

Getting Started with SAS/INSIGHT®

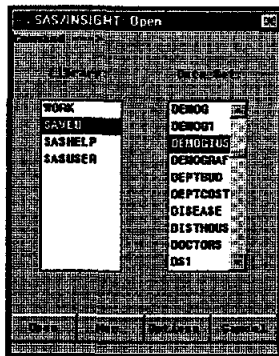
Developed and Written by Destiny Corporation

Working With Existing Data Sets

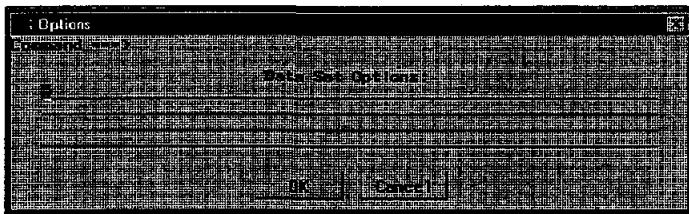
Let's invoke insight again, a different way and load an existing SAS data set. Submit the following code:

```
PROGRAM EDITOR
Command ==> submit
00001 proc insight;
00002 run;
00003
```

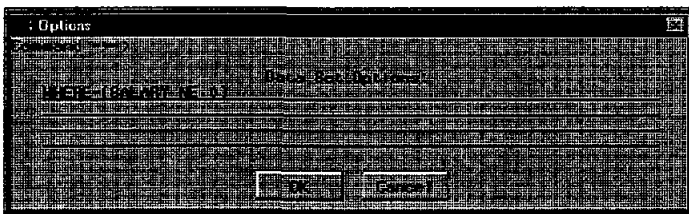
Select the following data set or one your instructor specifies.



Let's examine the Options button.



This is a location allowing us to specify standard data set options. Where, Drop, Keep and Rename are all available, including the other standards.

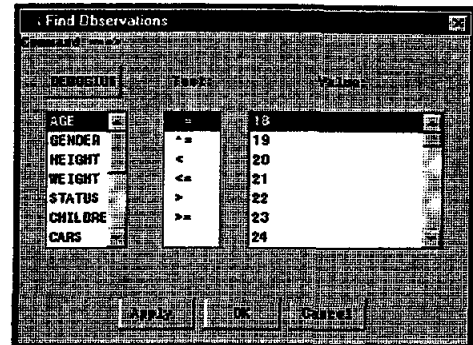


Select OK and OPEN and the data set is loaded.

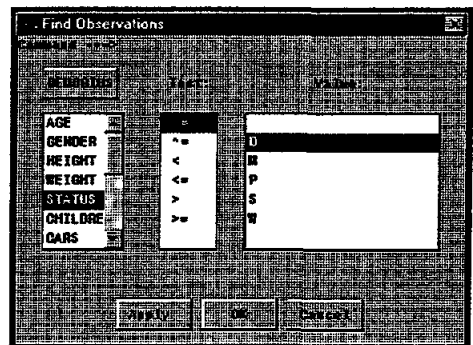
AGE	GENDER	HEIGHT	WEIGHT	STATUS	CHILDRE	CARS
18	M	65.6	72	S	0	0
21	F	63.0	62	M	2	1
22	F	64.0	62	S	1	1
22	M	64.0	60	S	0	1
28	M	66.0	76	D	1	1
28	M	67.0	82	S	2	0
28	F	66.0	62	S	0	0
30	F	66.0	63	P	1	1
31	M	67.0	69	M	0	2
36	M	61.0	65	M	2	1
36	F	63.0	71	W	1	1
38	M	68.0	74	M	2	1
40	M	66.0	81	M	2	1
42	M	71.0	76	M	1	2
42	M	74.0	68	M	3	2
43	F	62.0	73	M	2	0
44	M	70.0	68	M	1	2

Now, let's select particular observations. From the Pull-down Menu, Select Edit, Observations, and Find.

The Find Observations screen is displayed.



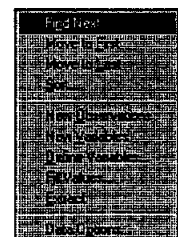
Select STATUS = 'D' for divorced.



Click  and the appropriate observations are highlighted.

AGE	GENDER	HEIGHT	WEIGHT	STATUS	CHILDRE	CARS
18	M	65.6	72	S	0	0
21	F	63.0	62	M	2	1
22	F	64.0	62	S	1	1
22	M	64.0	60	S	0	1
28	M	66.0	76	D	1	1
28	M	67.0	82	S	2	0
28	F	66.0	62	S	0	0
30	F	66.0	63	P	1	1
31	M	67.0	69	M	0	2
36	M	61.0	65	M	2	1
36	F	63.0	71	W	1	1
38	M	68.0	74	M	2	1
40	M	66.0	81	M	2	1
42	M	71.0	76	M	1	2
42	M	74.0	68	M	3	2
43	F	62.0	73	M	2	0
44	M	70.0	68	M	1	2

Now, selecting Find Next will take you to each of the selected observations in the SAS data set.



SAVED DEMOGIUS													
		AGE	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
26	M	66.0	76.0	1	1	Low	36	A					
28	F	67.0	82	2	0	11000	Low	36	A				9163
28	F	66.0	52	0	0	12050	Low	36	A				
30	F	66.0	63	1	1	16975	high	36	A				
31	M	67.0	69	0	2	26200	high	36	A				
36	M	61.0	65	2	1	30360	high	36	A				
36	F	63.0	71	1	1	10620	low	36	A				
38	M	66.0	74	2	1	26700	high	36	A				4886
40	M	66.0	81	2	1	19483	high	36	A				
42	M	71.0	75	1	2	29700	high	36	A				
42	M	74.0	68	3	2	28975	high	36	A				
43	F	62.0	73	2	0	13940	low	36	A				
44	M	70.0	68	1	2	24600	high	36	A				
46	M	68.0	72	3	1	37600	high	36	A				
49	M	71.0	78	1	2	18750	high	36	A				
62	M	68.0	68	2	2	36200	high	36	A				
66	F	67.0	71	2	1	14940	low	26	A				7849

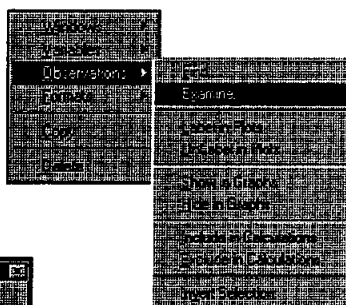


Again

SAVED DEMOGIUS													
		AGE	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
26	M	66.0	76.0	2	1	63870	high	26	B				
26	F	62.0	68	2	1	14612	low	36	B				
28	F	67.0	74	1	1	8870	low	36	B				506
27	M	66.5	76	2	1	12560	low	36	B				
27	M	70.0	72	0	1	20500	high	36	B				
29	M	66.0	69	0	1	22950	high	36	B				
34	M	78.0	64	3	2	11360	low	36	B				8612
36	M	70.0	66	1	2	18200	high	36	B				
38	M	67.0	75	3	2	26050	high	36	B				
40	M	68.0	82	0	0	47520	high	36	B				
45	F	62.5	72	1	1	16410	high	36	B				
45	M	67.0	72	1	1	27950	high	36	B				
47	M	64.0	73	4	2	36650	high	36	B				
47	M	72.0	67	3	2	28200	high	36	B				
48	F	65.0	68	2	1	15940	high	36	B				
49	M	67.0	65	2	1	29650	high	36	B				
67	F	67.0	68	5	0	22760	high	36	B				5876

To examine each of these observations, select Observations from the menu, and then Examine.

