# IMDB Movie Analysis (Data Analyst Project)

### PROJECT DESCRIPTION

The goal of this project is to analyze a dataset of IMDB movies and draw insights from the data. The dataset includes various columns such as movie names, budgets, gross revenue, and IMDB ratings. To complete the project, you will need to use a combination of Excel formulas and SQL commands to clean and manipulate the data. You will be asked to complete specific tasks, such as identifying the movie with the highest profit or the top IMDB movies, as well as share your own insights by identifying any problems or trends in the data. You may also be asked to use charts and visualizations to present your findings. The overall objective of the project is to gain a better understanding of the movie industry by analyzing the data and drawing meaningful conclusions.

# Approach

**1.Understand the data**: Before beginning the analysis, I took some time to familiarize with the data. Look at the structure of the data and get a sense of the overall content. This help me identify any potential issues or challenges that I may need to address as I proceed with my analysis.

**2.Check for missing or incomplete data**: Make sure to check for any blank values or missing data in your dataset.

**3.Identify and handle outliers**: Outliers are data points that are significantly different from the rest of the data. They can have a significant impact on summary statistics and can distort the results of your analysis. It's important to identify any outliers and decide how to handle them, such as by excluding them from the analysis or by treating them as separate cases.

**4.Communicate your findings**: Once completed with analysis, present your findings to your audience in a clear and concise way. Use visualizations, such as charts and graphs, to help communicate your results. Be sure to clearly explain your methodology and the implications of your results.

**Tech Stack Use:** 

MS-Excel, MySQL, PowerBI

#### **A.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.

Ans: To clean the data, I arranged the columns in the correct format and increased the column width to improve readability. I also removed null values and duplicates by selecting them using the "Find & Select" option and deleting the entire row. This helped to ensure that the data was accurate and ready for analysis.

