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What dataset are you working with: comma\_survey, hate\_crimes

List 3 questions that you can ask with your dataset.

Q1: Does gender impact use of the oxford comma?

Q2: Does income inequality impact incidence of hate crimes?

Q3:

List the associated null hypothesis for each question:

Q1: Gender has no influence on use of the oxford comma

Q2: Income inequality has no influence on incidence of hate crimes  
Q3:

What statistical test(s) will you use to answer each of the questions:

Q1: Chi Square

Q2: Linear Regression

Q3:

Make a visual plot showing the relationship that you will analyze statistically (e.g. boxplot for t-test or ANOVA; scatterplot for regression; table for chi-square).

Q1:

Q2:

Q3:

Do your data meet the assumptions required for the statistical test you want to run? Please state the assumptions you examined and whether or not your data meet those assumptions:

Q1: Sample must be randomly selected from larger population, observation independent of one another, must have observations in each of the cells of your contingency table

Q2:

Q3:

Run the statistical test! Put your results here:

Q1: X-squared = 0, df = 1, p-value = 1

Q2:

Q3:

Interpret your results!

Q1: There is not a significant relationship between gender and use of the oxford comma

Q2:

Q3: