

SQL Point and Click Presentation



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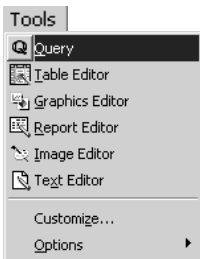
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The SQL Query Tables Window

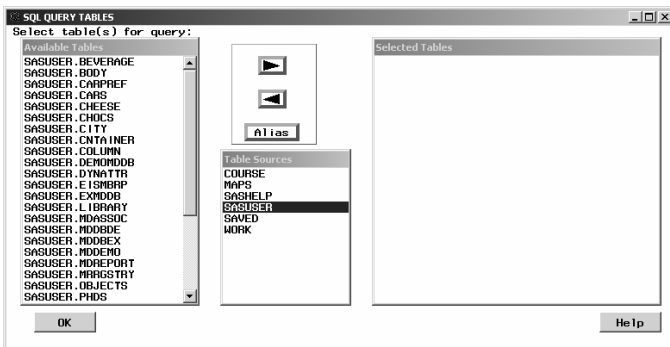
The SQL Query Window allows us to perform queries based on the standardized SQL language (Structured Query Language). We do not need to have prior experience with SQL.

To access the SQL Query Tables Window make the following selections:

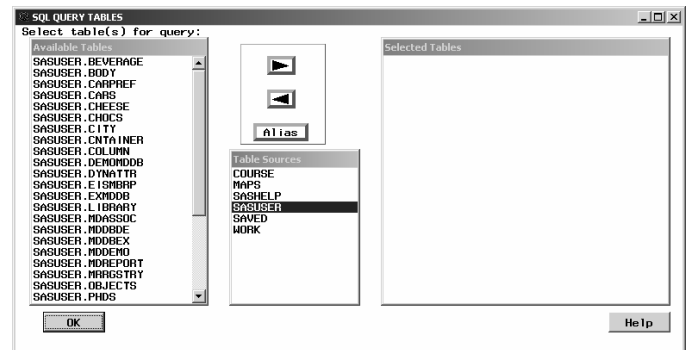
Select Tools/Query from the toolbar, as displayed below:



The following window will appear:

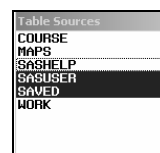


Selecting Tables



First, make a selection from the Table Source section of the window:

Select Saved:



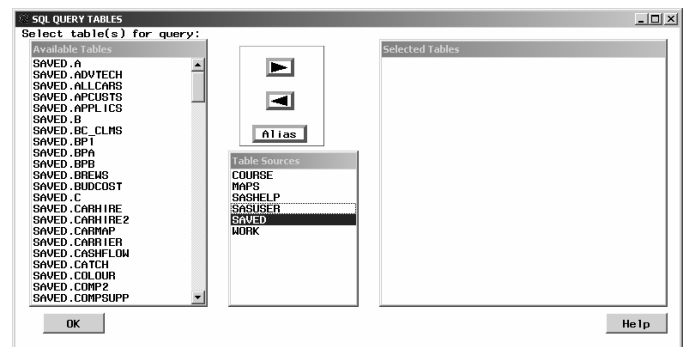
We can make multiple selections. This will display all the contents of the selected libraries in the Available Tables section.

To remove a Table entry (SASUSER) click on the highlighted selection and the following will appear:



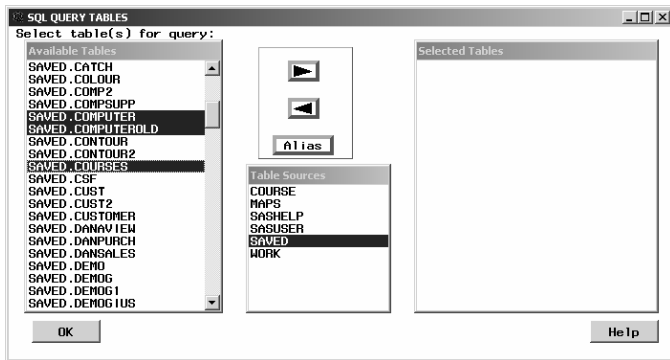
Select Remove SASUSER from Available Table.

All the contents of the SAVED library (and only the SAVED library) will now be displayed in the Available Tables window:

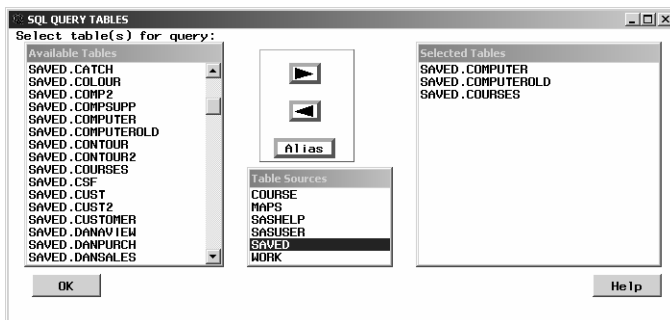


Scroll down the Available Tables section to view all the tables contained in the SAVED library.

Make the following selections, as displayed below:

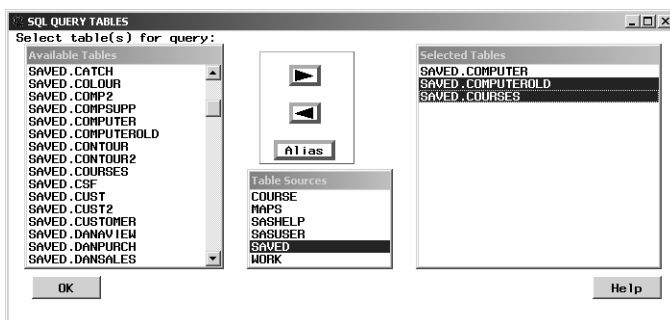


Click  to move the selections over to the Selected Tables window.



To move selections from the Available Tables section to the Selected Tables section, use  (right arrow button).

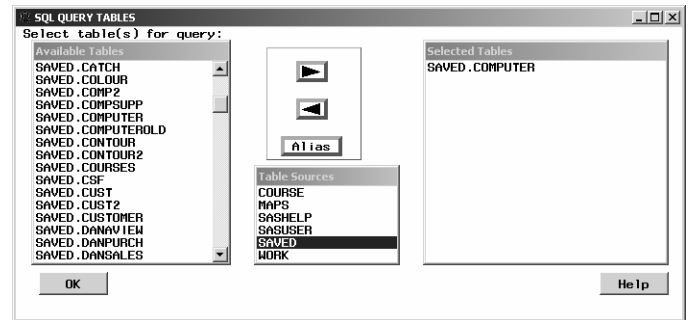
To move selections from the Selected Tables section to the Available Tables section use  (left arrow button). Make the following selections in the Selected Tables section:



Click  to move them back to the Available Tables section.

The right arrow () and left arrow () buttons are used to make table selections in this window.

Multiple or single selections may be made at any time.

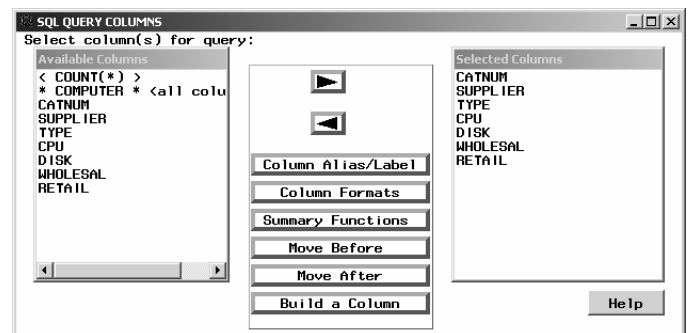


We have selected SAVED.COMPUTER as our selected table.

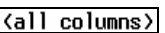
Click .

