

Project description:

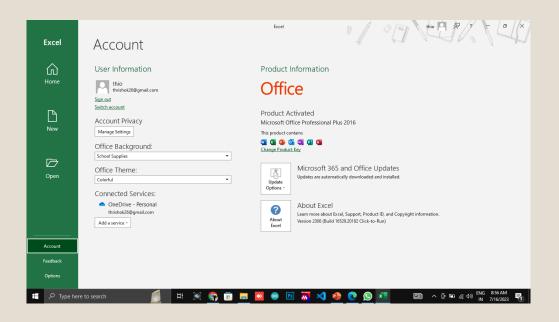
- Providing you with dataset having various columns of different IMDB Movies. You are required to Frame the problem. For this task, you will need to define a problem you want to shed some light on.
- Clean the data as necessary, and use your Data Analysis skills to explore the data set and derive insights.
- Following 'five why' approach.

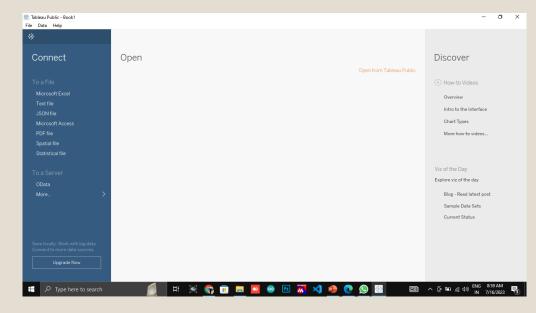
Approach:

- Five 'Whys' approach
- Cleaning data (Dropping unnecessary columns, removing null values, etc.)
- Created a database and then the tables using the structure.
- Joined the data bits and structured the tables to derive business insights, used pivot tables, fetched the required result.

TECH-STACK USED:

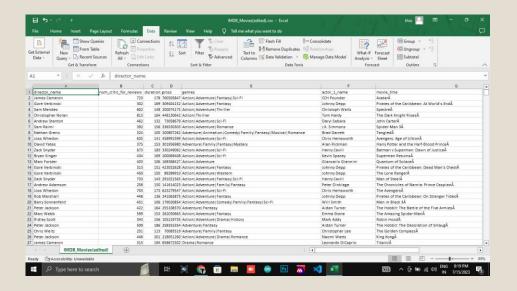
∘For this project I have used MS Excel and Tableau.

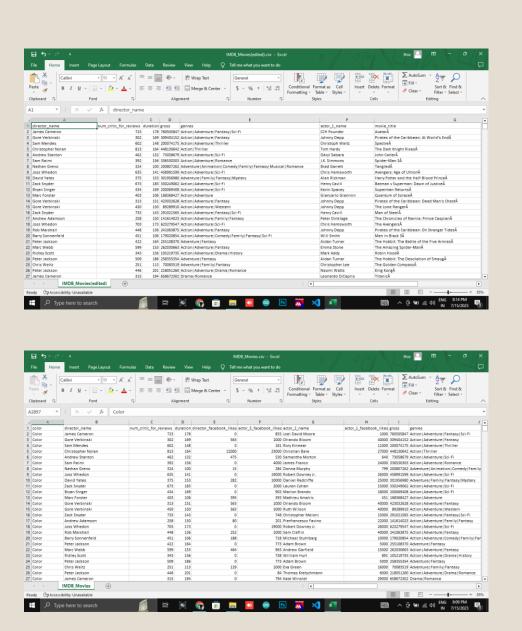




A. Cleaning data:

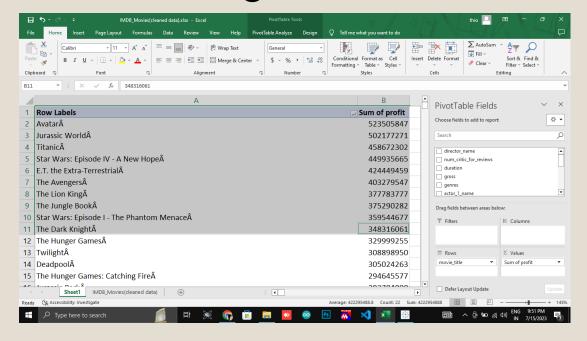
 Unnecessary columns, rows with null values or blank spaces and duplicate values has been removed.