Before Cleaning: 5044 rows and 28 columns

**After Cleaning: 3850 rows and 13 columns** 

| А                 | В         | С         | D                   | E                | F                               | G        | Н         | I        | J         | K         | L        | М        | N          |
|-------------------|-----------|-----------|---------------------|------------------|---------------------------------|----------|-----------|----------|-----------|-----------|----------|----------|------------|
|                   | num_criti |           |                     |                  |                                 |          | num_use   |          |           |           |          | movie_fa |            |
|                   | c_for_rev |           |                     |                  |                                 | num_vot  | r_for_rev |          |           | title_yea | imdb_sco | cebook_l |            |
| director_name     | iews      | gross     | genres              | actor_1_name     | movie_title                     | ed_users | iews      | language | budget    | r         | re       | ikes     | Profit     |
| James Cameron     | 723       | 760505847 | Action   Adventure  | CCH Pounder      | AvatarÂ                         | 886204   | 3054      | English  | 237000000 | 2009      |          |          | 523505847  |
| Gore Verbinski    | 302       | 309404152 | Action   Adventure  | Johnny Depp      | Pirates of the Caribbean: At Wo | 471220   | 1238      | English  | 300000000 | 2007      | 7.1      | 0        | 9404152    |
| Sam Mendes        | 602       | 200074175 | Action   Adventure  | Christoph Waltz  | SpectreÂ                        | 275868   | 994       | English  | 245000000 | 2015      | 6.8      | 85000    | -44925825  |
| Christopher Nolan | 813       | 448130642 | Action Thriller     | Tom Hardy        | The Dark Knight RisesÂ          | 1144337  | 2701      | English  | 250000000 | 2012      | 8.5      | 164000   | 198130642  |
| Andrew Stanton    | 462       | 73058679  | Action   Adventure  | Daryl Sabara     | John CarterÂ                    | 212204   | 738       | English  | 263700000 | 2012      |          |          | -190641321 |
| Sam Raimi         | 392       | 336530303 | Action   Adventure  | J.K. Simmons     | Spider-Man 3Â                   | 383056   | 1902      | English  | 258000000 | 2007      | 6.2      |          | 78530303   |
| Nathan Greno      | 324       |           | Adventure   Animat  |                  | TangledÂ                        | 294810   |           | English  | 260000000 | 2010      |          |          | -59192738  |
| Joss Whedon       | 635       | 458991599 | Action   Adventure  | Chris Hemswort   | Avengers: Age of UltronÂ        | 462669   |           | English  | 250000000 | 2015      | 7.5      | 118000   | 208991599  |
| David Yates       | 375       | 301956980 | Adventure   Family  | Alan Rickman     | Harry Potter and the Half-Blood | 321795   | 973       | English  | 250000000 | 2009      | 7.5      | 10000    | 51956980   |
| Zack Snyder       | 673       | 330249062 | Action   Adventure  | Henry Cavill     | Batman v Superman: Dawn of J    | 371639   | 3018      | English  | 250000000 | 2016      | 6.9      | 197000   | 80249062   |
| Bryan Singer      | 434       |           | Action   Adventure  | . ,              | Superman ReturnsÂ               | 240396   | 2367      | English  | 209000000 | 2006      | 6.1      | 0        | -8930592   |
| Marc Forster      | 403       | 168368427 | Action Adventure    | Giancarlo Giann  | Quantum of SolaceÂ              | 330784   | 1243      | English  | 200000000 | 2008      | 6.7      | 0        | -31631573  |
| Gore Verbinski    | 313       | 423032628 | Action Adventure    | Johnny Depp      | Pirates of the Caribbean: Dead  | 522040   | 1832      | English  | 225000000 | 2006      | 7.3      | 5000     | 198032628  |
| Gore Verbinski    | 450       | 89289910  | Action   Adventure  | Johnny Depp      | The Lone RangerÂ                | 181792   | 711       | English  | 215000000 | 2013      |          |          | -125710090 |
| Zack Snyder       | 733       | 291021565 | Action   Adventure  | Henry Cavill     | Man of SteelÂ                   | 548573   | 2536      | English  | 225000000 | 2013      | 7.2      | 118000   | 66021565   |
| Andrew Adamson    | 258       | 141614023 | Action   Adventure  | Peter Dinklage   | The Chronicles of Narnia: Princ | 149922   | 438       | English  | 225000000 | 2008      | 6.6      | 0        | -83385977  |
| Joss Whedon       | 703       | 623279547 | Action   Adventure  | Chris Hemswort   | The AvengersÂ                   | 995415   | 1722      | English  | 220000000 | 2012      | 8.1      | 123000   | 403279547  |
| Rob Marshall      | 448       | 241063875 | Action   Adventure  | Johnny Depp      | Pirates of the Caribbean: On St | 370704   | 484       | English  | 250000000 | 2011      | 6.7      | 58000    | -8936125   |
| Barry Sonnenfeld  | 451       | 179020854 | Action   Adventure  | Will Smith       | Men in Black 3Â                 | 268154   | 341       | English  | 225000000 | 2012      | 6.8      | 40000    | -45979146  |
| Peter Jackson     | 422       | 255108370 | Adventure   Fantasy | Aidan Turner     | The Hobbit: The Battle of the F | 354228   | 802       | English  | 250000000 | 2014      | 7.5      | 65000    | 5108370    |
| Marc Webb         | 599       | 262030663 | Action   Adventure  | Emma Stone       | The Amazing Spider-ManÂ         | 451803   | 1225      | English  | 230000000 | 2012      | 7        | 56000    | 32030663   |
| Ridley Scott      | 343       | 105219735 | Action   Adventure  | Mark Addy        | Robin HoodÂ                     | 211765   | 546       | English  | 200000000 | 2010      | 6.7      | 17000    | -94780265  |
| Peter Jackson     | 509       | 258355354 | Adventure   Fantasy | Aidan Turner     | The Hobbit: The Desolation of   | 483540   | 951       | English  | 225000000 | 2013      | 7.9      | 83000    | 33355354   |
| Chris Weitz       | 251       | 70083519  | Adventure   Family  | Christopher Lee  | The Golden CompassÂ             | 149019   | 666       | English  | 180000000 | 2007      | 6.1      | 0        | -109916481 |
| Peter Jackson     | 446       | 218051260 | Action   Adventure  | Naomi Watts      | King KongÂ                      | 316018   | 2618      | English  | 207000000 | 2005      | 7.2      | 0        | 11051260   |
| James Cameron     | 315       | 658672302 | Drama   Romance     | Leonardo DiCap   | TitanicÂ                        | 793059   | 2528      | English  | 200000000 | 1997      | 7.7      | 26000    | 458672302  |
| Anthony Russo     | 516       | 407197282 | Action   Adventure  | Robert Downey    | Captain America: Civil WarÂ     | 272670   | 1022      | English  | 250000000 | 2016      | 8.2      | 72000    | 157197282  |
| Peter Berg        | 377       | 65173160  | Action   Adventure  | Liam Neeson      | BattleshipÂ                     | 202382   | 751       | English  | 209000000 | 2012      | 5.9      | 44000    | -143826840 |
| Colin Trevorrow   | 644       | 652177271 | Action   Adventure  | Bryce Dallas Hov | Jurassic WorldÂ                 | 418214   | 1290      | English  | 150000000 | 2015      | 7        | 150000   | 502177271  |
| Sam Mendes        | 750       | 304360277 | Action   Adventure  | Albert Finney    | SkyfallÂ                        | 522030   | 1498      | English  | 200000000 | 2012      | 7.8      | 80000    | 104360277  |
| Sam Raimi         | 300       | 373377893 | Action   Adventure  | J.K. Simmons     | Spider-Man 2Â                   | 411164   | 1303      | English  | 200000000 | 2004      |          |          | 173377893  |
| Shane Black       | 608       | 408992272 | Action   Adventure  | Robert Downey    | Iron Man 3Â                     | 557489   |           | English  | 200000000 | 2013      | 7.2      | 95000    | 208992272  |
| Tim Burton        | 451       | 334185206 | Adventure   Family  | Johnny Depp      | Alice in WonderlandÂ            | 306320   | 736       | English  | 200000000 | 2010      | 6.5      | 24000    | 134185206  |
| Brett Ratner      | 334       | 234360014 | Action   Adventure  | Hugh Jackman     | X-Men: The Last StandÂ          | 383427   |           | English  | 210000000 | 2006      |          |          | 24360014   |
| Dan Scanlon       | 376       | 268488329 | Adventure   Animat  | Steve Buscemi    | Monsters UniversityÂ            | 235025   | 265       | English  | 200000000 | 2013      | 7.3      | 44000    | 68488329   |
| Michael Bay       | 366       | 402076689 | Action   Adventure  | Glenn Morshow    | Transformers: Revenge of the I  | 323207   |           | English  | 200000000 | 2009      | 6        | 0        | 202076689  |
| Michael Bay       | 378       | 245428137 | Action   Adventure  | Bingbing Li      | Transformers: Age of Extinction | 242420   | 918       | English  | 210000000 | 2014      | 5.7      | 56000    | 35428137   |

