Dis 7: Stata Q&A

Check out the solution from Dis 3 (Stata Review) when doing your Stata problem set.
You can use that discussion's solution and this as a guide when completing your Stata problem set.

1 Stata Exercise

Before we start the Q&A part of this section, let's look at one Stata exercise together. This exercise uses the same dataset given in your Stata Assignment (that's due Dec 10 @ 11pm on Canvas).

You are given a dataset that is created by a collaboration between the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute.

The dataset contains variables from the 2019 Wisconsin County Health Rankings.

1. First thing first, let's make sure we can keep track of your work and your results.
   (a) To keep track of your results, clear out the Results panel.
   (b) To keep track of your work / code, create a Do-file with the first line as a comment, and put your name down there.
   (c) Set up the Do-file environment before proceeding.

2. The dataset has been given in `.csv` and `.dta`. The files are on Canvas under the following names:

   Econ 310 Stata Assignment Data.csv
   Econ 310 Stata Assignment Data.dta

   Load the data into Stata environment.

3. Describe your data using the **describe** command.
4. Browse the variable related to Percent Unemployed only.
5. Create a histogram of Percent Unemployed, and save it as a PNG file called "q5_histogram.png". Is the distribution of Percent Unemployed skewed in any way?

6. What's the mean, variance, and the 10th percentile of Percent Unemployed?

7. Create a scatter plot between Percent Unemployed and Percent Some College for observations where Percent Some College is above 50.
8. What is the correlation between Percent Unemployed and Percent Some College for observations where Percent Some College is above 50? Interpret the correlation measure.

9. Export your Stata output result as a PDF file.

2 Exam 2 Question Revisit

[This part of the handout is released at 5:30pm on Oct 21 (after Exam 2 has closed for all students)]

1. The amount of money spent by UW Madison students at Best Buy in August is a normal random variable with a mean of $650 and standard deviation of $150. Find the interquartile range for this variable.