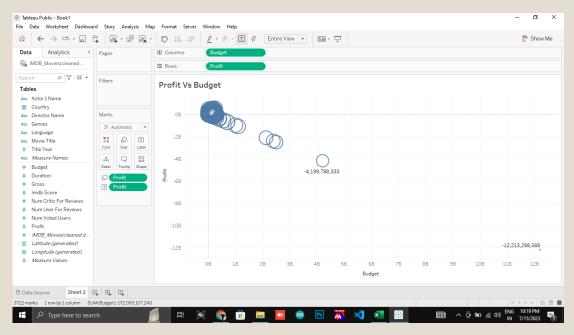




B. Movies with highest profit:

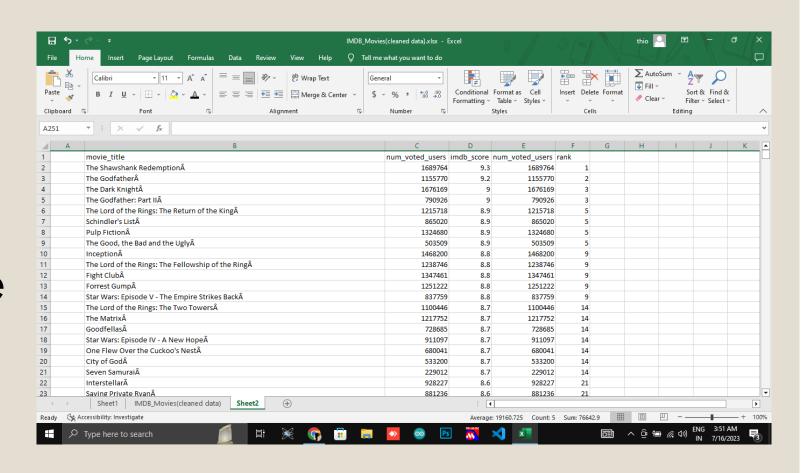
- Movies with highest profit has been calculated by subtracting Budget from Gross.
- Outliers are also found and plotted by Profit in Y-axis and Budget in X-axis.





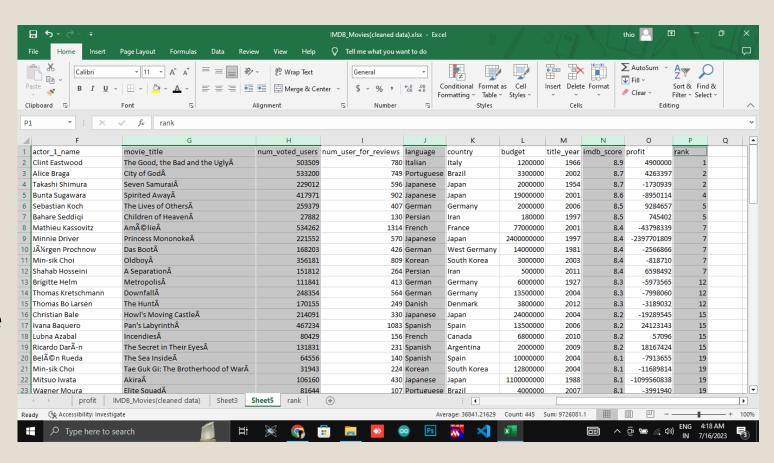
C. IMDB Top 250:

From this table the movie "Shawshank redemption" is the number one movie with IMDB score of 93



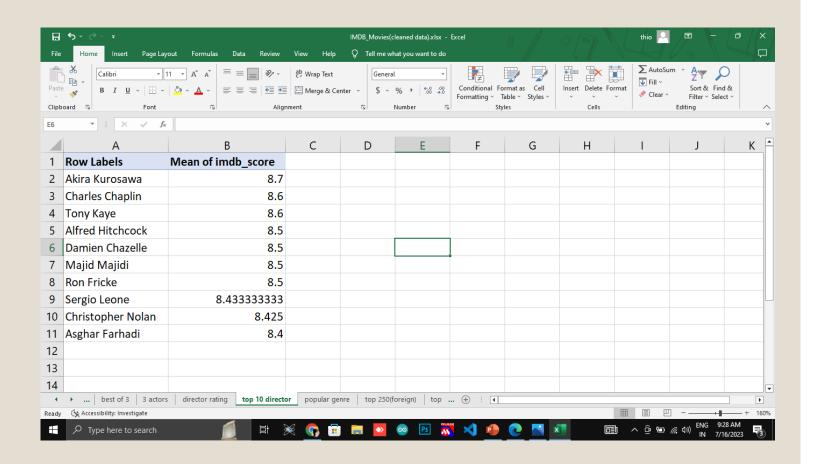
C. IMDB Top 250(non-English):

From this table the movie "the good and the bad and the ugly" is the number one foreign language movie with IMDB_score of 8.9