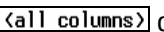
The SQL Query Columns Window

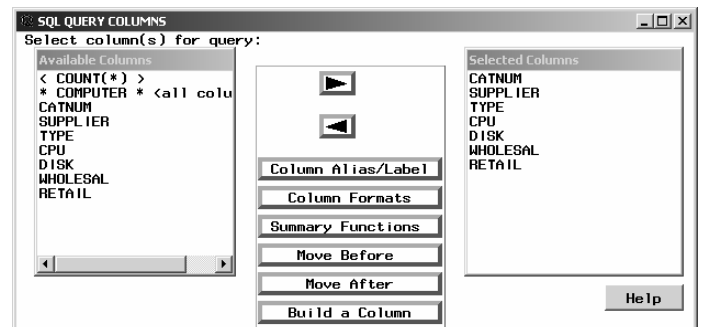
The next window to be displayed is the SQL QUERY COLUMNS window.



This window allows us to select the columns we would like to include in our query.

To select all columns we can select  from the Available Columns section and move it over to the Selected Columns section using  (right arrow button).

Selecting  displays the following:



The right arrow () and left arrow () buttons are used to make column selections in this window. Multiple or single selections may be made at any time.

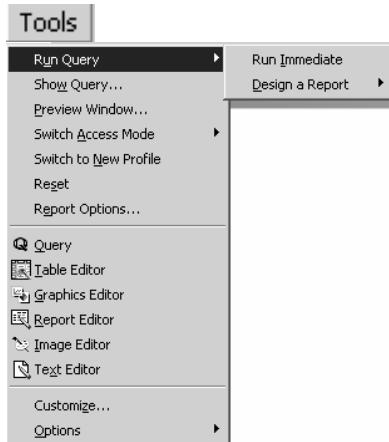
To move selections from the Available Columns section to the Selected Columns section, use  (right arrow button).

To move selections from the Selected Columns section to the Available Columns section use  (left arrow button).

Running the Query

To run the query we need to do the following:

Go the tool bar and select Tools/Run Query/Run Immediate



Once a Query is run, the output is displayed.

List output is displayed below:

Output - (Untitled)

Command >>>

The S&S System

09:33 Thursday, June 14, 2001

2

	CATNUM	SUPPLIER	TYPE	CPU	DISK	WHOLESALE	RETAIL
1	FLOPPY COMPUTERS	DESKTOP	Pentium	20	550	750	
2	FLOPPY COMPUTERS	DESKTOP	Pentium	40	600	800	
3	FLOPPY COMPUTERS	DESKTOP	Pentium	100	750	950	
4	FLOPPY COMPUTERS	DESKTOP	AMD	40	750	950	
5	FLOPPY COMPUTERS	DESKTOP	AMD	100	950	1150	
6	FLOPPY COMPUTERS	DESKTOP	AMD	40	950	1150	
7	FLOPPY COMPUTERS	DESKTOP	AMD	100	1250	1450	
8	FLOPPY COMPUTERS	DESKTOP	Zeon	40	1350	1550	
9	FLOPPY COMPUTERS	DESKTOP	Zeon	100	1550	1750	
10	FLOPPY COMPUTERS	DESKTOP	Zeon	100	1950	2250	
11	FLOPPY COMPUTERS	LAPTOP	Pentium	40	1000	1200	
12	FLOPPY COMPUTERS	LAPTOP	AMD	40	1200	1400	
13	FLOPPY COMPUTERS	LAPTOP	AMD	100	1400	1600	
14	FLOPPY COMPUTERS	LAPTOP	AMD	100	1600	1900	
15	FLOPPY COMPUTERS	LAPTOP	AMD	200	1850	2350	
16	FLOPPY COMPUTERS	LAPTOP	Pentium	60	1100	1300	
17	KETCHUP COMPUTERS	DESKTOP	Pentium	20	1300	1500	
18	KETCHUP COMPUTERS	DESKTOP	Pentium	40	1400	1600	
19	KETCHUP COMPUTERS	DESKTOP	Pentium	100	1600	1800	
20	KETCHUP COMPUTERS	DESKTOP	AMD	20	1800	2000	
21	KETCHUP COMPUTERS	DESKTOP	AMD	40	2000	2200	
22	KETCHUP COMPUTERS	DESKTOP	AMD	100	2350	2550	
23	KETCHUP COMPUTERS	DESKTOP	AMD	20	2450	2650	
24	KETCHUP COMPUTERS	DESKTOP	AMD	40	2550	2750	
25	KETCHUP COMPUTERS	DESKTOP	AMD	100	2750	2950	
26	KETCHUP COMPUTERS	DESKTOP	Zeon	60	2950	3250	

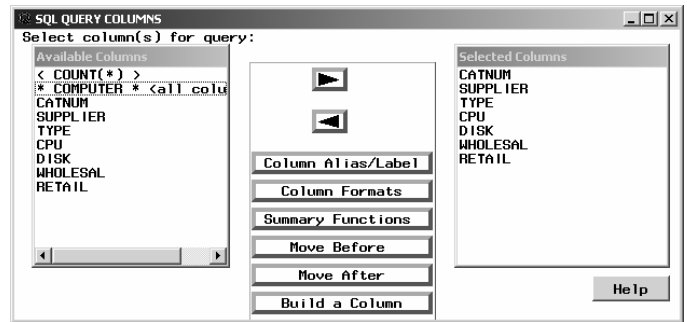
HTML output is displayed below:

CATNUM	SUPPLIER	TYPE	CPU	DISK	WHOLESALE	RETAIL
1	FLOPPY COMPUTERS	DESKTOP	Pentium	20	550	750
2	FLOPPY COMPUTERS	DESKTOP	Pentium	40	600	800
3	FLOPPY COMPUTERS	DESKTOP	Pentium	100	750	950
4	FLOPPY COMPUTERS	DESKTOP	AMD	40	750	950
5	FLOPPY COMPUTERS	DESKTOP	AMD	100	950	1150
6	FLOPPY COMPUTERS	DESKTOP	AMD	40	950	1150
7	FLOPPY COMPUTERS	DESKTOP	AMD	100	1250	1450
8	FLOPPY COMPUTERS	DESKTOP	Zeon	40	1350	1550
9	FLOPPY COMPUTERS	DESKTOP	Zeon	100	1550	1750
10	FLOPPY COMPUTERS	DESKTOP	Zeon	100	1950	2250
11	FLOPPY COMPUTERS	LAPTOP	Pentium	40	1000	1200
12	FLOPPY COMPUTERS	LAPTOP	AMD	40	1200	1400

To return to the SQL Query Column window simply click on it at the bottom of the screen:



The SQL Query Column window will appear.

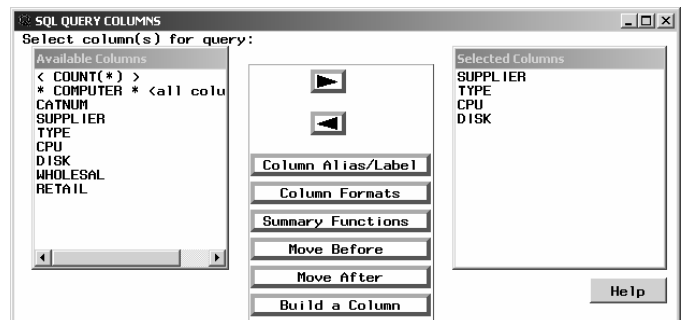


Building a New Column

Let's assume the project of producing a report by querying our COMPUTER database. The report needs to display the SUPPLIER, CPU, DISK and TYPE columns. We also need to display a profit figure for each of these rows, determined by RETAIL-WHOLESALE.