#### **B.** 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?

Ans: In this task we have to first create a new column to store the profit of the movies by taking the difference of the gross and budget



:To identify outliers in the data, I plotted a chart and looked for any unusually high or low values. One example of an outlier that I observed was a value of -1.2E+10.

| movie_title                                     | Sum of Profit |
|---|---------------|
| AvatarÂ   | 523505847     |
| Jurassic WorldÂ                                 | 502177271     |
| TitanicÂ  | 458672302     |
| Star Wars: Episode IV - A New HopeÂ             | 449935665     |
| E.T. the Extra-TerrestrialÂ                     | 424449459     |
| The AvengersÂ                                   | 403279547     |
| The Lion KingÂ                                  | 377783777     |
| The Jungle BookÂ                                | 375290282     |
| Star Wars: Episode I - The Phantom MenaceÂ      | 359544677     |
| The Dark KnightÂ                                | 348316061     |
| The Hunger GamesÂ                               | 329999255     |
| TwilightÂ                                       | 308898950     |
| DeadpoolÂ                                       | 305024263     |
| The Hunger Games: Catching FireÂ                | 294645577     |
| Jurassic ParkÂ                                  | 293784000     |
| Despicable Me 2Â                                | 292049635     |
| American SniperÂ                                | 291323553     |
| Finding NemoÂ                                   | 286838870     |
| Shrek 2Â  | 286471036     |
| The Lord of the Rings: The Return of the KingÂ  | 283019252     |
| Star Wars: Episode VI - Return of the JediÂ     | 276625409     |
| Forrest GumpÂ                                   | 274691196     |
| Star Wars: Episode V - The Empire Strikes BackÂ | 272158751     |
| JunoÂ   | 271985680     |
| Alice in WonderlandÂ                            | 268370412     |
| Home AloneÂ                                     | 267761243     |
| Star Wars: Episode III - Revenge of the SithÂ   | 267262555     |
| Spider-ManÂ                                     | 264706375     |
| MinionsÂ  | 262029560     |
| The Sixth SenseÂ                                | 253501675     |
| JawsÂ   | 252000000     |
| FrozenÂ   | 250736600     |
| The Secret Life of PetsÂ                        | 248505540     |
| Total   | 22049537152   |