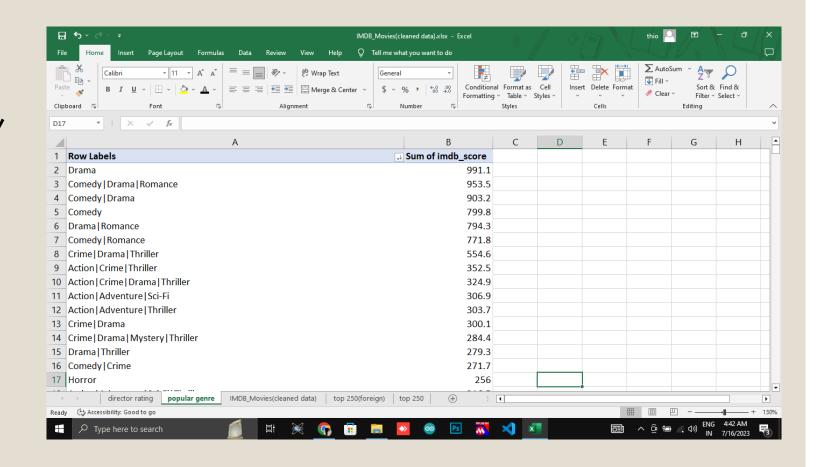
D. Best Directors:

These are the top 10 directors based on IMDB rating. Top director among highest IMDB score directors is "Akira kurosawa"



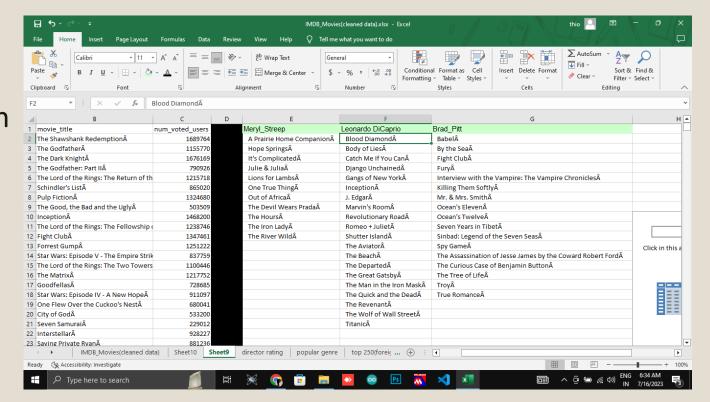
E. Popular genres:

Based on the analysis Drama, comedy and romance has most number IMDB ratings.



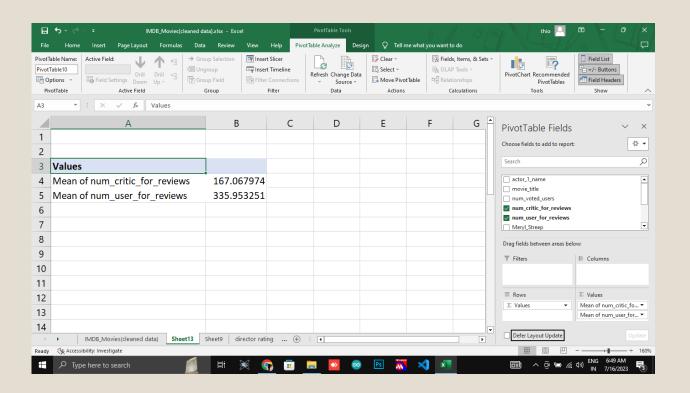
F. Task(1):

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.



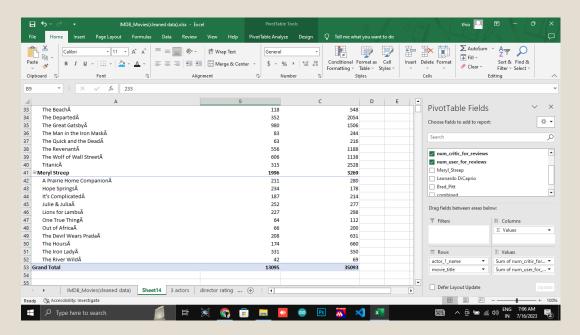
F. Task(2):

