Data Analysis

You are going to create a research paper based on statistical analysis. Your paper must use sound statistical methods, and you must write about it following the guide. When writing about a statistical analysis, you must explain what your data is, your hypothesis, other research about your data, how you analyzed it, how others can repeat your process, what the data means, whether your hypothesis was correct or not, and the limitations of your data and methods.

This will be a large grade. Do a thorough analysis and make a good paper.

First day, select a research topic, a dataset that can answer your question, and your explanatory and explanatory variables.

Second day, find research about the variables you are studying.

Third, do analysis on your variables.

Your paper must follow the following outline:

**Intro** This is where you tell us what your topic and question are, why we should care, and briefly about what other studies have said about the topic. You can also include what the results could mean.

**Previous Studies** This is where you explain what other studies on this subject have found, cite them, and explain their results. You also should tell us how your study is going to either confirm their results, show them to be insufficient, or somehow add to the discussion.

**Data** This is where you explain what data set you are using, where it came from, how it was built, and how others can find it.

**Methodology** This is where you explain to us what method you are using, why, and how.

**Results** In the results section, you explain what happened when you did you analysis. You do not say what it means or why it matters here. You are only letting us know the main results here.

**Conclusion** This is where you tell us what the results mean, how it proves or disproves your hypothesis, why it matters, and how much it matters.

**Limitations** This is where you explain why your data, methods, or other things might not be awesome enough to fully justify whatever conclusion you made. So if you claim that “all people with whatever do whatever”, and your data is not from all people, then you would talk about the limits of your data here. If your r squared is really low, then you would explain how your model is not perfect here.