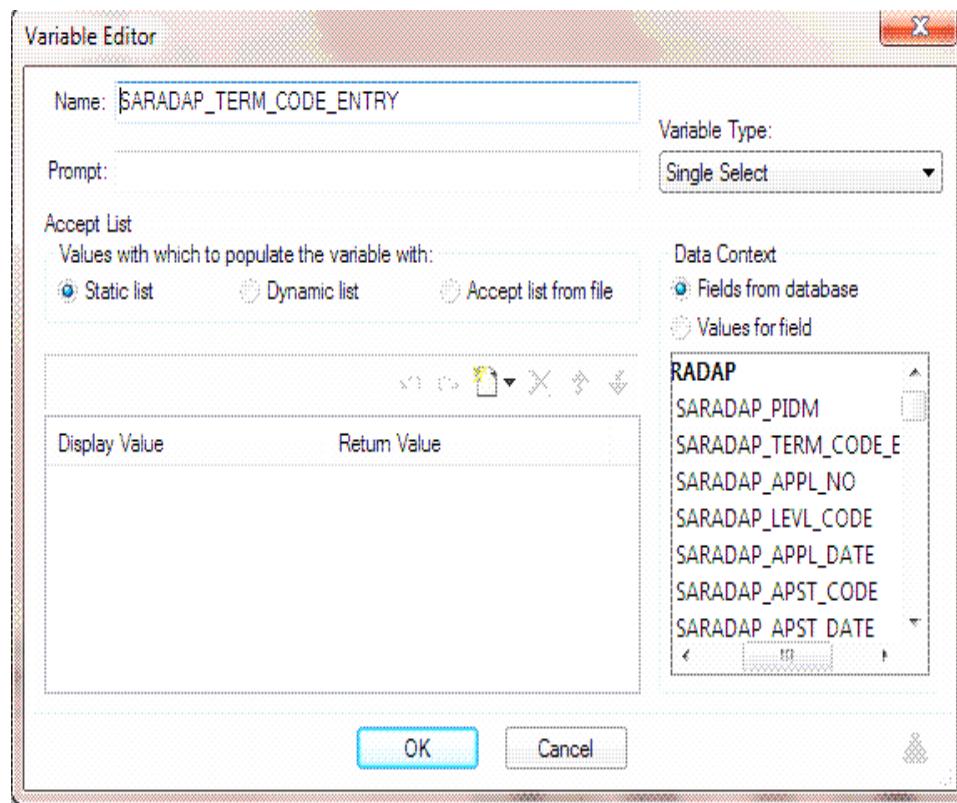
1. Right click yourname33 and select copy. Right click in the folder and select paste. Rename the report to yourname52.
2. Double click yourname52 to open the procedure viewer. Double click the report object to open the report painter.
3. Click the Where/If button on the column toolbar.
4. Click the 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

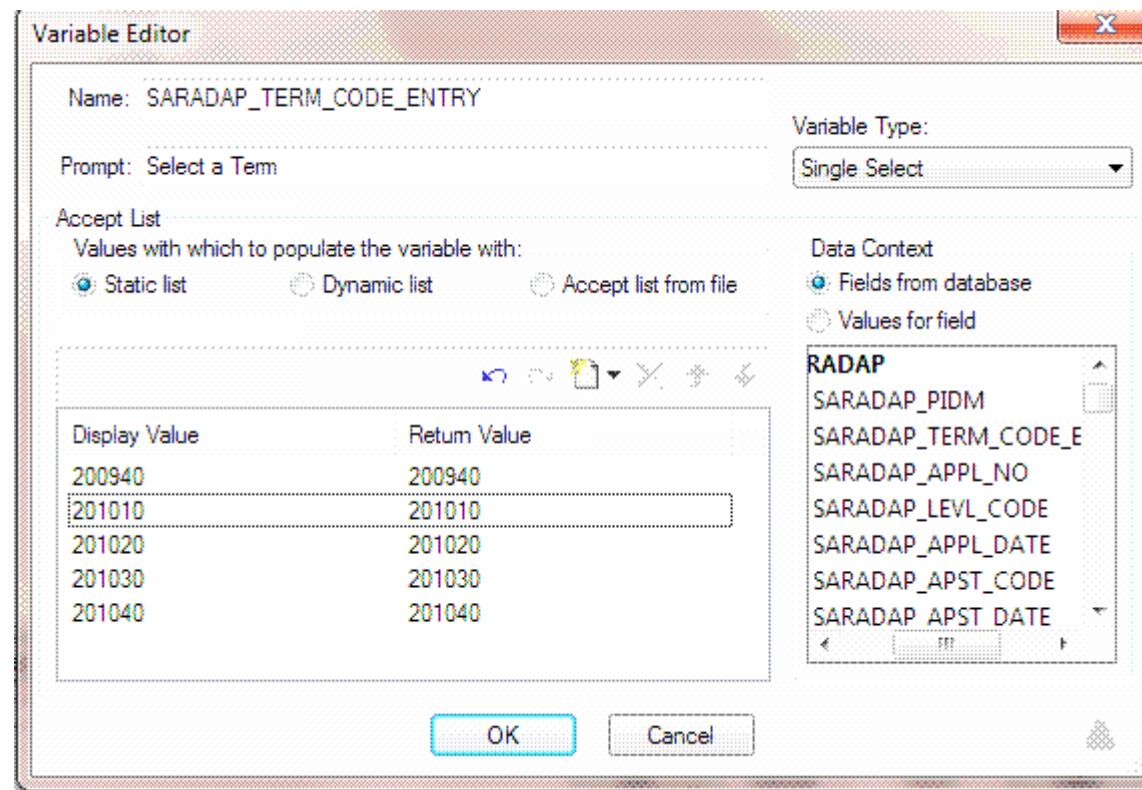
#### Creating Parameters

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.



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.

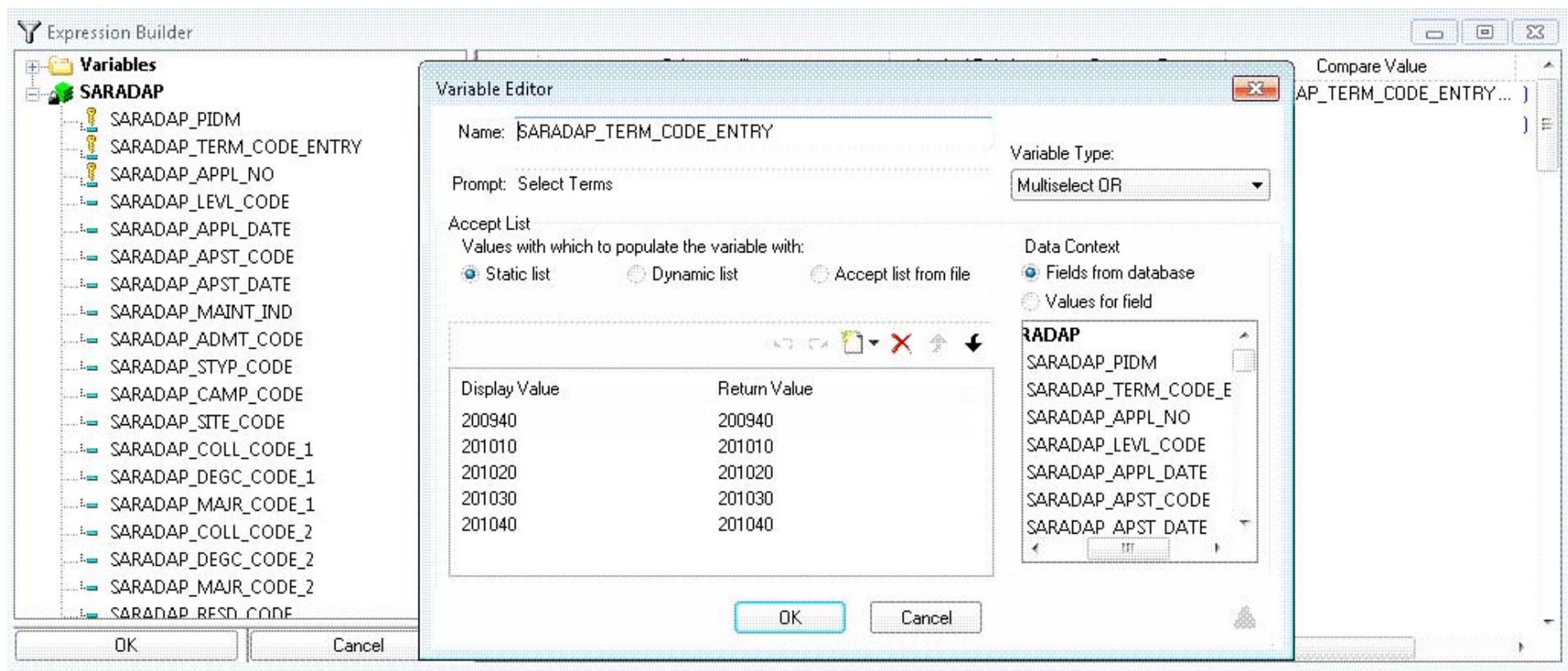
You should be back at the report painter window now.. Next we will create a Multiselect OR parameter.

The screenshot shows a WebFOCUS browser window with the following details:

- Header:** The URL is [http://wfclientmire-test.appstate.edu:8080/ibl\\_apps/WFServer](http://wfclientmire-test.appstate.edu:8080/ibl_apps/WFServer). The title bar says "WebFOCUS Auto Promptin...".
- Menu Bar:** File, Edit, View, Favorites, Tools, Help.
- Toolbar:** Convert, Select.
- Left Panel:** A "Parameters" section titled "Select a Term" with a dropdown menu showing "201020".
- Bottom Panel:** Buttons for Run, Reset, Clear Output, and a checked checkbox for "Run in a new window".
- Content Area:** Two sets of instructions:
  1. Specify values for all parameters.
  2. Select the run button to submit the request.
- Data Grid:** A table with the following columns: SARADAP\_PIDM, SARADAP\_TERM\_CODE\_ENTRY, SARADAP\_STYP\_CODE, and SARADAP\_ADMT\_CODE. The data rows are:

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.

File Edit View Favorites Tools Help

Convert Select

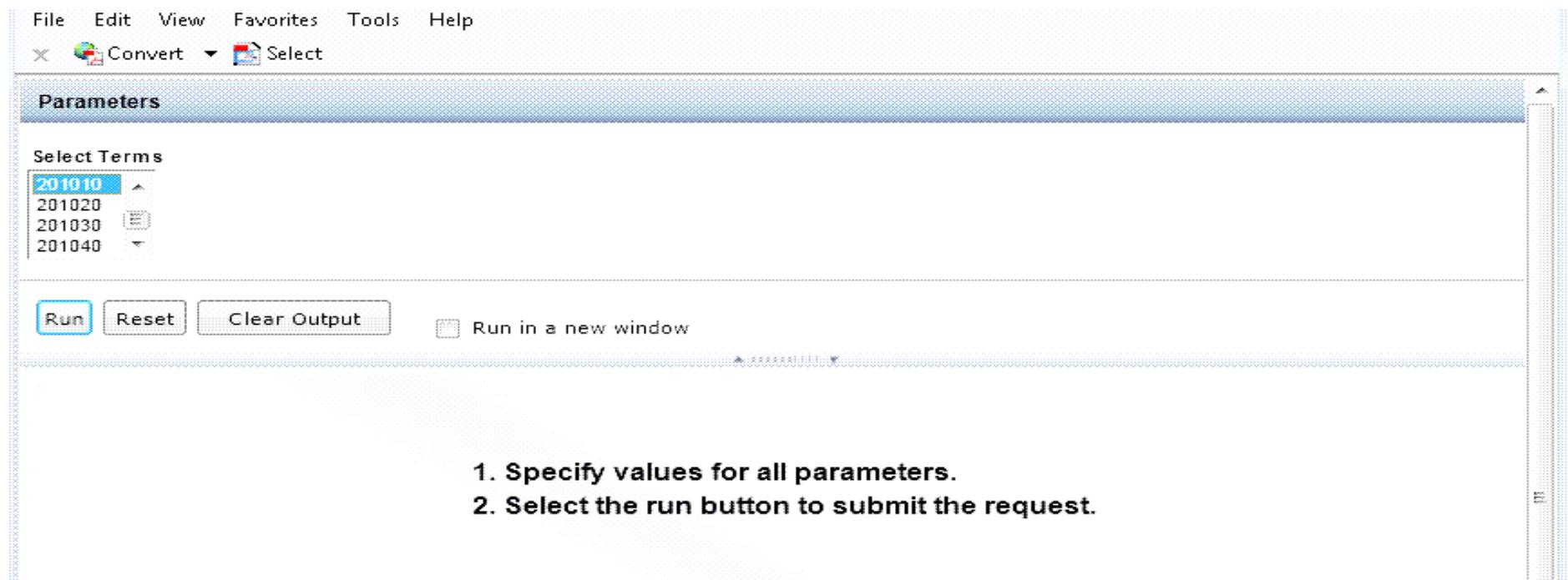
**Parameters**

Select Terms

201010  
201020  
201030  
201040

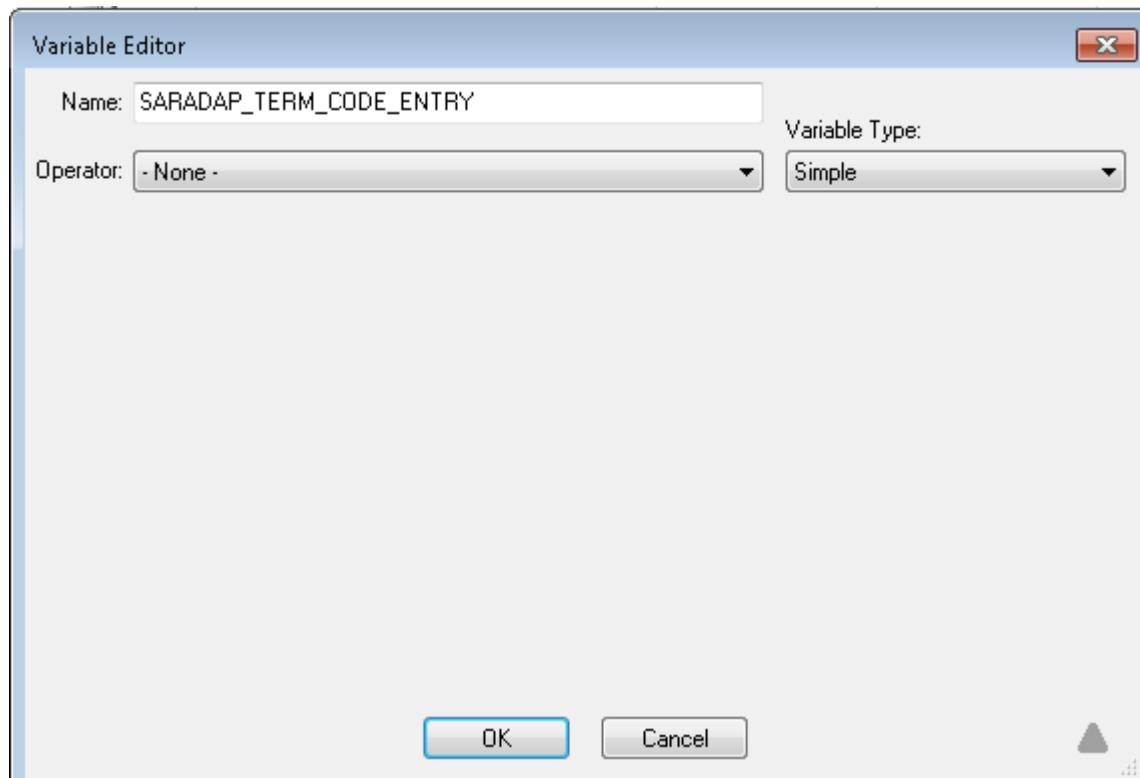
Run in a new window

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



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** **Reset** **Clear Output**  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.

The screenshot shows the Oracle Reports Report Painter interface. On the left, the Object Inspector pane displays a tree structure of report objects, with the 'SPRIDEN\_CURRENT\_ASU\_V' view selected. The main workspace contains a table titled 'SIMPLE PERSON LIST'. The table has the following columns:

	SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	SPRIDEN_CHANGE_IND
Axxxxxx	0	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	A
Bxxxxxx	0	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B
	0	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	A
	0	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B
Bxxxxxx	0	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	A
	0	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B
Bxxxxxx	0	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	A
	0	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B
Bxxxxxx	0	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	A
	0	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B
Bxxxxxx	0	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	A
	0	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B

At the bottom of the table, there is a page footer with the text '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.

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\_SOUNDDEX\_LAST\_NAME

Page Heading

SIMPLE PERSON LIST

	SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI
Axxxxxx	Axxxxxxx	Bxxxxxxxxx	Bxxxxxxxxx	Bxxxxxxxxx
	Bxxxxxx	Axxxxxxx	Axxxxxxx	Axxxxxxx
	Bxxxxxx	Axxxxxxx	Bxxxxxxxxx	Bxxxxxxxxx
	Bxxxxxx	Axxxxxxx	Bxxxxxxxxx	Bxxxxxxxxx
	Bxxxxxx	Axxxxxxx	Axxxxxxx	Axxxxxxx
	Bxxxxxx	Axxxxxxx	Bxxxxxxxxx	Bxxxxxxxxx
	Bxxxxxx	Axxxxxxx	Bxxxxxxxxx	Bxxxxxxxxx
	Bxxxxxx	Axxxxxxx	Axxxxxxx	Axxxxxxx
	Bxxxxxx	Axxxxxxx	Bxxxxxxxxx	Bxxxxxxxxx
	Bxxxxxx	Axxxxxxx	Bxxxxxxxxx	Bxxxxxxxxx
Rxxxxxx	Rxxxxxxxxx	Rxxxxxxxxx	Rxxxxxxxxx	

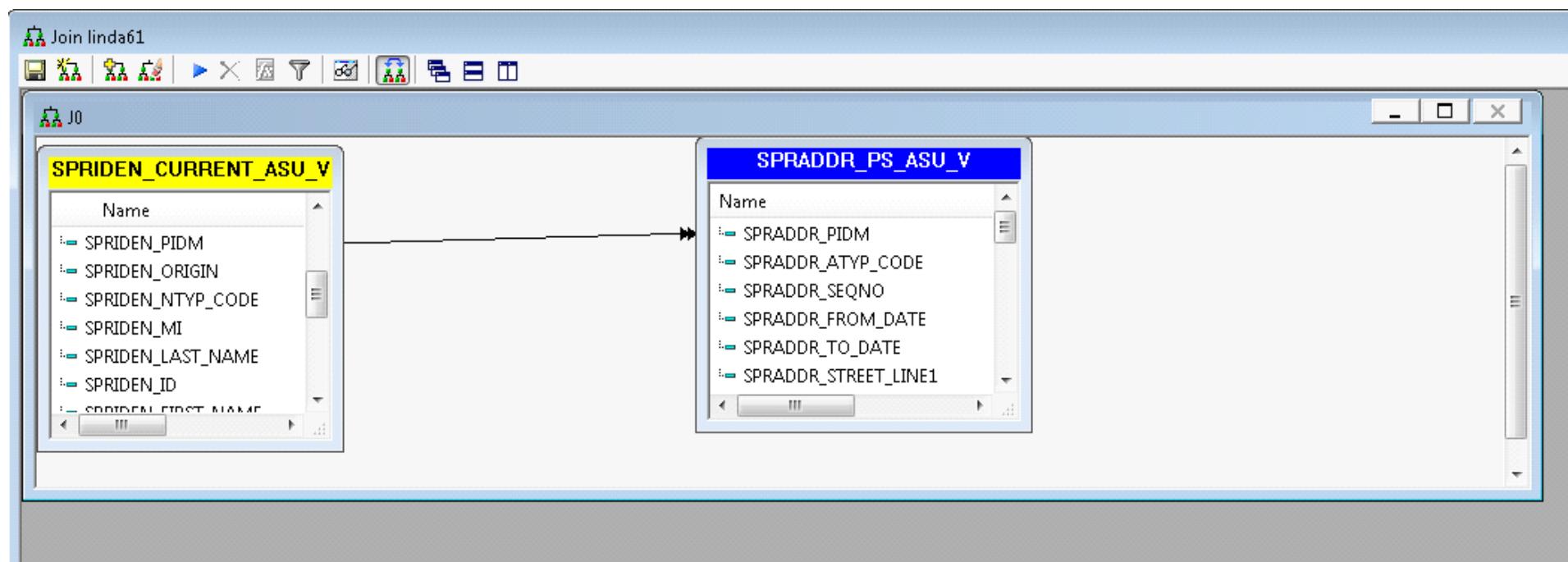
Report Heading Page Heading Page Footing Report Footing SubHeading SubTotal Totals SubFootting

PRINT HTML Options

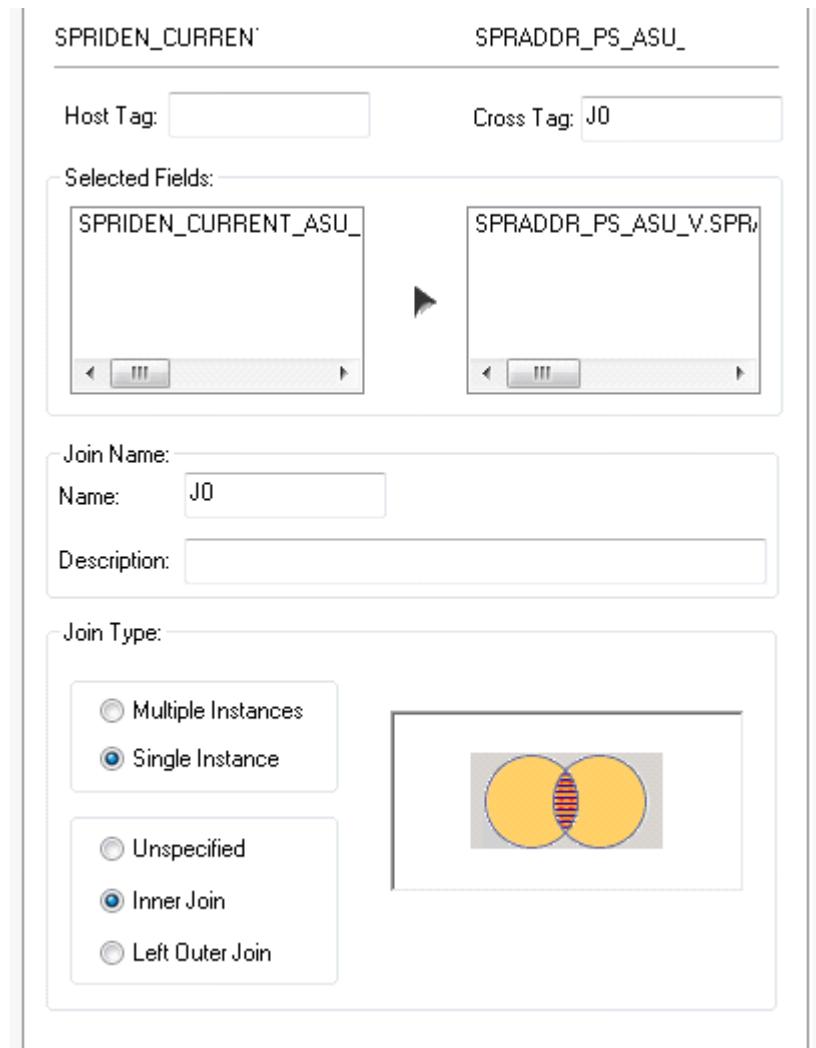
A A B I U F

Object Inspector

- 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.