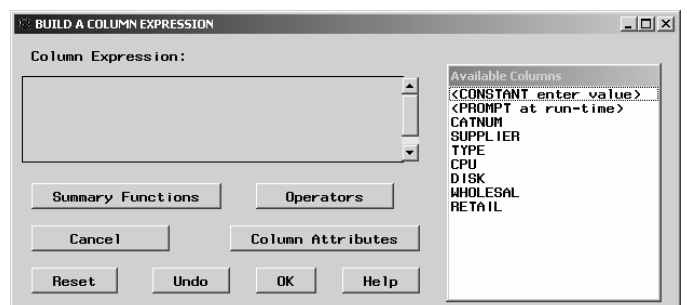
We can add such a column to our query by building a column expression. This is explained in the following section.

In the SQL Query Columns window, select columns SUPPLIER, CPU, DISK and TYPE, as displayed below:



Click on **Build a Column**.

This displays the following window where we can build a column expression.



Let's build a column expression, as follows:

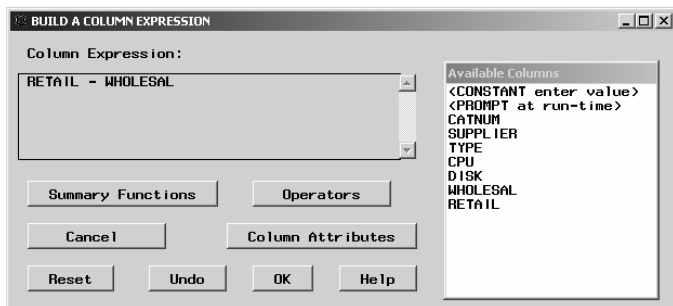
Select RETAIL from the Available Columns section.

The following menu will appear:



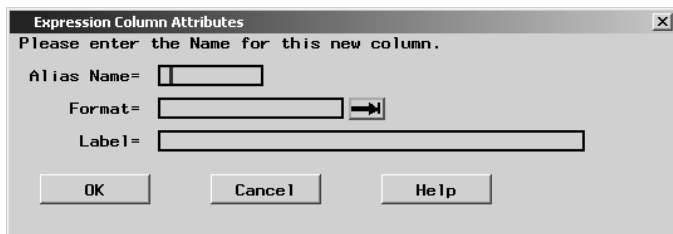
Select **- .Minus**.

Select WHOLESALE from the Available Columns section. Since this is the last entry we need for our column expression, ignore the operator pop-up menu.



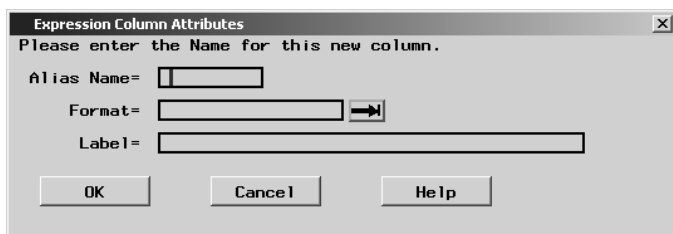
Select **OK**.

The following window will appear.



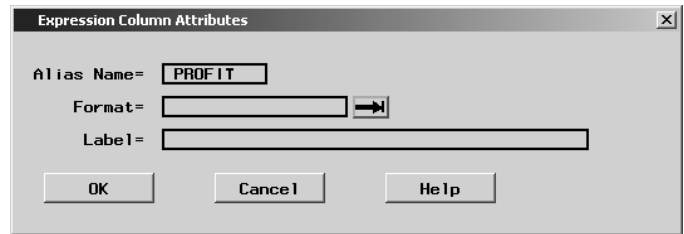
Expression Columns Attributes

The Expression Columns Attributes is displayed below:



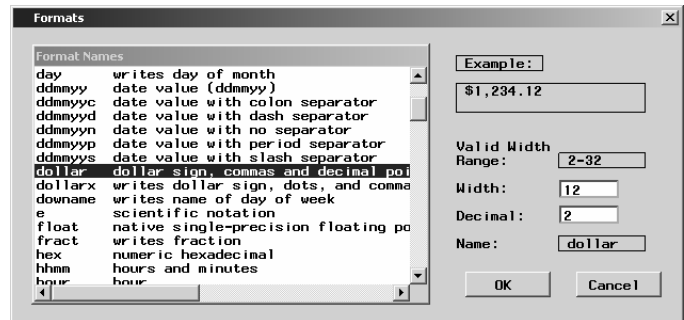
This window allows us to enter the attribute for our newly created column.

Name the column PROFIT, as displayed below:



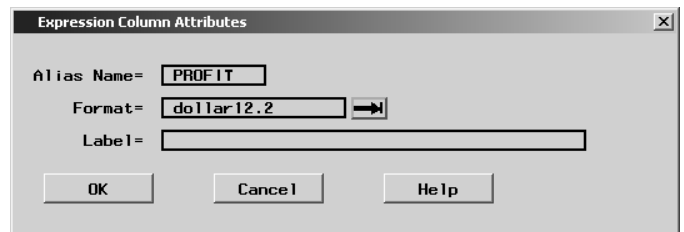
Next, specify a format from the list of Format Names. Click  to view the list of format names.

We select dollar and make the following width and decimal range specifications

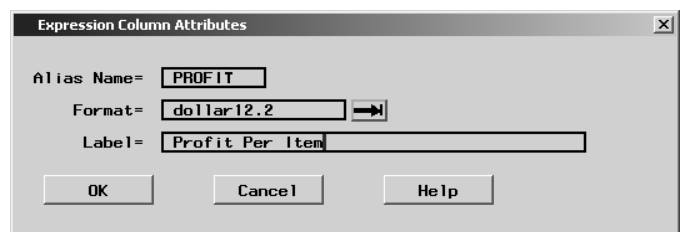


Click **OK**.

The following is displayed:

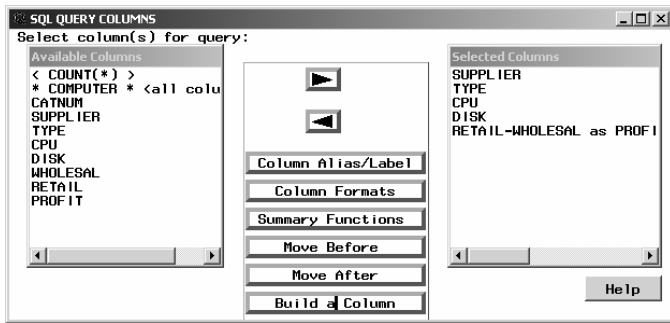


Next, enter a Label to label the PROFIT column, if so desired.



Click **OK**.

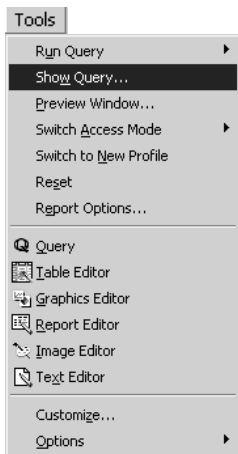
This will take us back to the SQL Query Columns window:



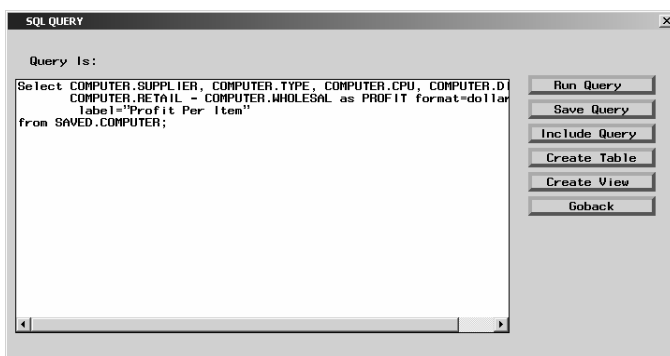
Displaying the Query Structure

To display the query, complete the following steps:

Select Tools/Show Query.