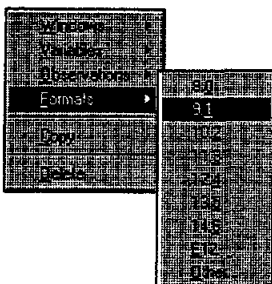
All of the selected observations are displayed, allowing you to examine the values in the variables individually.



Examine Observations													
		AGE	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
5		29											
28	F	67.0	82	2	0	11000	Low	36	A				
31	M	67.0	69	0	2	26200	high	36	A				
51		61.0	65	2	1	30360	high	36	A				
60		63.0	71	1	1	10620	low	36	A				
75		66.0	74	2	1	26700	high	36	A				
99		66.0	81	2	1	19483	high	36	A				
		71.0	75	1	2	29700	high	36	A				
		74.0	68	3	2	28975	high	36	A				
		62.0	73	2	0	13940	low	36	A				
		70.0	68	1	2	24600	high	36	A				
		68.0	72	3	1	37600	high	36	A				
		71.0	78	1	2	18750	high	36	A				
		68.0	68	2	2	36200	high	36	A				
		67.0	71	2	1	14940	low	26	A				

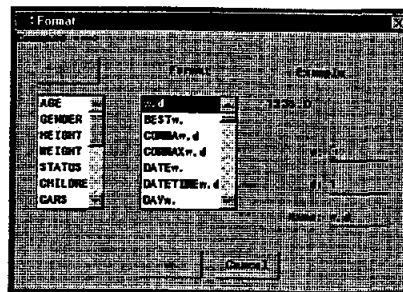
Examine Observations													
		AGE	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
5		26											
28	F	67.0	82	2	0	11000	Low	36	A				
31	M	67.0	69	0	2	26200	high	36	A				
64		61.0	65	2	1	30360	high	36	A				
68		63.0	71	1	1	10620	low	36	A				
75		66.0	74	2	1	26700	high	36	A				
99		66.0	81	2	1	19483	high	36	A				
		71.0	75	1	2	29700	high	36	A				
		74.0	68	3	2	28975	high	36	A				
		62.0	73	2	0	13940	low	36	A				
		70.0	68	1	2	24600	high	36	A				
		68.0	72	3	1	37600	high	36	A				
		71.0	78	1	2	18750	high	36	A				
		68.0	68	2	2	36200	high	36	A				
		67.0	71	2	1	14940	low	26	A				

Select when finished.

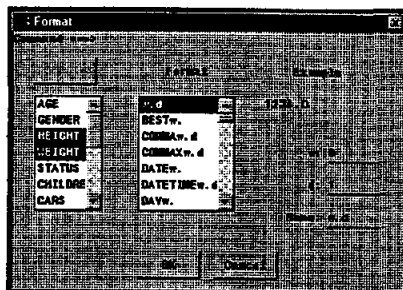


You can also apply formats to particular variables. Select Formats from the menu, and choose a format.

The following window appears.



Several variables can be selected and formatted.



SAVED DEMOGIUS													
		AGE	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
18	M	65.5	72.0	0	0	9008	low	36	A				
21	F	63.0	62.0	2	1	26410	high	36	A				
22	F	64.0	62.0	1	1	14200	low	36	A				
22	M	64.0	60.0	0	1	13592	low	36	A				
26	M	66.0	76.0	1	1	Low	36	A					
28	M	67.0	82.0	2	0	11000	low	36	A				
28	F	66.0	62.0	0	0	12050	low	36	A				
30	F	66.0	63.0	1	1	16975	high	36	A				
31	M	67.0	69.0	0	2	26200	high	36	A				
36	M	61.0	65.0	2	1	30360	high	36	A				
36	F	63.0	71.0	1	1	10620	low	36	A				
38	M	68.0	74.0	2	1	26700	high	36	A				
40	M	68.0	81.0	2	1	19483	high	36	A				
42	M	71.0	75.0	1	2	29700	high	36	A				
42	M	74.0	68.0	3	2	28975	high	36	A				
43	F	62.0	73.0	2	0	13940	low	36	A				
44	M	70.0	68.0	1	2	24600	high	36	A				

Select when finished.

Insight also gives the ability to delete currently selected observations. Select Delete from the Edit menu, and the observations are removed from this table.

SAVED DEMOGIUS													
		AGE	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
18	M	65.5	72.0	0	0	9008	low	36	A				
21	F	63.0	62.0	2	1	26410	high	36	A				
22	F	64.0	62.0	1	1	14200	low	36	A				
22	M	64.0	60.0	0	1	13592	low	36	A				
26	M	66.0	76.0	1	1	Low	36	A					
28	M	67.0	82.0	2	0	11000	low	36	A				
28	F	66.0	62.0	0	0	12050	low	36	A				
30	F	66.0	63.0	1	1	16975	high	36	A				
31	M	67.0	69.0	0	2	26200	high	36	A				
36	M	61.0	65.0	2	1	30360	high	36	A				
36	F	63.0	71.0	1	1	10620	low	36	A				
38	M	68.0	74.0	2	1	26700	high	36	A				
40	M	68.0	81.0	2	1	19483	high	36	A				
42	M	71.0	75.0	1	2	29700	high	36	A				
42	M	74.0	68.0	3	2	28975	high	36	A				
43	F	62.0	73.0	2	0	13940	low	36	A				
44	M	70.0	68.0	1	2	24600	high	36	A				
46	M	68.0	72.0	3	1	37600	high	36	A				

To rearrange the order of the table columns and rows, select Tools from the Edit, Windows pull down menus.

The Box window appears.



This is a window that allows selection of data and manipulation of the data.

Select the hand for manipulation of the data.

AGE	SEX	HEIGHT	WEIGHT	STATUS	CHILDREN	CARS	SALARY	GRADE	HOURS	DEPT
22	F	65.0	52.0	1	1	14200	low	36	A	
22	M	64.0	52.0	1	1	13682	low	36	A	
28	M	67.0	52.0	2	0	11008	low	36	A	
28	F	65.0	52.0	0	0	12060	low	36	A	
30	F	63.0	52.0	1	1	16875	high	36	A	
31	M	68.0	52.0	0	2	25200	high	36	A	
36	M	65.0	52.0	2	1	30360	high	36	A	
36	F	71.0	52.0	1	1	10620	low	36	A	
36	M	74.0	52.0	2	1	25700	high	36	A	
40	M	61.0	52.0	2	1	19483	high	36	A	
42	M	76.0	52.0	1	2	29700	high	36	A	
42	M	68.0	52.0	3	2	28975	high	36	A	
43	F	73.0	52.0	2	0	13840	low	36	A	
44	M	68.0	52.0	1	2	24600	high	36	A	
46	M	72.0	52.0	3	1	37600	high	36	A	

Point with the hand to the column you wish to move.

