Homework Solutions Applied Regression Analysis

WEEK 2

Exercise One

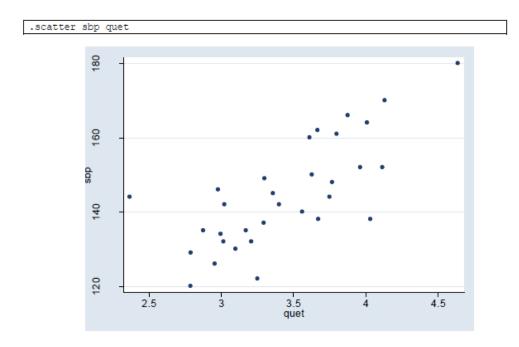
Generate scatter diagrams for each of the following variable pairs:

1. SBP (Y) vs. QUET (X)

In the command window, enter '.scatter sbp quet'

This will produce the scatterplot of SBP (Y) and QUET (X). The resulting scatterplot displayed should resemble the screenshot depicted below

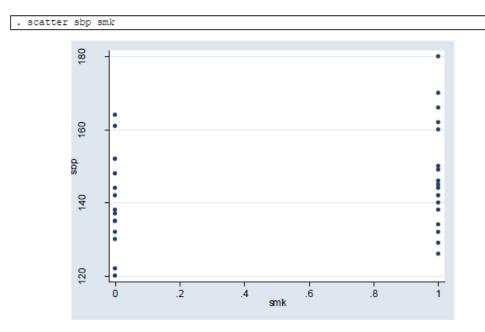
(Note: Stata is case-sensitive so the variables should be lower-case if that is how they are coded in the dataset).



2. SBP (Y) vs. SMK (X)

In the command window, enter '.scatter sbp smk'.

This will produce the scatterplot of SBP (Y) and SMK (X). The resulting scatterplot displayed should resemble the screenshot depicted below.



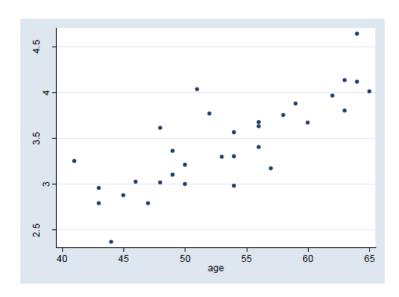
Note: Smoking is a binary variable, therefore we should not expect to see an even scatter of observations as with the other plots containing continuous variables.

3. QUET (Y) vs. AGE (X)

In the command window, enter '.scatter quet age'.

This will produce the scatterplot of QUET (Y) and AGE (X). The resulting scatterplot displayed should resemble the screenshot depicted below.





4. SBP (Y) vs. AGE (X)

In the command window, enter '.scatter sbp age'.

This will produce the scatterplot of SBP (Y) and AGE (X). The resulting scatterplot displayed should resemble the screenshot depicted below.