The SQL Query window will appear displaying the following:



SQL Query Window Options

This window has the following options:

- Run Query**: Executes the query.
- Save Query**: Saves the query
- Create Table**: Saves the data created by the query.
- Create View**: Saves the query expression as a view.

- Goback**: Takes us back to the Columns window.

Click **Run Query** to run the query.

The following menu will appear. Select Run Immediate.



The following list output appears:

SUPPLIER	TYPE	CPU	DISK	Profit Per Item
FLOPPY COMPUTERS	DESKTOP	Pentium	20	\$200.00
FLOPPY COMPUTERS	DESKTOP	Pentium	40	\$200.00
FLOPPY COMPUTERS	DESKTOP	Pentium	100	\$200.00
FLOPPY COMPUTERS	DESKTOP	AMD	40	\$200.00
FLOPPY COMPUTERS	DESKTOP	AMD	100	\$200.00
FLOPPY COMPUTERS	DESKTOP	AMD	40	\$200.00
FLOPPY COMPUTERS	DESKTOP	AMD	100	\$200.00
FLOPPY COMPUTERS	DESKTOP	Zeon	40	\$200.00
FLOPPY COMPUTERS	DESKTOP	Zeon	100	\$200.00
FLOPPY COMPUTERS	DESKTOP	Zeon	100	\$300.00
FLOPPY COMPUTERS	LAPTOP	Pentium	40	\$200.00
FLOPPY COMPUTERS	LAPTOP	AMD	40	\$200.00
FLOPPY COMPUTERS	LAPTOP	AMD	100	\$200.00
FLOPPY COMPUTERS	LAPTOP	AMD	100	\$300.00
FLOPPY COMPUTERS	LAPTOP	AMD	200	\$500.00
FLOPPY COMPUTERS	LAPTOP	Pentium	60	\$200.00
KETCHUP COMPUTERS	DESKTOP	Pentium	20	\$200.00
KETCHUP COMPUTERS	DESKTOP	Pentium	40	\$200.00
KETCHUP COMPUTERS	DESKTOP	Pentium	100	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	20	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	40	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	100	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	20	\$200.00

The following HTML output appears:

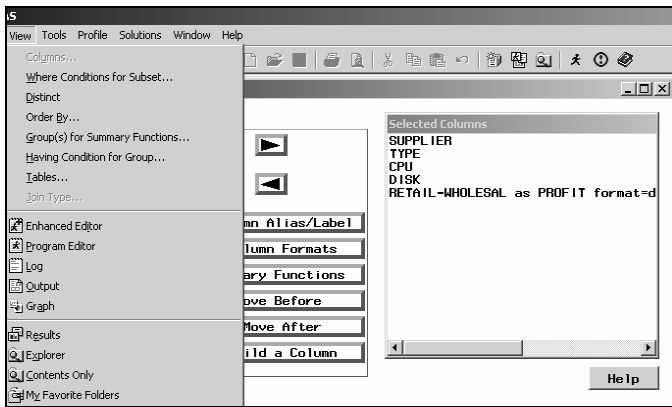
SUPPLIER	TYPE	CPU	DISK	Profit Per Item
FLOPPY COMPUTERS	DESKTOP	Pentium	20	\$200.00
FLOPPY COMPUTERS	DESKTOP	Pentium	40	\$200.00
FLOPPY COMPUTERS	DESKTOP	Pentium	100	\$200.00
FLOPPY COMPUTERS	DESKTOP	AMD	40	\$200.00
FLOPPY COMPUTERS	DESKTOP	AMD	100	\$200.00
FLOPPY COMPUTERS	DESKTOP	AMD	40	\$200.00
FLOPPY COMPUTERS	DESKTOP	AMD	100	\$200.00
FLOPPY COMPUTERS	DESKTOP	Zeon	40	\$200.00
FLOPPY COMPUTERS	DESKTOP	Zeon	100	\$200.00
FLOPPY COMPUTERS	DESKTOP	Zeon	100	\$300.00
FLOPPY COMPUTERS	LAPTOP	Pentium	40	\$200.00
FLOPPY COMPUTERS	LAPTOP	AMD	40	\$200.00
FLOPPY COMPUTERS	LAPTOP	AMD	100	\$200.00
FLOPPY COMPUTERS	LAPTOP	AMD	100	\$300.00

The newly created Profit column is displayed.

Selecting Rows by Incorporating A WHERE Condition

We can also subset our query by selecting rows. Until now, we selected and created columns for our query.

Select View from the toolbar to display the following menu:



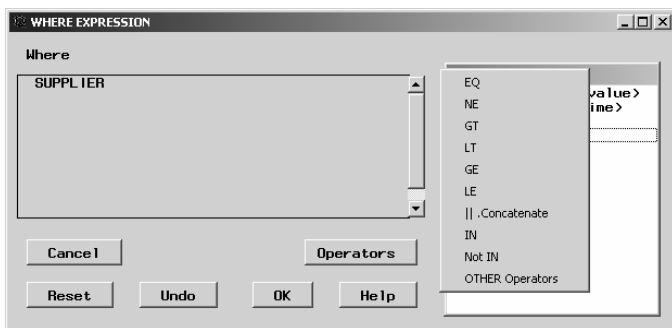
Select Where Conditions for Subset.



Let's select only those rows where SUPPLIER is equal to KETCHUP COMPUTERS.

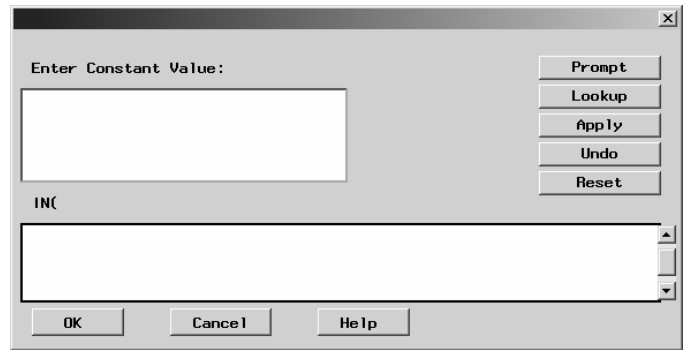
Complete the following steps to set up this expression:

Select SUPPLIER from the Available box.



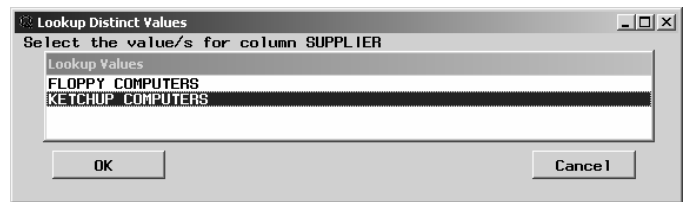
Select **EQ** from the pop up menu of operators.

Select **<CONSTANT enter value>** to access the pop-up menu to access constants.

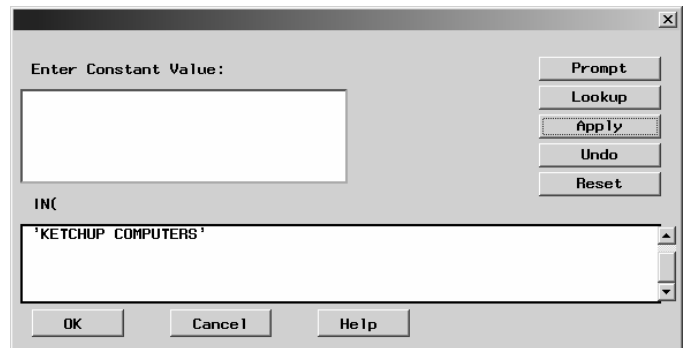


Click **LookUp**.

Select KETCHUP COMPUTERS.



Click **OK**.



Click **OK**.