AGE	SEX	HEIGHT	WEIGHT	STATUS	CHILDREN	CARS	SALARY	GRADE	HOURS	DEPT
21	F	62.0	52.0	2	1	25410	high	36	A	
22	F	62.0	52.0	1	1	14200	low	36	A	
22	M	60.0	52.0	0	1	13682	low	36	A	
28	M	62.0	52.0	2	0	11008	low	36	A	
28	F	62.0	52.0	0	0	12060	low	36	A	
30	F	63.0	52.0	1	1	16875	high	36	A	
31	M	68.0	52.0	0	2	25200	high	36	A	
36	M	65.0	52.0	2	1	30360	high	36	A	
36	F	71.0	52.0	1	1	10620	low	36	A	
36	M	74.0	52.0	2	1	25700	high	36	A	
40	M	61.0	52.0	2	1	19483	high	36	A	
42	M	76.0	52.0	1	2	29700	high	36	A	
42	M	68.0	52.0	3	2	28975	high	36	A	
43	F	73.0	52.0	2	0	13840	low	36	A	
44	M	68.0	52.0	1	2	24600	high	36	A	
46	M	72.0	52.0	3	1	37600	high	36	A	

Drag the column to the destination location.

AGE	SEX	HEIGHT	WEIGHT	STATUS	CHILDREN	CARS	SALARY	GRADE	HOURS	DEPT
21	F	62.0	52.0	2	1	25410	high	36	A	
22	F	62.0	52.0	1	1	14200	low	36	A	
22	M	60.0	52.0	0	1	13682	low	36	A	
28	M	62.0	52.0	2	0	11008	low	36	A	
28	F	62.0	52.0	0	0	12060	low	36	A	
30	F	63.0	52.0	1	1	16875	high	36	A	
31	M	68.0	52.0	0	2	25200	high	36	A	
36	M	65.0	52.0	2	1	30360	high	36	A	
36	F	71.0	52.0	1	1	10620	low	36	A	
36	M	74.0	52.0	2	1	25700	high	36	A	
40	M	61.0	52.0	2	1	19483	high	36	A	
42	M	76.0	52.0	1	2	29700	high	36	A	
42	M	68.0	52.0	3	2	28975	high	36	A	
43	F	73.0	52.0	2	0	13840	low	36	A	
44	M	68.0	52.0	1	2	24600	high	36	A	
46	M	72.0	52.0	3	1	37600	high	36	A	

Drop the column in the desired location.

AGE	SEX	HEIGHT	WEIGHT	STATUS	CHILDREN	CARS	SALARY	GRADE	HOURS	DEPT
21	F	62.0	52.0	2	1	25410	high	36	A	
22	F	62.0	52.0	1	1	14200	low	36	A	
22	M	60.0	52.0	0	1	13682	low	36	A	
28	M	62.0	52.0	2	0	11008	low	36	A	
28	F	62.0	52.0	0	0	12060	low	36	A	
30	F	63.0	52.0	1	1	16875	high	36	A	
31	M	68.0	52.0	0	2	25200	high	36	A	
36	M	65.0	52.0	2	1	30360	high	36	A	
36	F	71.0	52.0	1	1	10620	low	36	A	
36	M	74.0	52.0	2	1	25700	high	36	A	
40	M	61.0	52.0	2	1	19483	high	36	A	
42	M	76.0	52.0	1	2	29700	high	36	A	
42	M	68.0	52.0	3	2	28975	high	36	A	
43	F	73.0	52.0	2	0	13840	low	36	A	
44	M	68.0	52.0	1	2	24600	high	36	A	
46	M	72.0	52.0	3	1	37600	high	36	A	

The same can be done with observations. Highlight the observation you wish to move.

AGE	SEX	HEIGHT	WEIGHT	STATUS	CHILDREN	CARS	SALARY	GRADE	HOURS	DEPT
21	F	62.0	52.0	2	1	25410	high	36	A	
22	F	62.0	52.0	1	1	14200	low	36	A	
22	M	60.0	52.0	0	1	13682	low	36	A	
28	M	62.0	52.0	2	0	11008	low	36	A	
28	F	62.0	52.0	0	0	12060	low	36	A	
30	F	63.0	52.0	1	1	16875	high	36	A	
31	M	68.0	52.0	0	2	25200	high	36	A	
36	M	65.0	52.0	2	1	30360	high	36	A	
36	F	71.0	52.0	1	1	10620	low	36	A	
36	M	74.0	52.0	2	1	25700	high	36	A	
40	M	61.0	52.0	2	1	19483	high	36	A	
42	M	76.0	52.0	1	2	29700	high	36	A	
42	M	68.0	52.0	3	2	28975	high	36	A	
43	F	73.0	52.0	2	0	13840	low	36	A	
44	M	68.0	52.0	1	2	24600	high	36	A	
46	M	72.0	52.0	3	1	37600	high	36	A	

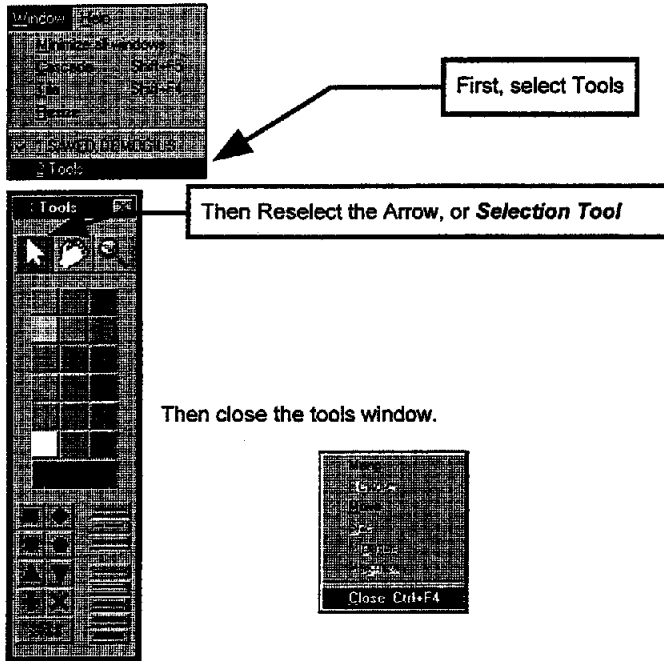
Drag it to the destination you desire.

AGE	SEX	HEIGHT	WEIGHT	STATUS	CHILDREN	CARS	SALARY	GRADE	HOURS	DEPT
21	F	62.0	52.0	2	1	25410	high	36	A	
22	F	62.0	52.0	1	1	14200	low	36	A	
22	M	60.0	52.0	0	1	13682	low	36	A	
28	M	62.0	52.0	2	0	11008	low	36	A	
28	F	62.0	52.0	0	0	12060	low	36	A	
30	F	63.0	52.0	1	1	16875	high	36	A	
31	M	68.0	52.0	0	2	25200	high	36	A	
36	M	65.0	52.0	2	1	30360	high	36	A	
36	F	71.0	52.0	1	1	10620	low	36	A	
36	M	74.0	52.0	2	1	25700	high	36	A	
40	M	61.0	52.0	2	1	19483	high	36	A	
42	M	76.0	52.0	1	2	29700	high	36	A	
42	M	68.0	52.0	3	2	28975	high	36	A	
43	F	73.0	52.0	2	0	13840	low	36	A	
44	M	68.0	52.0	1	2	24600	high	36	A	
46	M	72.0	52.0	3	1	37600	high	36	A	

Drop it on that destination.

