IDMB Movies Analysis

**Introduction:**

From the given data from IDMB\_movies we have to see the problems and how to solve that problems and use this information to create graphs, charts, and other visualizations to help understand trends and patterns in the data. For example, we could use IMDb data to create a graph showing the average rating of movies released in a particular year, or to compare the idmb\_score, ratings and performance of different movie genres.

**Approach:**

I prefer using **Pivot table** and **pivot charts** for getting the solution and somewhere I have used formulas like **if, averageifs and INDEX and MATCH .**There were problems that were difficult to solve in excel 2016.

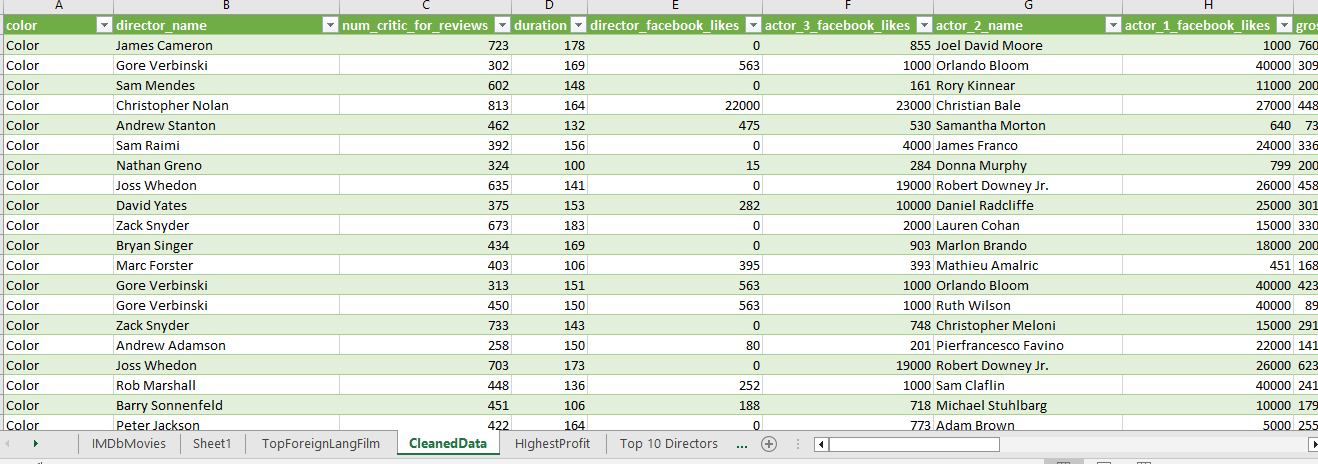
**Tech-Stack Used :**

I used Excel 2016 to analyze the data .

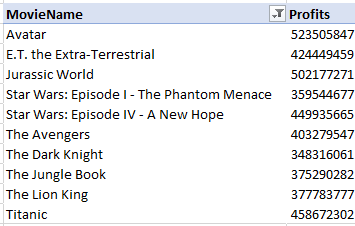
**Insights:**

**Cleaning the data::** This is one of the most important step to perform before moving forward with the analysis. Use your knowledge learned till now to do this. (Dropping columns, removing null values, etc.)  
**Your task:** Clean the data

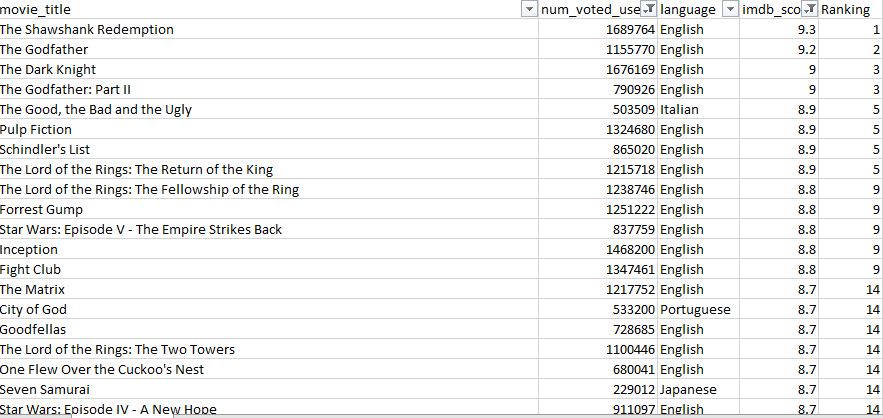
I removed some columns and null values that were not required.



