Assignment 3

Using the api dataset, (https://stats.idre.ucla.edu/stat/stata/seminars/svy_stata_intro/apipop) complete the following steps for each type of school: elementary, middle school, and high schools. Do this by creating a loop structure around the following steps.

- 1. Create a series of macros, one for each of the following characteristics of schools: parents, teachers and student.
- 2. Create a table of descriptive statistics for these variables using the esttab command. Make sure it is clearly labeled.
- 3. Generate a table of conditional means of api00 as a function of other interesting independent variables.
- 4. Create a scatterplot or scatterplots that display some of the key relationships in the data. Clearly label this scatterplot.
- 5. Run a series of regressions, one for each "set" of characteristics and one fully specified model, with api00 as the dependent variable.
- 6. Report the results of your regression in a beautifully formatted table.
- 7. Create a graphic the shows the impact of the various independent variables on the outcome variable. Clearly label and describe this graphic.

Submit a do file that will accomplish all of these steps. Submit a word file that includes all of your graphics and tables.