:I used a tool called Power BI to create this visualization showing that the movie with the highest profit was "Avatar".

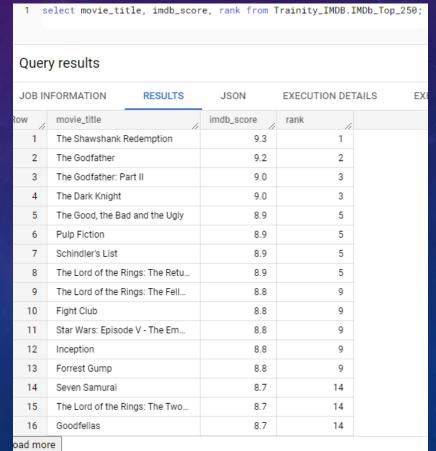
C. Top 250: Create a new column IMDb\_Top\_250 and store the top 250 movies with the highest IMDb Rating (corresponding to the column: imdb\_score). Also make sure that for all of these movies, the num\_voted\_users is greater than 25,000. Also add a Rank column containing the values 1 to 250 indicating 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**

```
CREATE TABLE Trainity_IMDB.IMDb_Top_250 AS
SELECT *, RANK() OVER (ORDER BY imdb_score DESC) as Rank
FROM Trainity_IMDB.first
WHERE num_voted_users > 25000
ORDER BY imdb_score DESC
LIMIT 250;
```

:I used an SQL query to identify the top 250 movies with the highest IMDB scores and a minimum of 25,000 voted users. Here is the list:



..250 rows

- 1 CREATE TABLE Trainity\_IMDB.Top\_Foreign\_Lang\_Film AS
- 2 SELECT \*
- 3 FROM Trainity\_IMDB.IMDb\_Top\_250
- 4 WHERE language != 'English';
- 6 select movie\_title, imdb\_score, rank
- 7 from Trainity\_IMDB.Top\_Foreign\_Lang\_Film
- 8 order by imdb\_score desc;

#### Query results

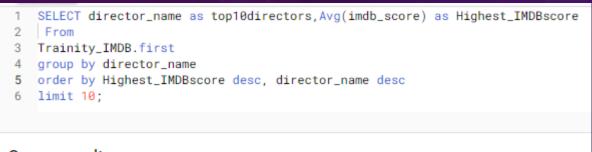
| JOB IN | IFORMATION         | RESULTS        | JSON       | EXECUTION DET | AILS |
|--------|--------------------|----------------|------------|---------------|------|
| Row    | movie_title        | //             | imdb_score | rank          |      |
| 1      | The Good, the Bac  | i and the Ugly | 8.9        | 5             |      |
| 2      | City of God        |                | 8.7        | 14            |      |
| 3      | Seven Samurai      |                | 8.7        | 14            |      |
| 4      | Spirited Away      |                | 8.6        | 21            |      |
| 5      | The Lives of Other | rs             | 8.5        | 29            |      |
| 6      | Children of Heave  | n              | 8.5        | 29            |      |
| 7      | Amélie             |                | 8.4        | 47            |      |
| 8      | Das Boot           |                | 8.4        | 47            |      |
| 9      | Princess Mononol   | ke             | 8.4        | 47            |      |
| 10     | Baahubali: The Be  | ginning        | 8.4        | 47            |      |
| 11     | A Separation       |                | 8.4        | 47            |      |
| 12     | Oldboy             |                | 8.4        | 47            |      |
| 13     | Downfall           |                | 8.3        | 62            |      |

:I used an SQL query to create a table of top foreign language films from the top 250 IMDB movies. The films in this table are those whose language is not English.