SAVED DEMOGIUS										
ID	AGE	HEIGHT	WEIGHT	STATUS	CHILDRE	CARS	SALARY	GRADE	SEX	RACE
10	M	66.0	72.0	S	0	0	9008	low	35	A
21	F	63.0	62.0	M	2	1	29410	high	35	A
22	F	64.0	62.0	S	1	1	14200	low	35	A
23	M	64.0	60.0	S	0	1	13692	low	35	A
28	M	67.0	62.0	S	2	0	11000	low	35	A
29	F	68.0	62.0	S	0	0	12060	low	35	A
30	F	68.0	63.0	P	1	1	16875	high	35	A
31	M	67.0	69.0	M	0	2	25200	high	35	A
36	M	61.0	66.0	M	2	1	30360	high	35	A
36	F	63.0	71.0	V	1	1	10620	low	35	A
40	M	68.0	61.0	M	2	1	19420	high	35	A
38	M	68.0	74.0	M	2	1	25700	high	35	A
42	M	71.0	76.0	M	1	2	29700	high	35	A
42	M	74.0	66.0	M	3	2	28975	high	35	A
43	F	62.0	73.0	M	2	0	13940	low	35	A
44	M	70.0	68.0	M	1	2	24600	high	35	A
46	M	68.0	72.0	P	3	1	37600	high	35	A

Turn off the hand selection in the Tools window.

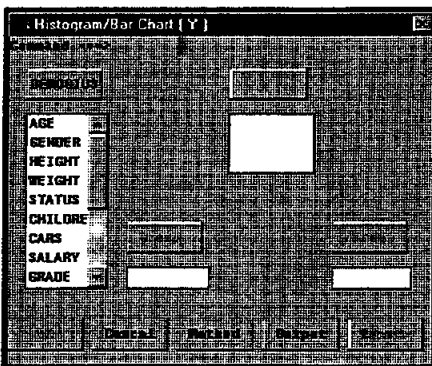


Histogram/Bar Chart(Y)

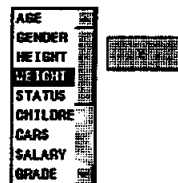
Let's start a bar chart from the Analyze menu.



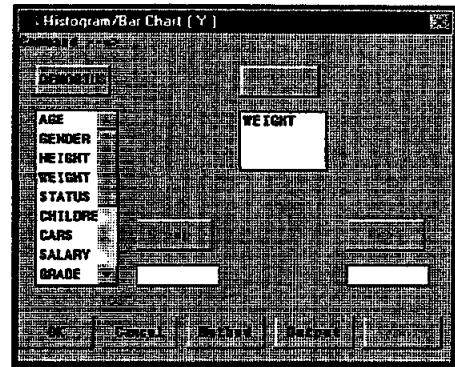
The following window appears asking for variables to specify.



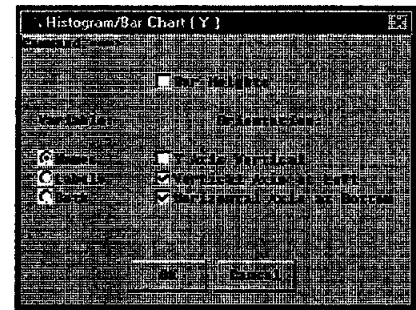
Select WEIGHT as Y...



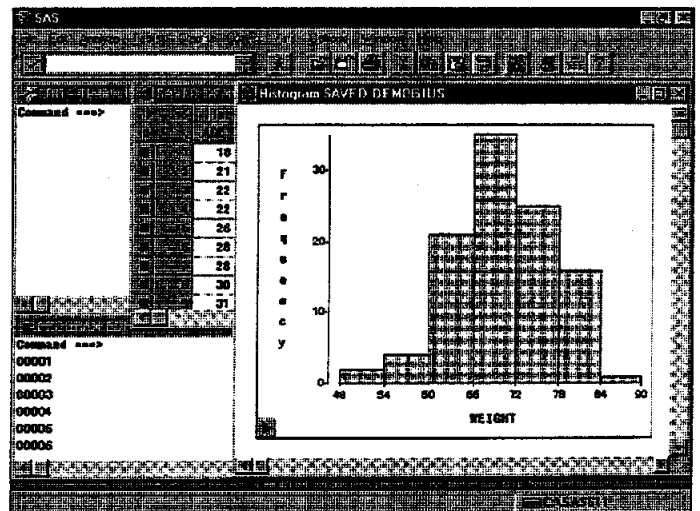
...to get the following.



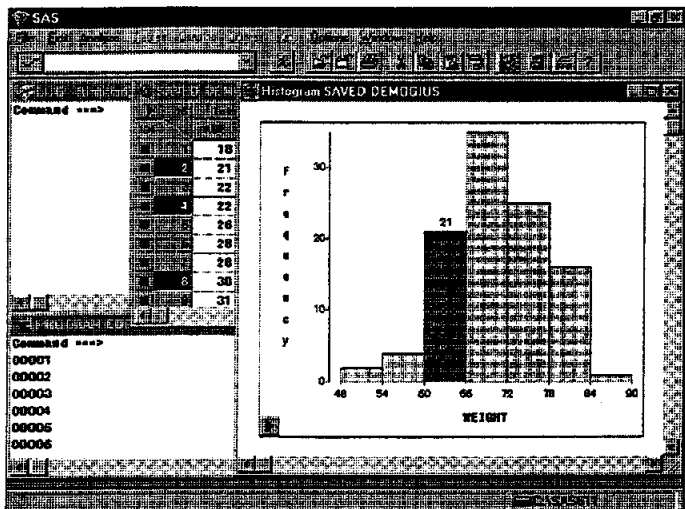
To customize what we want to see from this bar chart, select **Options**.



At this time, we won't change anything, so select **OK**. Then select **OK**, and the following Histogram appears.



Clicking on one of the bars allows the selection of the corresponding observations in the data table and a display of the value (frequency) on the bar chart.



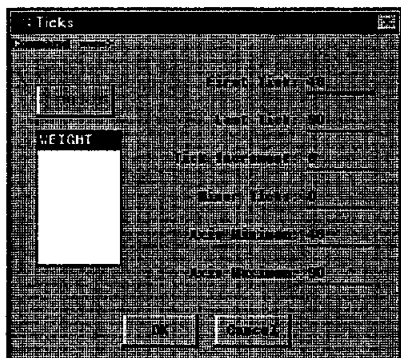
Double clicking on the bar displays the following Examine Observations window showing all of the corresponding observations and their variables.

Observation	AGE	GENDER	HEIGHT	WEIGHT	STATUS	CHILDREN	CARS	SALARY	GRADE	HOURS
2	21	F	63.0	62	M	2	1	25410	high	35

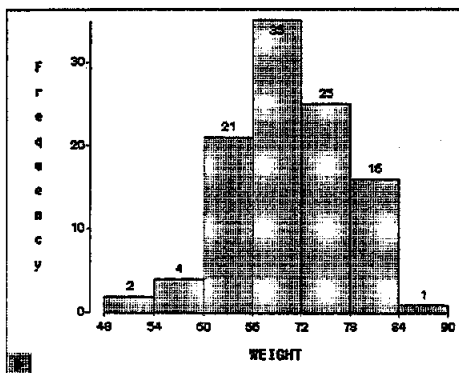
Select OK to end this window and on the Histogram, click the right mouse button or select the right arrow button to get the following menu.



