Do your work in Jupyter Python and screenshot your code with answers and paste the codes/answers below each question in this word document.

Submit both the word document and Python file. Include your name towards the end of this file name. For example: STAT L1 In-Class\_Exercise\_Neba\_Nfonsang

Create a Python Script File to hold your code. Start with your ScriptHeader.py file from PROG Lesson 1 Training Manual. Save the file as: LastNameSTATL1MiniAssign.py.

1. Read in values from STATL1Sales.csv file. This data has information about our sales employees. The columns are shown:

* **EmpID** – Employee ID
* **First** – First Name
* **Last** – Last Name
* **Gender** – M or F
* **Job** – Job Title
* **Country** – Location they are responsible for
* **NumCalls** – Number of calls made in time period
* **Sales** – Sales Total in time period
* **Date** – Date

Fix the date so that it is of the format date (use pandas and the example at the end of the DML3 Training Manual)

View the first 5 rows of data with **.head()**.

**Insert a screenshot of your code and output.**

1. For all Quantitative Variables.
   1. Find Summary Statistics
   2. Create basic histograms using pandas **.hist()**
   3. Create well formatted histograms with appropriate titles and axis labels using matplotlib.pyplot.

**Insert a screenshot of your code and output.**

1. For all Qualitative Variables (that aren’t just identifiers)
   1. Find Summary Statistics including counts.
   2. Create basic bar plots using pandas **.plot()**
   3. Create well formatted bar charts with appropriate titles and axis labels using matplotlib.pyplot.

**Insert a screenshot of your code and output.**

1. Create a well formatted pie chart of the jobs excluding the Senior Sales Manager and the Chief Sales Officer. (Hint: Just remove those two rows from the DataFrame you used in #3 to create the bar plot.)

**Insert a screenshot of your code and output.**

1. Create two well formatted line plots showing Sales over time with appropriate titles and axis labels (rotate the dates so that they are readable) using matplotlib.pyplot for the following jobs.
   1. Sales Rep. I

**Insert a screenshot of your code and output.**

* 1. Sales Rep. II

**Insert a screenshot of your code and output.**

1. Create a well formatted bar chart to view the differences in the frequencies (counts) between Gender and Country all on the same plot. (See the example comparing Flavor and Type for guidance in the STATL1 Training Manual. Note the FlavorType DataFrame was created with crosstab).

**Insert a screenshot of your code and output.**