**Analytical Methods for Business**



Write a simple R script to execute the following:

**Preprocessing:**

Load the data in “6304 Assignment 2 Data.xlsx” into an object. The file includes 10000 observations for each of four variables, which are creatively named for the four Marx Brothers.

**Analysis:**

1. Use common tools to determine whether any of the four variables are normally distributed. Explain how you arrived at your conclusions.
2. Focus on the Groucho variable. Build a sampling distribution of the population mean by:
   1. Taking 1000 samples of n=25.
   2. Calculating the mean for each of the 1000 samples and storing them.
   3. Using the tools you know to show the 1000 sample means are normally distributed.