1. Scroll down in the object inspector window to spraddr\_ps\_asu\_v.
2. Place your cursor after Spriden\_mi in the report painter window.
3. Select spraddr\_street\_line1, spraddr\_city, spraddr\_stat\_code, and spraddr\_zip and place them in your report by either dragging each field to the report painter window, selecting each field and hitting enter or using your control key to select all the fields then hit enter.
4. Run the report. Close the output window.
5. Save and close the report.

**Object Inspector**

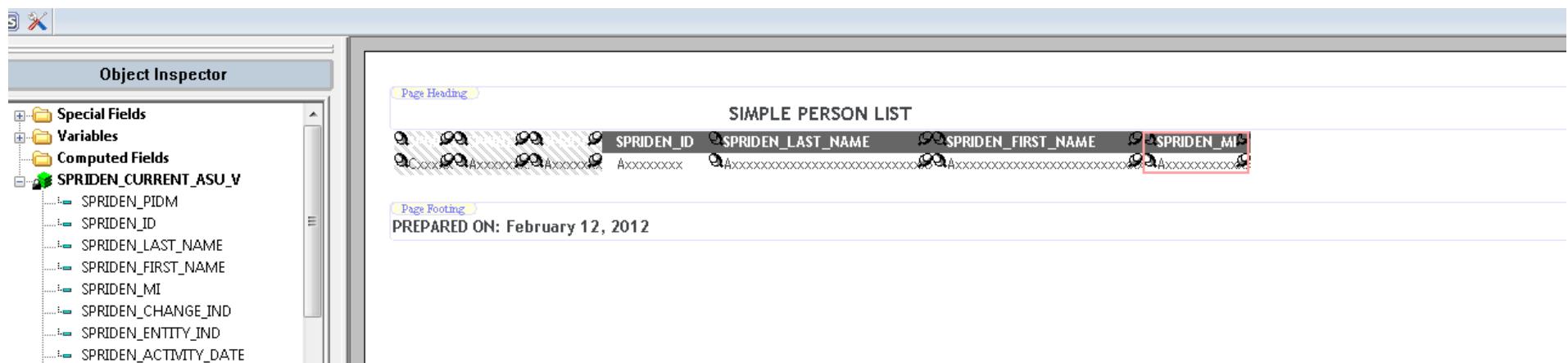
SPRIDEN_NTYP_CODE
SPRIDEN_CREATE_USER
SPRIDEN_CREATE_DATE
SPRIDEN_DATA_ORIGIN
SPRIDEN_CREATE_FDMN_CODE
<b>SPRADDR_PS_ASU_V</b>
SPRADDR_PIDM
SPRADDR_ATYP_CODE
SPRADDR_SEQNO
SPRADDR_FROM_DATE
SPRADDR_TO_DATE
SPRADDR_STREET_LINE1
SPRADDR_STREET_LINE2
SPRADDR_STREET_LINE3
SPRADDR_CITY
SPRADDR_STAT_CODE
SPRADDR_ZIP
SPRADDR_CNTY_CODE

**SIMPLE PERSON LIST**

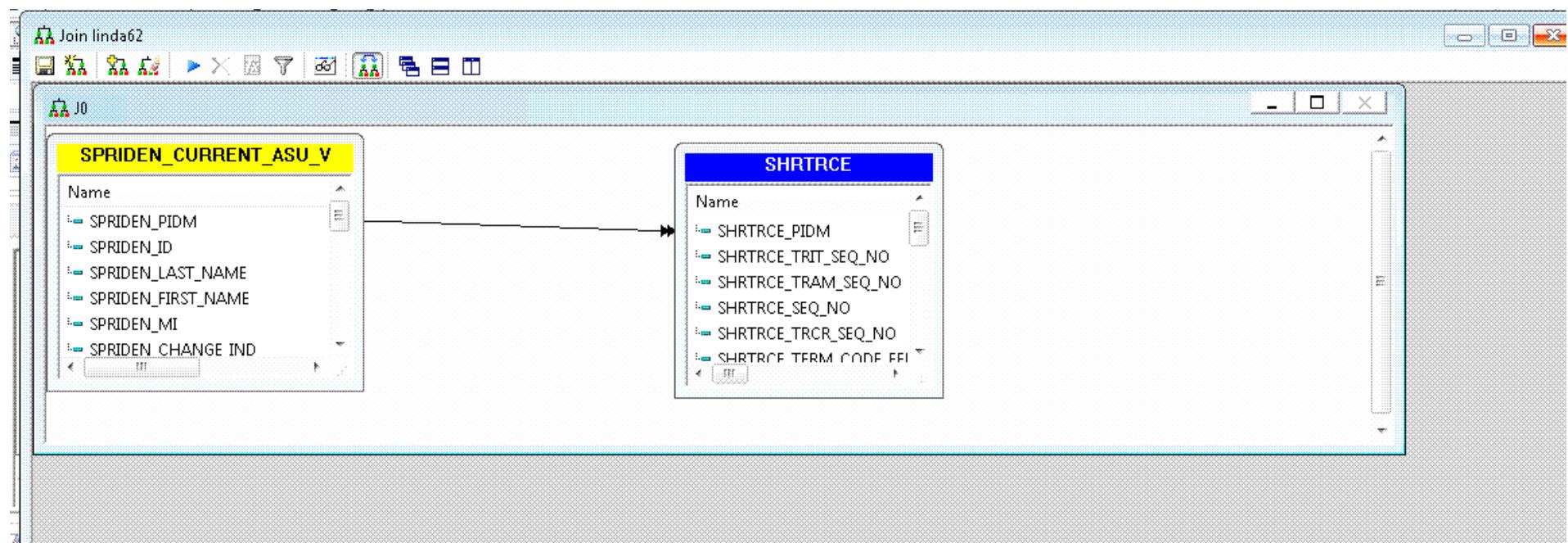
SPRIDEN_FIRST_NAME	SPRIDEN_MI	SPRADDR_STREET_LINE1	SPRADDR_CITY	SPRADDR_STAT_CODE	SPRADDR_ZIP
Axxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Bxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Axx	Axxxxxxxxxxxxxx
Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxx	Bxxxxxxxxxxxxxx
Axxxxxxxxxxxxxx	Axxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axx	Axxxxxxxxxxxxxx
Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxx	Bxxxxxxxxxxxxxx
Axxxxxxxxxxxxxx	Axxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axx	Axxxxxxxxxxxxxx
Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxx	Bxxxxxxxxxxxxxx
Axxxxxxxxxxxxxx	Axxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axx	Axxxxxxxxxxxxxx
Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxx	Bxxxxxxxxxxxxxx
Axxxxxxxxxxxxxx	Axxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axx	Axxxxxxxxxxxxxx
Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxx	Bxxxxxxxxxxxxxx
Axxxxxxxxxxxxxx	Axxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axx	Axxxxxxxxxxxxxx
Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxx	Bxxxxxxxxxxxxxx
Axxxxxxxxxxxxxx	Axxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axx	Axxxxxxxxxxxxxx
Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Bxx	Bxxxxxxxxxxxxxx
Rxxxxxxxxxxxxxx	Rxxxxxxxxxxxxx	Rxxxxxxxxxxxxxx	Rxxxxxxxxxxxxxx	Rxx	Rxxxxxxxxxxxxxx

## Exercise 6.2 Left Outer JOIN

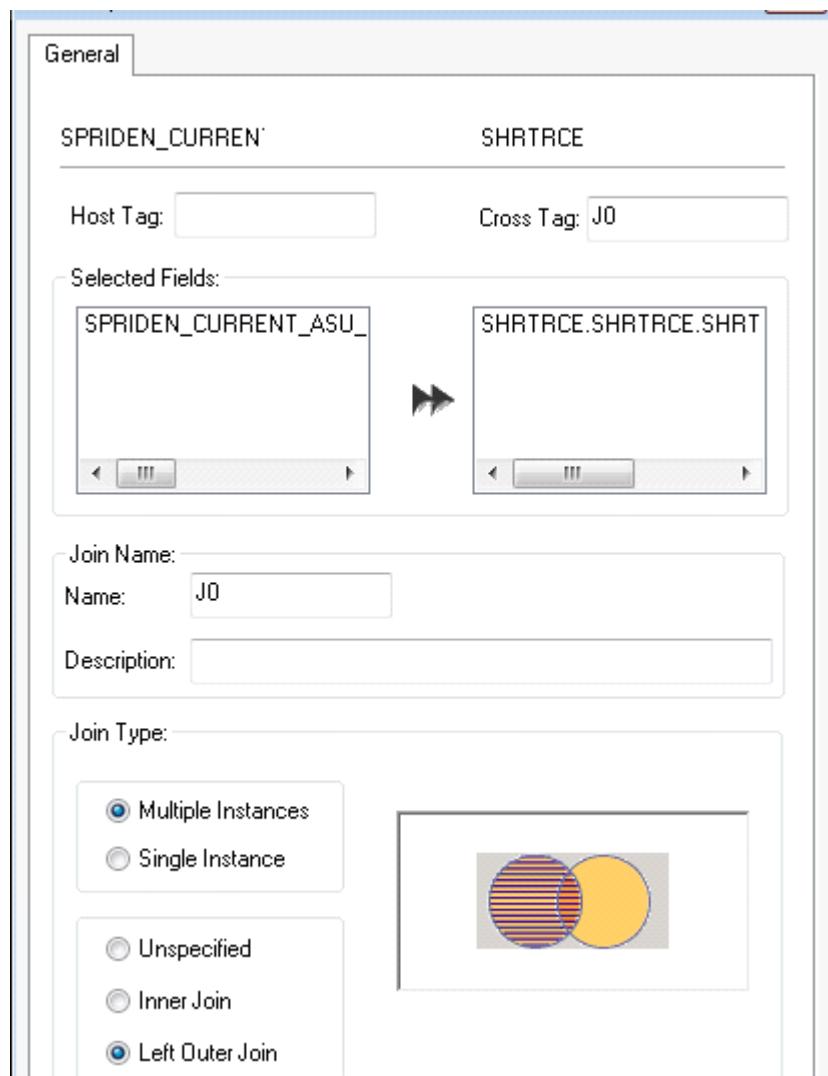
1. Right click on yourname3 and select copy.
2. Right click anywhere in your folder and select paste.
3. Rename yourname31 to yourname62 by right clicking on yourname31 and selecting rename.
4. Double click yourname62
5. Double click the report object in the procedure viewer to open the report for editing.
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



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.



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\_numb, 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.

**Object Inspector**

- SPRIDEN\_DATA\_ORIGIN
- SPRIDEN\_CREATE\_FDMN\_CODE
- SHRTRCE**
  - SHRTRCE\_PIDM
  - SHRTRCE\_TRIT\_SEQ\_NO
  - SHRTRCE\_TRAM\_SEQ\_NO
  - SHRTRCE\_SEQ\_NO
  - SHRTRCE\_TRCR\_SEQ\_NO
  - SHRTRCE\_TERM\_CODE\_EFF
  - SHRTRCE\_LEVEL\_CODE
  - SHRTRCE\_SUBJ\_CODE
  - SHRTRCE\_CRSE\_NUMB
  - SHRTRCE\_CRSE\_TITLE
  - SHRTRCE\_CREDIT\_HOURS

**Expression Builder**

And/Or	Column to filter	Logical Relation	Compare Type	Compare Value
	SHRTRCE_TERM_CODE_EFF	equals	Value	'200940'

**Report Preview**

SIMPLE PERSON LIST

SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	SHRTRCE_SUBJ_CODE	SHRTRCE_CRSE_NUMB	SHRTRCE_CRSE_TITLE
Axxxxxxxxx	Axxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axxxx	Axxxx	Axxxx	Axxxxxxxxxxxxxx
2012						

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
				SOC	1000	THE SOCIOLOGICAL PERSPECTIVE
				TEC	2029	SOCIETY AND TECHNOLOGY
900013422	Stoll	Douglas	Ian	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 the Oracle Reports Report Painter interface. On the left, the 'Object Inspector' pane is open, displaying a tree structure of objects under the node 'SPRIDEN\_CURRENT\_ASU\_V'. The visible items include 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, and SPRIDEN\_COUNTRY\_LAST\_NAME. The main workspace displays a table titled 'SIMPLE PERSON LIST' with the following columns: SPRIDEN\_PIDM, SPRIDEN\_ID, SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, and SPRIDEN\_CHANGE\_IND. The data in the table consists of several rows, each containing a mix of placeholder values ('Axxxxxxxxx', 'Bxxxxxxxxx') and specific names ('Spriden'). The 'SPRIDEN\_ID' column is highlighted with a blue border, indicating it is selected or being edited. The table has a light gray background with alternating row colors.

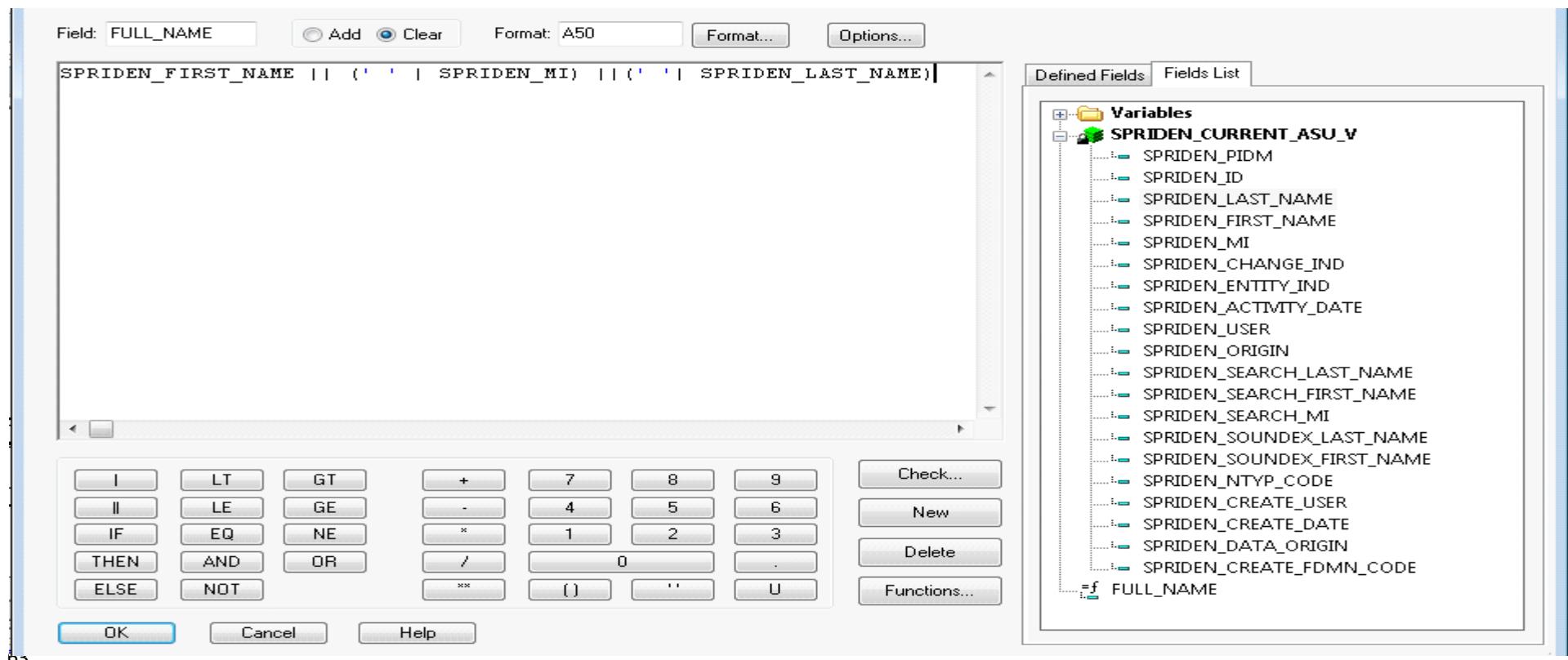
SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	SPRIDEN_CHANGE_IND
0	Axxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	A	A
0	Bxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B
0	Axxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	A
0	Bxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B
0	Axxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	A
0	Bxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B
0	Axxxxx	SPRIDEN_ID	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	A
0	Bxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B
0	Axxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	A
0	Bxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B
0	Axxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	A
0	Bxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B
0	Axxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	A
0	Bxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B
0	Axxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	A
0	Bxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	B

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.



The screenshot shows the DEFINE tool interface. In the top left, the 'Field' box contains 'FULL\_NAME' and the 'Format' box contains 'A50'. The main area displays the expression: SPRIDEN\_FIRST\_NAME || (' | SPRIDEN\_MI) || (' | SPRIDEN\_LAST\_NAME)'. Below this is a numeric keypad and a set of logical operators (I, LT, GT, IF, THEN, ELSE, LE, EQ, NE, AND, OR, etc.). To the right is the Expression Builder window titled 'Defined Fields'. It shows a tree view under 'Variables' with many fields listed, including SPRIDEN\_CURRENT\_ASU\_V, SPRIDEN\_PIDM, SPRIDEN\_ID, SPRIDEN\_LAST\_NAME, SPRIDEN\_FIRST\_NAME, SPRIDEN\_MI, SPRIDEN\_CHANGE\_IND, SPRIDEN\_ENTITY\_IND, SPRIDEN\_ACTVITY\_DATE, SPRIDEN\_USER, SPRIDEN\_ORIGIN, SPRIDEN\_SEARCH\_LAST\_NAME, SPRIDEN\_SEARCH\_FIRST\_NAME, SPRIDEN\_SEARCH\_MI, SPRIDEN\_SOUNDDEX\_LAST\_NAME, SPRIDEN\_SOUNDDEX\_FIRST\_NAME, SPRIDEN\_NTYP\_CODE, SPRIDEN\_CREATE\_USER, SPRIDEN\_CREATE\_DATE, SPRIDEN\_DATA\_ORIGIN, SPRIDEN\_CREATE\_FDMN\_CODE, and FULL\_NAME. The 'f' icon next to 'FULL\_NAME' indicates it is selected. Buttons at the bottom of the dialog include 'OK', 'Cancel', and 'Help'.

1. Click the Check button to Check your syntax.
2. Click OK if you get no errors found.
3. Click OK again to save your defined field. You are returned to the report painter window.
4. Highlight SPRIDEN\_CHANGE\_IND field in the report and delete it.
5. Scroll down in the Object Inspector until you find FULL\_NAME field

6. Double click the FULL\_NAME field to place it in your report.

The screenshot shows the Oracle Reports environment with three main windows:

- Check Dialog:** Shows the "Source:" section with the following PL/SQL code:
 

```
DEFINE FILE SPRIDEN_CURRENT_ASU_V
FULL_NAME/A50=SPRIDEN_FIRST_NAME ||' '|SPRIDEN_MI||' '|SPRIDEN_LAST_NAME;
END
```

 The "Error:" section below says "No errors found." with an "OK" button at the bottom.
- Object Inspector:** A tree view of fields under the node "SPRIDEN". The "FULL\_NAME" field is highlighted with a dotted selection border.
- Report Painter:** Displays a report titled "SIMPLE PERSON LIST" with the following columns and data:
 

SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	FULL_NAME
xxxxxx	0	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxx	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxx	0	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxx	0	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxx	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxx	0	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxx	0	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxx	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxx	0	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxx	0	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxx	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxx	0	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxx	0	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxx	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxx	0	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxx	0	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxx	Axxxxxxxx	Axxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxx	0	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxx	Bxxxxxxxx	Bxxxxxxxxxxxxxxxxxxxxxxxxxxxx

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 shows the Oracle Report Painter application. On the left, the **Object Inspector** pane is open, displaying a tree structure of objects. Under the **Computed Fields** node, there is a selected item named **SPRIDEN\_CURRENT\_ASU\_V**. This field has several sub-items listed under it, including 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\_SEARCH\_LAST\_NAME.

The main workspace is titled **SIMPLE PERSON LIST**. It contains a table with the following columns:

	SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	SPRADDR_STREET_LINE1	SPRADDR_C
Axxxxxx	Axxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx
Bxxxxxx	Bxxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx
	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx
Bxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx
	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx
Bxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx
	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx
Bxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxxxx
	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxxxx

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.

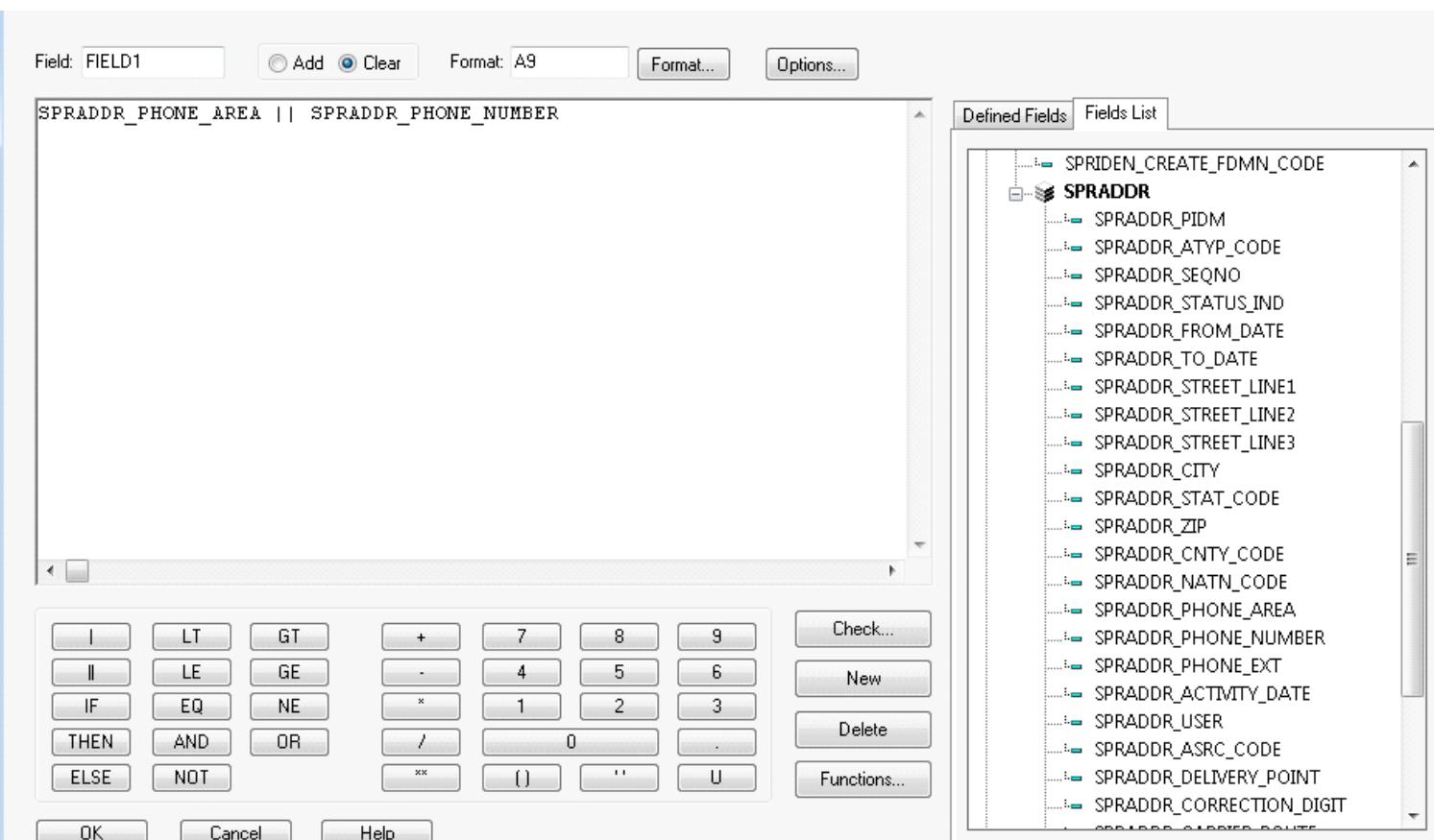
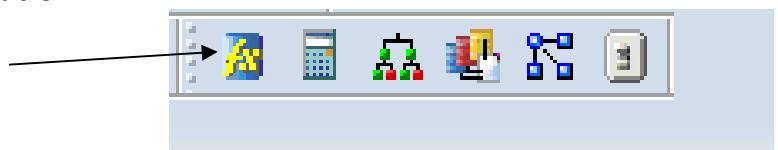
3. Enter FIELD1 in the Field box. Enter A9 in the Format box.