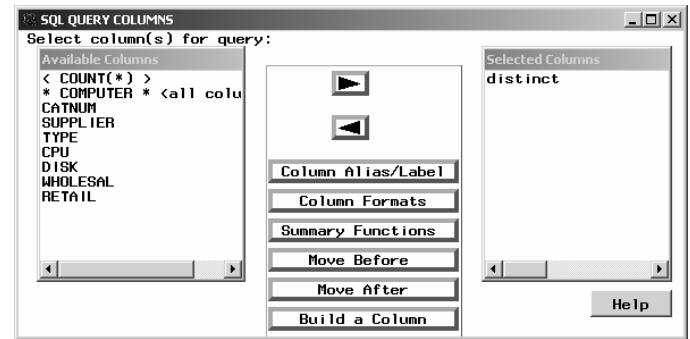
Click **OK**.

Run the Query.

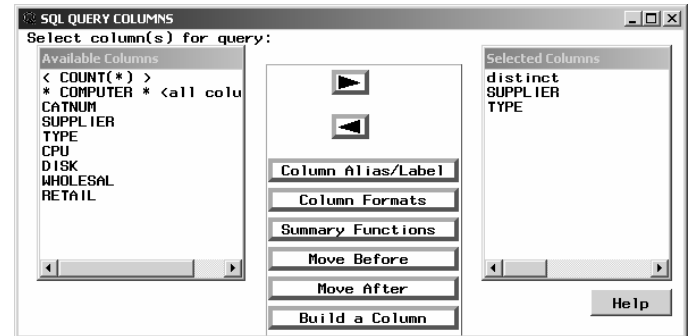
The output will display the subset data per our query expression. This is displayed on the next page.

The following list output will appear:

SUPPLIER	TYPE	CPU	DISK	Profit Per Item
KETCHUP COMPUTERS	DESKTOP	Pentium	20	\$200.00
KETCHUP COMPUTERS	DESKTOP	Pentium	40	\$200.00
KETCHUP COMPUTERS	DESKTOP	Pentium	100	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	20	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	40	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	100	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	20	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	40	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	100	\$200.00
KETCHUP COMPUTERS	DESKTOP	Zeon	60	\$300.00
KETCHUP COMPUTERS	DESKTOP	Zeon	120	\$200.00
KETCHUP COMPUTERS	DESKTOP	Zeon	200	\$200.00
KETCHUP COMPUTERS	LAPTOP	Pentium	20	\$150.00
KETCHUP COMPUTERS	LAPTOP	AMD	20	\$200.00
KETCHUP COMPUTERS	LAPTOP	AMD	40	\$200.00
KETCHUP COMPUTERS	LAPTOP	AMD	120	\$200.00
KETCHUP COMPUTERS	LAPTOP	AMD	60	\$400.00
KETCHUP COMPUTERS	LAPTOP	AMD	120	\$250.00
KETCHUP COMPUTERS	LAPTOP	AMD	200	\$400.00
KETCHUP COMPUTERS	LAPTOP	Zeon	200	\$400.00



Select SUPPLIER AND TYPE, as displayed below:



Run the query.

The output will display the unique combinations of the selected columns, SUPPLIER and TYPE.

List output will display the following:

SUPPLIER	TYPE
FLOPPY COMPUTERS	DESKTOP
FLOPPY COMPUTERS	LAPTOP
KETCHUP COMPUTERS	DESKTOP
KETCHUP COMPUTERS	LAPTOP

HTML output will display the following:

SUPPLIER	TYPE
FLOPPY COMPUTERS	DESKTOP
FLOPPY COMPUTERS	LAPTOP
KETCHUP COMPUTERS	DESKTOP
KETCHUP COMPUTERS	LAPTOP

Order By

This option allows us to specify the order in which the results need to be displayed.

Select View/Order By

The following HTML output will appear:

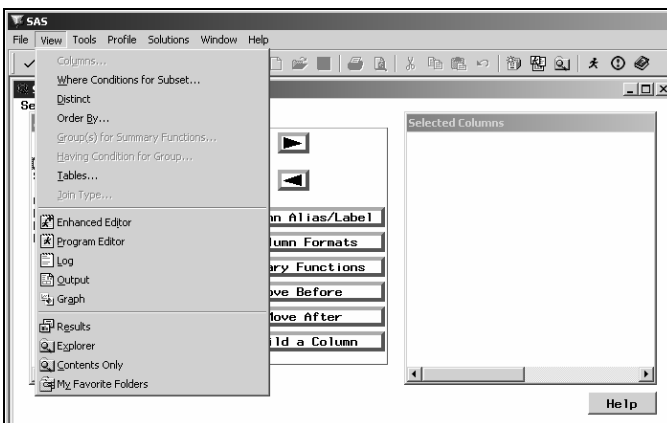
SUPPLIER	TYPE	CPU	DISK	Profit Per Item
KETCHUP COMPUTERS	DESKTOP	Pentium	20	\$200.00
KETCHUP COMPUTERS	DESKTOP	Pentium	40	\$200.00
KETCHUP COMPUTERS	DESKTOP	Pentium	100	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	20	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	40	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	100	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	20	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	40	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	100	\$200.00
KETCHUP COMPUTERS	DESKTOP	Zeon	60	\$300.00
KETCHUP COMPUTERS	DESKTOP	Zeon	120	\$200.00
KETCHUP COMPUTERS	DESKTOP	Zeon	200	\$200.00
KETCHUP COMPUTERS	LAPTOP	Pentium	20	\$150.00
KETCHUP COMPUTERS	LAPTOP	AMD	20	\$200.00

Additional Features

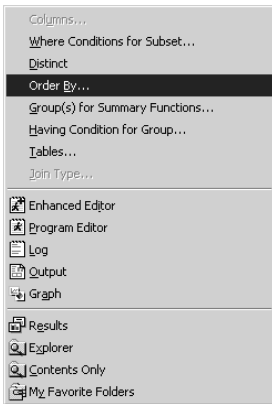
Distinct

This feature eliminates duplicate rows. It selects all distinct values of a column or combination of columns.

To access this option select View/Distinct.



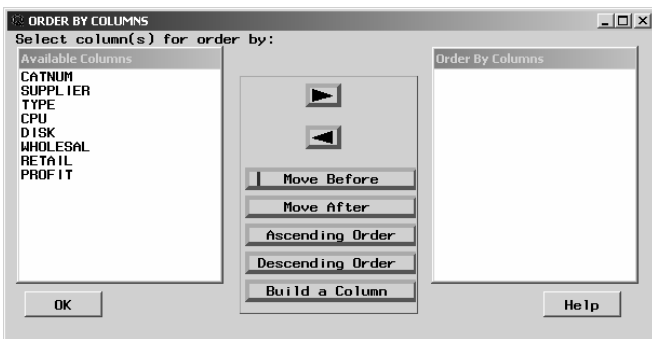
The following will appear.



1. Select SUPPLIER from the Selected Columns list in the Columns window.
2. Select the **Column Alias/Label** button.
3. In the Column Alias/Label window, enter a label in the Label area.



The Order By Columns window appears:

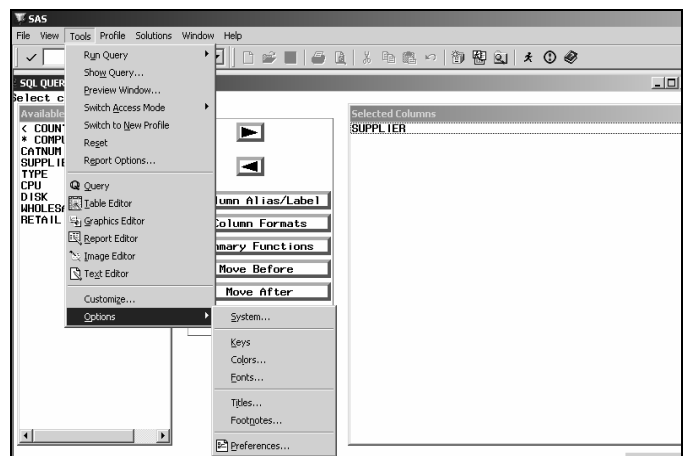


4. Select **OK**.

From the Columns window the **Column Formats** button can be used to format a column in a similar way.

