**MA 155 (Fall 2022)**

**Project 1: Data Visualization**

**(50 points)**

First Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Last Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Course Section\_\_\_\_\_\_\_\_\_\_\_\_\_

* Tasks

1. Construct a frequency distribution (make sure your table has both frequencies and percentages, round your percentages to the nearest whole number) for “REGION” in excel by following the steps below. (5 Points)

Paste your frequency distribution here and briefly describe the distribution (Place the distribution below the description).

1. Construct a frequency distribution (make sure your table has both frequencies and percentages, round your percentages to the nearest whole number) for “SEX” in excel by following the steps below. (5points)

Paste your frequency distribution here and briefly describe the distribution (Place the distribution below the description).

1. Construct a bar graph for “HEALTH” in excel by following the steps below. Make sure to give your graph a title and label the axes. (5 points)

Paste your bar graph here and briefly describe the graph (Place the graph below the description).

1. Construct a bar graph for “BMICAT” in excel by following the steps below. Make sure to give your graph a title and label the axes. (5 points)

Paste your bar graph here and briefly describe the graph (Place the graph below the description).

1. Construct a boxplot for “AGE” in excel by following the steps below. Make sure to give your graph a title and label the axes. (10 points)

Paste your boxplot here and briefly describe the plot (Place the graph below the description).

1. Construct a side-by-side boxplot for “POVLEV” by REGION (Column C) . Make sure to give your graph a title and label the axes. (15 points)

Paste your side-by-side boxplot here and briefly describe the plot (Place the graph below the description).