Getting started with Stata 2017: Exercise Set

4. september 2017

1. Import excel data (country_long). Save it as Stata data.
2. Start a do-file. Declare version. Change directory. Open log.
3. Load data.
4. Label your data.
5. Label the variables *mortrate_under5*, *area* and *oecd*
6. Rename *exp* and *imp* to *export* and *import*
7. Browse data. Check for duplicates.
8. Generate the variables import as a percentage of GDP and export as a percentage of GDP.
9. Describe and summarize
10. Replace all zero values in *gdp* with 1.
11. Make a new variable called *ten* where all the values are equal to 10.
12. Get rid of all zero values for *mobile*, *population, export* and *import*.
13. Replace zero values in *life_exp* and *mortrate_under5* with their respective averages
14. Drop if *gdp* is 1. Drop the variable *ten*.
15. Generate a dummy variable that is 1 if GDP is above average and 0 if else.
16. Test the hypotheses H0: *pop_growth*=0 versus H1: *pop_growth*$\neq$0
17. Create a correlation matrix of GDP per capita, import as a percentage of GDP and export as a percentage of GDP?
18. Make a scatter plot of import as a percentage of GDP and export as a percentage of GDP. Label x and y axis. Save it
19. Make a histogram of export and *mortrate_under5*. Save one of them.
20. Estimate the linear model $gdp\_cap = \beta_0 + \beta_1 \cdot x_1 + \beta_2 \cdot x_2 + \beta_3 \cdot life\_exp$ where $x_1$is import as a percentage of GDP and $x_2$is export as a percentage of GDP. Store the results.
21. Estimate the linear model $gdp\_cap = \beta_0 + \beta_1 \cdot x_1 + \beta_2 \cdot x_2 + \beta_3 \cdot mortrate\_under5$ where $x_1$is import as a percentage of GDP and $x_2$is export as a percentage of GDP. Store the results.
22. Create a nice table with the results from both estimations
23. Save your new data set as dta
24. Close log and translate it into PDF