:From the top 250 IMDB movies, we can conclude that only 37 of them are not in the English language. This suggests that English is a more preferable language for these films. D. 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



#### Query results

| JOB INFORMATION |                   | RESULTS | JSON        | EXECUTION  | ON DETAILS | EXECUTION |
|-----------------|-------------------|---------|-------------|------------|------------|-----------|
| Row             | top10directors    | //      | Highest_IMD | 3score /   |            |           |
| 1               | Tony Kaye         |         |             | 8.6        |            |           |
| 2               | Charles Chaplin   |         |             | 8.6        |            |           |
| 3               | Ron Fricke        |         |             | 8.5        |            |           |
| 4               | Majid Majidi      |         |             | 8.5        |            |           |
| 5               | Damien Chazelle   |         |             | 8.5        |            |           |
| 6               | Alfred Hitchcock  |         |             | 8.5        |            |           |
| 7               | Sergio Leone      |         | 8.433333    | 3333333336 |            |           |
| 8               | Christopher Nolan |         | 8.424999    | 9999999989 |            |           |
| 9               | S.S. Rajamouli    |         |             | 8.4        |            |           |
| 10              | Richard Marquand  |         |             | 8.4        |            |           |
|                 |                   |         |             |            |            |           |

Based on the data provided, it appears that Tony Kaye and Charles Chaplin are the best director, with an average IMDB score of 8.6 for his movies.

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

```
SELECT genres as popular_genres,avg(imdb_score) as Highest_IMDBscore
   From Trainity_IMDB.first
   group by genres
   order by avg(imdb_score) desc
5 limit 10;
Query results
JOB INFORMATION
                         RESULTS
                                         JSON
                                                      EXECUTION DETAILS
                                      Highest_IMDBsc
       popular_genres
       Crime|Drama|Fantasy|Mystery
                                                8.5
       Adventure|Animation|Drama|Fa...
                                               8.5
                                               8.4
       Adventure|Animation|Fantasy
       Adventure|Drama|Thriller|War
                                                8.4
       Action|Adventure|Drama|Fanta...
                                                8.4
       Adventure|Animation|Comedy|...
                                                8.3
                                               8.3
      Documentary|War
       Biography|Drama|History|Music
                                               8.3
       Documentary|Drama|Sport
                                                8.3
       Adventure|Drama|War
                                              8.25
```

Based on the data provided, it appears that the Crime|Drama|Fantasy|Mystery genre has the highest average IMDB score, indicating that it is a more preferable genre.

F. 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

```
SELECT actor_1_name, AVG(num_critic_for_reviews) as critic_favorite, AVG(num_user_for_reviews) as audience_favorite
FROM Trainity_IMDB.first
WHERE actor_1_name IN ('Meryl Streep', 'Leonardo DiCaprio', 'Brad Pitt')
GROUP BY actor_1_name
ORDER BY critic_favorite DESC, audience_favorite DESC
```

#### Query results

| JOB IN | IFORMATION        | RESULTS | JSON            | EXECUTION DETAILS | EXECUTION GRAPH PREVIEW |
|--------|-------------------|---------|-----------------|-------------------|-------------------------|
| Row    | actor_1_name      | //      | critic_favorite | audience_favorit  |                         |
| 1      | Leonardo DiCaprio |         | 330.190476      | 914.476190        |                         |
| 2      | Brad Pitt         |         | 245.000000      | 742.352941        |                         |
| 3      | Meryl Streep      |         | 181.454545      | 297.181818        |                         |

Based on the data provided, it appears that Leonardo DiCaprio is the audience favorite and critic favorite actor.

