

Homework 1, Stat 230

Your Name

Q1.

a.

```
# Delete this line and put your code here
```

b.

Pick a single numerical variable and make a histogram of it. Select a reasonable binwidth for it.

```
# Delete this line and put your code here
```

c.

Calculate summary statistics for the variable you selected in part (c) using `favstats()`.

```
# Delete this line and put your code here
```

d.

Pick a numerical variable and a categorical variable and make a visualization (you pick the type!) to visualize the relationship between the two variables. Along with your code and output, provide an interpretation of the visualization.

```
# Delete this line and put your code here
```

Interpretation goes here...

e.

Pick two numerical variables and make a scatterplot to visualize the relationship between the two variables. Along with your code and output, provide an interpretation of the visualization.

```
# Delete this line and put your code here
```

Interpretation goes here...

f. Pick a single categorical variable from the data set and make a bar plot of its distribution.

```
# Delete this line and put your code here
```

g. Pick two categorical variables and make a visualization to visualize the relationship between the two variables. Along with your code and output, provide an interpretation of the visualization.

```
# Delete this line and put your code here
```

Interpretation goes here...

Q2.

```
# Load the data for Q2 here
```

a.

```
# Delete this line and put your code here
```

Interpretation goes here...

b.

```
# Delete this line and put your code here
```

Interpretation goes here..

Q3.

a.

Hypotheses go here...

b.

```
# Delete this line and put your code here
```

Interpretation goes here...

Q4.

a.

Model goes here...

b.

```
# Delete this line and put your code here
```

Interpretation goes here...