4. Place your cursor in the expression windows.

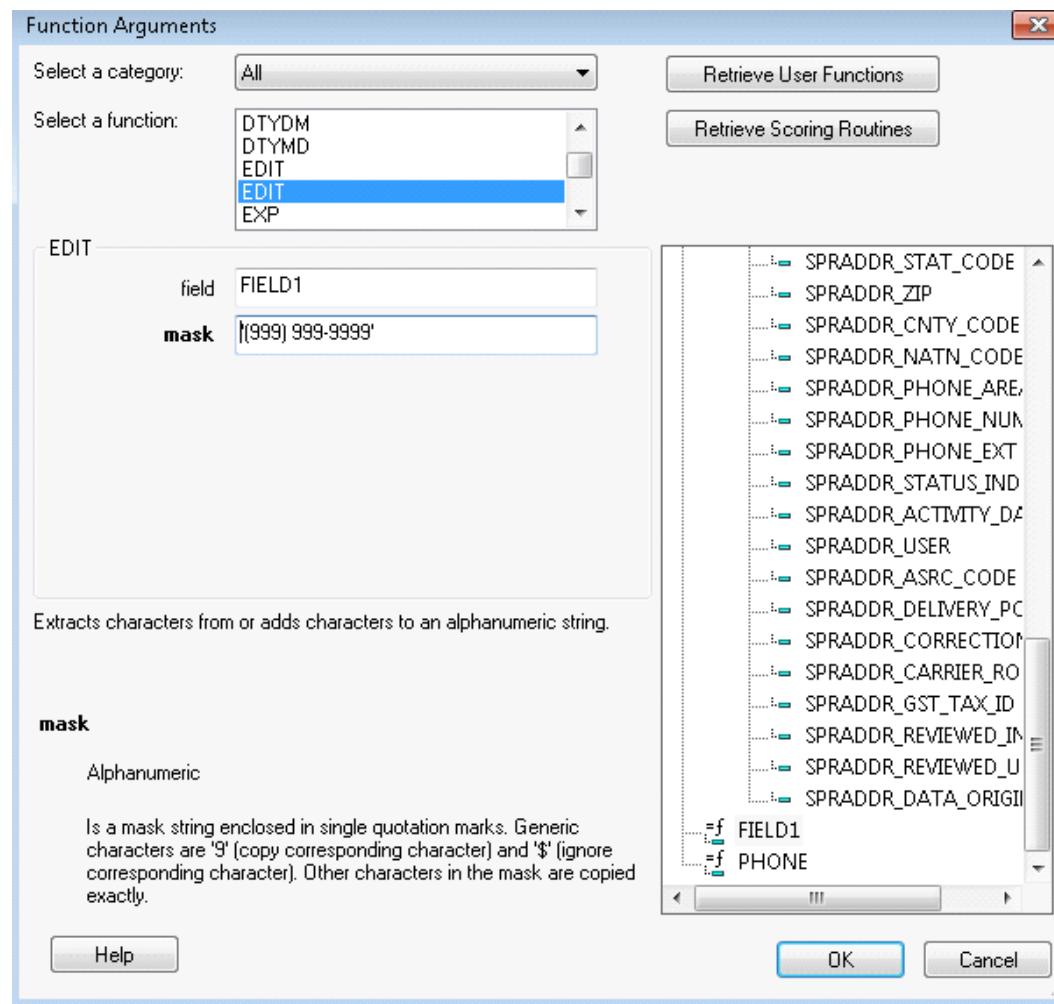
5. Double click SPRADDR\_AREA. Click the || icon.

6. Double click SPRADDR\_PHONE\_NUMBER. Click Check.

7. Click New button. A new define field box is opened.

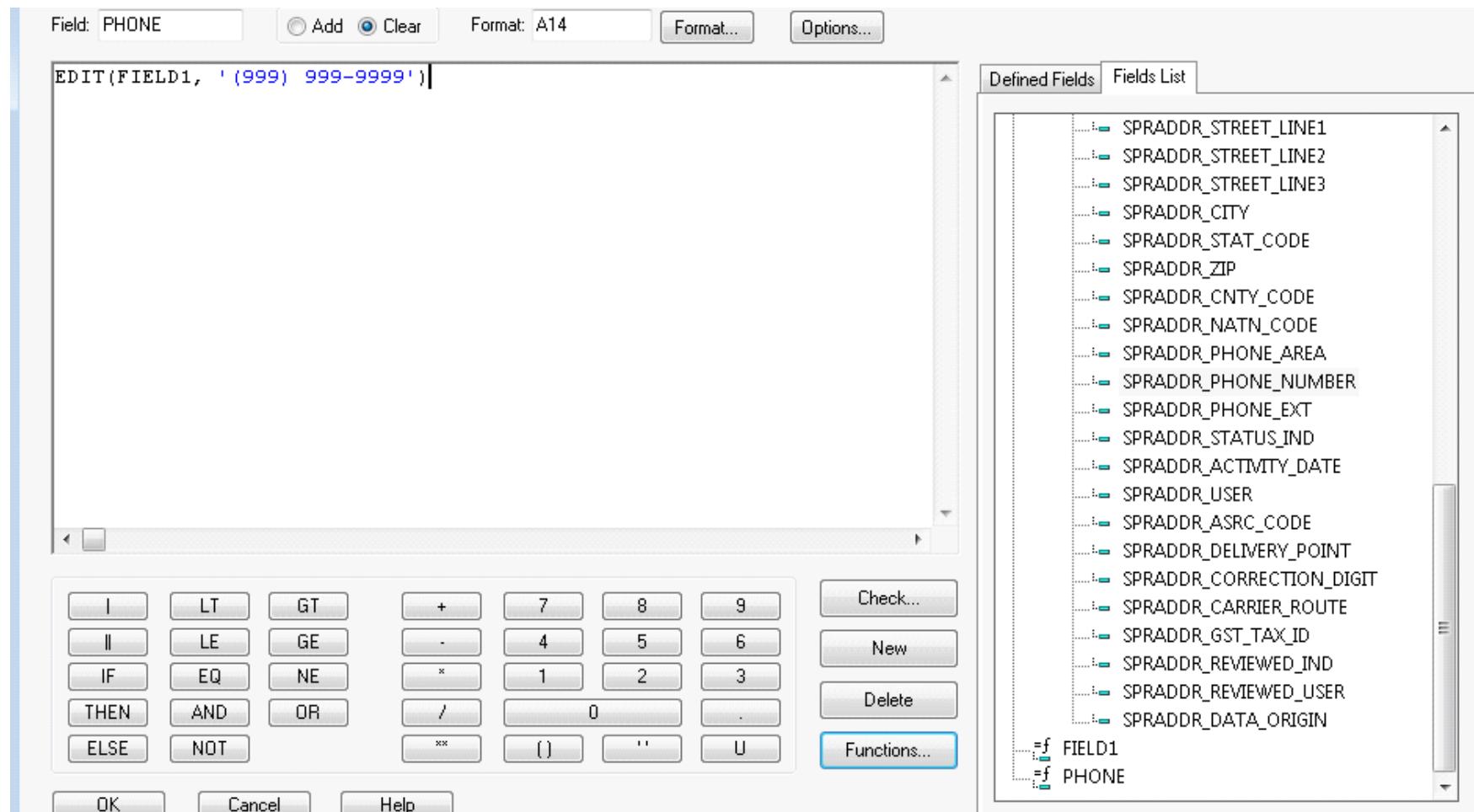


1. Name the field PHONE.
2. Type A14 in the Format box. Place your cursor in the expression box and Click the Functions button.
3. This opens the Functions Arguments window. Scroll down in the Select a Function box to the second EDIT and Select it.
4. Select FIELD1 from the fields list and drag it to 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?

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 shows the Oracle Reports Report Painter interface. The top menu bar includes options like Detail, Sum, By, Across, For, Where/If, Forecast, and various report section buttons. The toolbar below has buttons for HTML, Options, and various report design tools. The font is set to TREBUCHET MS and the size is 9. The bottom toolbar includes buttons for alignment, bold, italic, underline, and other styling options.

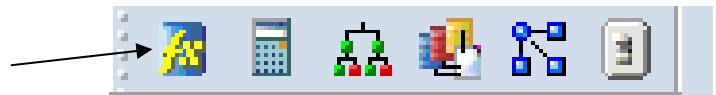
The Object Inspector on the left lists report objects under categories: Special Fields, Variables, Computed Fields, and SARADAP. Under SARADAP, several fields are listed: SARADAP\_PIDM, SARADAP\_TERM\_CODE\_ENTRY, SARADAP\_APPL\_NO, SARADAP\_LEVEL\_CODE, SARADAP\_APPL\_DATE, SARADAP\_APST\_CODE, SARADAP\_APST\_DATE, SARADAP\_MAINT\_IND, SARADAP\_ADMT\_CODE, and SARADAP\_STYP\_CODE.

The main workspace displays a table with four columns:

SARADAP_TERM_CODE_ENTRY	SARADAP_PIDM	SARADAP_STYP_CODE	SARADAP_ADMT_CODE
Axxxxx	0	A	Ax
	0	B	Bx
Bxxxxx	0	A	Ax
	0	B	Bx
	0	A	Ax
	1	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



Define linda73 (SARADAP)

Field: APPLICATION\_DATE Add Clear Format: D12.2 Format...

The 'Format...' button is highlighted with a red arrow.

Date/Time

The 'Date/Time' button in the 'Format' dialog box is highlighted with a red arrow.

Format Types:

- Alphanumeric
- Decimal
- Floating Point
- Packed
- Integer
- VarChar

Length      Decimal  
1 - 20      0 - 18

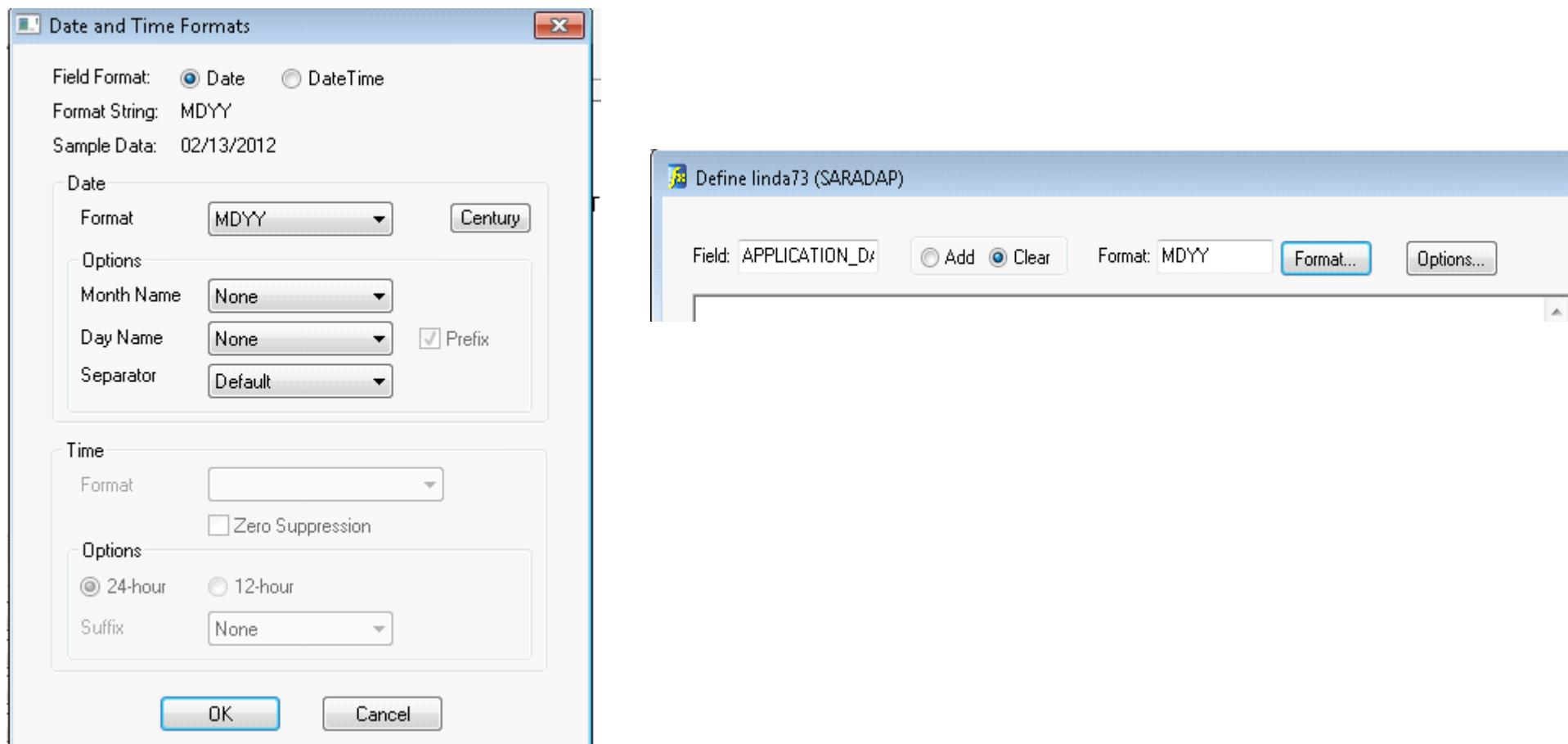
12      2

Add minus sign if value is negative.

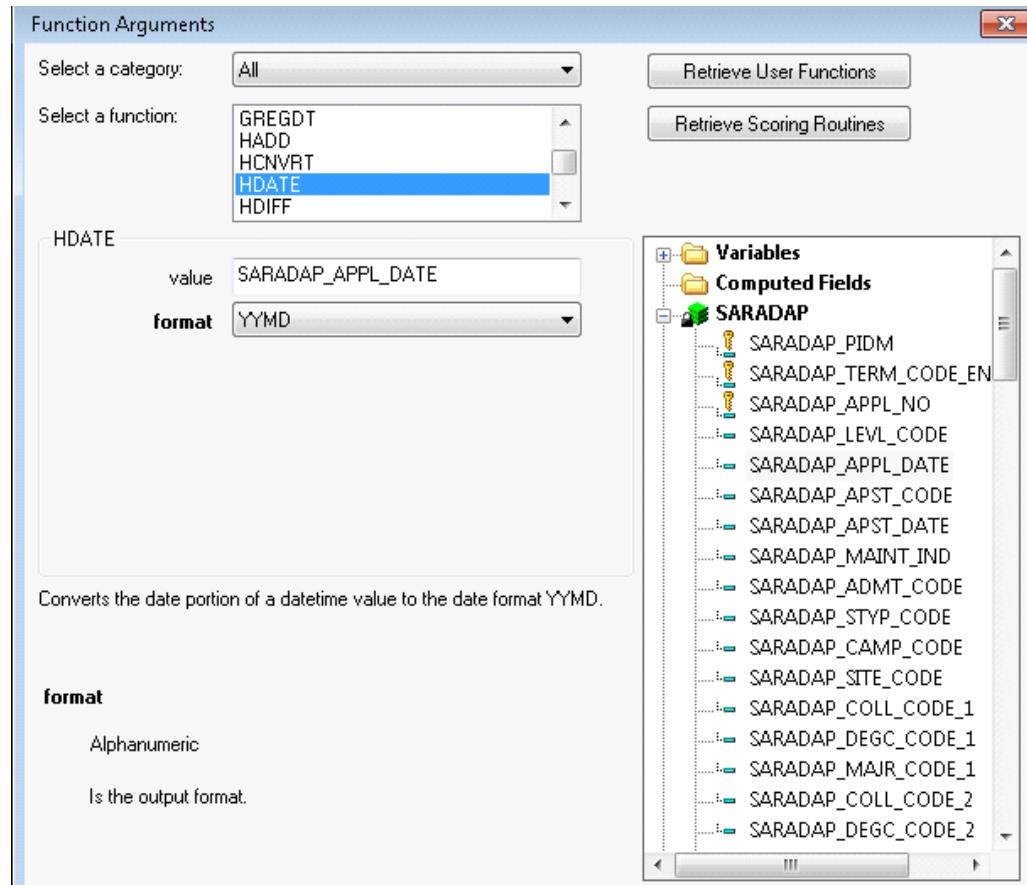
Edit Options:

- Comma Inclusion -- C
- Zero suppression -- S
- Bracket negatives -- B
- Credit negative -- R
- Leading zeros -- L
- Floating dollar -- M
- Non-floating dollar -- N
- Scientific notation -- E
- Percentage -- %
- Comma Suppression -- c
- Fixed dollar sign -- Id
- Floating dollar sign -- Id

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 file now.

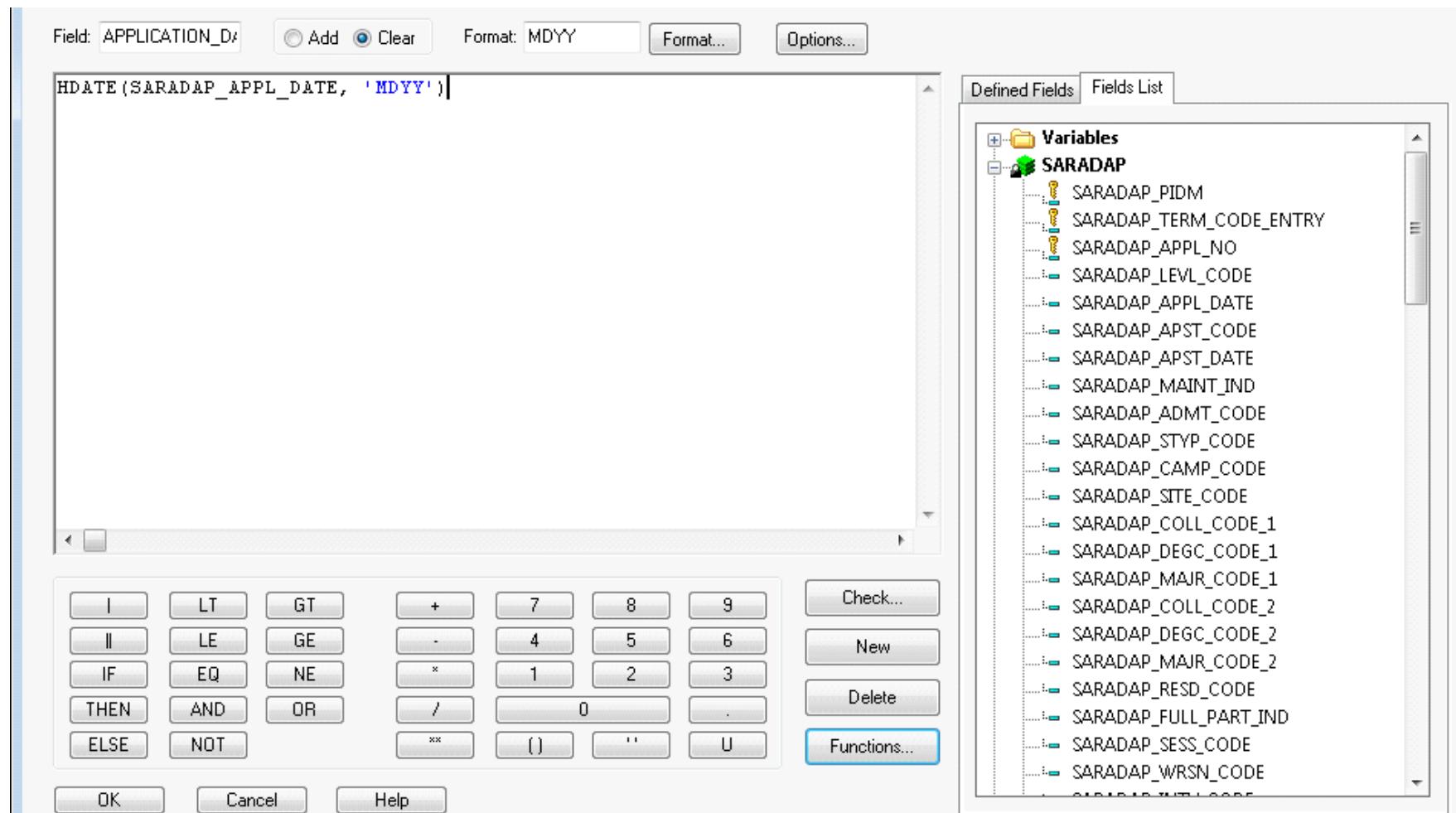


1. Place your cursor in the expression box .
2. Click Functions.
3. Scroll down in the function list until you find HDATE. Highlight HDATE
4. Drag saradap\_appl\_date to the value box
5. Select YYMD from the format list.
6. Click OK

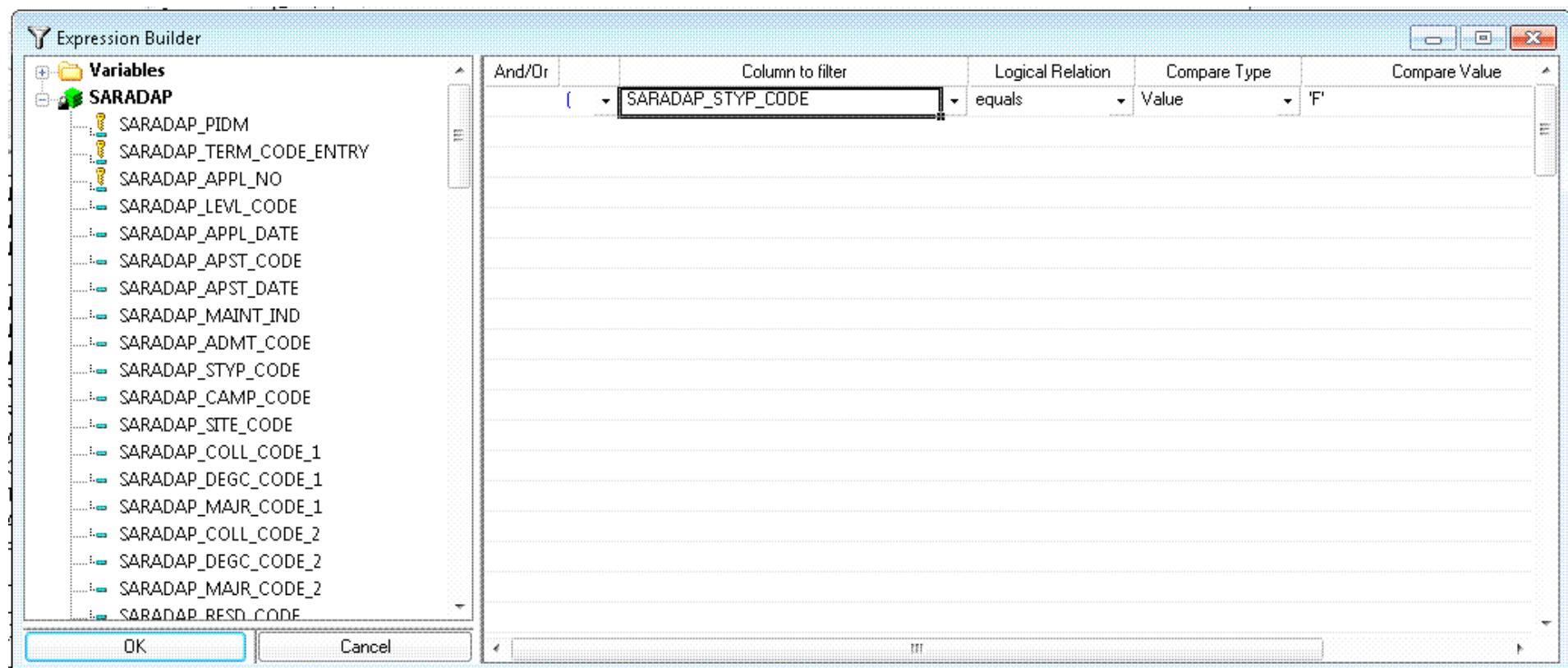


Notice the formats don't match. For a virtual field the format of the result must match the format specified.

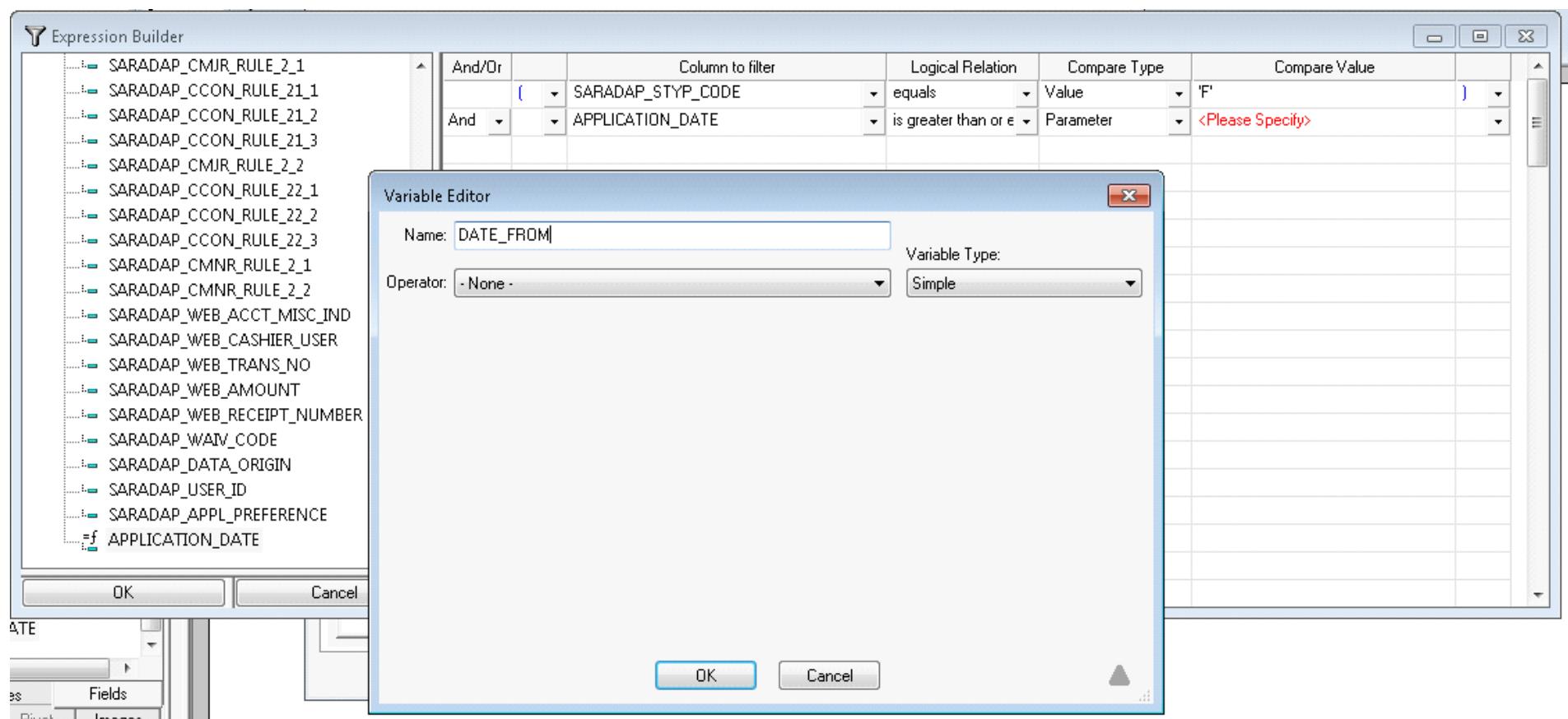
1. Change the Format in the expression window to MDYY
2. Click Check to check the syntax. Click Ok if no Errors



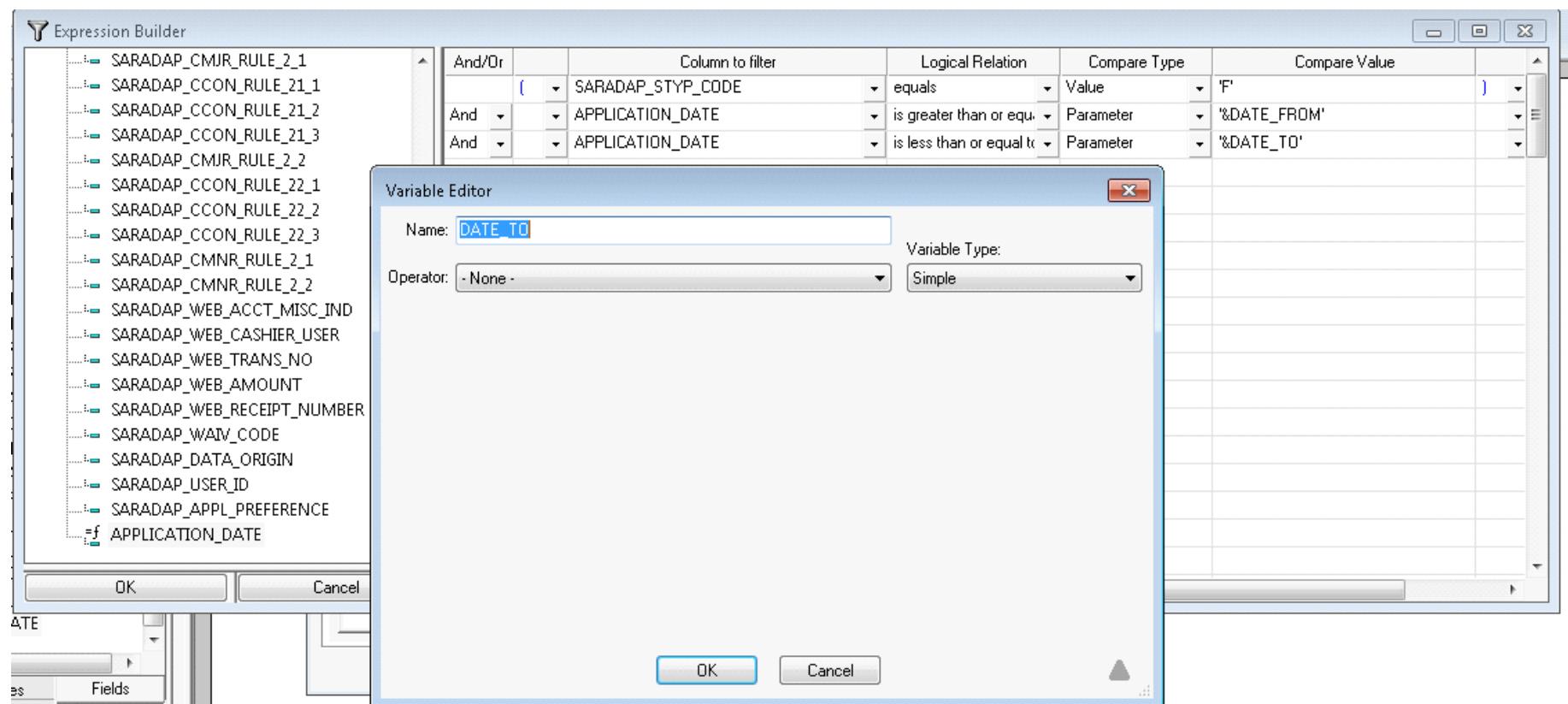
1. Add your new field to your report after saradap\_admt\_code
2. Verify that saradap\_term\_code\_entry and saradap\_pidm are by fields and the other fields in the report are detail.
3. Click Where/If in the columns toolbar.
4. Click Assist
5. Delete saradap\_term\_code\_entry from the expression builder.
6. You should only have saradap\_styp\_code remaining.



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
<input type="button" value="Run"/>	<input type="button" value="Reset"/>
<input type="button" value="Clear Output"/> <input checked="" type="checkbox"/> 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

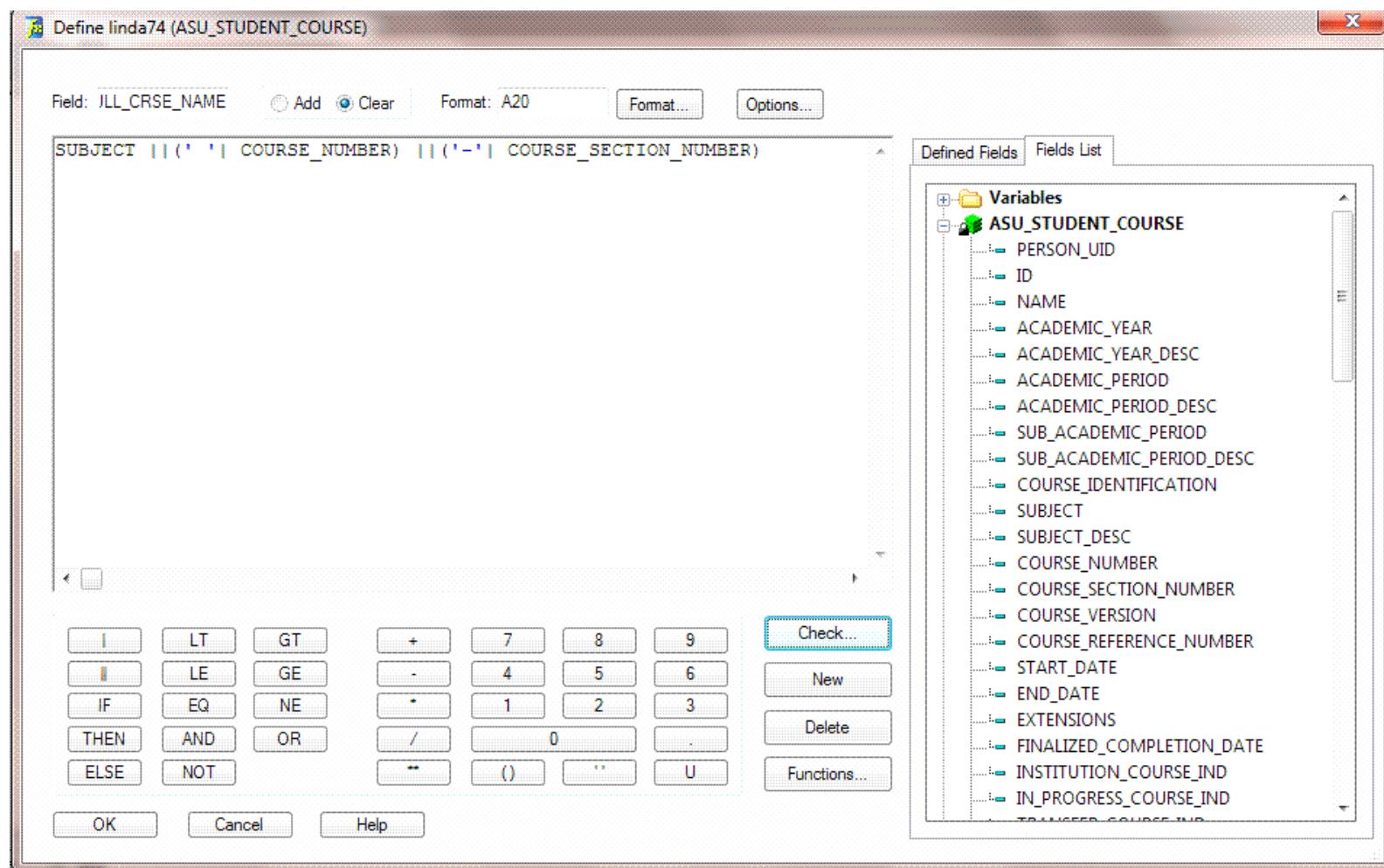
1. This time you are going to create a report from scratch.
2. Right click in your folder and select new -> procedure.
3. Name the procedure yourname74 and click create.
4. Click on the diamond in the procedure viewer and select Report.
5. Select ASU\_STUDENT\_COURSE from the Table list.
6. Add NAME,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

The screenshot shows a software interface for creating reports. At the top is a menu bar with File, Edit, Insert, Properties, Report, View, Command, Window, Help. Below the menu is a toolbar with various icons for file operations like Open, Save, Print, and a magnifying glass. A second toolbar below it contains buttons for Detail, Sum, By, Across, For, Where/If, Forecast, and a dropdown for One variable for each selected column. Further down are buttons for Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, Totals, and SubFooting. The main area has tabs for BY (selected), HTML, Options, and a set of icons for report design. On the left is an Object Inspector window listing fields: COURSE\_REFERENCE\_NUMBER, START\_DATE, END\_DATE, EXTENSIONS, FINALIZED\_COMPLETION\_DATE, INSTITUTION\_COURSE\_IND, IN\_PROGRESS\_COURSE\_IND, TRANSFER\_COURSE\_IND, REGISTRATION\_STATUS, and REGISTRATION\_STATUS\_DESC. To the right is a table view with columns NAME, ID, and COLLEGE\_DESC. The COLLEGE\_DESC column is highlighted with a red border. The table contains several rows of data, each starting with 'A' or 'B' followed by a series of 'x's.

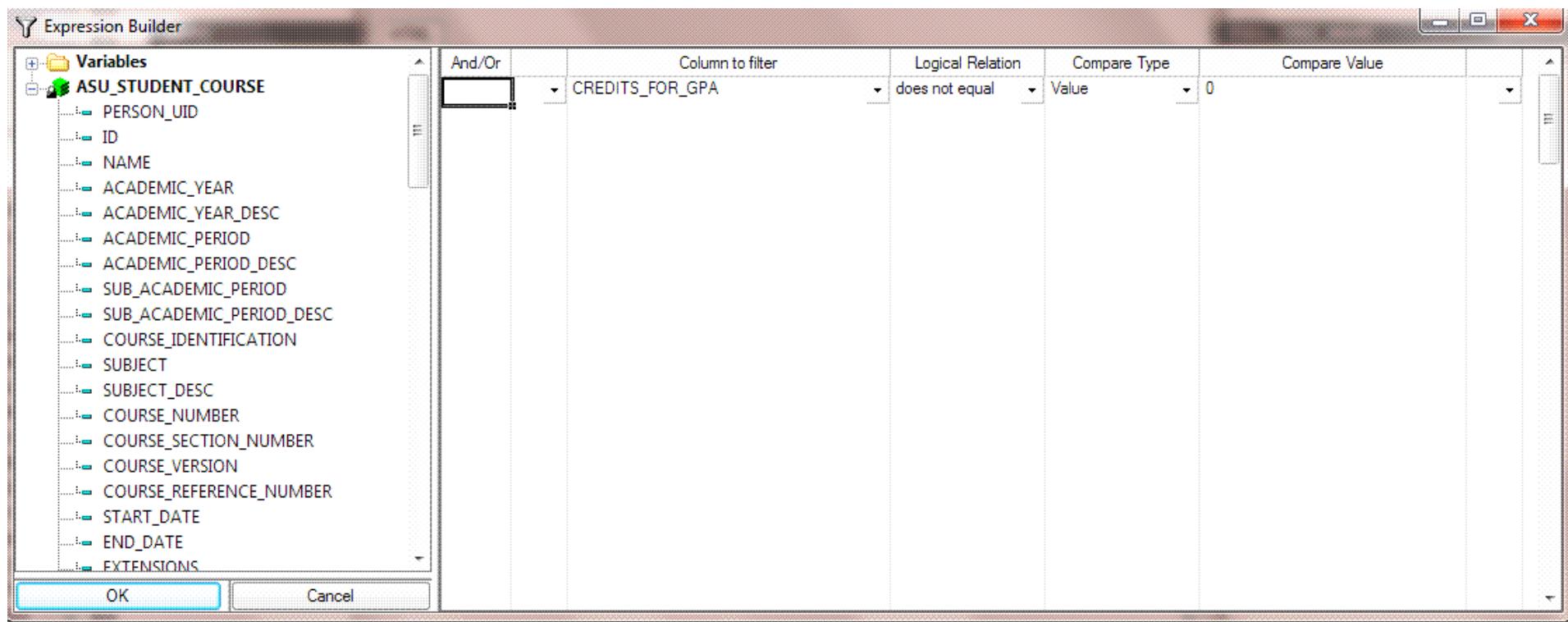
NAME	ID	COLLEGE_DESC
Axxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Axxxxxxxxxxxxxx
Bxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx
Bxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx
Axxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx
Bxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx
Bxxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx

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.

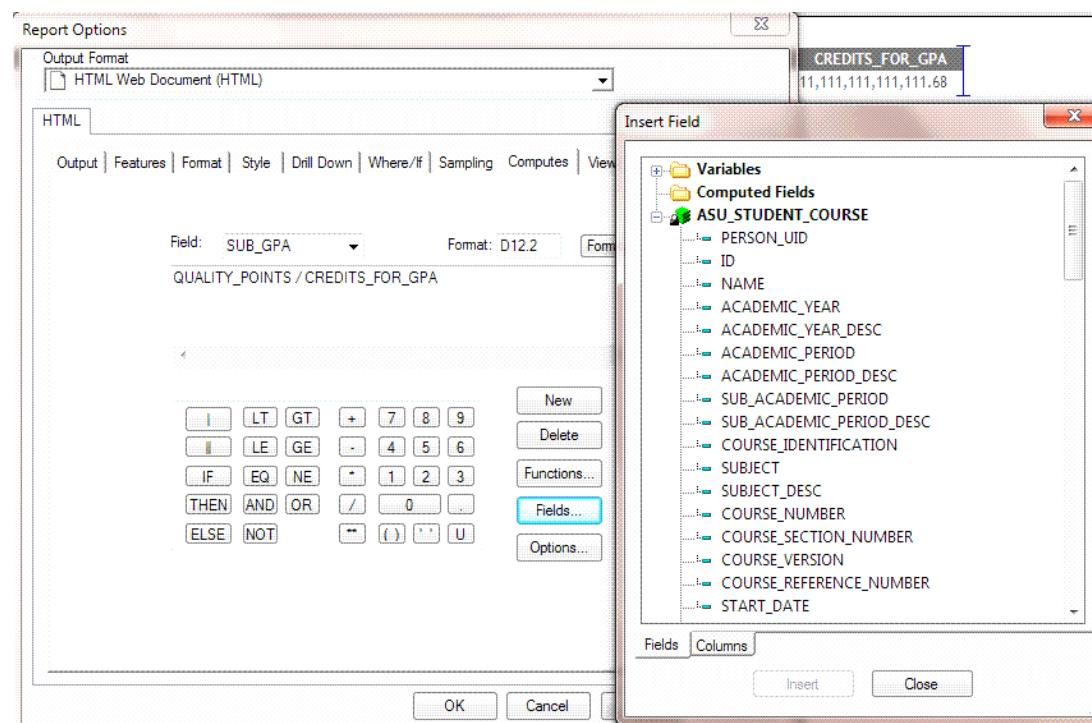


1. Add FULL\_CRSE\_NAME to the report after the college. This should be a BY field also.
2. Place your cursor after the FULL\_CRSE\_NAME field and click the detail button
3. Add QUALITY\_POINTS and CREDITS\_FOR\_GPA
4. Click the Where/IF button on the columns toolbar.
5. Set retrieval limits to 1000
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 shows the WebFOCUS Report Designer environment. On the left is the 'Object Inspector' pane listing various database fields such as COLLEGE, COLLEGE\_DESC, DEPARTMENT, etc. The main workspace displays a report structure with columns: COLLEGE\_DESC, FULL\_CRSE\_NAME, QUALITY\_POINTS, CREDITS\_FOR\_GPA, and SUB\_GPA. Below this, a preview window shows a list of student records with columns: NAME, ID, COLLEGE\_DESC, FULL\_CRSE\_NAME, QUALITY\_POINTS, CREDITS\_FOR\_GPA, and SUB\_GPA. The preview window has a title bar indicating the URL is <http://wfclientmre-test.appstate.edu:8080/ibi>.

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	.	LAW 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.

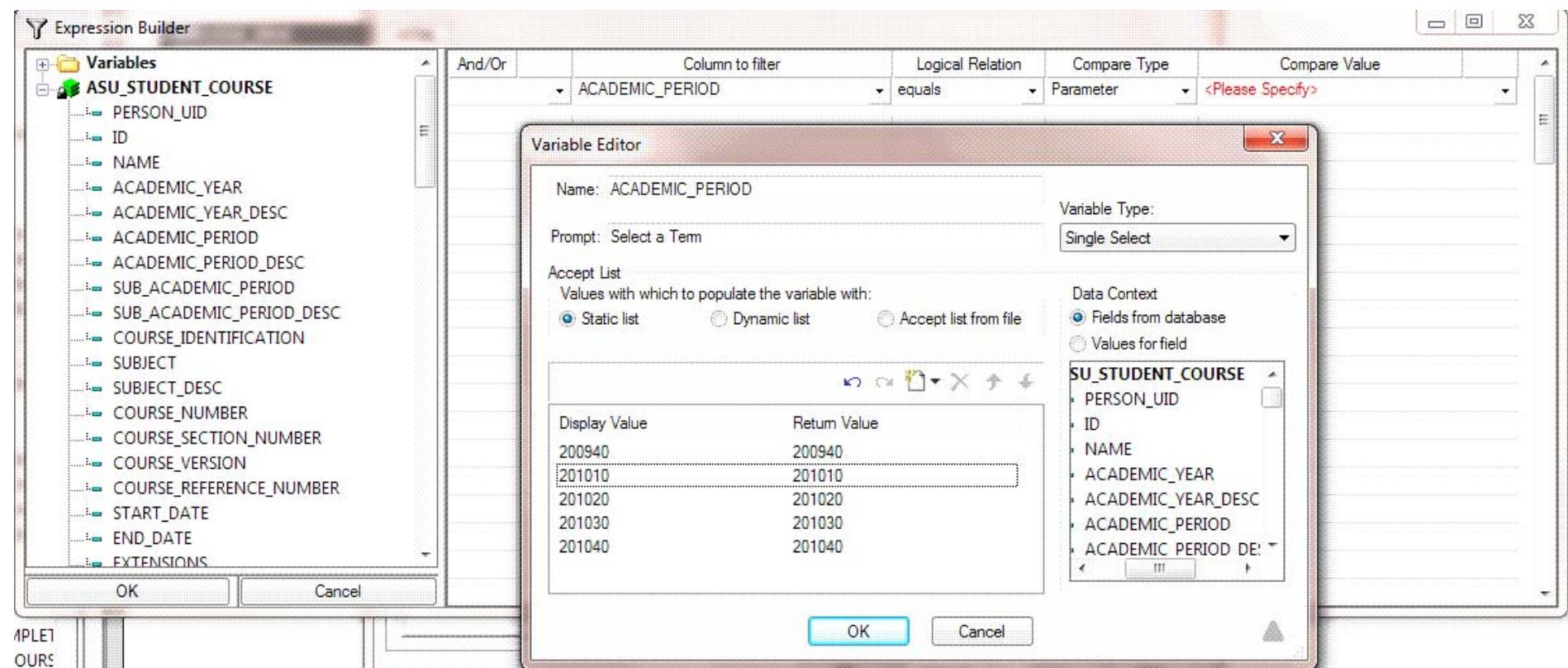
The screenshot shows the Oracle Report Painter application window. The menu bar includes File, Edit, Insert, Properties, Report, View, Command, Window, and Help. The toolbar contains various icons for report creation and modification. The ribbon bar includes Detail, Sum, By, Across, For, Where/If, Forecast, and a dropdown for 'One variable for each selected column'. Below the ribbon are buttons for Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, Totals, and SubFooting. The 'BY' button is selected. The bottom toolbar includes options for BY, HTML, Options, and various report layout and style tools. The main area is divided into two sections: the Object Inspector on the left and the report design area on the right. The Object Inspector lists fields such as HOURS\_ATTENDED, FINAL\_GRADE, GRADE\_VALUE, GRADE\_CHANGE\_REASON, MID\_TERM\_GRADE, INCOMPLETE\_EXT\_DATE, FINAL\_GRADE\_DATE, and FINAL\_GRADE\_BILL. The report design area displays a table with two columns: COLLEGE\_DESC and FULL\_CRSE\_NAME. The data for COLLEGE\_DESC is 'Axxxxxxxxxxxxx' and 'Bxxxxxxxxxxxxx'. The data for FULL\_CRSE\_NAME is 'Axxxxxxxxxxxxxxxxxxxx' and 'Bxxxxxxxxxxxxxxxxxxxx'. A red box highlights the COLLEGE\_DESC column in the report table.

