**Project 1 – IMDB Movie Ratings**

**Data Findings**

After we narrowed down and simplified the genre categories, it shows that family, music, and biographies had the highest average ratings per genre, in that order. The three lowest rated genres were thriller, sci-fi, and horror taking dead last. Horror has a higher number of titles than the top three highest rated genres. This could suggest several things open to interpretation, whether it be the quality of horror movies is not good according to most people or people like watching bad horror movies.

The data speaks to the likeness and quality of biographies and music films in the US since the number of titles these genres have in comparison to comedy, drama, and action (the top three most titles). Comedy, drama, and action have 95% more titles than Music/Bio.

A determination we made by correlating the number of votes and average ratings, per our scatter plot, was the higher of number of votes, meant the higher average of rating. Opposite of that, the data reflected the lower number of votes was correlated with lower average ratings.

In summary of these trends, the more people like a genre, the more they voted and vice versa. There are some outliers in the data that cause other questions. The IMBD data provided included some outlier films, such as 1-minute shorts from the 1890s etc.

Crime, Action, and Drama make up most of the top twenty most voted/highest average rated movies. This correlates with the previous trend of a higher number of votes leading to higher rated movies. This complete list of movies were films from the last 25-30 years. This may speak to the quality of films and appeal to viewers in comparison to any period before 1995. Perfectly rated 10.0 movies, specifically according to the top 20 10.0 rated films from the data, have an exceptionally dwindling number of votes. This cannot reflect public opinion. Perfectly rated movies with dwindling numbers of votes are the outlier opinions of a few individuals who loved that specific title.

In conclusion, this project helped us realize API/Data Wrangling challenges. There were imitations within the data that we were able to retrieve but we still felt we came away with a significant discovery. Family, music, and biographies are the highest rated genres in the US even though most of the top-rated films are drama, action, and crime. This is affected by the number of titles per genre. The lowest rated genres were thriller, sci-fi, and horror in the US. The data trends may have suggested people like inferior quality horror movies, hence the number of them, or that they are just inferior quality. Higher rated films/genres receive more votes and vice versa with lower rated films/genres. People vote more on things they like.