Exercise: Tables and Graphs

Task 1

Open the pre-installed dataset „auto.dta". Use a loop to perform group-wise regressions of price on the following variables: mpg weight length headroom. The group variable should be "foreign".

Task 2

Create 4 vectors (A, B, C, D) which have as many rows as there are groups. Vector A should have the levels of the group variable as rownames.

Task 3

Let Stata store the following values in your vectors: the number of observations in each regression (in vector A), the coefficient of weight (in vector B), the lower CI bound (in vector C), the upper CI bound (in vector D).

Task 4

Use the user-written command "frmttable" to create a nice-looking table from these vectors you created. You may need to install the command first.* Try to add column titles and indicate the desired number of decimal places for each column. Export the table to word.

Task 5

Using the information given in the help-file of "frmttable", try to solve the following tasks:

    a. Modify your dofile such that users can decide at the top of the dofile whether the created table should be in Word or Latex format (Hint: This will require an if-condition in your code).

    b. Make Stata display standard deviations in parentheses below the coefficients.

    c. Add significance stars to the column containing the coefficients.

Task 6

Now a create a bar graph that shows the coefficients as bars, along with confidence intervals to show whether there is a different relationship between weight and price for foreign and domestic cars. You can either use the command coefplot for this or do it by hand using a bar graph. Adjust the y-axis, labels on the x-axis, and the legend, and add a title to the graph. Save the graph as picture file.

* The command can be downloaded by writing "net install sg97_5, from(http://www.stata-journal.com/software/sj12-4/)".