*Module 1, Week 1, gretl problem set 1*

Use the “Country data” dataset and gretl to answer the following questions.

1. How many observations are in this dataset?

2. How many variables are in this dataset?

3. What are the elements (entities) in this dataset?

4. What type of variable is “lifeexpf”? What type of variable is “urban”? What type of variable is “develop”?

5. Rename the variable “develop” to “developing”.

6. Calculate descriptive statistics for the variables “lifeexpf” and “urban”.

7. Calculate the correlation coefficient between “lifeexpf” and “urban”. Also, produce a scatterplot for these two variables.

8. Tabulate the variable “developing”. How many countries in the dataset are developing countries? What percentage of countries are developing countries? Produce a graph of the frequency distribution for the variable “developing”.

9. Create a new variable named “africa” that equals 1 if a country is in Africa and equals zero if a country is not in Africa.

10. Produce a cross-tabulation between “africa” and “developing”. What percentage of African countries are developing? Produce a frequency distribution for the variable “developing” only for African countries.

11. Create a new variable named “stnd\_gdp” that is equal to a standardized version of “gdp.” What is the mean and standard deviation of “stnd\_gdp”?