Titles and Footnotes

Report titles and footnotes can be modified by selecting Tools/Options.

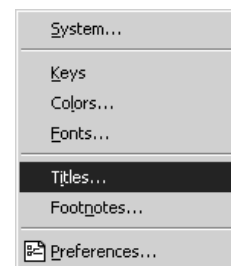
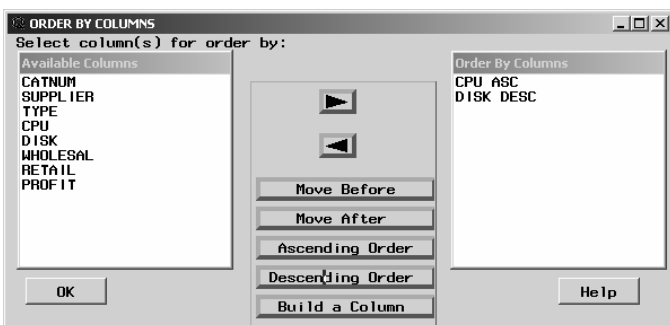


Note that all columns are available to order by regardless of whether we have selected them as columns for our query result.

In addition, a Column Expression may be built by selecting the **Build a Column** button.

The results may then be ordered by selecting the **Move Before** and the **Move After** buttons.

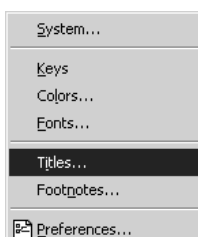
Select CPU and DISK. Change DISK to descending order by clicking on **Descending Order**.



Formatting and Labeling Columns

Column formats and labels can be added to enhance our query.

To create a column label for SUPPLIER, do the following:

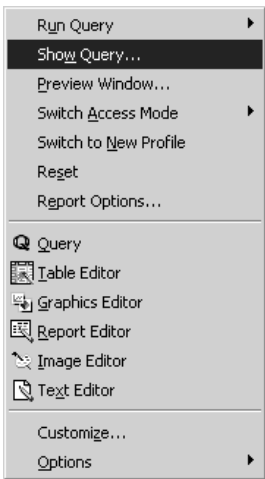


Enter the title in the TITLES window that appears.

Title	Value
1	Profitability Report
2	
3	
4	
5	
6	
7	

Save the changes.

To view the query again, select Tools/Show Query



SUPPLIER NAME	TYPE	CPU	DISK	Profit Per Item
KETCHUP COMPUTERS	LAPTOP	AMD	200	\$400.00
KETCHUP COMPUTERS	LAPTOP	AMD	120	\$200.00
KETCHUP COMPUTERS	LAPTOP	AMD	120	\$250.00
KETCHUP COMPUTERS	DESKTOP	AMD	100	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	100	\$200.00
KETCHUP COMPUTERS	LAPTOP	AMD	60	\$400.00
KETCHUP COMPUTERS	DESKTOP	AMD	40	\$200.00
KETCHUP COMPUTERS	LAPTOP	AMD	40	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	20	\$200.00
KETCHUP COMPUTERS	LAPTOP	AMD	20	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	20	\$200.00
KETCHUP COMPUTERS	DESKTOP	Pentium	100	\$200.00
KETCHUP COMPUTERS	DESKTOP	Pentium	40	\$200.00
KETCHUP COMPUTERS	LAPTOP	Pentium	20	\$150.00
KETCHUP COMPUTERS	DESKTOP	Pentium	20	\$200.00
KETCHUP COMPUTERS	DESKTOP	Zeon	200	\$200.00
KETCHUP COMPUTERS	LAPTOP	Zeon	200	\$400.00
KETCHUP COMPUTERS	DESKTOP	Zeon	120	\$200.00
KETCHUP COMPUTERS	DESKTOP	Zeon	60	\$300.00

HTML output will display the following:

SUPPLIER NAME	TYPE	CPU	DISK	Profit Per Item
KETCHUP COMPUTERS	LAPTOP	AMD	200	\$400.00
KETCHUP COMPUTERS	LAPTOP	AMD	120	\$200.00
KETCHUP COMPUTERS	LAPTOP	AMD	120	\$250.00
KETCHUP COMPUTERS	DESKTOP	AMD	100	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	100	\$200.00
KETCHUP COMPUTERS	LAPTOP	AMD	60	\$400.00
KETCHUP COMPUTERS	DESKTOP	AMD	40	\$200.00
KETCHUP COMPUTERS	LAPTOP	AMD	40	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	40	\$200.00
KETCHUP COMPUTERS	DESKTOP	AMD	20	\$200.00
KETCHUP COMPUTERS	LAPTOP	AMD	20	\$200.00

The SQL Query window will appear.

Query is:

```
Select COMPUTER.SUPPLIER label="SUPPLIER NAME"
COMPUTER.TYPE, COMPUTER.CPU, COMPUTER.DISK,
COMPUTER.RETAIL - COMPUTER.WHOLESALE as PROFIT format=dollar
label="Profit Per Item"
from SAVED.COMPUTER
where COMPUTER.SUPPLIER EQ 'KETCHUP COMPUTERS'
order by COMPUTER.CPU ASC, COMPUTER.DISK DESC;
```

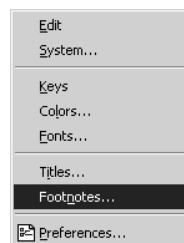
Buttons: Run Query, Save Query, Include Query, Create Table, Create View, Goback

Running the query again the output now subset for KETCHUP COMPUTERS, sorted by CPU type in ascending value. Within each CPU type, it is sorted by descending values of DISK.

Select Tools/Run Query Immediate to display the output.

List Output will display the following.

Footnotes are accessed by selecting Tools/Options/Footnotes:



The Footnotes window appears and allows us to make modifications.

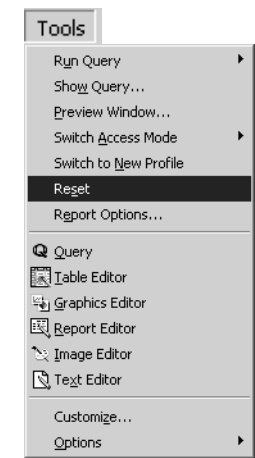
Footnote	Value
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

This process works just like when we add one or more titles to the report.

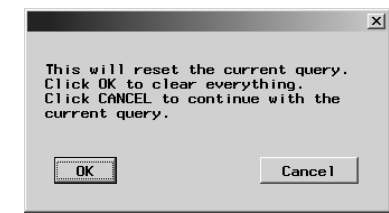
Clearing a Query

To exit out of the old query window and start a new query, complete the following:

Select Tools/Reset.



The following window will appear:



Select **OK**.

This will reset the current query.

Workshop

Exercise 1

Query the demograf data set in the SAVED library to produce a report for all rows and columns.

Exercise 2

Modify your query to include only columns for gender, status and salary.

Exercise 3

Create a new column called RAISE, which is 5% of SALARY. Format the RAISE and SALARY columns with dollar signs and commas.

Exercise 4

Subset your query to include only single females.