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

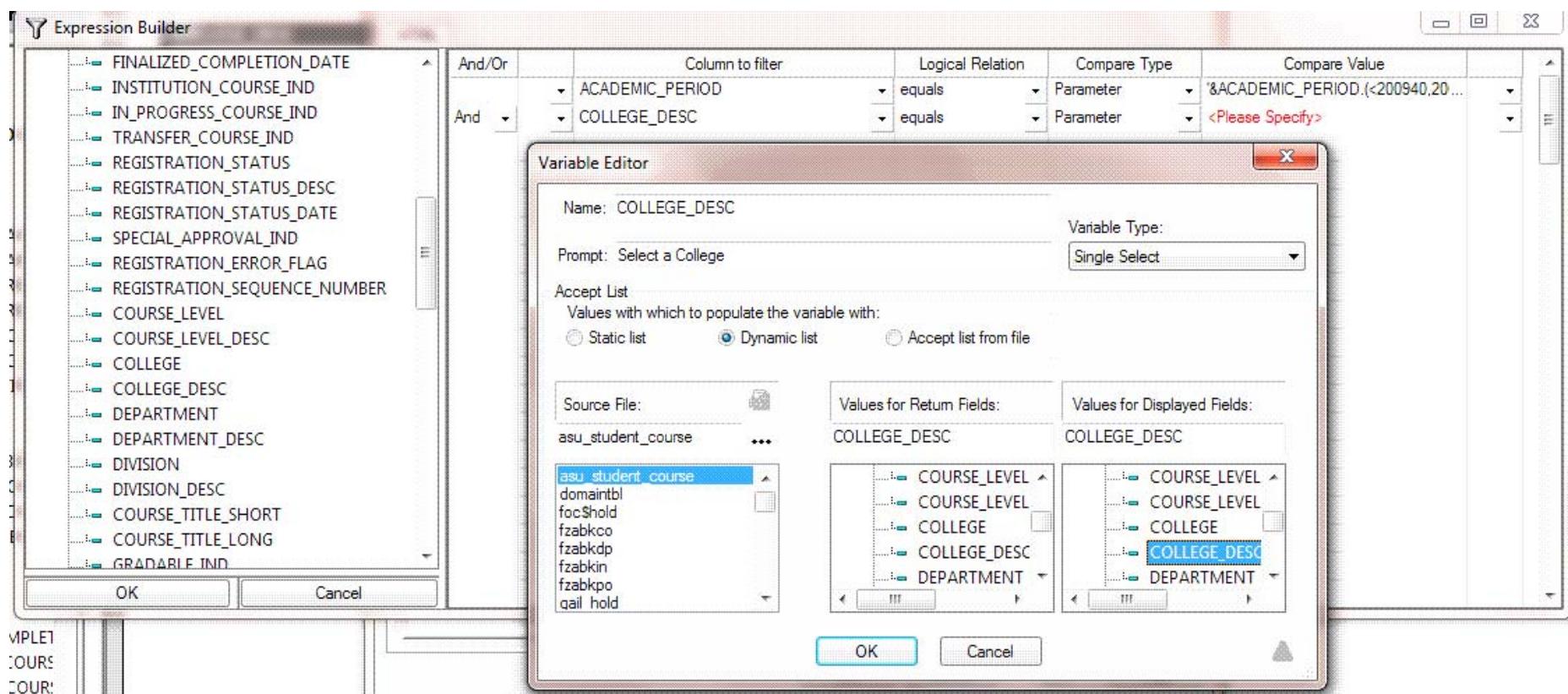
The screenshot shows a reporting application with the following components:

- Toolbar:** Includes File, Edit, Insert, Properties, Report, View, Command, Window, Help menus. Buttons for Detail, Sum, By, Across, For, Where/If, Forecast, and One variable for each selected column. Icons for Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, Totals, SubFootings, and Options.
- General Toolbar:** Includes CNT.DST dropdown, HTML, Options, and various font and style buttons.
- Object Inspector:** Shows a tree view of fields under ASU\_STUDENT\_COURSE:
  - Special Fields
  - Variables
  - Computed Fields
  - ASU\_STUDENT\_COURSE
    - PERSON\_UID
    - ID
    - NAME
    - ACADEMIC\_YEAR
    - ACADEMIC\_YEAR\_DE
    - ACADEMIC\_PERIOD
    - ACADEMIC\_PERIOD\_I
    - SUB\_ACADEMIC\_PER
    - SUB\_ACADEMIC\_PER
    - COURSE\_IDENTICA
    - SUBJECT
    - SUBJECT\_DESC
    - COURSE\_NUMBERS
- Report Preview:** A table with columns COLLEGE\_DESC, Course, and Number of Students. Data rows show 'A' and 'B' with their respective course codes and student counts. A context menu is open over the 'Number of Students' cell for row 'B', listing options like Options..., Delete, Fonts, Fixed Column Width, Invisible, Edit Variable Fields..., Column Title..., Format..., Visualize..., and Order Report By.

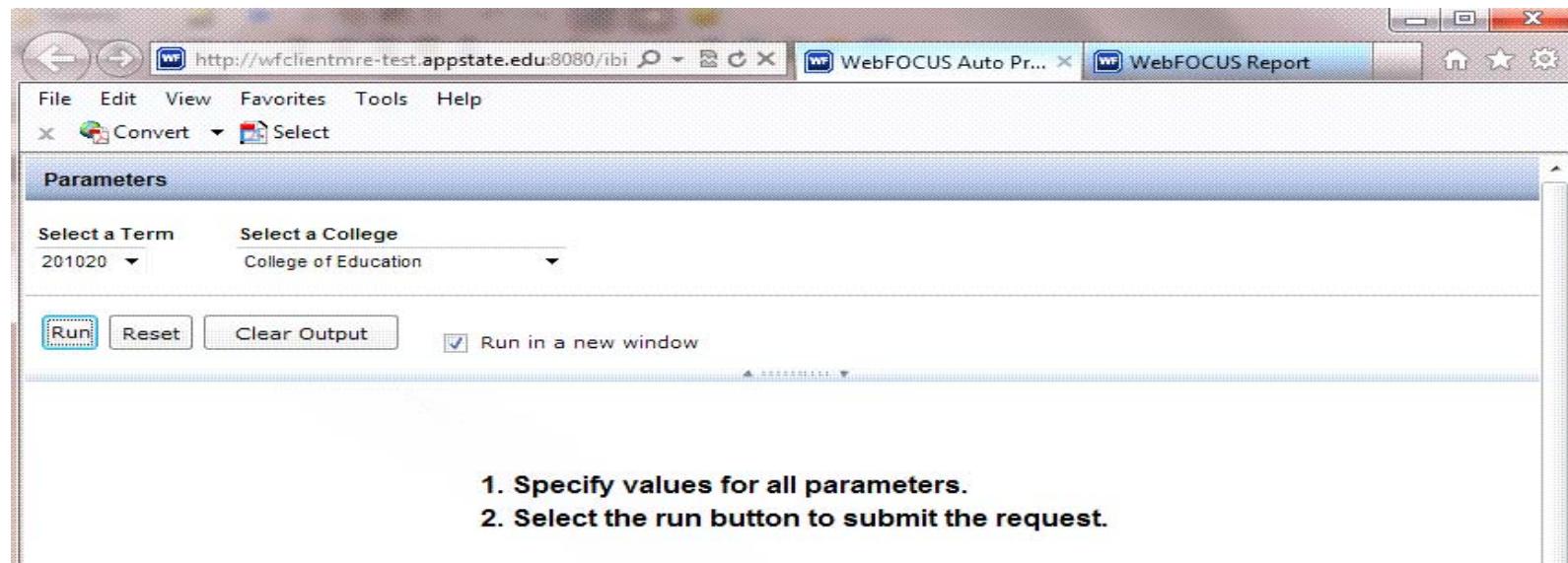
1. Click the Retrieval Limits tab and remove the limits you had set in the previous report.
2. Click the Where/IF button in the columns toolbar and delete the WHERE CREDITS\_FOR\_GPA NE 0.
3. Click Assist.
4. Add ACADEMIC\_PERIOD to Column to Filter. Select Equals for Logical Relation. Select Parameter 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. Selectasu\_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.



The screenshot shows a web browser window with the URL [http://wfclientmre-test.appstate.edu:8080/ibi\\_apps/WFSe](http://wfclientmre-test.appstate.edu:8080/ibi_apps/WFSe). The title bar says "WebFOCUS Auto Prompting Facility". The menu bar includes File, Edit, View, Favorites, Tools, Help, Convert, and Select. The main content area displays a table with the following data:

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

## Exercise 9.1 Styling and Output

1. Right click on yourname8 and select copy.
2. Right click anywhere in your folder and select paste.
3. Right click on yourname81 and select rename. Rename yourname81 to yourname9.
4. Double click yourname9 to open the procedure viewer.
5. Double click on the report object to open the report in the report painter.

The screenshot shows the Oracle Reports Report Painter interface. The menu bar includes File, Edit, Insert, Properties, Report, View, Command, Window, and Help. The toolbar includes various report design tools like Detail, Sum, By, Across, For, Where/If, Forecast, and a button for One variable for each selected column. Below the toolbar are tabs for Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, Totals, and SubFooting. The main area shows a table with three columns: COLLEGE\_DESC, Course, and Number of Students. The table has four rows. The first row contains 'Axxxxxxxxxxxxxx' in COLLEGE\_DESC, 'Axxxxxxxxxxxxxx' in Course, and '11111' in Number of Students. The second row contains 'Bxxxxxxxxxxxxxx' in COLLEGE\_DESC, 'Bxxxxxxxxxxxxxx' in Course, and '11111' in Number of Students. The third row contains 'Axxxxxxxxxxxxxx' in COLLEGE\_DESC, 'Axxxxxxxxxxxxxx' in Course, and '11111' in Number of Students. The fourth row contains 'Bxxxxxxxxxxxxxx' in COLLEGE\_DESC, 'Bxxxxxxxxxxxxxx' in Course, and '11111' in Number of Students. The bottom left corner shows the Object Inspector with sections for Special Fields, Variables, Computed Fields, and ASU\_STUDENT\_COURSE. Under ASU\_STUDENT\_COURSE, fields PERSON\_UID, ID, NAME, and ACADEMIC\_YEAR are listed.

COLLEGE_DESC	Course	Number of Students
Axxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	11111
Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	11111
Axxxxxxxxxxxxxx	Axxxxxxxxxxxxxx	11111
Bxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxx	11111

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.

The screenshot shows a reporting application with the following interface elements:

- Toolbar:** File, Edit, Insert, Properties, Report, View, Command, Window, Help.
- Tool Buttons:** Detail, Sum, By, Across, For, Where/If, Forecast, One variable for each selected column.
- Report Structure:** Report Heading (selected), Page Footing, Report Footing, SubHeading, SubTotal, Totals, SubFooting.
- Font and Style:** PDF, Options, Times New Roman, 16, Bold, Italic, Underline, etc.
- Object Inspector:** Special Fields, Variables, Computed Fields, ASU\_STUDENT\_COURSE (selected), showing fields: PERSON\_UID, ID, NAME, ACADEMIC\_YEAR.
- Report Preview:** A preview window titled "Number of Students in a Class" showing a table with columns: COLLEGE\_DESC, Course, and Number of Students. The data shows four rows for College of Music (Axxxxxx) and four rows for School of Music (Bxxxxxx).
- Output Preview:** Below the preview window, a smaller preview shows the final report layout with the title "Number of Students in a Class" and a table with the same data as the preview window.

COLLEGE_DESC	Course	Number of Students
Axxxxxx	Axxxxxx	11111
Axxxxxx	Bxxxxxx	11111
Bxxxxxx	Axxxxxx	11111
Bxxxxxx	Bxxxxxx	11111

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

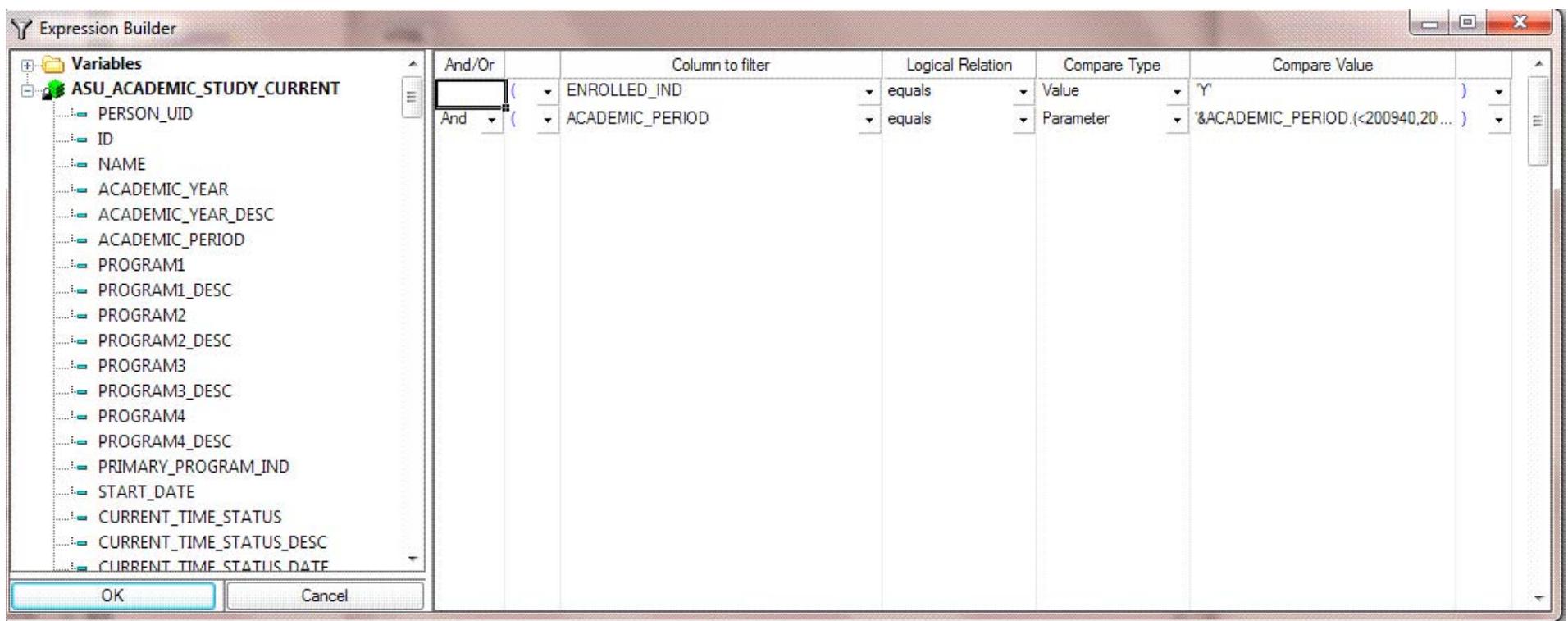
## Exercise 9.2 Visualize

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

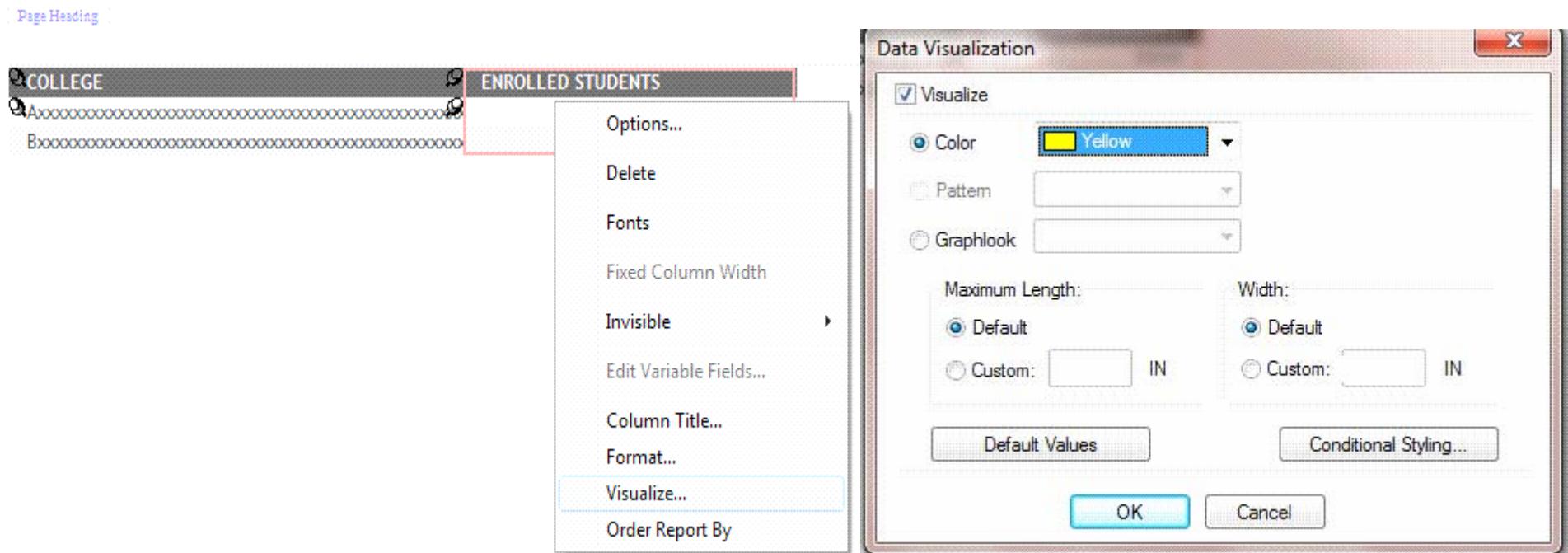
The screenshot shows a reporting application window with the following components:

- Menu Bar:** File, Edit, Insert, Properties, Report, View, Command, Window, Help.
- Toolbar:** Detail, Sum, By, Across, For, Where/If, Forecast, One variable for each selected column.
- Tool Buttons:** Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, Totals, SubFootings.
- Text Fields:** CNT, HTML.
- Font and Style Buttons:** Options, Font (TREBUCHET MS), Size (9), Bold (B), Italic (I), Underline (U), Font Color (F).
- Object Inspector:** Shows a tree view of fields:
  - Special Fields
  - Variables
  - Computed Fields
  - ASU\_ACADEMIC\_STUDY
    - PERSON\_UID
    - ID
    - NAME
    - ACADEMIC\_YEAR
- Report Preview:** A table with two columns: COLLEGE and ENROLLED STUDENTS. The COLLEGE column contains two rows with placeholder data (Axxxxx and Bxxxxx). The ENROLLED STUDENTS column contains two rows with the value 11111. The entire column is highlighted with a red border.

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.



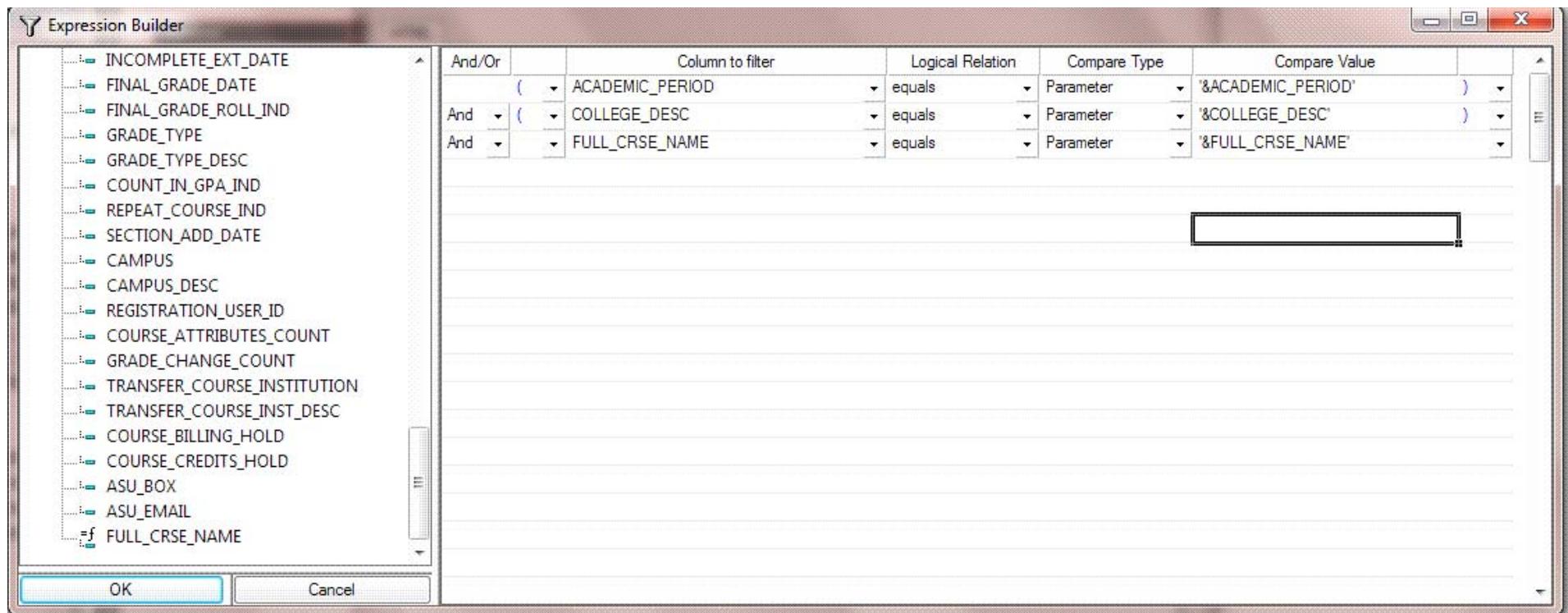
### Exercise 9.3 DRILL-DOWN

1. Right click on yourname8 and select copy. Right click anywhere in your folder and select paste.
2. Right click on yourname81 and rename to yourname93.
3. Right click on yourname8 once again and select copy. Right click anywhere in your folder and select paste.
4. Right click on yourname81 and rename to yourname93detail.
5. Double click yourname93detail to open in the procedure viewer .
6. Double click the report object to open in the report painter.

The screenshot shows the Oracle Reports Report Painter 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 creation and modification. The toolbar buttons include Detail, Sum, By, Across, For, Where/If, Forecast, and a dropdown for 'One variable for each selected column'. Below the toolbar are several tabs: Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, Totals, and SubFooting. The main workspace shows an 'Object Inspector' on the left with a tree view containing 'Special Fields', 'Variables', 'Computed Fields', and a selected node 'ASU\_STUDENT\_COURSE' which has children 'PERSON\_UID', 'ID', 'NAME', and 'ACADEMIC\_YEAR'. To the right of the object inspector is a data grid displaying four rows of data. The columns are labeled 'COLLEGE\_DESC', 'Course', and 'Number of Students'. The data is as follows:

COLLEGE_DESC	Course	Number of Students
Axxxxxx	Axxxxxxxxxxxxx	11111
Bxxxxxx	Bxxxxxxxxxxxxx	11111
	Axxxxxxxxxxxxx	11111
	Bxxxxxxxxxxxxx	11111

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.

