MA155 Projects

First Name	Last Name	
Project 2: Descriptive Statistics		
Due Date: xx/xx/xx @ xx p.m. on Canvas		
Instructions:		

Use your Project 1 data set that has a **sample size of 50** to complete this project.

1. **(x points)** Construct a frequency distribution (round your percentages to the nearest whole number) for "sex" in excel (Watch this video first https://www.youtube.com/watch?v=IJTNX3eV7mw).

Use your excel results/output to complete the table below. Compare the percentages for males and females.

Table 1: Percentage Distribution of Sex of Participants

Sex	Frequency	%
Male		
Female		
Total		

2. **(x points)** Construct a bar graph/chart for "sex" in excel (Watch this video first https://www.youtube.com/watch?v=jSpfkiRad6M).

Paste your graph from excel here. Make sure to number, title, and label your graph (e.g., Figure 1: Bar Graph/Chart showing Sex of Participants). Provide a brief description of your graph/chart.

3. (xx points) Find the mean, median, standard deviation, minimum, maximum, and range of "weight" and "height" by "sex" using the Data Analysis Tool in excel. Round all computations to two decimal places (Watch this video to know how to use the Data Analysis Tool in Excel https://www.youtube.com/watch?v=p8dz1znP5 g). To complete this part of the project, you first need to divide "weight" and "height" into two groups of "sex" that is "Males" and "Females" using the filter function in excel (Watch this video to know how to filter observations in excel https://youtu.be/04 kOwCnyog).

Use your excel results/output to complete the table below. Compare the means, medians, and standard deviations of weight and height of males and females.

Table 2: Summary Statistics of Weight and Height by Sex of Participants

	Weight		Height	
Measure	Male	Female	Male	Female
Mean				
Median				
Standard Deviation				
Minimum				
Maximum				
Range				

	https://www.youtube.com/watch?v=BcwFD0ICOf0).
	Paste your plot from excel here. Make sure to number, title, and label your graph (e.g., Figure 2: Boxplot for Weight by Sex of Participants). Provide a brief description of your plot.
	(xx points) Construct a side-by-side boxplot for "height" by "sex" in excel. (Watch this video first
•	https://www.youtube.com/watch?v=BcwFD0ICOf0).
	Paste your plot from excel here. Make sure to number, title, and label your graph (e.g., Figure 3: Boxplot for Height by Sex of Participants). Provide a brief description of your plot.