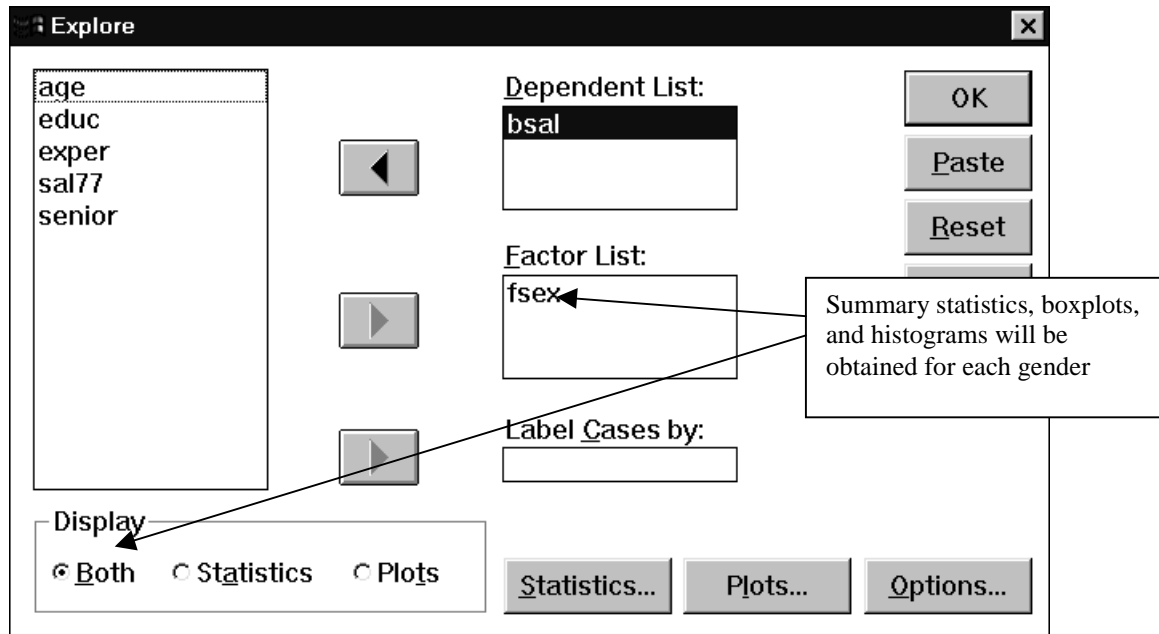


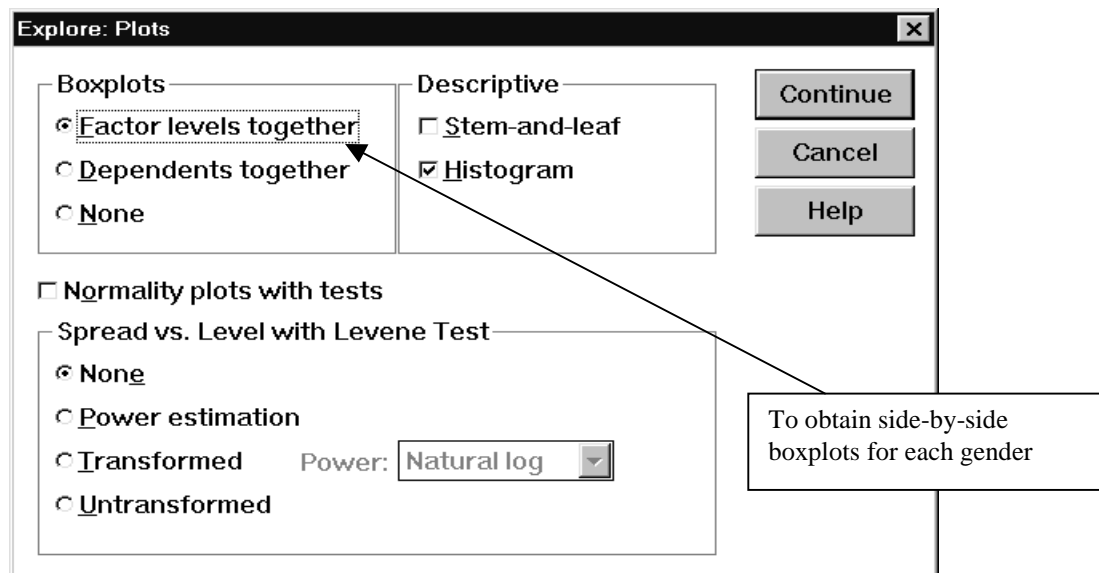
SEX DISCRIMINATION PROBLEM

11. Obtaining histograms and boxplots for each gender

In order to obtain a histogram of the beginning salary for each gender category, click on *Statistics* in the main menu, select *Summarize*, and then *Explore* from the pull-down menu. Fill out the *Explore* dialog box as follows:

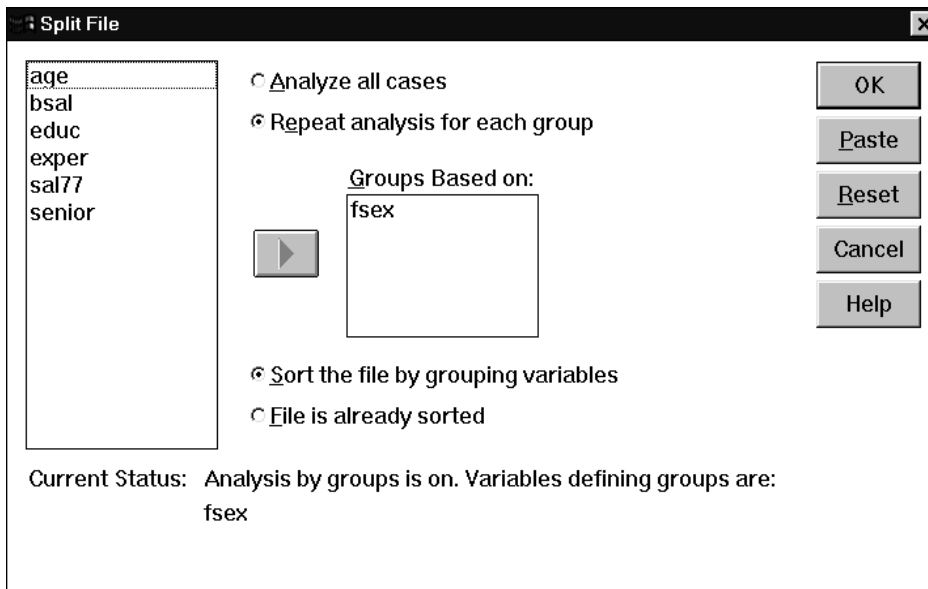


Then click on *Plots...* to obtain the dialog box:



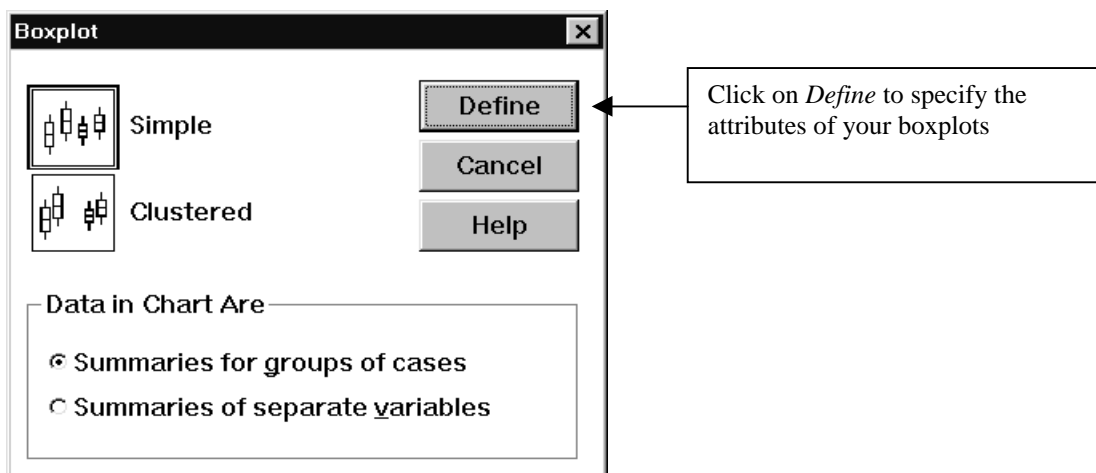
Notice that in the first dialog box displayed above we checked on *Both* (*Statistics* and *Plots*) in the output, and in the second dialog box we checked on *Boxplots*. As a result, not only the histograms but also boxplots, and summary statistics of starting salary for each gender group will be produced by SPSS. The results are displayed in **Sections 4.1** and **4.2**.

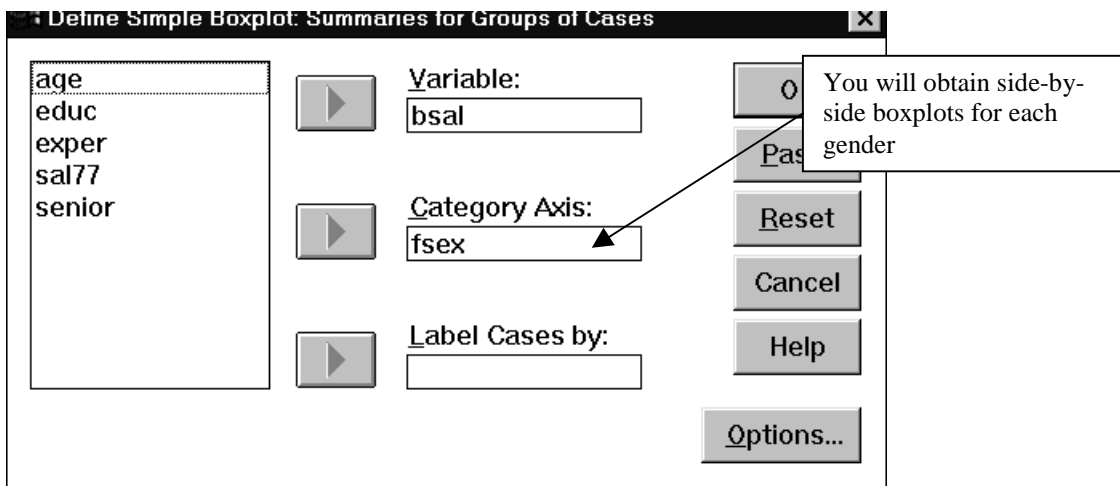
Alternatively, you might obtain the histograms and boxplots for each gender category by dividing first the data file into two files, one with the male observations, and the other one with the female observations. Click on *Data* in the menu, and then select *Split File* command.



Check *Repeat analysis for each group* button and click OK. Now any statistical analysis will be carried out separately for each of the two gender categories. To obtain a histogram for each gender, click on *Histogram* in the *Graphs* pull-down menu. In order to work with the full data, you have to open *Split File* again, and check the *Analyze all cases* radio button.

In order to obtain boxplots, click on *Data*, then on *Split File...* and make the analysis by groups off by selecting *Analyze all cases* button. Then choose *Boxplot...* in the *Graphs* pull-down menu. You will obtain the following dialog box:





Click OK in the above dialog box to obtain two boxplots of beginning salaries for each gender.