| Row Labels             | ▼ Sum of num_critic_for_reviews ▼ | Sum of num_user_for_reviews 🔻 |
|------------------------|-----------------------------------|-------------------------------|
| Johnny Depp            | 9555                              | 22088                         |
| Leonardo DiCaprio      | 6934                              | 19204                         |
| Christian Bale         | 5657                              | 17580                         |
| Natalie Portman        | 3986                              | 16511                         |
| Tom Hanks              | 5679                              | 16266                         |
| Tom Cruise             | 5544                              | 15956                         |
| J.K. Simmons           | 7364                              | 15623                         |
| Harrison Ford          | 4529                              | 13218                         |
| Matt Damon             | 7249                              | 12881                         |
| Bruce Willis           | 5031                              | 12826                         |
| Brad Pitt              | 4165                              | 12620                         |
| Robert De Niro         | 5958                              | 12478                         |
| Kevin Spacey           | 3923                              | 12386                         |
| Naomi Watts            | 3891                              | 12252                         |
| Morgan Freeman         | 3986                              | 12009                         |
| Hugh Jackman           | 5515                              | 11259                         |
| Liam Neeson            | 6314                              | 11078                         |
| Scarlett Johansson     | 5363                              | 10876                         |
| Will Smith             | 4221                              | 10703                         |
| Nicolas Cage           | 5016                              | 10344                         |
| Robert Downey Jr.      | 6380                              | 9973                          |
| Keanu Reeves           | 3041                              | 9876                          |
| Jake Gyllenhaal        | 3647                              | 9210                          |
| Denzel Washington      | 4548                              | 8922                          |
| Chris Hemsworth        | 5473                              | 8813                          |
| Christopher Lee        | 1084                              | 8660                          |
| Gerard Butler          | 3646                              | 8556                          |
| Philip Seymour Hoffman | 3799                              | 8410                          |
| Jennifer Lawrence      | 5865                              | 8165                          |
| Jason Statham          | 4806                              | 8065                          |
| Bill Murray            | 4029                              | 7905                          |
|                        |                                   |                               |

Johnny Depp is a highly popular actor among both critics and audiences.

```
1 SELECT
2 FLOOR(title_year / 10) * 10 AS decade,
3 SUM(num_voted_users) AS total_voted
4 FROM Trainity_IMDB.first
5 GROUP BY decade
6 ORDER BY decade ASC
```

#### Query results

| JOB IN | IFORMATION | RESULTS     | JSON |
|--------|------------|-------------|------|
| ow /   | decade //  | total_voted |      |
| 1      | 1920.0     | 116387      |      |
| 2      | 1930.0     | 804839      |      |
| 3      | 1940.0     | 230838      |      |
| 4      | 1950.0     | 678336      |      |
| 5      | 1960.0     | 2983442     |      |
| 6      | 1970.0     | 8524102     |      |
| 7      | 1980.0     | 19987476    |      |
| 8      | 1990.0     | 69735679    |      |
| 9      | 2000.0     | 170904334   |      |
| 10     | 2010.0     | 120640346   |      |

During the 2000s, there was a high number of users who voted for movies.

## **KEY INSIGHTS**

- It appears that movies like "Avatar" and "Jurassic Park" have the potential to earn high profits. If the goal is to maximize profit, it may be advisable to consider making movies with similar themes or characteristics.
- It appears that the movie "The Shawshank Redemption" has the highest IMDB score among those with a minimum of 25,000 voted users.
- From the top 250 IMDB movies, we can conclude that only 37 of them are not in the English language. This suggests that English is a more preferable language for these films.
- Consider working with Tony Kaye or Charles Chaplin as a director on future projects, as their past work has received high ratings from audiences and critics.
- It appears that the Crime|Drama|Fantasy|Mystery genre has the highest average IMDB score, indicating that it is a more preferable genre.
- It appears that Johnny Depp is the audience favorite and critic favorite actor.

# Result:

During this project, I discovered that a range of factors contribute to the success of a movie. I also learned how to utilize various tools, such as SQL, Excel, and Power BI, to analyze and understand data. By using these tools together, I gained a more comprehensive understanding of what makes a movie successful. This project helped me to see the importance of considering multiple variables and viewpoints when analyzing data.

Completing this project allowed me to improve my skills in crafting and executing queries, as well as giving me a glimpse into the tasks and responsibilities of a data analyst in a professional setting.