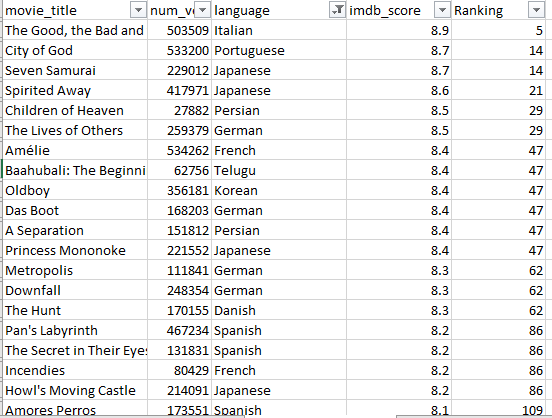
**Movies with highest profit:** Create a new column called profit which contains the difference of the two columns: gross and budget. Sort the column using the profit column as reference. Plot profit (y-axis) vs budget (x- axis) and observe the outliers using the appropriate chart type.  
**Your task:** Find the movies with the highest profit?



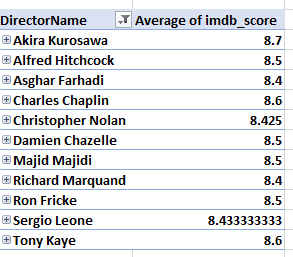
**Top 250:** Create a new column IMDb\_Top\_250 and store the top 250 movies with the highest IMDb Rating (corresponding to the column: imdb\_score). Also make sure that for all of these movies, the num\_voted\_users is greater than 25,000. Also add a Rank column containing the values 1 to 250 indicating the ranks of the corresponding films.  
  
Extract all the movies in the IMDb\_Top\_250 column which are not in the English language and store them in a new column named Top\_Foreign\_Lang\_Film. You can use your own imagination also!  
**Your task:**Find IMDB Top 250

Top IMDB movies with English languge

Extracted only foreign lang movie from top 250



**Best Directors:**Group the column using the director\_name column.  
Find out the top 10 directors for whom the mean of imdb\_score is the highest and store them in a new column top10director. In case of a tie in IMDb score between two directors, sort them alphabetically.  
**Your task:**Find the best directors



**Popular Genres:**Perform this step using the knowledge gained while performing previous steps.  
**Your task:**Find popular genres

The popular genres are Action|Drama|Mystery|Thriller

**Charts:**Create three new columns namely, Meryl\_Streep, Leo\_Caprio, and Brad\_Pitt which contain the movies in which the actors: 'Meryl Streep', 'Leonardo DiCaprio', and 'Brad Pitt' are the lead actors. Use only the actor\_1\_name column for extraction. Also, make sure that you use the names 'Meryl Streep', 'Leonardo DiCaprio', and 'Brad Pitt' for the said extraction.  
  
Append the rows of all these columns and store them in a new column named Combined.  
  
Group the combined column using the actor\_1\_name column.  
  
Find the mean of the num\_critic\_for\_reviews and num\_users\_for\_review and identify the actors which have the highest mean.  
  
Observe the change in number of voted users over decades using a bar chart. Create a column called decade which represents the decade to which every movie belongs to. For example, the title\_year year 1923, 1925 should be stored as 1920s. Sort the column based on the column decade, group it by decade and find the sum of users voted in each decade. Store this in a new data frame called df\_by\_decade.  
  
  
**Your task:**Find the critic-favorite and audience-favorite actors