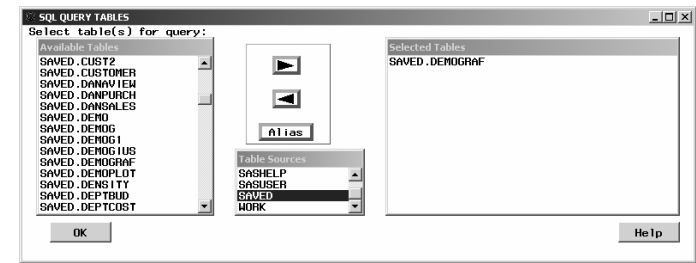
Exercise 5

Create a new query displaying all unique combinations of gender and marital status in the demograf data set.

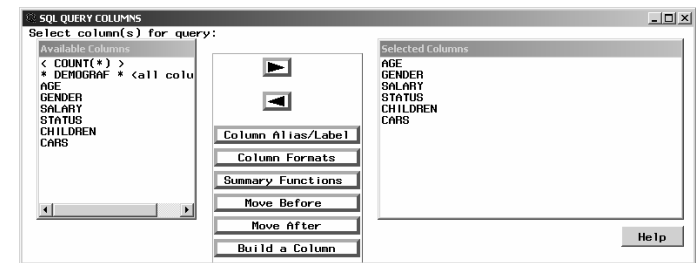
Workshop Solutions

Exercise 1

Select SAVED.DEMOGRAF in the SQL Query Tables window:



Select <All Columns> in the SQL Query Columns window:



Run the query by selecting Tools/Run Query/Run Immediately.

List output is displayed below:

AGE	GENDER	SALARY	STATUS	CHILDREN	CARS
59	F	0	S	0	0
16	F	0	S	0	0
6	F	0	S	0	0
22	F	13000	S	0	1
26	F	5600	M	1	1
29	F	8000	D	2	1
28	F	15000	M	3	1
23	F	18000	SEP	1	1
30	F	30000	S	0	1
32	F	0	M	2	2
34	F	18000	M	2	1
23	F	0	M	3	2
34	F	0	M	2	1
38	F	10000	M	2	1
56	F	30000	M	3	2
54	F	0	M	3	2
52	F	15000	M	5	2
60	F	13000	M	3	2
56	F	15000	M	0	2
46	F	30000	M	3	1
65	F	10000	M	2	1
11	M	0	S	0	0
2	M	0	S	0	0
14	M	0	S	0	0
23	M	10000	S	0	1

HTML output is displayed below:

AGE	GENDER	SALARY	STATUS	CHILDREN	CARS
59	F	0	S	0	0
16	F	0	S	0	0
6	F	0	S	0	0
22	F	13000	S	0	1
26	F	5600	M	1	1
29	F	8000	D	2	1
28	F	15000	M	3	1
23	F	18000	SEP	1	1
30	F	30000	S	0	1
32	F	0	M	2	2
34	F	18000	M	2	1
23	F	0	M	3	2
34	F	0	M	2	1
38	F	10000	M	2	1
56	F	30000	M	3	2
54	F	0	M	3	2

GENDER	SALARY	STATUS
F	0	S
F	0	S
F	0	S
F	13000	S
F	5600	M
F	8000	D
F	15000	M
F	18000	SEP
F	30000	S
F	0	M
F	18000	M
F	0	M
F	0	M
F	10000	M
F	30000	M
F	0	M
F	15000	M
F	13000	M
F	15000	M
F	30000	M
F	10000	M
M	0	S
M	0	S
M	0	S
M	10000	S
M	12000	M

HTML output is displayed below:

GENDER	SALARY	STATUS
F	0	S
F	0	S
F	0	S
F	13000	S
F	5600	M
F	8000	D
F	15000	M
F	18000	SEP
F	30000	S
F	0	M
F	18000	M
F	0	M

Select Tools/Show Query to view the SQL Query window:

SQL QUERY

Query is:

```
Select DEMOGRAF.AGE, DEMOGRAF.GENDER, DEMOGRAF.SALARY, DEMOGRAF.STATUS,
DEMOGRAF.CHILDREN, DEMOGRAF.CARS
from SAVED.DEMOGRAF;
```

Run Query
Save Query
Include Query
Create Table
Create View
Goback

Exercise 2

Move all variables other than GENDER, STATUS and CARS from the Selected Columns list.

SQL QUERY COLUMNS

Select column(s) for query:

Available Columns:

- < COUNT(*) >
- * DEMOGRAF * <all columns>
- AGE
- GENDER
- SALARY
- STATUS
- CHILDREN
- CARS

Selected Columns:

- GENDER
- SALARY
- STATUS

Column Alias/Label
Column Formats
Summary Functions
Move Before
Move After
Build a Column

Help

Run the query.

The output will display only GENDER, SALARY and STATUS columns.

List output is displayed below:

Exercise 3

In the SAL Query Columns window, click

Build a Column.

In the Build a Column Expression window, complete the following:

BUILD A COLUMN EXPRESSION

Column Expression:

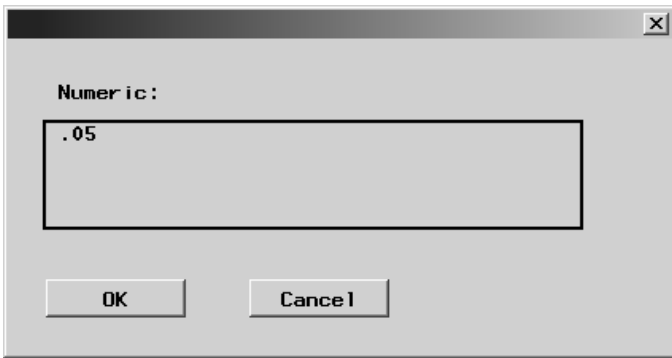
SALARY *

Available Columns:

- <CONSTANT enter value>
- <PROMPT at run-time>
- AGE
- GENDER
- SALARY
- STATUS
- CHILDREN
- CARS

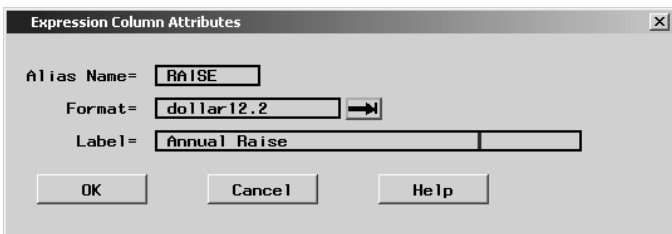
Summary Functions
Operators
Cancel
Column Attributes
Reset
Undo
OK
Help

To add a numeric value click **<CONSTANT enter value>**.



Click OK.

Make the following selections in the Expression Column Attributes window:

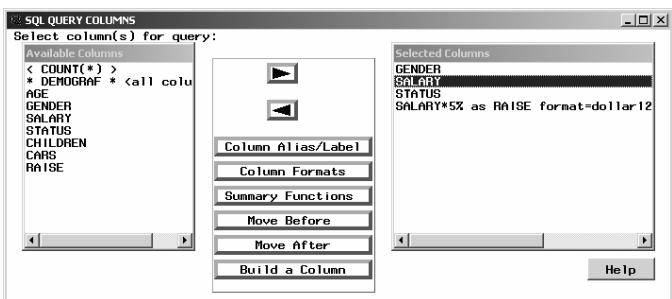


Click OK.

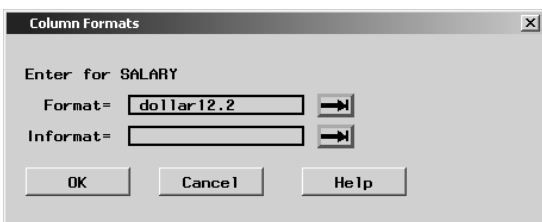
This will take you back to the Query Columns window.

Now we need to format SALARY.

In the SQL Query Columns window, select SALARY and click **Column Formats**.



Select the following:



Run the query.