This menu allows for customization of the graph. Select Ticks to display the Ticks window.



Select Values to display the values on the Bar Chart.



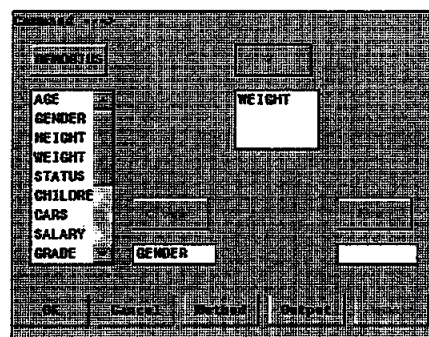
End out of the histogram and let's look at Grouping the data. Highlight the variable desired for grouping the histogram and click the right mouse button to get the following scenario.

GENDER	AGE	HEIGHT	WEIGHT	STATUS	CHILDREN	CARS	SALARY	GRADE	HOURS
10 M	72 S	0	0	3008	low				
21 F	62 M	2	1	25410	high				
22 F	62 S	1	1	14200	low				
22 M	60 S	0	1	13522	low				
26 M	68.0	76.0	1	1	low				
28 M	67.0	82	2	0	11008	low			
28 F	58.0	62 S	0	0	12050	low			
30 F	58.0	63 P	1	1	16875	high			
31 M	67.0	68 M	0	2	26200	high			



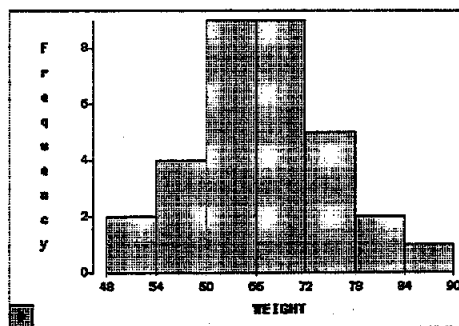
Select the Histogram/Bar Chart (Y) menu item.

Specify the variable WEIGHT. Notice the existence of the Y variable.



Upon selecting OK, the following bar chart appears for the first grouping value.

GENDER = F



Scatter Plot (Y X)

Select the following from this menu.



The following screen appears.

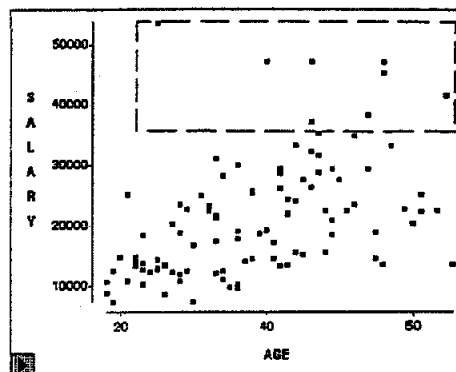
Configure it for the variables SALARY as Y and AGE as X.

AGE
GENDER
HEIGHT
WEIGHT
STATUS
CHILDREN
CARS
SALARY
GRADE

SALARY AGE

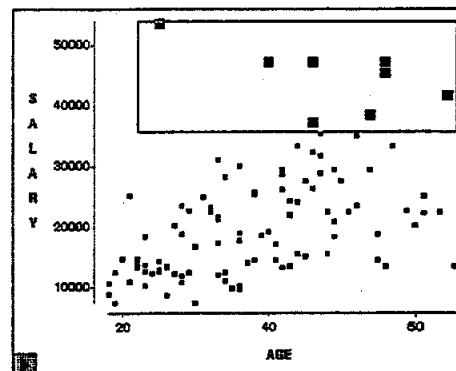
Configure it for the variables SALARY as Y and AGE as X.

Select ☒ to see this scatter plot.

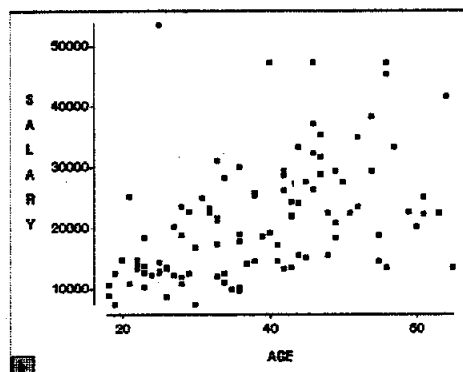


To select an area of observations on the plot, simply highlight them.

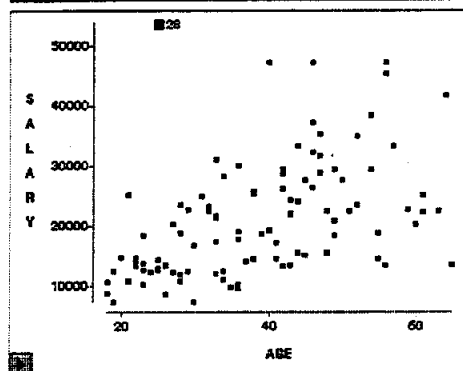
They now appear as follows.



Now, we can examine all of the observations that apply.



To view a particular point, simply click on the point of interest.



The observation number is displayed. Double clicking on it displays the following window.

Observation: 28

AGE	46
GENDER	M
HEIGHT	68.0
WEIGHT	72
STATUS	P
CHILDREN	3
CARS	1
SALARY	37600
GRADE	high
HOURS	35

Observation: 91

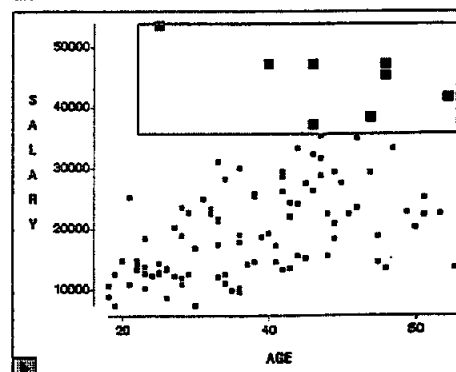
AGE	56
GENDER	F
HEIGHT	52.0
WEIGHT	60
STATUS	M
CHILDREN	3
CARS	2
SALARY	47620
GRADE	high
HOURS	25

Selecting ☒ returns us to the plot.

Observation: 28

AGE	25
GENDER	M
HEIGHT	65.0
WEIGHT	76
STATUS	D
CHILDREN	2
CARS	1
SALARY	63870
GRADE	high
HOURS	25

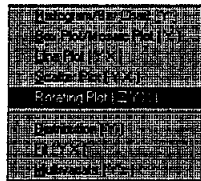
Selecting ☒ returns you to the plot.



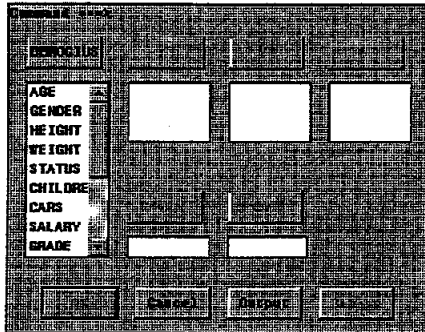
Click outside the highlighted area to remove the selection.