Screenshot of Oracle Reports Report Painter interface showing the configuration of a report object.

The toolbar at the top includes: File, Edit, Insert, Properties, Report, View, Command, Window, Help, Detail, Sum, By, Across, For, Where/If, Forecast, One variable for each selected column, Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, Totals, SubFooting, BY, HTML, Options, and various styling and layout tools.

The Object Inspector on the left shows the report structure:

- ASU\_STUDENT\_COURSE (selected)
- PERSON\_UID
- ID
- NAME
- ACADEMIC\_YEAR
- ACADEMIC\_YEAR\_DE
- ACADEMIC\_PERIOD
- ACADEMIC\_PERIOD\_I
- SUB\_ACADEMIC\_PER
- SUB\_ACADEMIC\_PER
- COURSE\_IDENTIFI
- SUBJECT
- SUBJECT\_DESC
- COURSE\_NUMBER
- COURSE\_SECTION\_N
- COURSE\_VERSION
- COURSE\_DESCRIPTION

The main area displays a table with the following data:

ACADEMIC_PERIOD	COLLEGE_DESC	Course	Number of Students
Bxxxxxx	Axxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxx	11111
Bxxxxxx	Bxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxx	11111
Bxxxxxx	Axxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxx	11111
Bxxxxxx	Bxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxx	11111
Bxxxxxx	Axxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxx	11111
Bxxxxxx	Bxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxx	11111
Bxxxxxx	Axxxxxxxxxxxxxxx	Axxxxxxxxxxxxxxx	11111
Bxxxxxx	Bxxxxxxxxxxxxxxx	Bxxxxxxxxxxxxxxx	11111

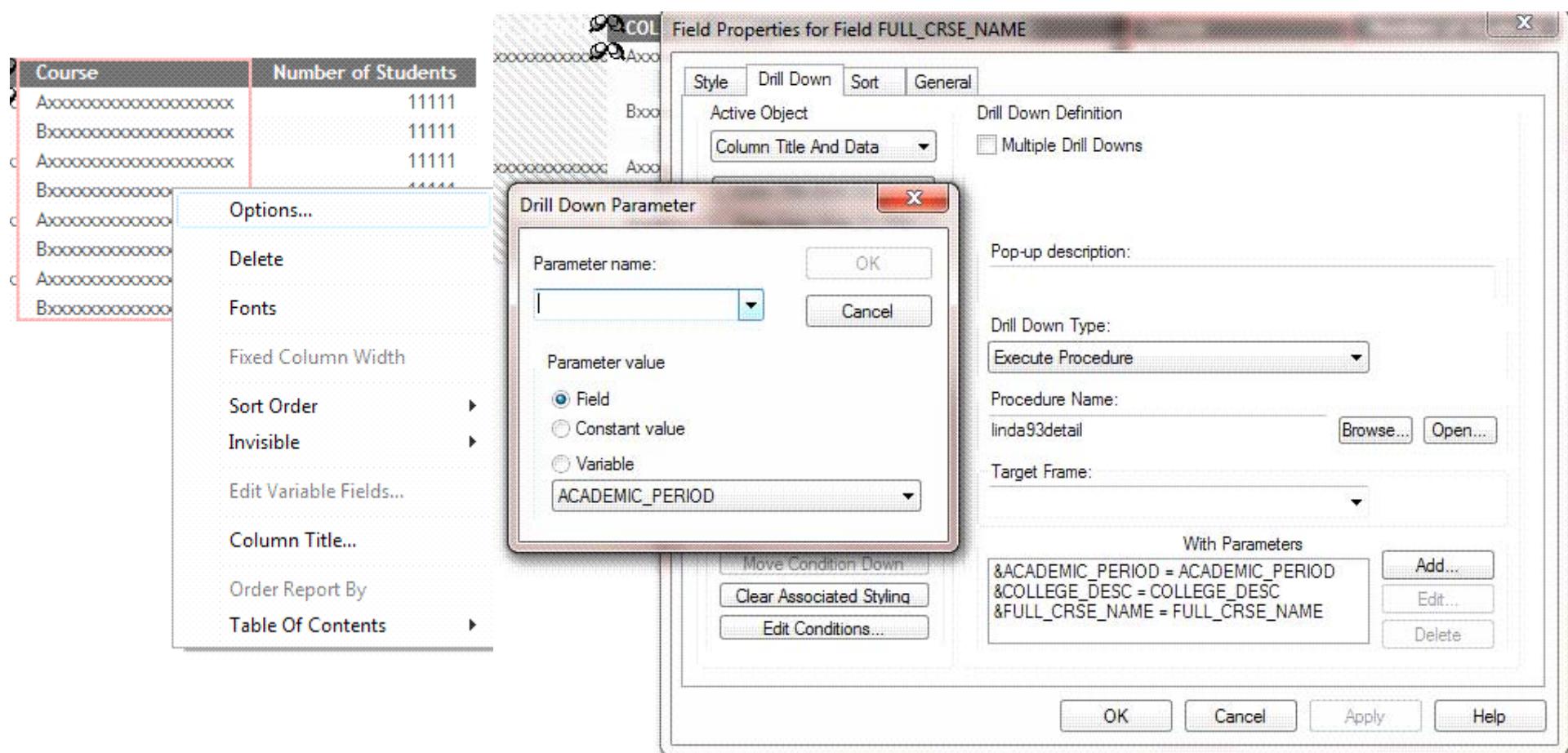
A context menu is open over the first row of the table, specifically over the 'ACADEMIC\_PERIOD' column. The menu options include:

- Options...
- Delete
- Fon
- Fixed Column Width
- Sort Order
- Invisible
- Edit Variable Fields...
- Column Title...
- Order Report By
- Table Of Contents

The 'Invisible' option is highlighted with a red border, and a sub-menu for 'Invisible' is displayed with the following options:

- On (selected)
- Off
- Variable

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.

File Edit View Favorites Tools Help

X Convert ▾ Select

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.
	Oleary, Katelyn N.
	Reine, Jared A.
	Rhodes, Andrew B.
	Sineath, Scott J.
	Singleton, Millard R.
	Smith, Jenna T.
	Steky, Laura J.
	Swaim, Lindsay E.

## Exercise 10.1 HOLD File

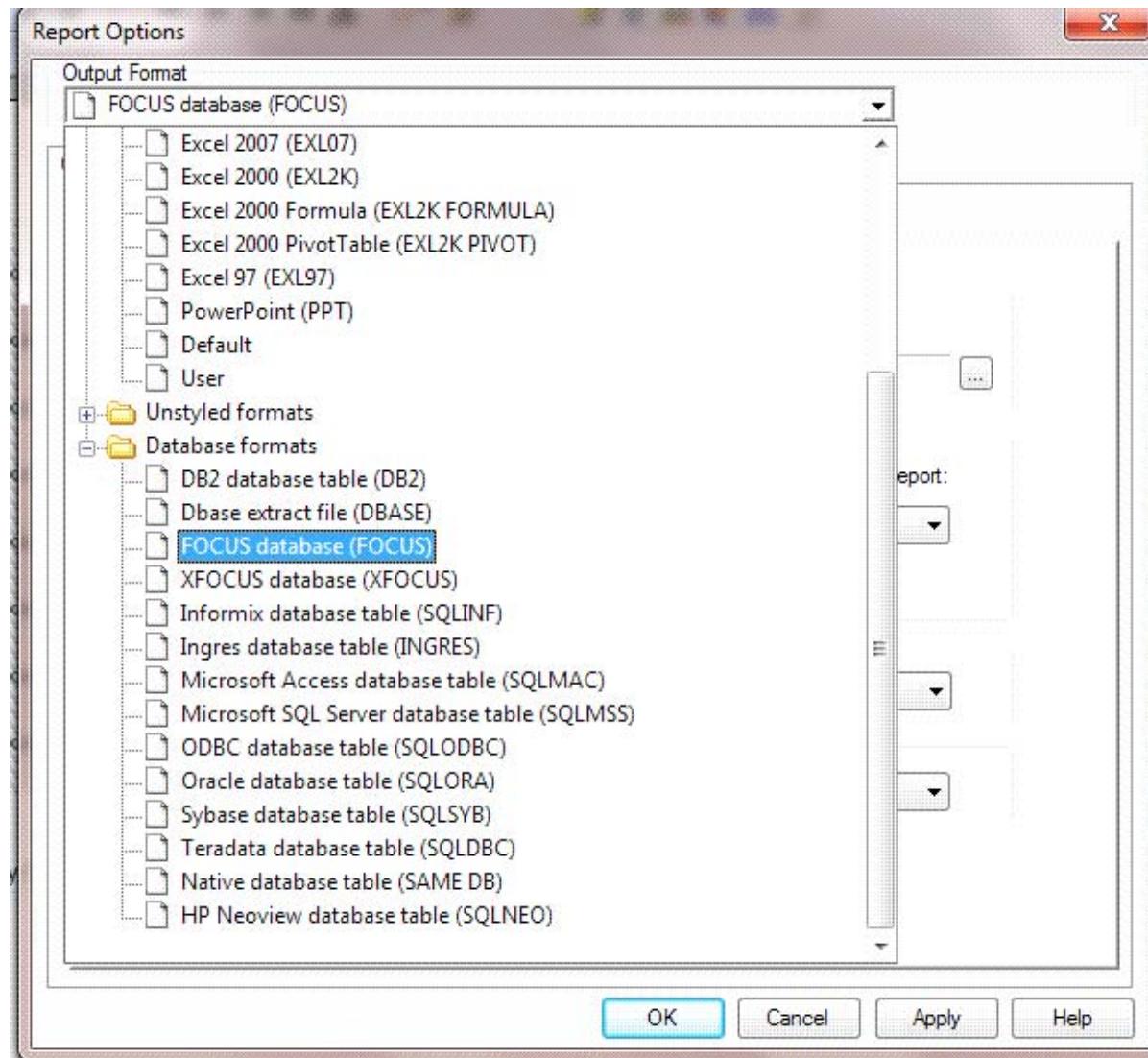
1. Right Click on yourname71 and select copy. Right click anywhere in your folder and select paste.
2. Right click on yourname711 and select rename. Rename to yourname10.
3. Double click yourname10 to open in the procedure viewer.
4. Double click the report object to open it in the report painter.

The screenshot shows the Report Painter interface with the following details:

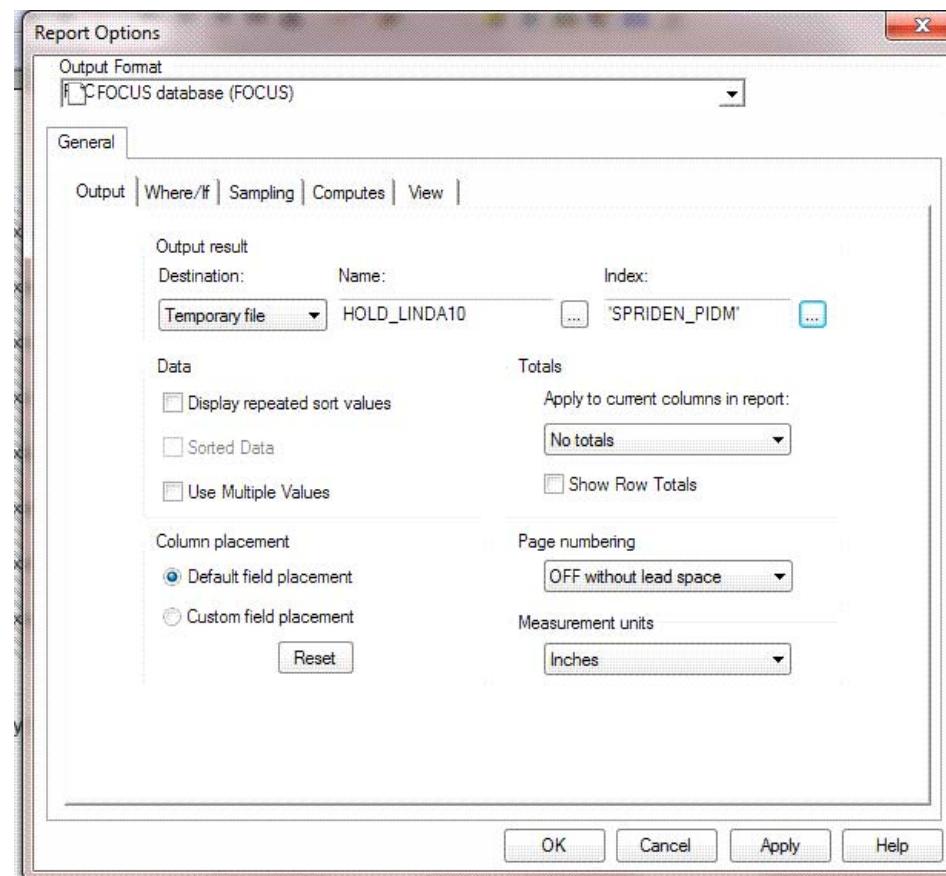
- Title Bar:** Developer Studio - [Report Painter linda10 (SPRIDEN\_CURRENT\_ASU\_V)]
- Menu Bar:** File, Edit, Insert, Properties, Report, View, Command, Window, Help
- Toolbar:** includes icons for Detail, Sum, Across, For, Where/If, Forecast, One variable for each selected column, Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, SubTotals, SubFootings, SubFootings, Options, and a large magnifying glass icon.
- Font and Style Buttons:** TREBUCHET MS, 9pt, A, B, I, U, F, and various color and style icons.
- Object Inspector:** Shows the structure of the report:
  - 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
    - SPRIDEN\_SEARCH\_FIRST
    - SPRIDEN\_SOUNDDEX\_M1
    - SPRIDEN\_SOUNDDEX\_LAST
    - SPRIDEN\_SOUNDDEX\_FIRST
    - SPRIDEN\_NTYP\_CODE
    - SPRIDEN\_CREATE\_USER
    - SPRIDEN\_CREATE\_DATE
    - SPRIDEN\_DATA\_ORIGIN
    - SPRIDEN\_CREATE\_FDMN
    - FULL\_NAME
- Report Preview Area:** Displays the report titled "SIMPLE PERSON LIST". The data is presented in a grid format with the following columns:

SPRIDEN_PIDM	SPRIDEN_ID	SPRIDEN_LAST_NAME	SPRIDEN_FIRST_NAME	SPRIDEN_MI	FULL_NAME
0	Axxxxxx	Bxxxxxx	Bxxxxxx	Bxxxxxx	Axxxxxx Bxxxxxx
0	Bxxxxxx	0	Axxxxxx	Axxxxxx	Bxxxxxx Axxxxxx
0	Bxxxxxx	0	Bxxxxxx	Bxxxxxx	Bxxxxxx Bxxxxxx
0	Axxxxxx	Bxxxxxx	0	Axxxxxx	Axxxxxx Bxxxxxx
0	Bxxxxxx	0	Bxxxxxx	Bxxxxxx	Bxxxxxx Bxxxxxx
0	Axxxxxx	Bxxxxxx	0	Axxxxxx	Axxxxxx Bxxxxxx
0	Bxxxxxx	0	Bxxxxxx	Bxxxxxx	Bxxxxxx Bxxxxxx
0	Axxxxxx	Bxxxxxx	0	Axxxxxx	Axxxxxx Bxxxxxx
0	Bxxxxxx	0	Axxxxxx	Axxxxxx	Bxxxxxx Axxxxxx
0	Bxxxxxx	0	Bxxxxxx	Bxxxxxx	Bxxxxxx Bxxxxxx
0	Axxxxxx	Bxxxxxx	0	Axxxxxx	Axxxxxx Bxxxxxx
0	Bxxxxxx	0	Axxxxxx	Axxxxxx	Bxxxxxx Axxxxxx
0	Bxxxxxx	0	Bxxxxxx	Bxxxxxx	Bxxxxxx Bxxxxxx
0	Axxxxxx	Bxxxxxx	0	Axxxxxx	Axxxxxx Bxxxxxx
0	Bxxxxxx	0	Bxxxxxx	Bxxxxxx	Bxxxxxx Bxxxxxx
0	Axxxxxx	Bxxxxxx	0	Axxxxxx	Axxxxxx Bxxxxxx
0	Bxxxxxx	0	Axxxxxx	Axxxxxx	Bxxxxxx Axxxxxx
0	Bxxxxxx	0	Bxxxxxx	Bxxxxxx	Bxxxxxx Bxxxxxx
- Page Footing:** PREPARED ON: February 16, 2012
- Bottom Bar:** Includes icons for Report, Source, Images, Matrix, and a status bar showing NUM, 2:51 PM, and 2/16/2012.

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.



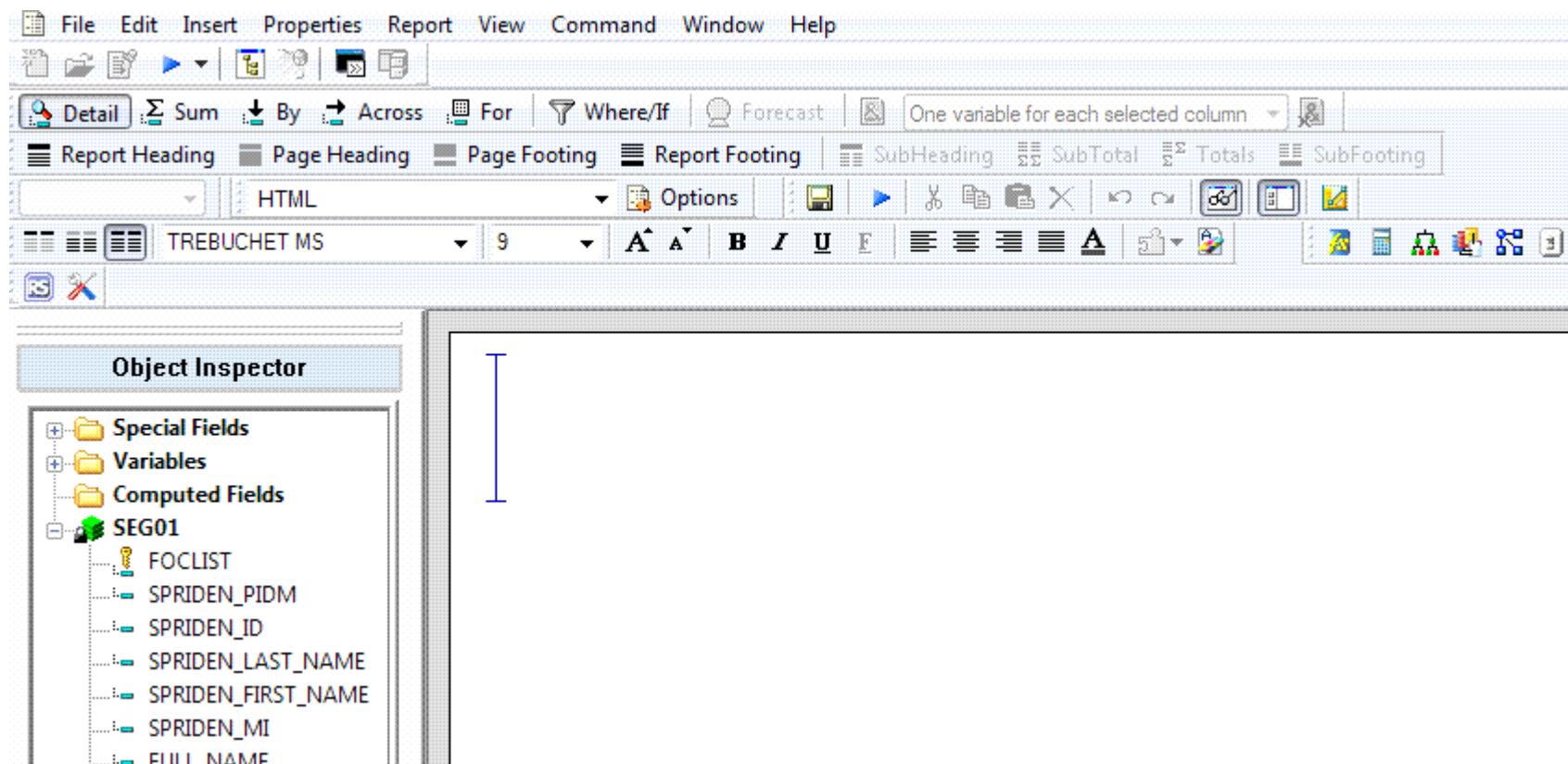
1. In the Output result area. Leave Destination Temporary file.
2. In the Name box leave the HOLD and add \_YOURNAME10. (HOLD\_LINDA10)
3. In the Index box click the ... button and select SPRIDEN\_PIDM.
4. Click Apply then OK.
5. Notice the Output Format changes to FOCUS for your report.
6. Run the report. 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.

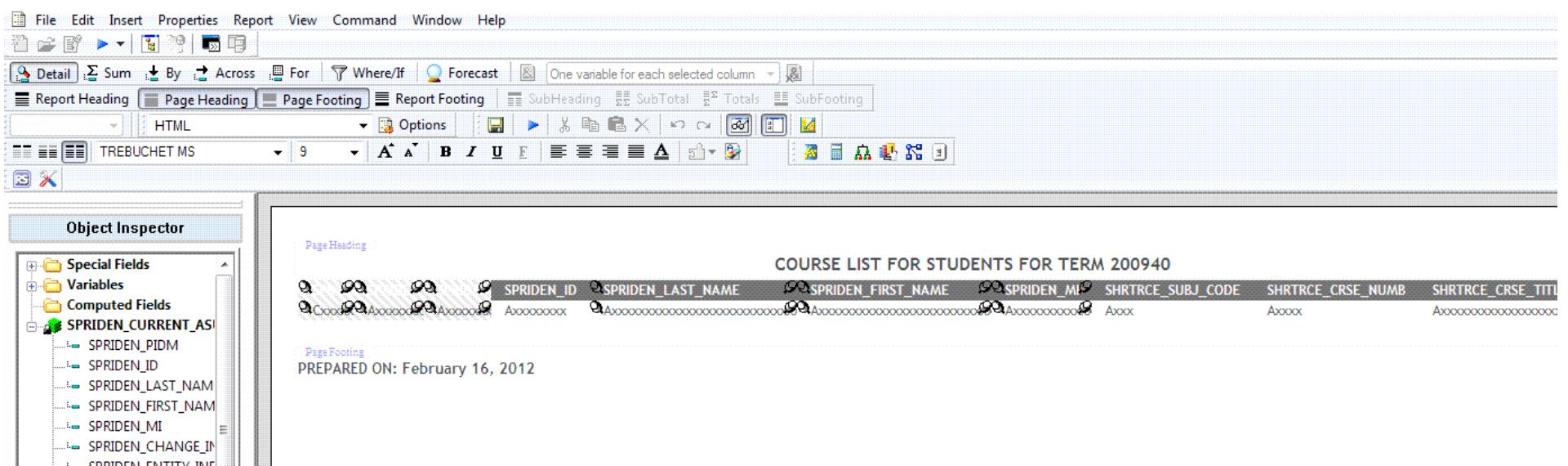
This can be very helpful if you need a subset of a table to work with in your report.

Close the report.

