The Most Important Insights

After digging deep into these data, do some statistical analysis, and answer some question, here they are the insights I got:

- Most of the movies in this dataset are comedy and drama movies.
- In 2011 over 175 movies have been released, and this is the most number of movies released in a specific year.
- The number of movies increases over years.
- Paramount Pictures company has released the most number of movies.
- These movies take 109.35 minute on average.
- The popularity and revenue are increases with the budget of the movie. The more budget is, the more popularity and revenue are.
- The average rating of movies is getting worse over the years, which means the old movies get high ratings than the new ones.
- From 1960 to 1995, the most popular genre is Action|Adventure|Science Fiction|Thriller.
- From 1995 to 2004, the most popular genre is Adventure|Action|Science Fiction.
- From 2004 to 2010, the most popular genre is Action|Thriller|Science Fiction|Mystery|Adventure
- From 2010 to 2015, the most popular genre is Fantasy|Action|Thriller.
- The increase in vote count causes an increase in popularity.
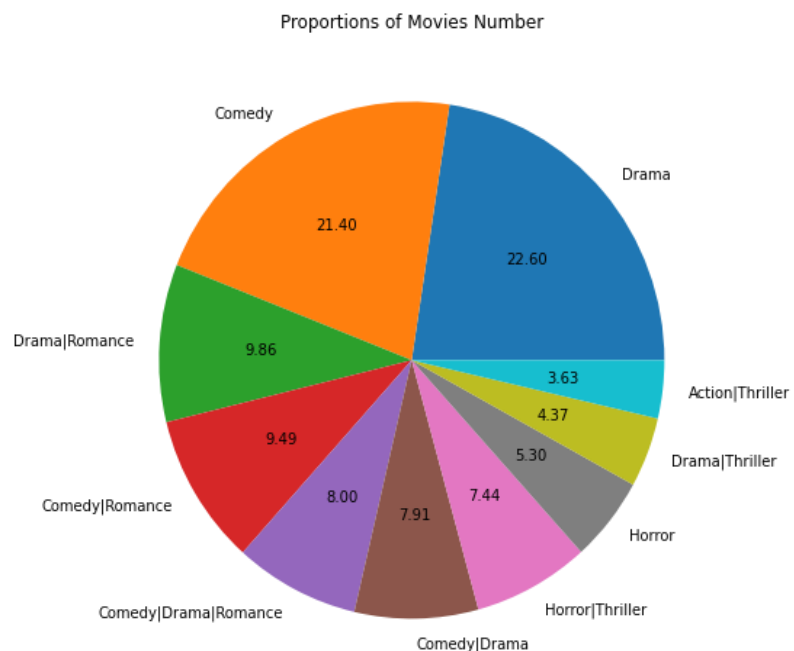- Action|Adventure|Science Fiction|Thriller is the most popular genres in all intervals.