The following reports will appear:

List output:

Output - (Untitled) Processing submitted statements 09:33 Thursd

GENDER	SALARY	STATUS	Annual Raise
F	\$0.00	S	\$0.00
F	\$0.00	S	\$0.00
F	\$0.00	S	\$0.00
F	\$13,000.00	S	\$650.00
F	\$5,600.00	M	\$280.00
F	\$8,000.00	D	\$400.00
F	\$15,000.00	M	\$750.00
F	\$18,000.00	SEP	\$900.00
F	\$30,000.00	S	\$1,500.00
F	\$0.00	M	\$0.00
F	\$18,000.00	M	\$900.00
F	\$0.00	M	\$0.00
F	\$0.00	M	\$0.00
F	\$10,000.00	M	\$500.00
F	\$30,000.00	M	\$1,500.00
F	\$0.00	M	\$0.00
F	\$15,000.00	M	\$750.00
F	\$13,000.00	M	\$650.00
F	\$15,000.00	M	\$750.00
F	\$30,000.00	M	\$1,500.00
F	\$10,000.00	S	\$500.00
M	\$0.00	S	\$0.00
M	\$0.00	S	\$0.00
M	\$0.00	S	\$0.00
M	\$10,000.00	S	\$500.00
M	\$12,000.00	M	\$600.00
M	\$10,000.00	D	\$500.00

HTML output:

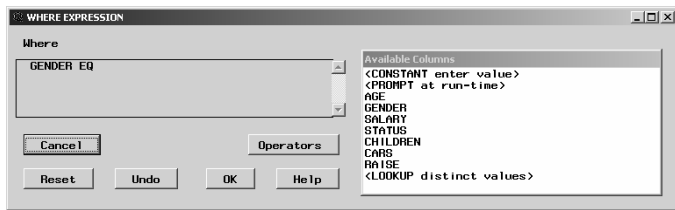
GENDER	SALARY	STATUS	Annual Raise
F	\$0.00	S	\$0.00
F	\$0.00	S	\$0.00
F	\$0.00	S	\$0.00
F	\$13,000.00	S	\$650.00
F	\$5,600.00	M	\$280.00
F	\$8,000.00	D	\$400.00
F	\$15,000.00	M	\$750.00
F	\$18,000.00	SEP	\$900.00
F	\$30,000.00	S	\$1,500.00
F	\$0.00	M	\$0.00
F	\$18,000.00	M	\$900.00
F	\$0.00	M	\$0.00

Exercise 4

Select View/Where Conditions for Subset:



Make the following selections:



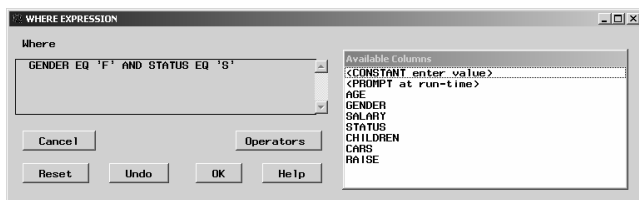
Select **<LOOKUP distinct values>** and select F for female.

Click on **Operators** and select And.



Select Status. Click **<LOOKUP distinct values>** and select S for single.

The final product should look like the following:



Click **OK**.

Run the Query.

List output will be displayed as follows:

09:33 Thursday, Ju			
GENDER	SALARY	STATUS	Annual Raise
F	\$0.00	S	\$0.00
F	\$0.00	S	\$0.00
F	\$0.00	S	\$0.00
F	\$13,000.00	S	\$650.00
F	\$30,000.00	S	\$1,500.00

HTML output will be displayed as follows:

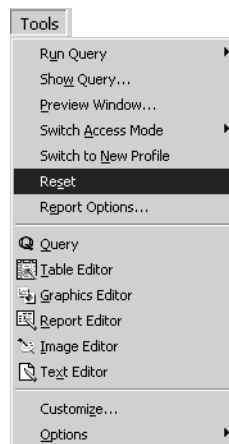
GENDER	SALARY	STATUS	Annual Raise
F	\$0.00	S	\$0.00
F	\$0.00	S	\$0.00
F	\$0.00	S	\$0.00
F	\$13,000.00	S	\$650.00
F	\$30,000.00	S	\$1,500.00

Exercise 5

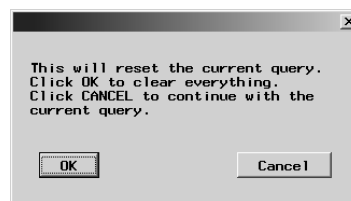
Create a new query displaying all uni combinations of GENDER and STATUS in the demograf data set.

To exit out of the old query window and start a new query, complete the following:

Select Tools/Reset.



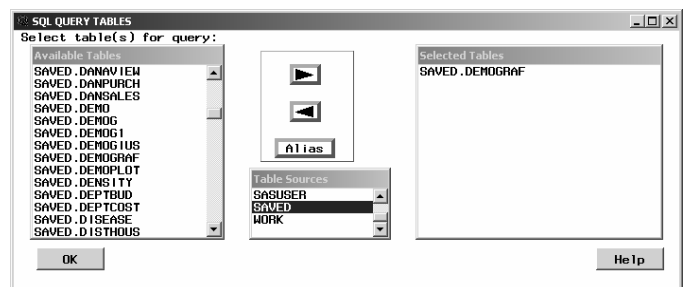
The following window will appear:



Select **OK**.

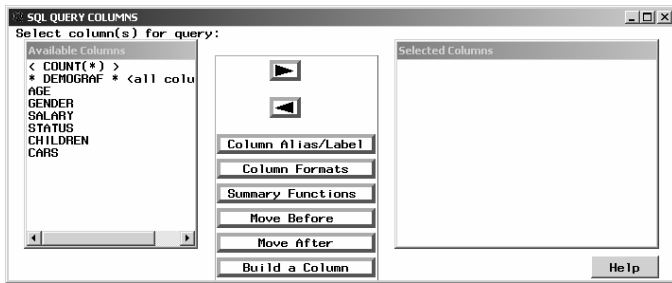
The SQL Query Tables window will appear.

Select **SAVED.DEMOGRAF**.



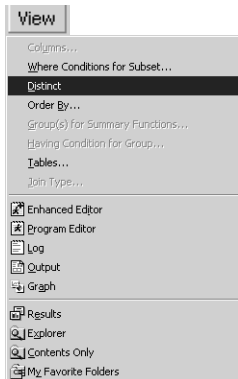
Click **OK**.

The SQL Query Columns window will appear:

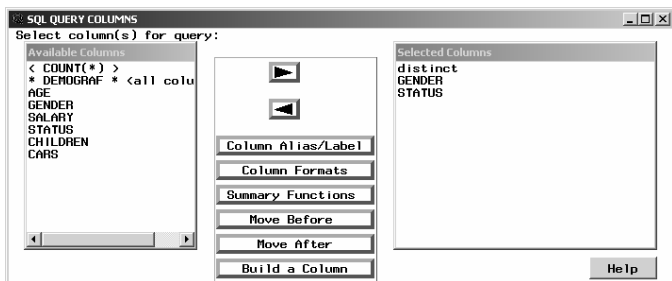


GENDER	STATUS
F	D
F	M
F	S
F	SEP
F	W
M	D
M	M
M	S
M	SEP

From the tool bar, select View/Distinct:

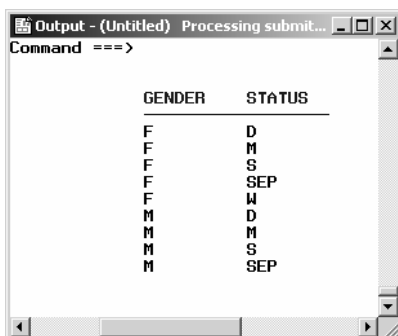


Next, select gender and status over to the Selected Columns section, as displayed below:



Run the query.

The following list output will be displayed:



The following HTML output will be displayed: