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UNCC-VIRT-DATA

Prof. Caudill

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**UNCC Data Visualization**

Module 1 Challenge

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Github Link: <https://github.com/MahnFrammen/Module1Excel>

Three Conclusions from the Data:

Based on the data that was produced by the Excel spreadsheet, three examples of conclusions that can be drawn consist of, but not limited to, July being the most successful month, theater being the most successful category, and that the most successful subcategory turned out to be plays.

Limitations of the Dataset:

The data recovered from this dataset is not perfect information and exhibits some limitations that prevent it from being a truly reliable data source. Most of these limitations consist of crucial information that is missing. Some excluded information that could yield more accurate results could be the specific locations within each country, as well as age and gender demographics. Some suggestions for additional graphs and tables that could be made to better visualize and display the data could include a bar graph showing countries with both category and outcome. With this, data for specific countries would be easier to read and gather.

Statistical Analysis:

In this example, the argument that would most likely be made is that the median better summarizes the data, as opposed to the mean. The increase in variance displays just how widespread the numbers are, and standard deviation values display the distance datapoints are from the average. The main reason that the median would be more accurate is that it takes the large counting ranges into account.

Screenshot of Excel Calculations:

A screenshot of a computer

Description automatically generated