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# <Title>

## A data analysis performed by

## <First and Last Name(s)>

## for <Teacher Name>

## on <Date>

## 

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**Published Pyret file: <Insert Link -** You will have to republish your code & manually update this as the file changes. *Hint: If you want to save the Pyret expressions you used to make the Data Displays in the file, add them to the Definitions Area. If you don’t want them to build every time, you can comment them out with* **#** *at the beginning of the line, just as you would comment any other notes for yourself or your teammates.***>**

**Link to spreadsheet: <Insert Link>**

# My Dataset

**Why did you choose your dataset?**

**What dataset are you using, and where did you get it?**

**Describe your dataset. ​Tell what variables are represented in the columns, and what kind of data values each variable has.**

**What are some questions you have about your dataset?**

**What are some grouped samples that make sense for your dataset?**

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# Categorical Visualizations

**Create *at least two pie or bar charts* and include them here. Describe the labels for pie charts, or axes for bar charts, and provide a title.**

*Insert and Title Chart 1 here.*

*Insert the Pyret expression you used to make this Data Display here.*

**Why did you make this chart?**

**What does this chart tell us?**

*Insert and Title Chart 2 here.*

*Insert the Pyret expression you used to make this Data Display here.*

**Why did you make this chart?**

**What does this chart tell us?**

# Quantitative Visualizations

# **Create *at least one histogram* and include it here. Describe the axes and provide a title.**

*Insert and Title a histogram here.*

*Insert the Pyret expression you used to make this Data Display here.*

**Why did you make this chart?**

**Describe the shape of your dataset**.

**What does this chart tell us?**

# Measures of Center and Spread

***Analyze at least two quantitative columns* in your dataset, discussing the measures of center and what you can conclude from them. Include any box-plots or five-number summaries that illustrate your findings, and discuss any interesting outliers.**

*Insert and Title a box-plot and/or five-number summary here.*

*Insert the Pyret expression you used to make this Data Display here.*

**Why did you make this chart?**

**Where does your dataset appear to be centered?**

**Describe the spread of your dataset.**

**What does this chart tell us?**

*Insert and Title a box-plot and/or five-number summary here.*

*Insert the Pyret expression you used to make this Data Display here.*

**Why did you make this chart?**

**Where does your dataset appear to be centered?**

**Describe the spread of your dataset.**

**What does this chart tell us?**

# Correlations

**Create at least two scatterplots and include them here. Describe their axes and provide titles.**

*Insert and Title scatter plot 1 here.*

*Insert the Pyret expression you used to make this Data Display here.*

**Why did you make this chart?**

**What kind of correlation do you see? Is it positive or negative? Strong or weak?**

**Are there any unusual observations in your scatter plot? Can you explain them?**

**What does this chart tell us?**

*IF* the scatter plot appears to be roughly linear, perform a linear regression and

*Insert and Title lr-plot here.*

*Insert the Pyret expression you used to make this Data Display here.*

What did you find? Be sure to include the direction and strength of the relationship, including the slope, r-value, and an explanation of what they mean.

*Insert and Title scatter plot 2 here.*

*Insert the Pyret expression you used to make this Data Display here.*

**Why did you make this chart?**

**What kind of correlation do you see? Is it positive or negative? Strong or weak?**

**Are there any unusual observations in your scatter plot? Can you explain them?**

**What does this chart tell us?**

*IF* the scatterplot appears to be roughly linear, perform a linear regression and *Insert and Title lr-plot here.*

What did you find? Be sure to include the direction and strength of the relationship, including the slope, r-value, and an explanation of what they mean.

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# Findings

**What conclusions can you draw from these findings?**

**Why are your findings important, and how can they be used?**

**What are possible threats to validity?**

**What new questions do your findings raise?**