Rotating Plot (Z Y X)

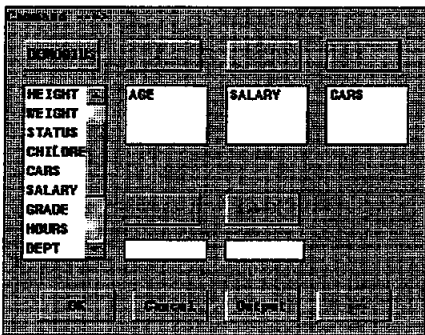
To create a rotating plot, select the following.



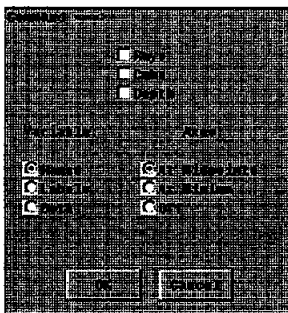
The following screen appears.



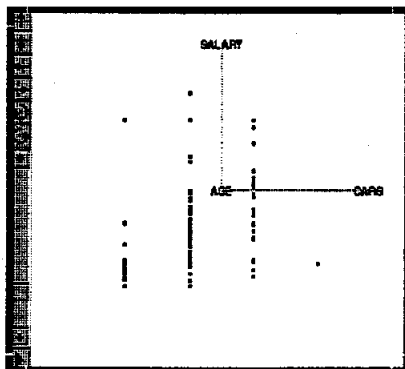
Change the Z, Y, and X axes to the following.



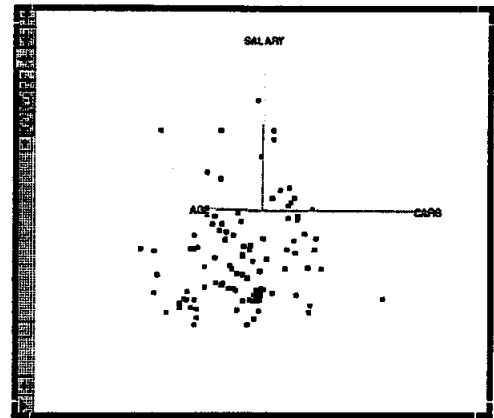
Select **INPUT** to see the ways we can customize this rotating plot.



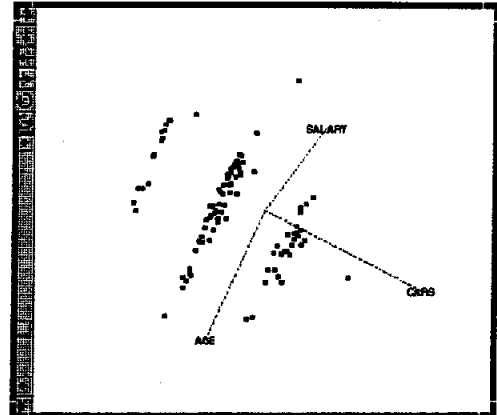
Then click **OK** and **OK** again to see it.



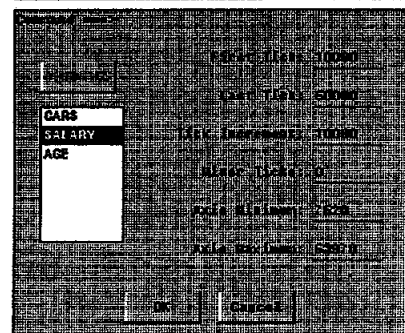
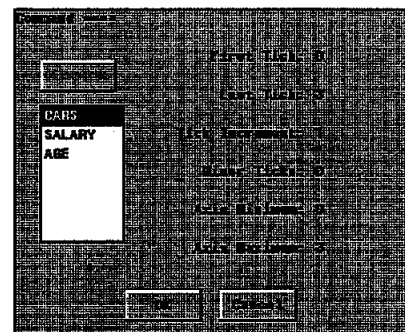
To enlarge the plot, click on the border of the plot and drag it to enlarge it.

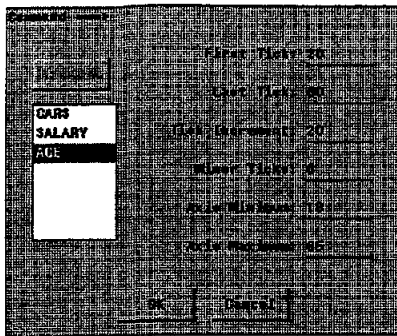


There are also buttons that allow rotation of the plot. Try them.



Right click or select the right arrow to display the customization menu. Tick increments can be specified per variable.





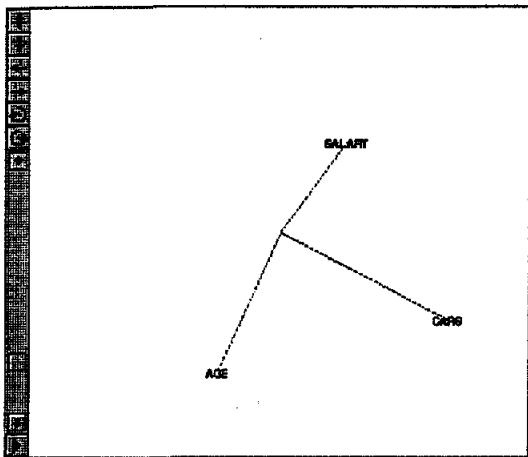
The axes can be specified.



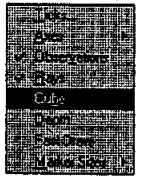
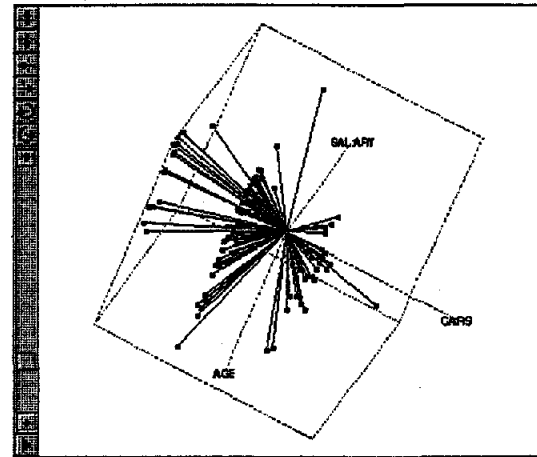
Observations can be displayed or hidden.



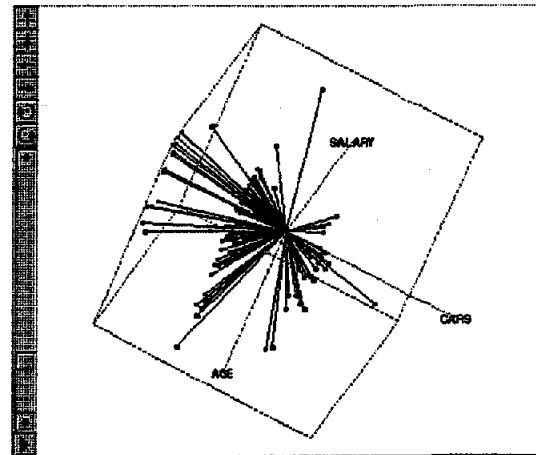
The following shows the plot with observations turned off.



A cube can be drawn around the points to give dimension to the plot.