- **The properties of movies that have high revenue:**
  - Most of these movies are produced by Paramount Pictures.
  - Most of the movies are released in the interval from 1995 to 2011.
  - Most of these movies are directed by Steven Spielberg.
  - The movies have a high budget.
  - Runtime does not exceed 201 and not less than 72.
  - The vote count does not exceed 9767 and this is the maximum number of the vote counts.
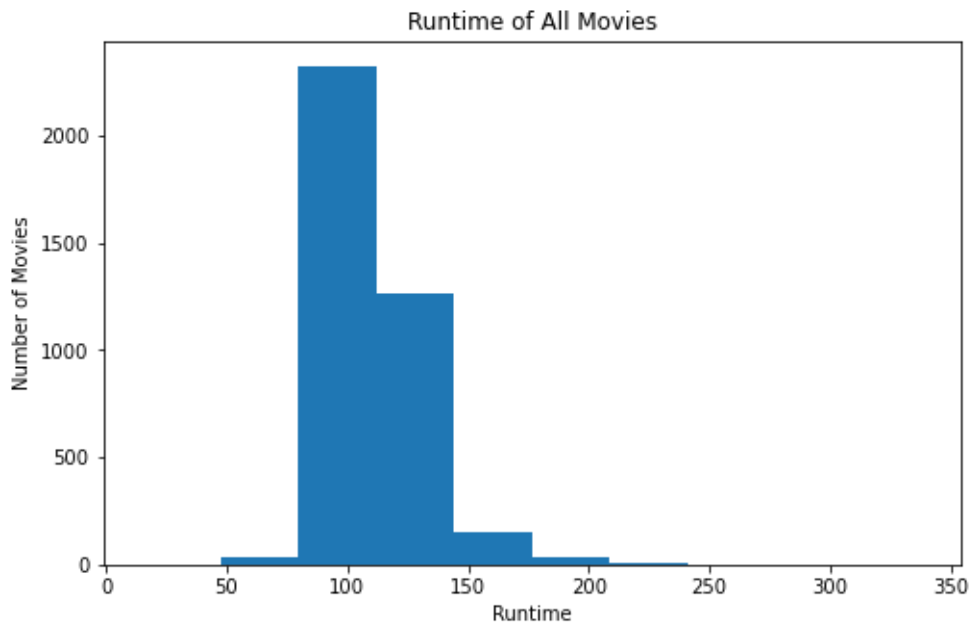
  Limitations
- All insights are limited to the underlying data set, and they cannot be generalized. Considering, many entries have been removed due to missing values.
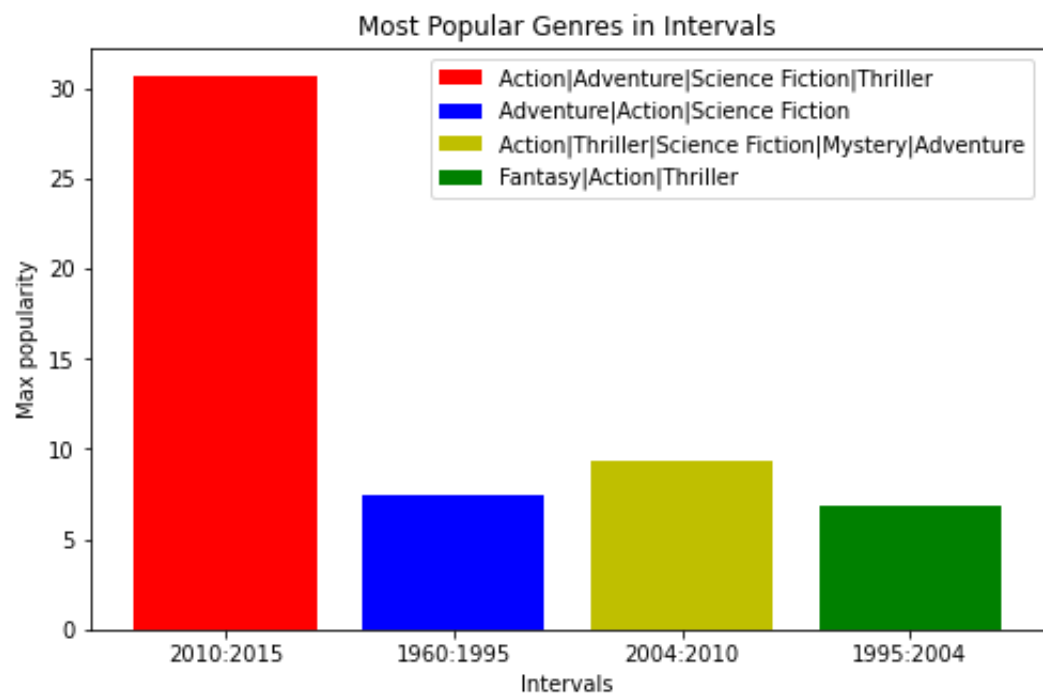
Graphs illustrate my findings:

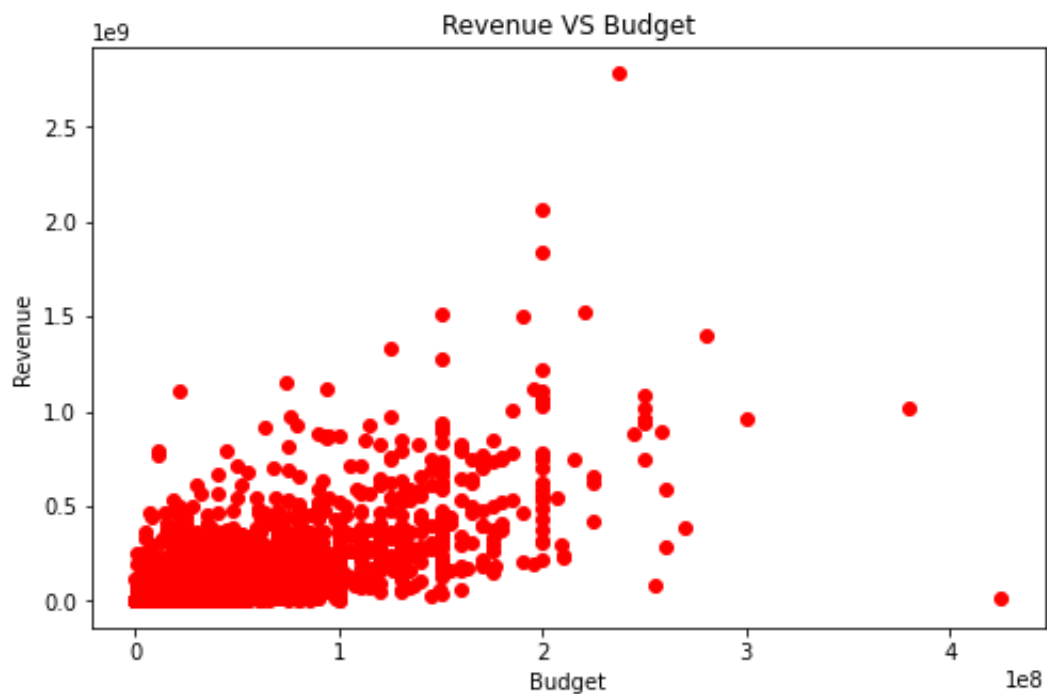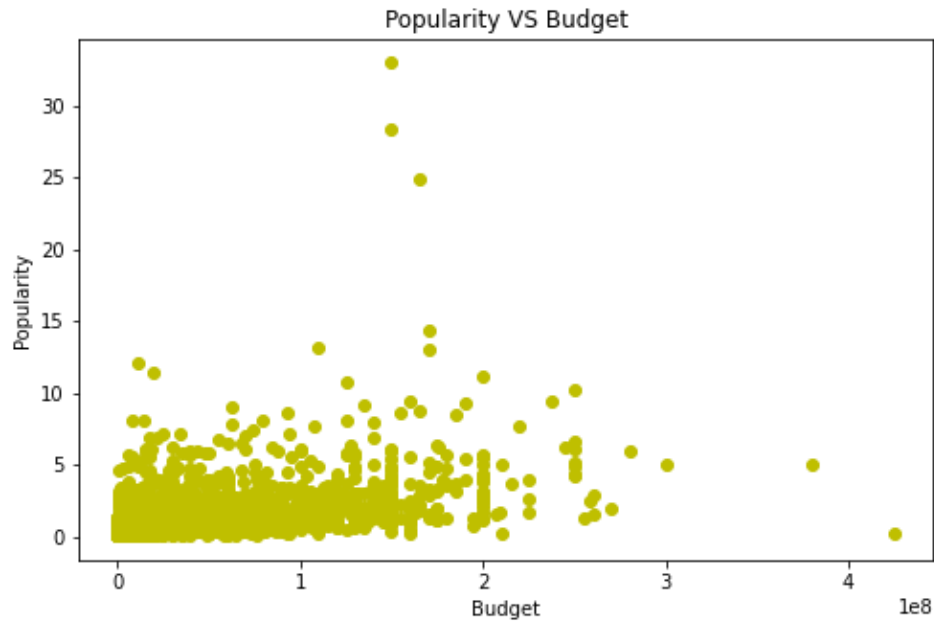- **Most of the movies in this dataset are comedy and drama movies.**

Proportions of Movies Number

- **These movies take 109.35 minute on average.**

- **Action|Adventure|Science Fiction|Thriller is the most popular genres in all intervals.**

- **The popularity and revenue are increases with the budget of the movie. The more budget is, the more popularity and revenue are.**

Popularity VS Budget

Revenue VS Budget

- **The average rating of movies is getting worse over the years, which means the old movies get high ratings than the new ones.**

Average Rating VS Years