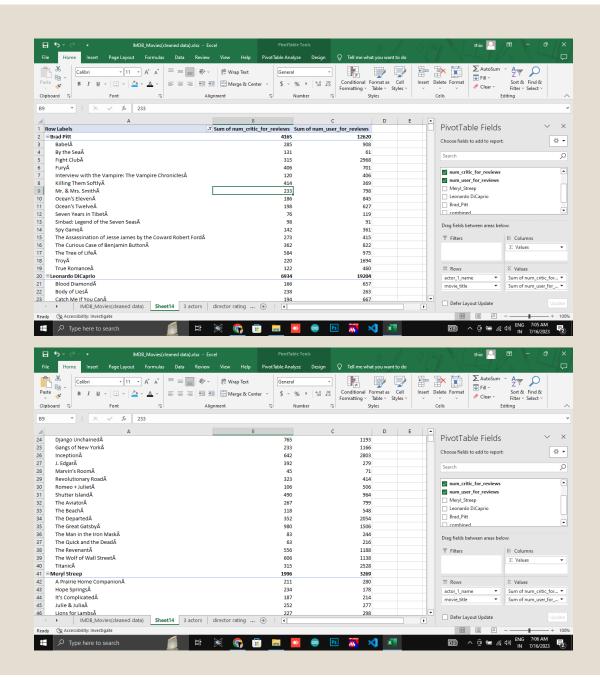
 Find the mean of the num_critic_for_reviews and num_users_for_review.



F. Task(3):

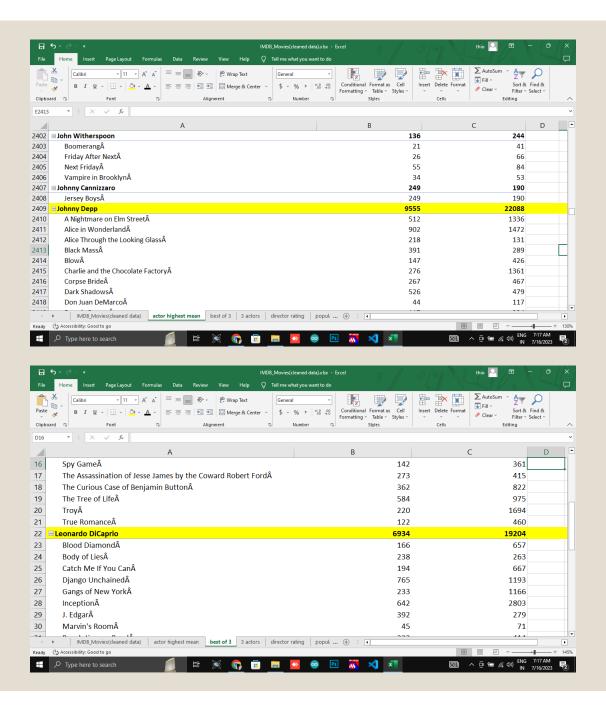
Identify the actors which have the highest mean.





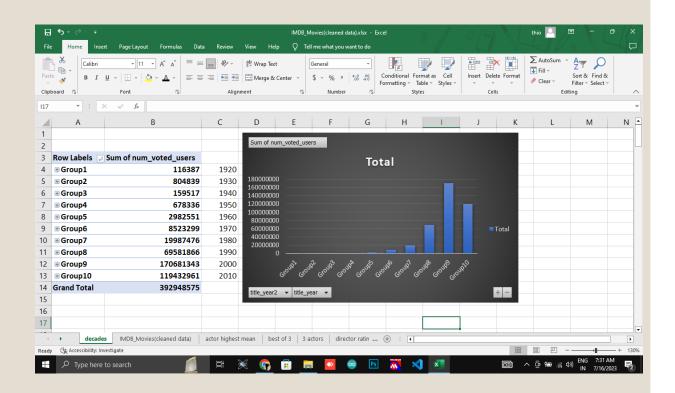
F. Task(4):

- Favorite actor among these 3 actors is "Leonardo DiCaprio".
- Favorite actor among all the actors is "Johnny Depp".



F. Task(5):

 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. Sort the column based on the column decade, group it by decade and find the sum of users voted in each decade.



Insights:

- Cleaning data is a very important in data analysis.
- Avatar is the highest IMDB rating movie.
- Shawshank redemption is the highest IMDB rating movie in English language.
- Highest IMDB score Director is Akira kurosawa.
- Most Popular genre is Drama.
- Each decade the voters increased.
- The critic and audience favorite actor is Johnny Depp.
- Profit Budget Analysis is having one outlier.

Result:

- From this project I Understood cleaning and modifying data is very important.
- Removing unnecessary data i.e. columns, blank spaces or rows, etc. makes the data much more easier to work nad readable.
- Outliers identification and removal changes the results of data analysis.

THANK YOU

Excel file link:

https://docs.google.com/spreadsheets/d/17rZcPuOSyUqxho3ROU6qtMh3kLuuz4z-

/edit?usp=drive_link&ouid=101181995113560202220&rtpof=true&sd=true