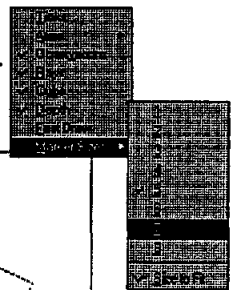
Depth allows you to add perspective. Points closer are large and points further are smaller.



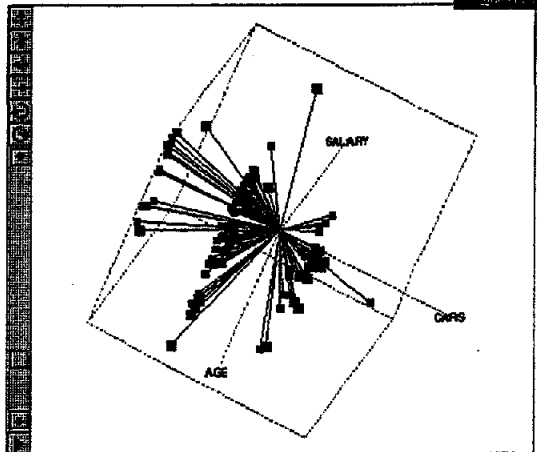
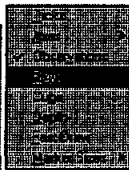
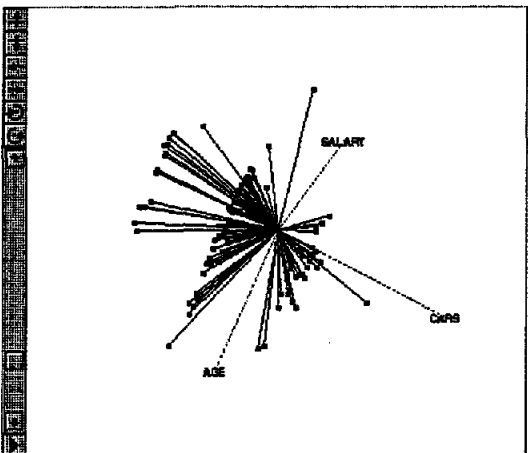
To toggle any dynamic display algorithms specified, select Fast Draw.



Marker Sizes can be adjusted.

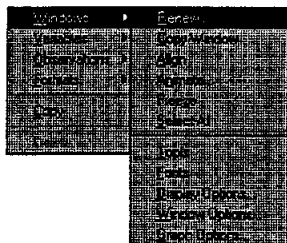


Rays can be added that extend from the center out to each point.



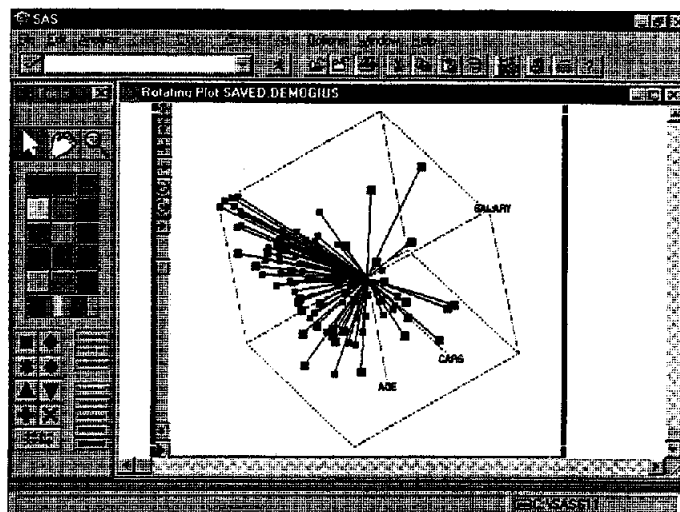
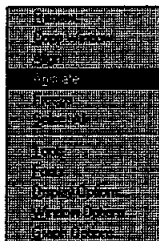
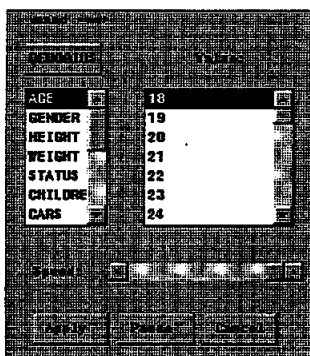
The Windows Menu

Let's examine the Windows Menu and it's options.

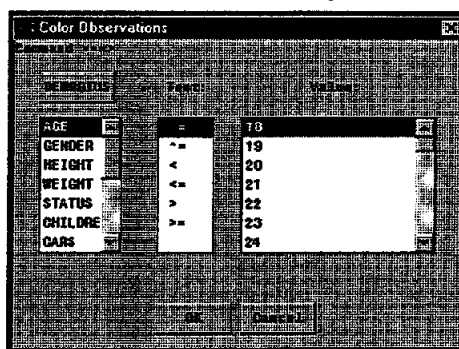


- Renew————— restores the original state of this window.
- Copy Window —— creates a copy of the window to work with.
- Align————— aligns the graphs in the window.
- Animate———— animates the movement between observations.
- Freeze————— freezes this window so no changes affect its display.
- Select All —— selects all of the observations.

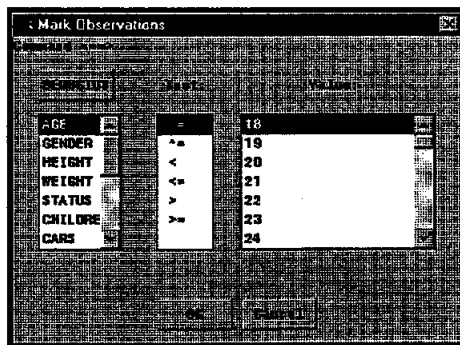
Let's demonstrate Animate. This is designed to allow you to find certain objects on the plot and to understand their relationship to each other. As each observation is highlighted in this list box, the point on the plot is enlarged. Try it.



In the Tools Menu, we can select observations to display in a certain color. Select any one of the color buttons to get this window.

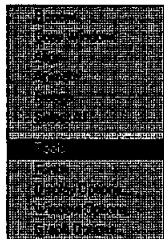


Select the algorithm for observation selection for this color.



Tools Menu

The Tools Menu brings up the Tools window to allow selections of data and the way they are displayed.