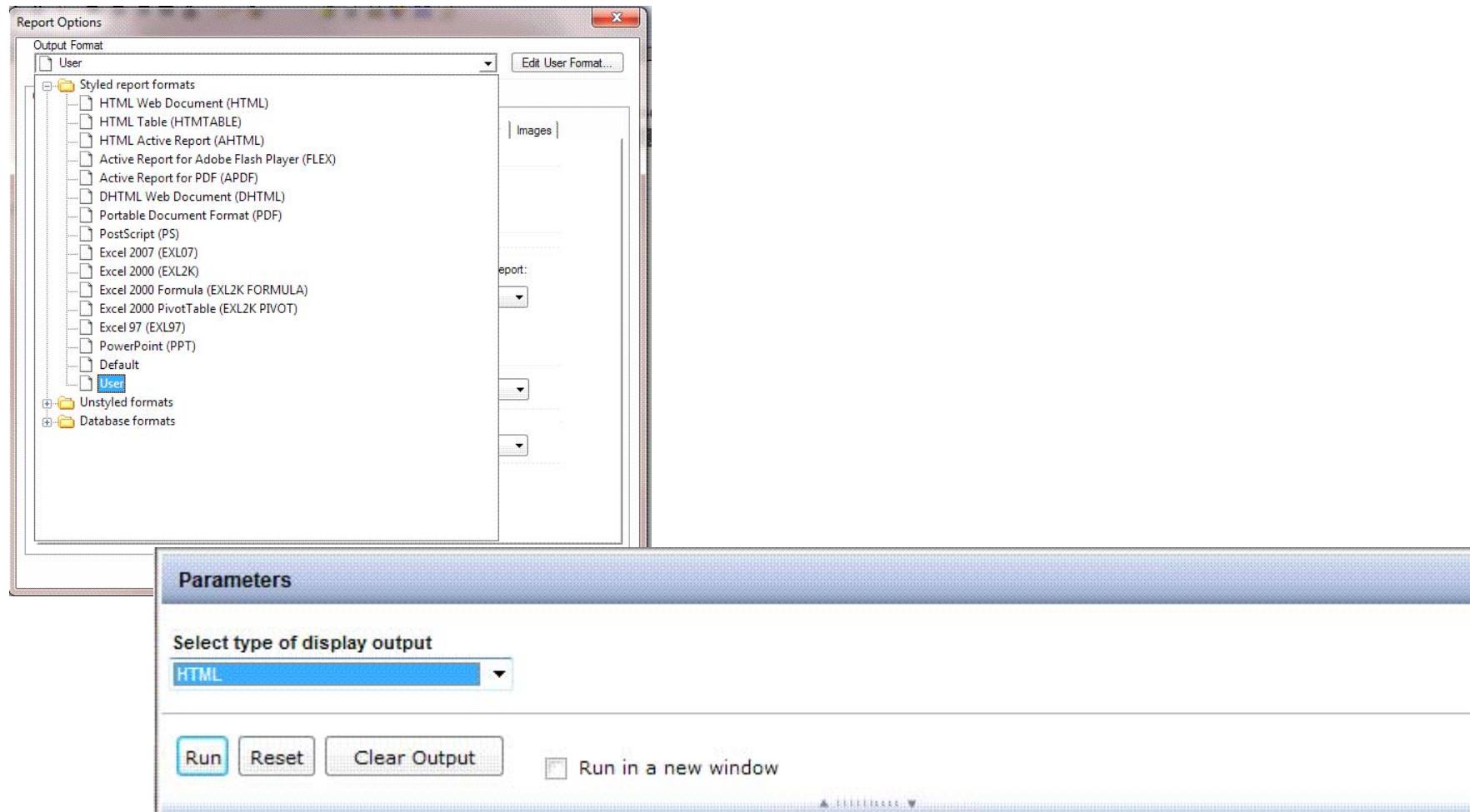


## Exercise 10.2 Change Report Output

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.



## Exercise 11.1 By, Across and Underline

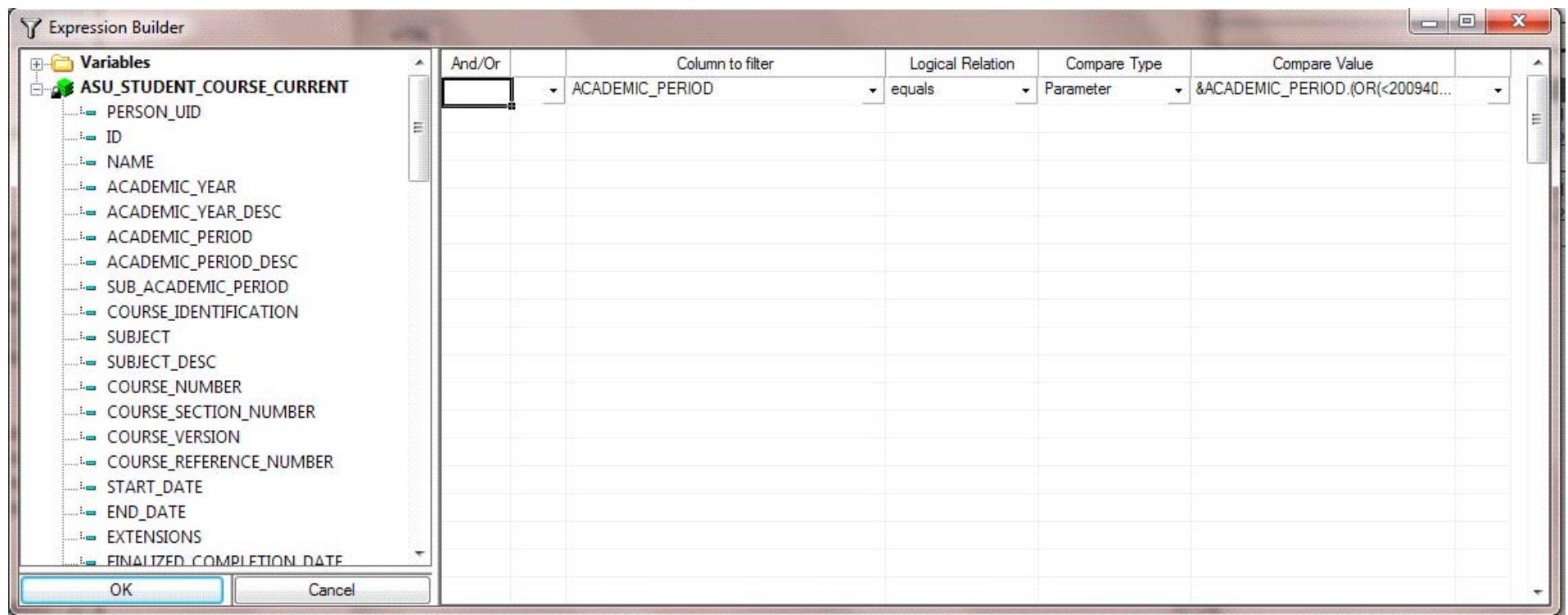
1. Create a new report using ASU\_STUDENT\_COURSE\_CURRENT named yourname11.
2. Add the Name field as a By field.
3. Add the Full\_course\_name field as a Detail field
4. Add credits\_for\_gpa as a detail field.
5. Add Academic\_period as an across field.

The screenshot shows a report design interface with the following details:

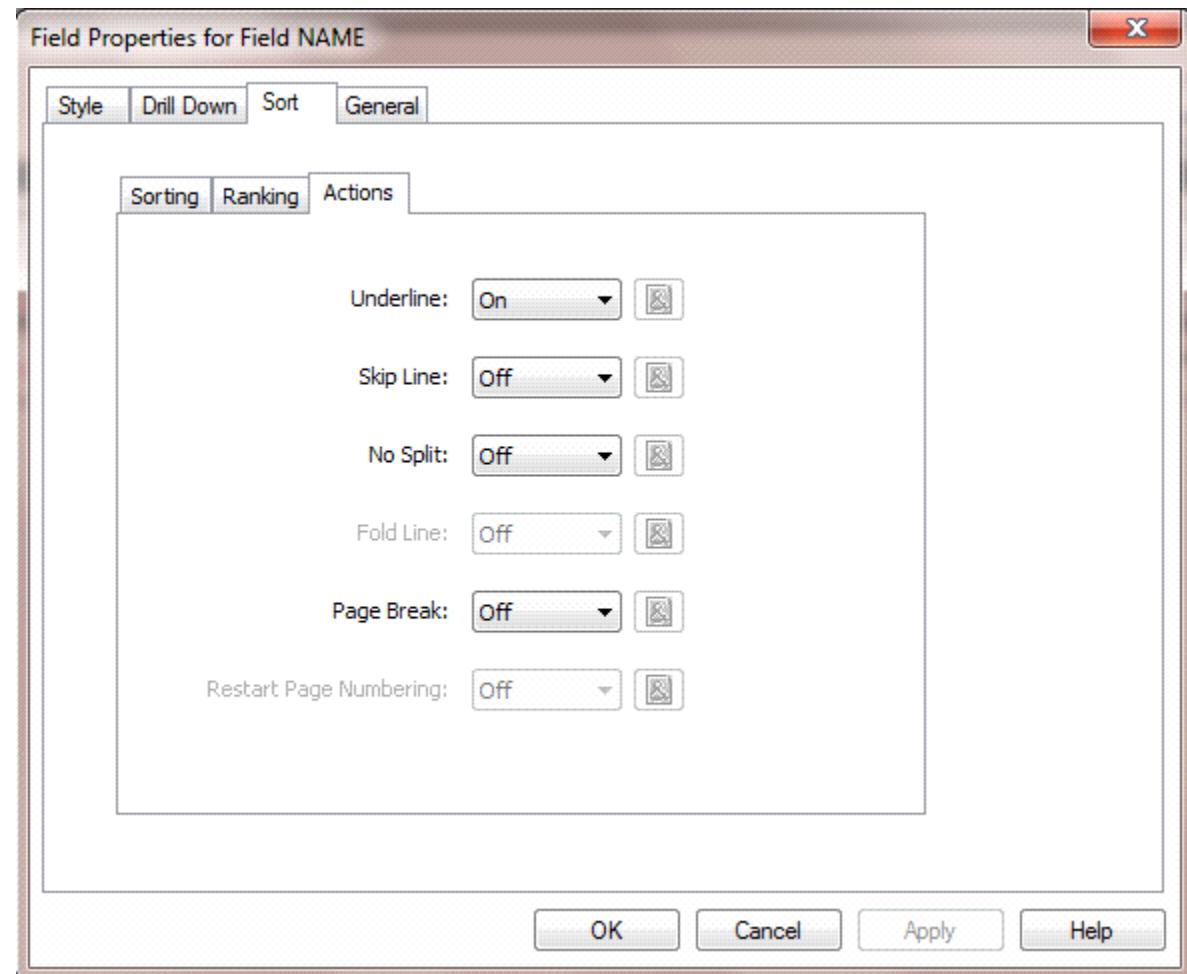
- Toolbar:** File, Edit, Insert, Properties, Report, View, Command, Window, Help.
- Toolbars:** Detail, Sum, By, Across, For, Where/If, Forecast, One variable for each selected column, Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, Totals, SubFooting.
- Font and Style:** TREBUCHET MS, Size 9, Bold, Italic, Underline, etc.
- Object Inspector:** Special Fields, Variables, Computed Fields, ASU\_STUDENT\_COURSE\_CURRENT (selected), containing fields: PERSON\_UID, ID, NAME, ACADEMIC\_YEAR, ACADEMIC\_YEAR\_DE, ACADEMIC\_PERIOD, ACADEMIC\_PERIOD\_I, SUB\_ACADEMIC\_PERIOD.
- Report Preview:** A table structure with the following data:

ACADEMIC_PERIOD	NAME	FULL_COURSE_NAME	CREDITS_FOR_GPA
A	Axxxxxx	Axxxxxx	11,111,111,111,111
A	Bxxxxxx	Bxxxxxx	22,222,222,222,222
B	Axxxxxx	Axxxxxx	11,111,111,111,111
B	Bxxxxxx	Bxxxxxx	22,222,222,222,222

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	CREDITS_FOR_GPA	FULL_COURSE_NAME	200940	201040	201140
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 a reporting application interface. At the top is a menu bar with File, Edit, Insert, Properties, Report, View, Command, Window, Help. Below the menu is a toolbar with various icons for file operations like Open, Save, Print, and a preview window. A secondary toolbar below it includes buttons for Detail, Sum, By, Across, For, Where/If, Forecast, and a dropdown for 'One variable for each selected column'. Further down are buttons for Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, Totals, and SubFooting. The main workspace has a toolbar at the top with CNT.DST, HTML, Options, and other report tools. Below is a preview area showing a table with two rows. The first row has a header 'COLLEGE' and a data cell 'Axxxxxxxxxxxxxx'. The second row has a header 'Bxxxxxxxxxxxxxx' and a data cell '11111'. To the right of the preview is an 'Object Inspector' panel with sections for Special Fields, Variables, Computed Fields, and ASU\_ACADEMIC\_STUDY.

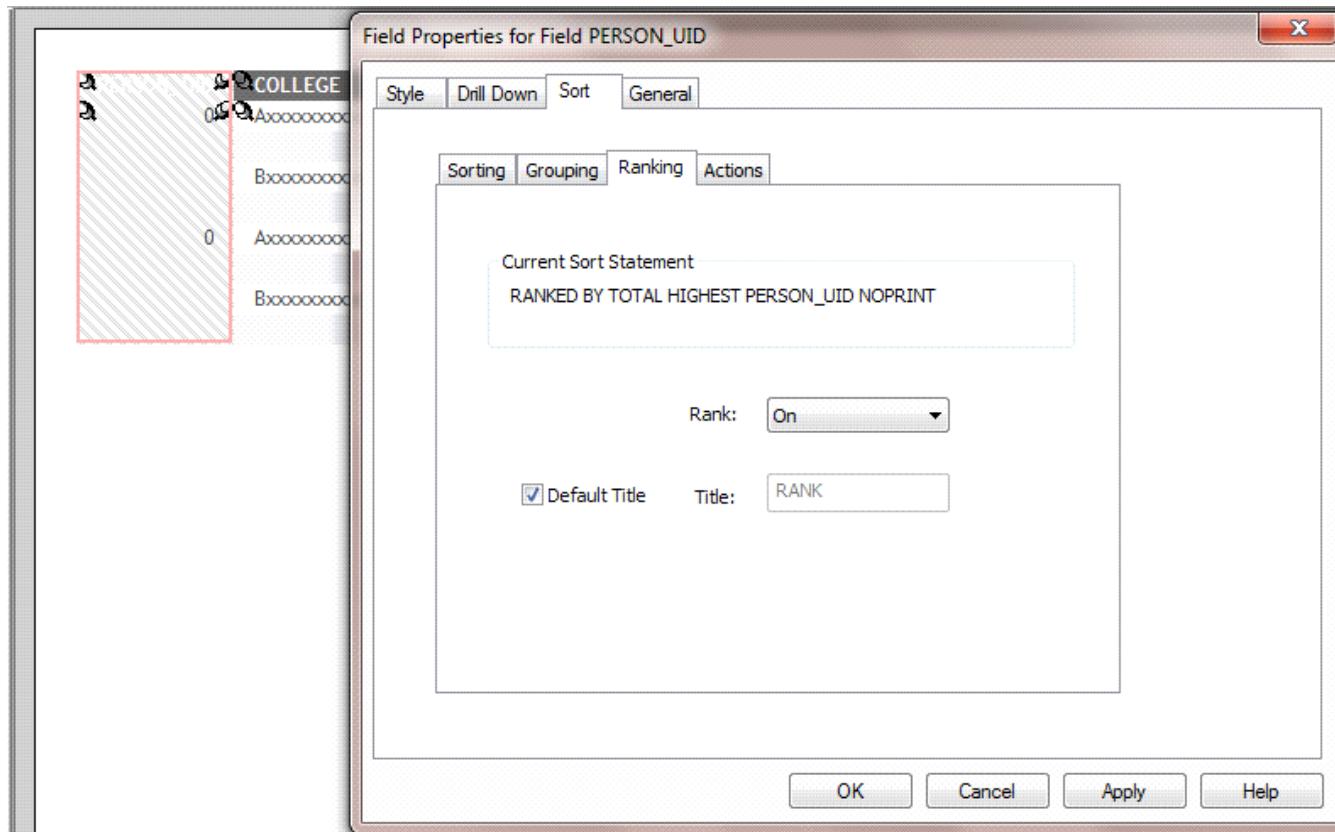
COLLEGE	NUMBER_OF_STUDENTS
Axxxxxxxxxxxxxx	11111
Bxxxxxxxxxxxxxx	11111

1. Click the Where/If button on the columns toolbar and add REGISTERED\_IND equals Y and ACADEMIC\_PERIOD equals 200940.
2. Back at the report painter window right click on NUMBER\_OF\_STUDENTS field and select Order Report By
3. Notice the field PERSON\_UID is added before college as a hidden field.
4. Right click on that field and Sort by Highest.

The screenshot shows the Oracle Reports Report Painter application. The menu bar includes File, Edit, Insert, Properties, Report, View, Command, Window, Help. The toolbar has various icons for report creation and modification. The main area displays a table with two columns: COLLEGE and NUMBER\_OF\_STUDENTS. The COLLEGE column contains two rows with values 'Axxxxxxxxxxxxx' and 'Bxxxxxxxxxxxxx'. The NUMBER\_OF\_STUDENTS column contains four rows with values '11111', '11111', '11111', and '11111'. A context menu is open over the last row of the NUMBER\_OF\_STUDENTS column, listing options: Options..., Delete, Fonts, Fixed Column Width, Invisible, Edit Variable Fields..., Column Title..., Format..., Visualize..., and Order Report By. The 'Order Report By' option is highlighted. On the left, the Object Inspector shows a tree structure with nodes for Special Fields, Variables, Computed Fields, and ASU\_ACADEMIC\_STUDY, which contains fields like PERSON\_UID, ID, NAME, ACADEMIC\_YEAR, ACADEMIC\_YEAR\_DE, ACADEMIC\_PERIOD, PROGRAM1, PROGRAM1\_DESC, PROGRAM2, PROGRAM2\_DESC, PROGRAM3, PROGRAM3\_DESC, PROGRAM4, PROGRAM4\_DESC, and PRIMARY\_PROGRAM.

COLLEGE	NUMBER_OF_STUDENTS
Axxxxxxxxxxxxx	11111
Bxxxxxxxxxxxxx	11111
Axxxxxxxxxxxxx	11111
Bxxxxxxxxxxxxx	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.



1. Run the Report.
2. Close the output and close and save your report.

Screenshot of a reporting software interface showing a report design and its preview.

**Object Inspector:**

- Special Fields
- Variables
- Computed Fields
- ASU\_ACADEMIC\_STUDY
  - PERSON\_UID
  - ID
  - NAME
  - ACADEMIC\_YEAR

**Report Preview:**

RANK	COLLEGE	NUMBER_OF_STUDENTS
1	Axxxxx	11111
2	Bxxxxx	11111
	Axxxxx	11111
	Bxxxxx	11111

RANK	COLLEGE	NUMBER_OF_STUDENTS
1	University College	4989
2	College of Arts & Sciences	3490
3	College of Fine & Applied Arts	2939
4	Graduate School	1982
5	College of Business	1768
6	College of Education	1259
7	No College Designated	327
8	School of Music	253
9	College of Health Sciences	5

## Exercise 11.3

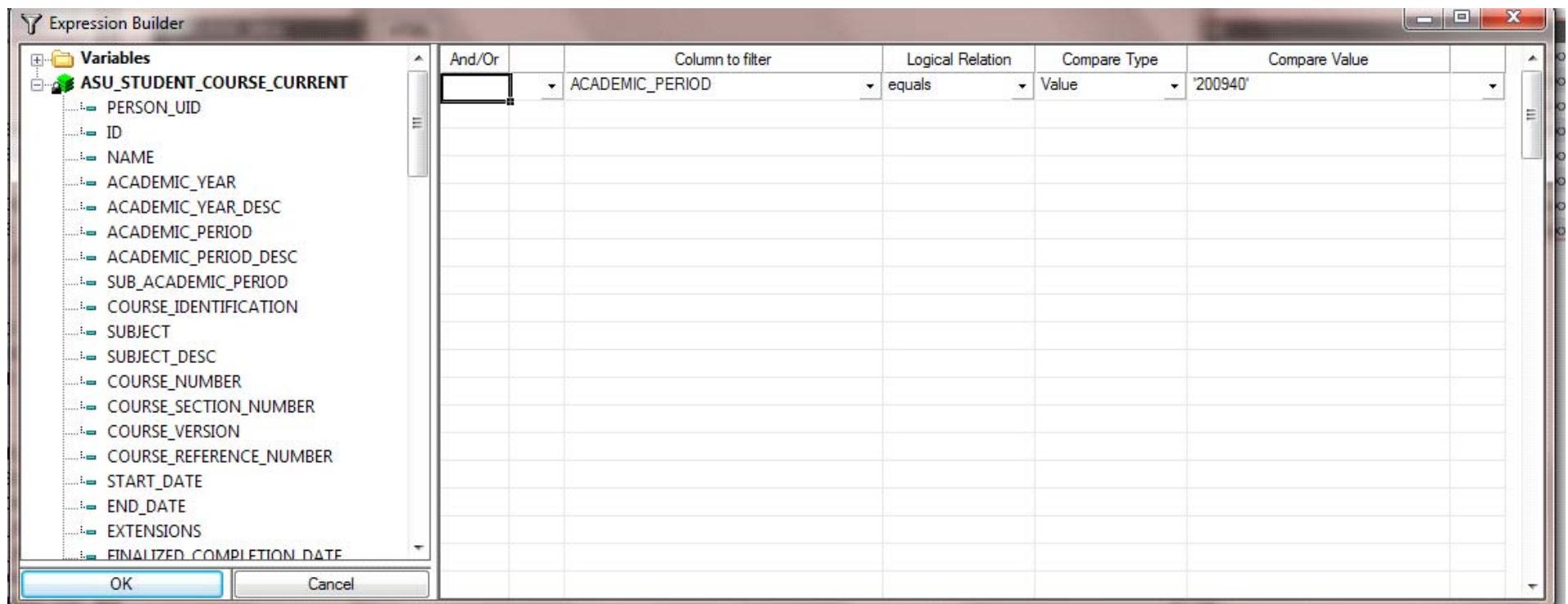
### TABLE of Contents

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

The screenshot shows a report design application window. The menu bar includes File, Edit, Insert, Properties, Report, View, Command, Window, Help, and various toolbar icons for printing, saving, and navigating. The toolbar below the menu has buttons for Detail, Sum, By, Across, For, Where/If, Forecast, One variable for each selected column, Report Heading, Page Heading, Page Footing, Report Footing, SubHeading, SubTotal, Totals, and SubFooting. The bottom toolbar includes Print, Options, and various styling and layout tools. On the left, the Object Inspector lists fields: HOURS\_ATTENDED, FINAL\_GRADE, GRADE\_VALUE, GRADE\_CHANGE\_REASON, MID\_TERM\_GRADE, INCOMPLETE\_EXT\_DATE, FINAL\_GRADE\_DATE, FINAL\_GRADE\_ROLL, and GRADE\_TYPE. The main area displays a table with three columns: COLLEGE\_DESC, DEPARTMENT\_DESC, and FULL\_COURSE\_NAME. The table has four rows, each containing a value from the corresponding field list in the Object Inspector. The first two rows have COLLEGE\_DESC as 'A' and DEPARTMENT\_DESC as 'B'. The last two rows have COLLEGE\_DESC as 'B' and DEPARTMENT\_DESC as 'A'. The FULL\_COURSE\_NAME column contains values 'Axxxxxx', 'Bxxxxxx', 'Axxxxxx', and 'Bxxxxxx'.

COLLEGE_DESC	DEPARTMENT_DESC	FULL_COURSE_NAME
A	B	Axxxxxx
A	B	Bxxxxxx
B	A	Axxxxxx
B	A	Bxxxxxx

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.

