

STAT 1202 – Assignment #1

Description and Presentation of Data

This is a two part assignment and includes the description (descriptive statistics) and presentation (graphs and charts) of data drawn from one of the datasets provided on BlackBoard.

Part 1 – Descriptive Statistics

Use measures of central tendency and measures of dispersion (i.e., means and standard deviations) with selected variables drawn from the data set of your choice (provided on BlackBoard). You will create two tables: (1) a summary of the measures associated with three variables, and (2) a comparison of groups based on another variable on the three measures selected in step one.

Here are your specific tasks:

1. Select **three** interval or ratio variables from the data set and create a table showing the appropriate descriptive statistics.
2. Select **one** of the nominal or ordinal variables from the data set to compare the groups on each of the variables from the first table (alternatively, you could also use an interval or ratio level variable that you first *grouped* as your variable for comparison, but be sure to include a description of how you grouped the variable before using it in the second table). State a research hypothesis concerning what you believe may be the nature of the relationship between this variable and one of the interval/ratio variables.
3. Create a table comparing the subgroups in the nominal/ordinal variable on each of the three interval/ratio variables you selected above.

Part 2 – Presentation of the Data

In part 2 of the assignment you will create frequency distributions of selected variables, from Part 1, in order to describe the sample in a summary, descriptive way. There are three types of graphs and/or frequency tables that you will create:

1. Choose **one** of the interval or ratio variables from Part 1. Present the data, after its values have been grouped, in a meaningful way using the appropriate graph, chart, or table.
2. Group **one** of the interval or ratio level variables from Part 1 into a nominal or ordinal level data (i.e., make 2 or 3 groups out of the original variable). Present the grouped data using the appropriate graph, chart, or table.
3. Use the groups that you developed in Part 2 Question 1 and compare those groups using of the variable from Part 1 Question 1. Present the data, in a meaningful way, using the appropriate graph, chart, or table.

After creating the tables, you will write a brief description of your findings.

Here are your specific tasks:

4. Select one of the nominal or ordinal variables from the data set and create a table showing the frequency distribution along with the appropriate descriptive statistics.
5. Using a variable measured at the ratio level, create another table based on a logical grouping of the responses into about three to five categories, again including the appropriate descriptive statistics.
6. Create a table that compares the groups from the nominal variable you selected in task 1 on the ratio variable you grouped in task 2 above OR on another one of the nominal or ordinal variables in the data set.
7. Write a brief (i.e., half a page) description of the sample based on the three tables your have created. Be sure to make specific reference to each of the tables in this written description, highlighting results characteristic of the sample and/or of special interest.

Be sure that your tables are complete – properly labelled, titled, and include all the relevant descriptive statistics. Your three tables and brief summary description must not exceed two pages in overall length.

Other Details:

Groups of 1-3 (sign up on BlackBoard)

Total Value 15% of your final grade

Submit via the Assignment 1 Dropbox on BlackBoard (no emailed assignments)

Due Date: Friday, February 22, 2019 by 11:59pm