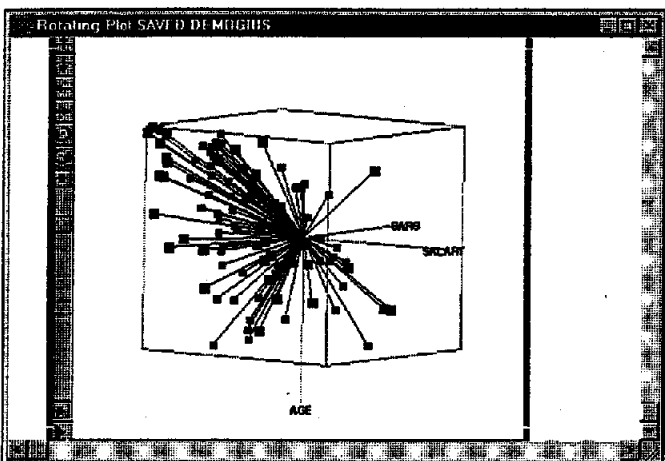
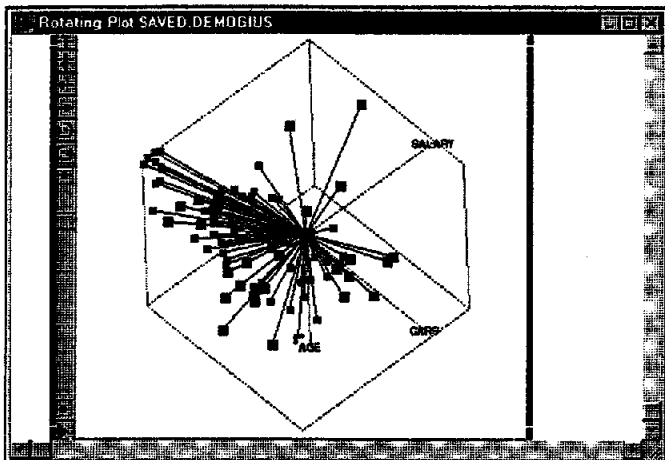
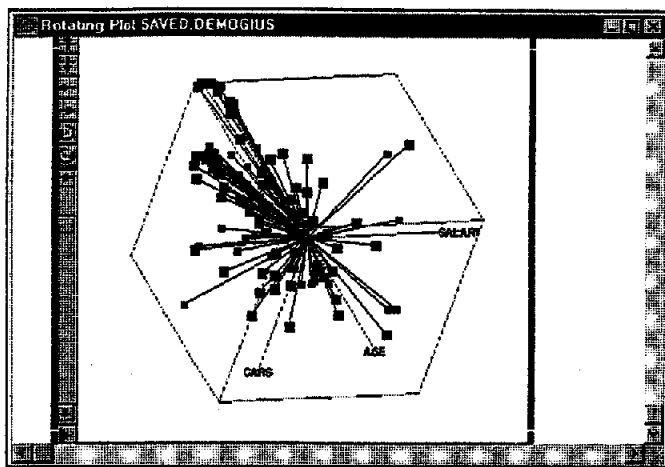


The following Tools Menu is displayed. Adjust your screen to look like the following so the plot is also displayed.



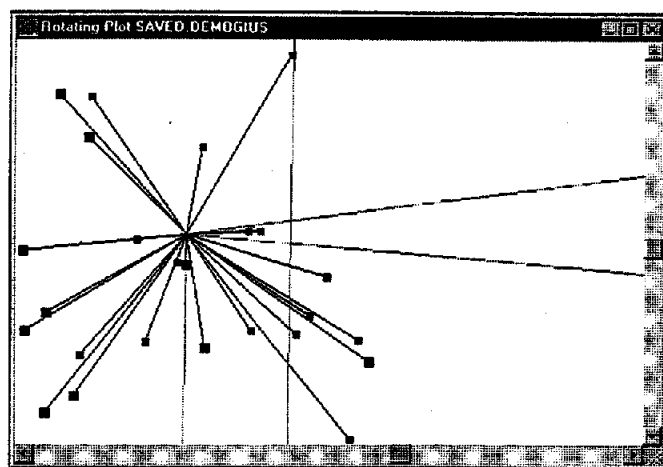
In the Tools Menu, we can select observations to display in a certain marker, i.e. Diamond, Square, Circle, etc. Select any one of the marker buttons to get this window.

We can also use the Hand to manually rotate the plot. Try this and then move the hand around the plot.

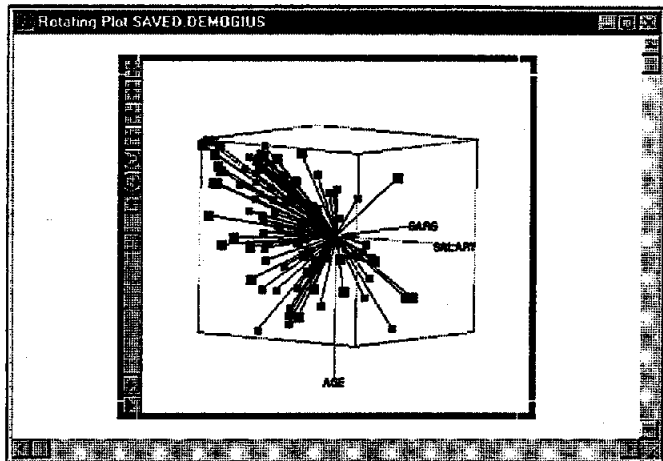


To Zoom in and out of certain areas on the plot, select the magnifying glass .

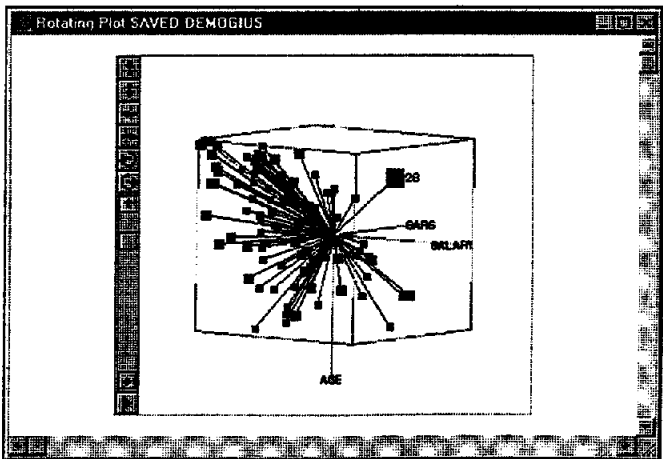
Repeated clicks with the mouse on the plot allow you to zoom in on it.



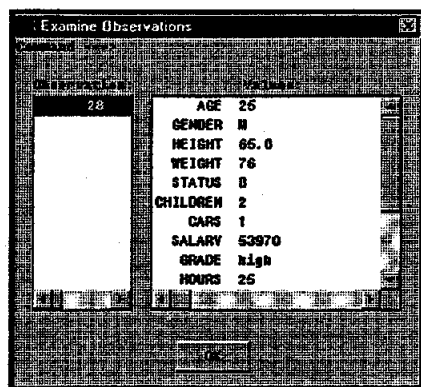
Zooming back out can be done with repeated clicks outside or at the edge of the plot.



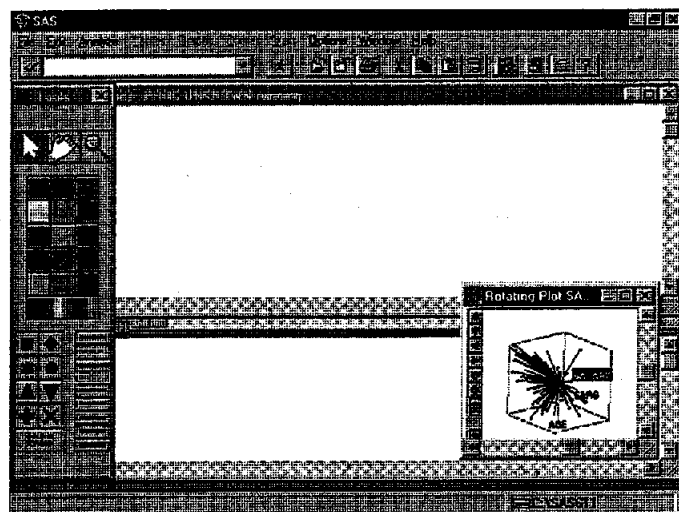
To select a point, click on it and its observation number will be displayed.



Double click on it and the Examine Observations window is displayed.



Then reselect the arrow on the tool bar 



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