The screenshot shows a report builder interface with a table containing three columns: COLLEGE\_DESC, DEPARTMENT\_DESC, and FULL\_COURSE\_NAME. The first row of the COLLEGE\_DESC column has a context menu open, with the 'Table Of Contents' option selected. Under 'Table Of Contents', the 'Heading' option is highlighted. The table data is as follows:

COLLEGE_DESC	DEPARTMENT_DESC	FULL_COURSE_NAME
A	B	B
B	A	A B

Context Menu (Open over COLLEGE\_DESC row):

- Options...
- Delete
- Fonts
- Fixed Column Width
- Sort Order
- Invisible
- Edit Variable Fields...
- Column Title...
- Order Report By
- Table Of Contents
  - Report
  - Heading**
  - None

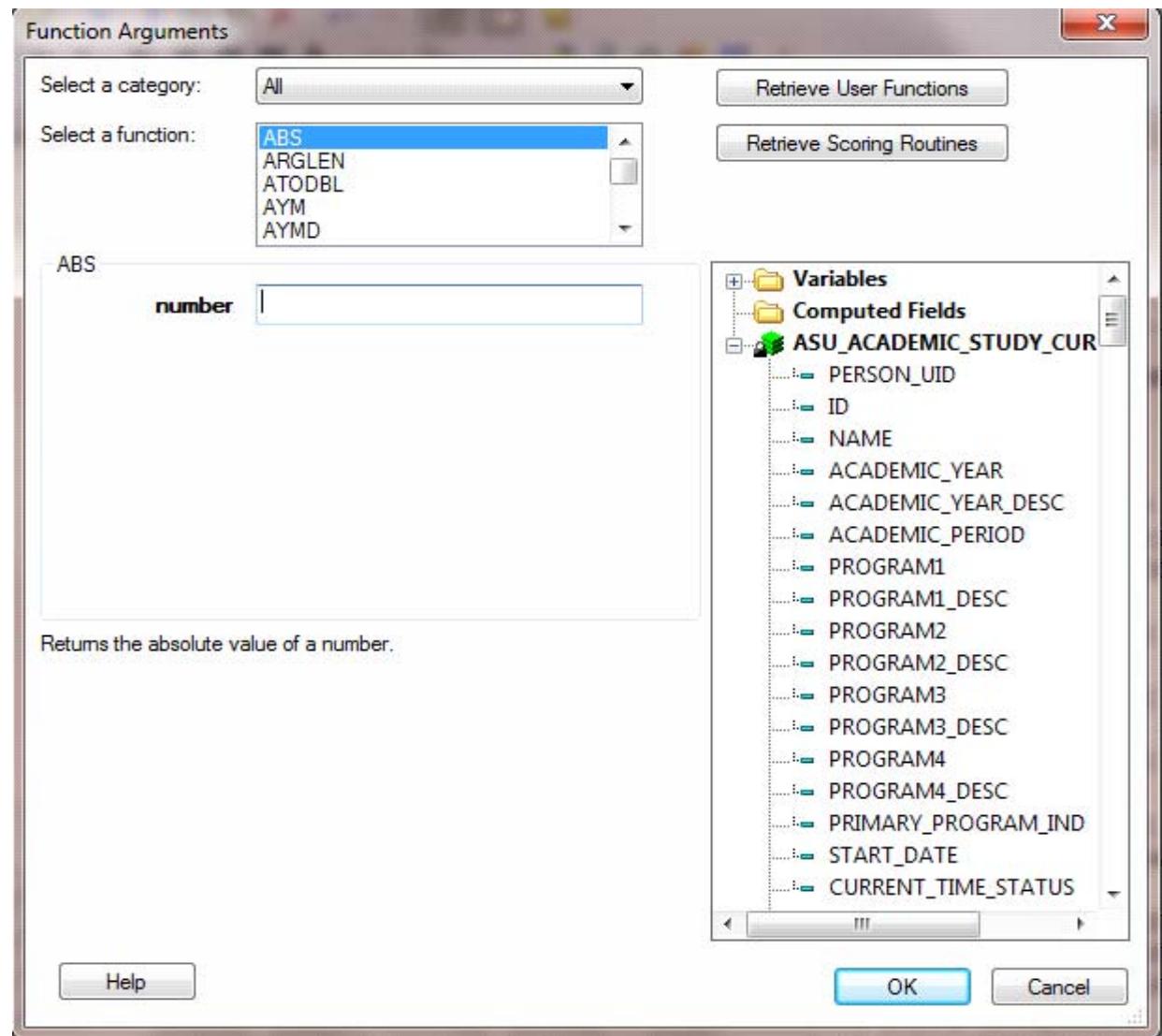
1. Run the report.
2. Notice in the Heading you will have Drop Down List for College and Department.
3. It will be blank first,. Select a College. Notice how the report changes.
4. Select a Department. Notice the report will move down to the Department listing.
5. Close the output. Close and Save your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

COLLEGE_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

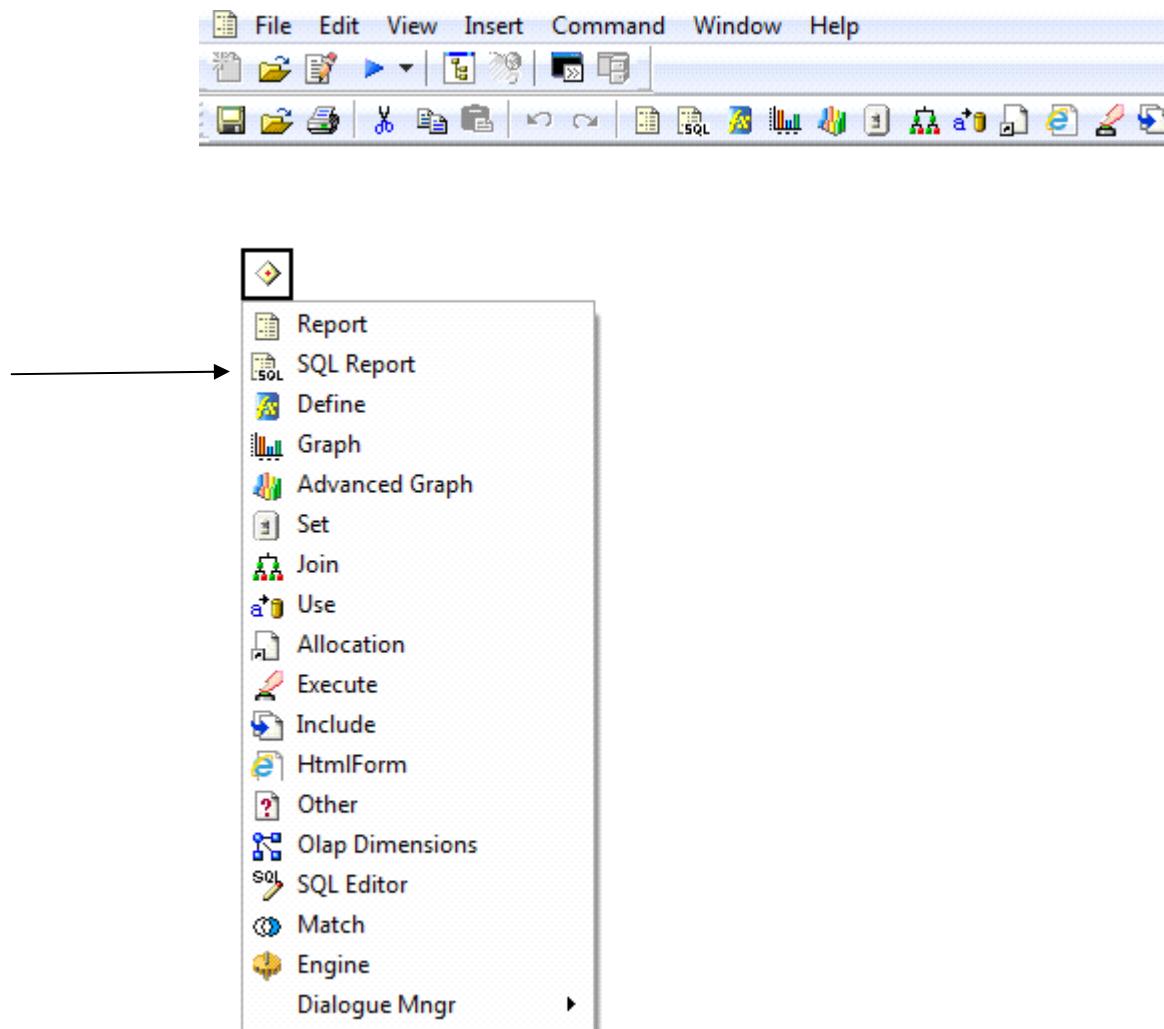
1. Open any report you want or a new report and click on the Define button so you can get to Functions.
2. Explore the functions. Any function you would like to see demonstrated?



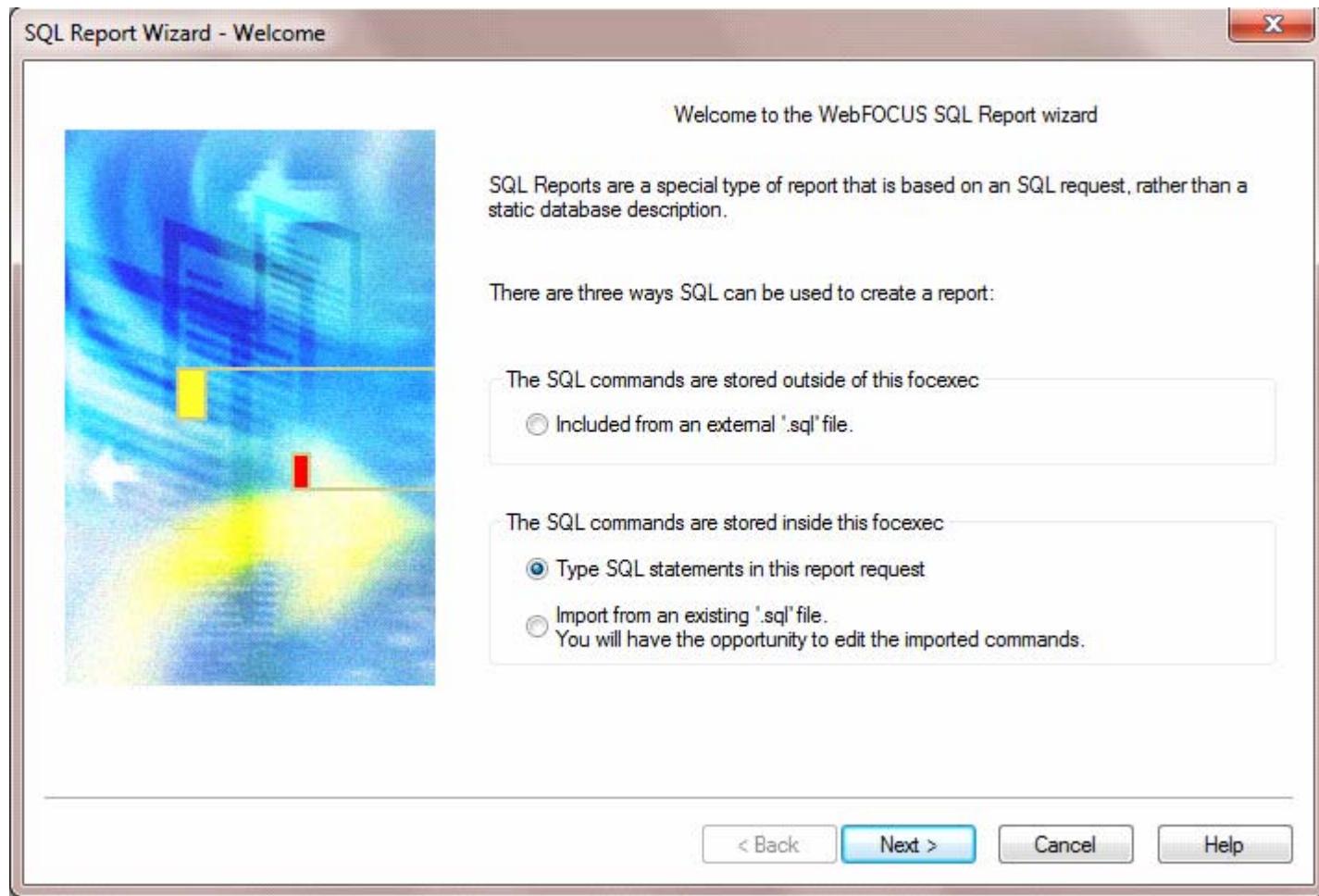
## Exercise 12.2

### SQL Report Wizard

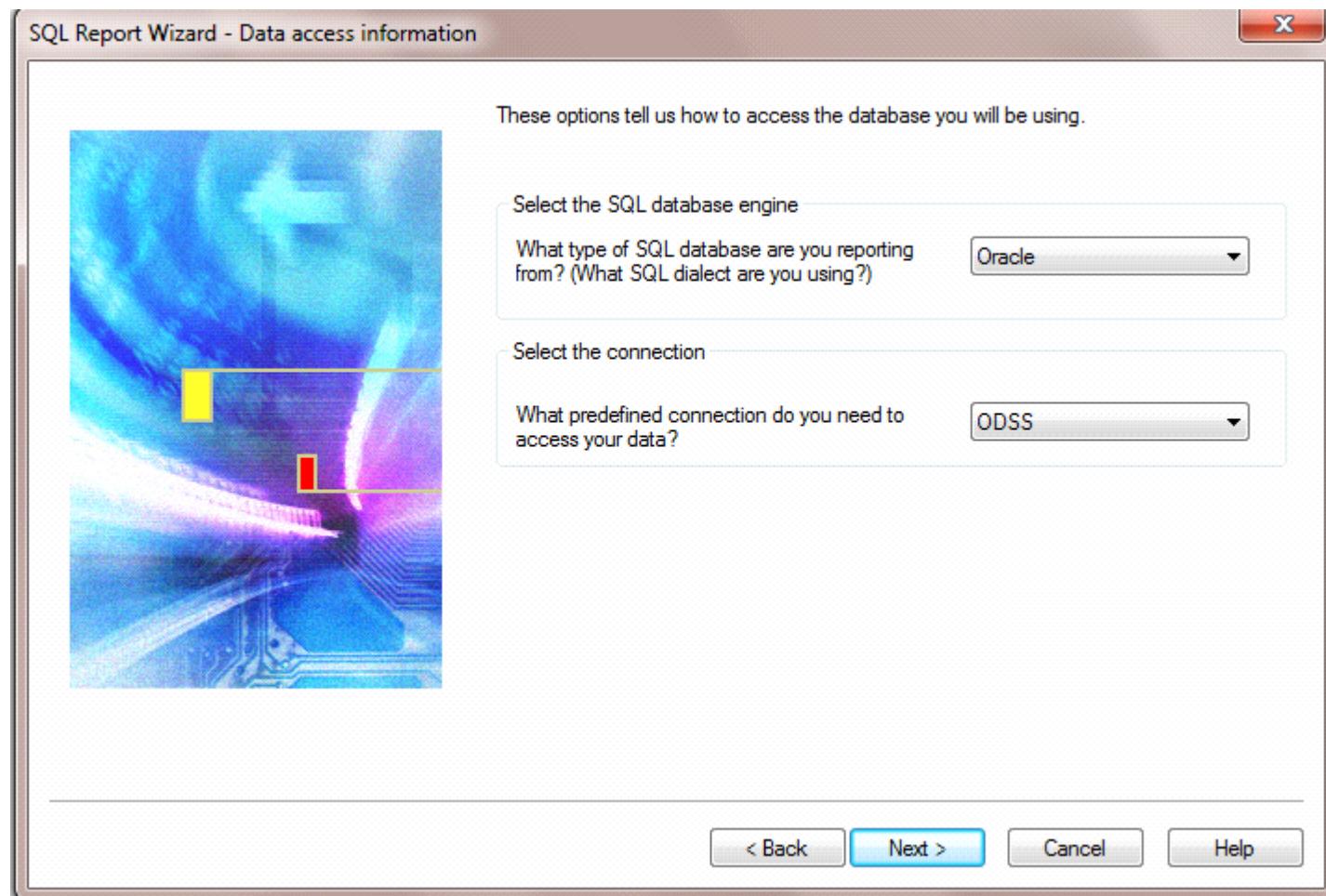
1. Create a new report calling yourname122.
2. In the procedure viewer click on the diamond and Select SQL Report



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.

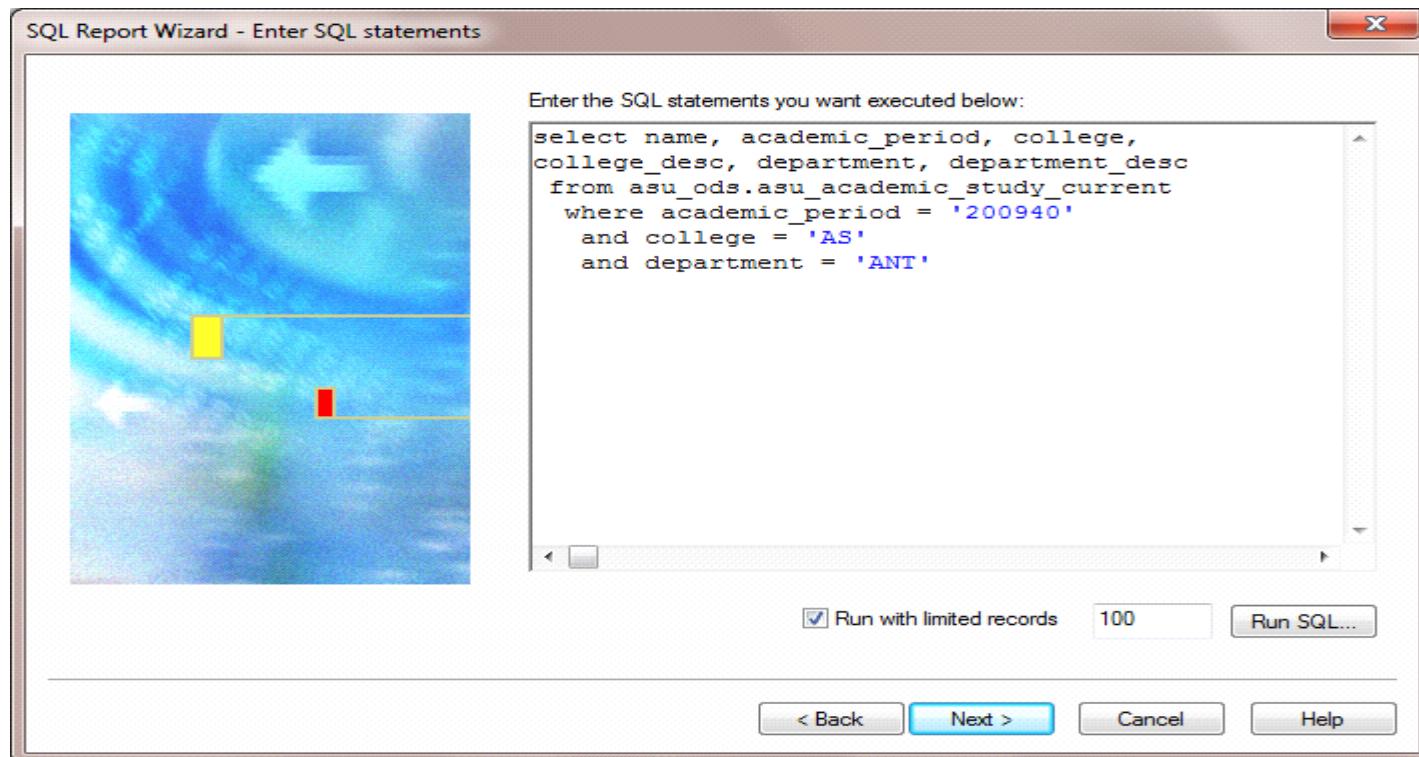


1. Next you are presented with the Enter SQL statements window. Type in the following statement.

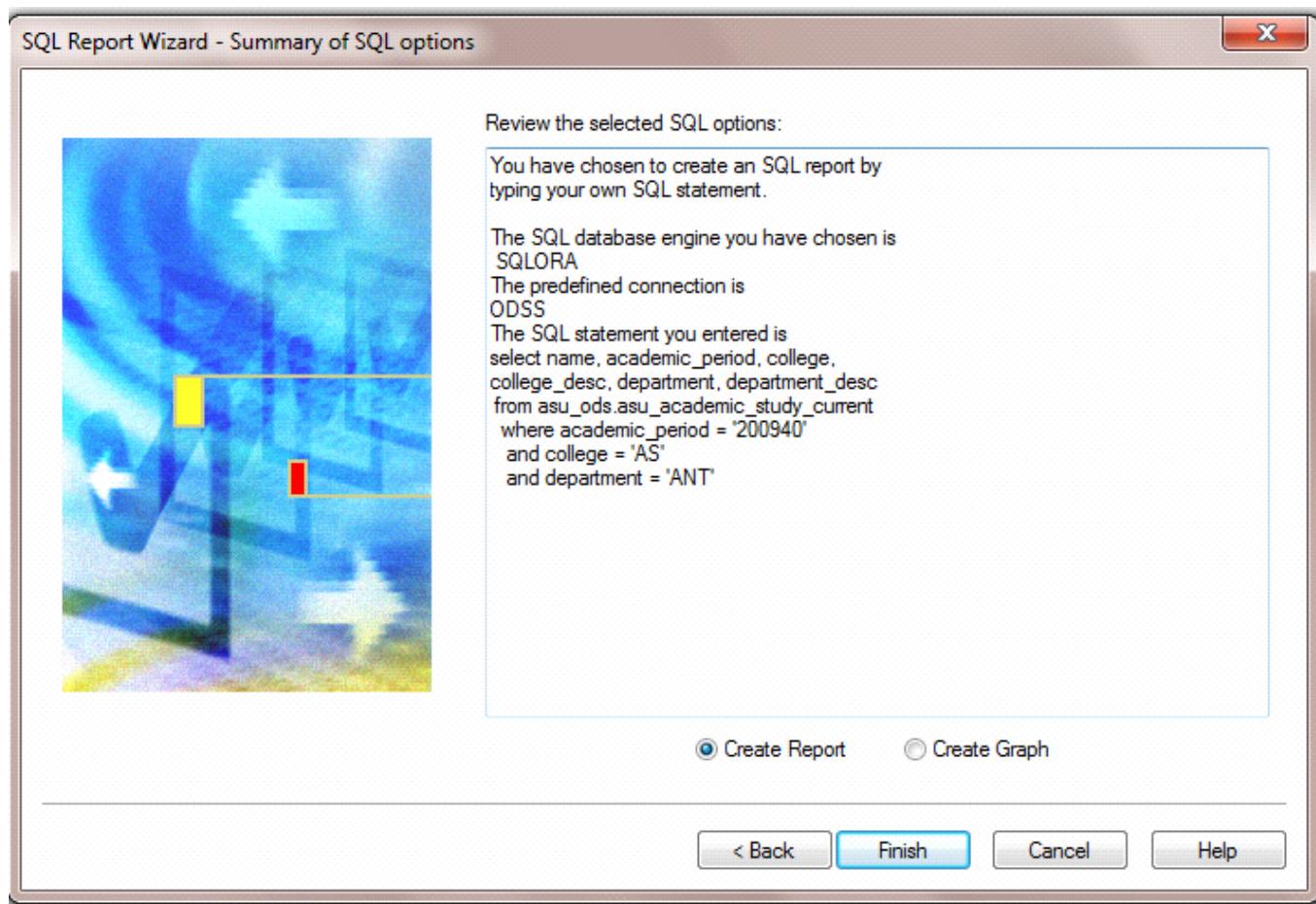
```
select name, academic_period, college, college_desc,  
department, department_desc  
fromasu_ods.asu_academic_study_current  
where academic_period = '200940'  
and college = 'AS'  
and department = 'ANT'
```

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.

Screenshot of a reporting tool interface showing a report design and preview.

**Object Inspector:**

- Special Fields
- Variables
- Computed Fields
- SQLOUT**
  - NAME
  - ACADEMIC\_PERIOD
  - COLLEGE
  - COLLEGE\_DESC
  - DEPARTMENT
  - DEPARTMENT\_DESC

**Report 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