

Project Title:

IMDb Movies Analytics using SQL Asma'a Hakami BI Analyst Date: 7 May 2025

Overview

- This project explores and analyzes a dataset of global movie records using structured queries. By leveraging SQL, a variety of analytical queries were written to uncover patterns and trends related to movie ratings, genres, vote counts, and historical popularity. The insights provide a deeper understanding of the film industry from a data-driven perspective.
- The goal of this project is to demonstrate strong skills in database design, complex data querying, and statistical analysis making it ideal for portfolio showcasing and professional interviews.



Data Preparation

- Used SQL for initial data aggregation
- Example queries

```
SELECT
 CASE
    WHEN "numVotes" >= 100000 THEN '100k+'
    WHEN "numVotes" >= 50000 THEN '50k-100k'
    WHEN "numVotes" >= 10000 THEN '10k-50k'
    ELSE 'Less than 10k'
 END AS "votes_range",
 COUNT(*) AS "movie_count"
FROM "Imdbmovies"
GROUP BY "votes_range"
ORDER BY "movie count" DESC;
```

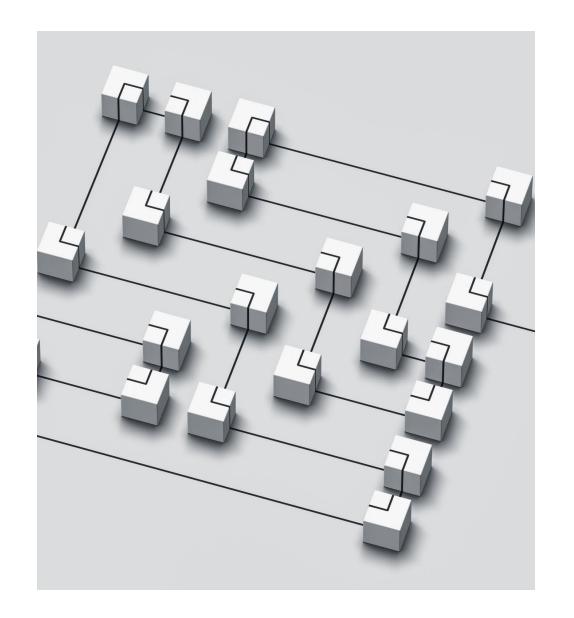
Technologies Used

- PostgreSQL (v13)
- dbfiddle.uk for online database development
- CSV dataset converted to SQL statements
- GitHub for project versioning

https://github.com/asmaa-hakmi/BI-peojects.git

Project Structure

- Database schema creation
- Data population (100+ rows, 10 columns)
- 19+ analytical SQL queries
- Hosted live on dbfiddle for testing and exploration



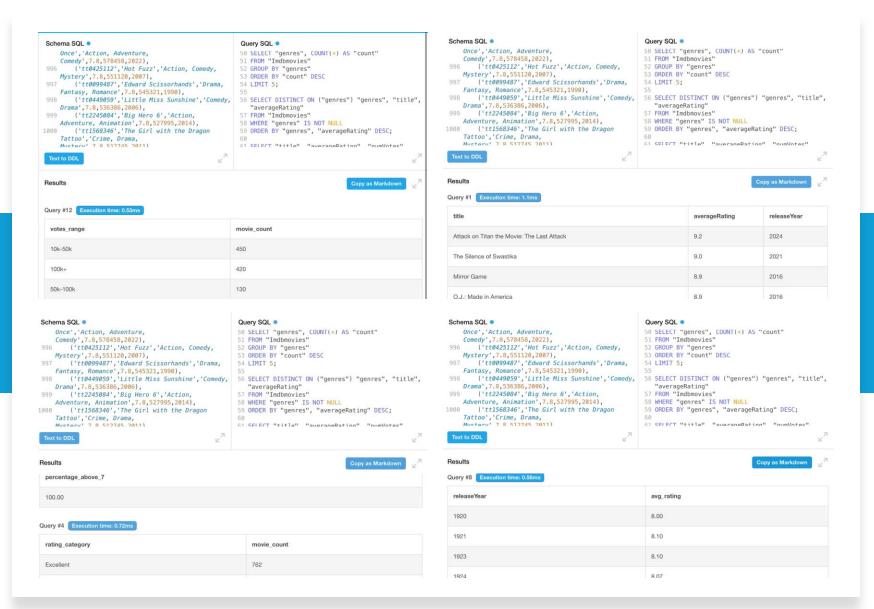
How to Run

- Access the project directly through the provided link.
- No installation or setup required just open the link and explore the database and queries.

https://www.dbfiddle.com/f/3EWhm4CWsuAVs2KZ1kzB28/0

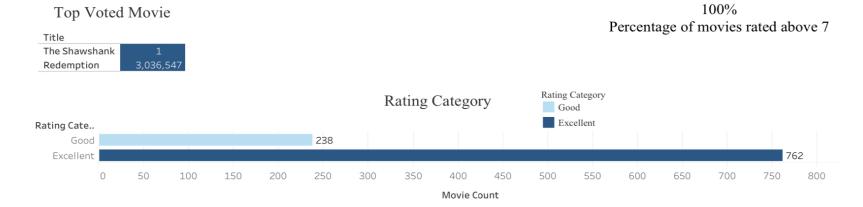


Project Screenshot



Dashboard 1

Dashboard 1: IMDB Movies: Ratings & Popularity Insights



Votes Distribution by Range

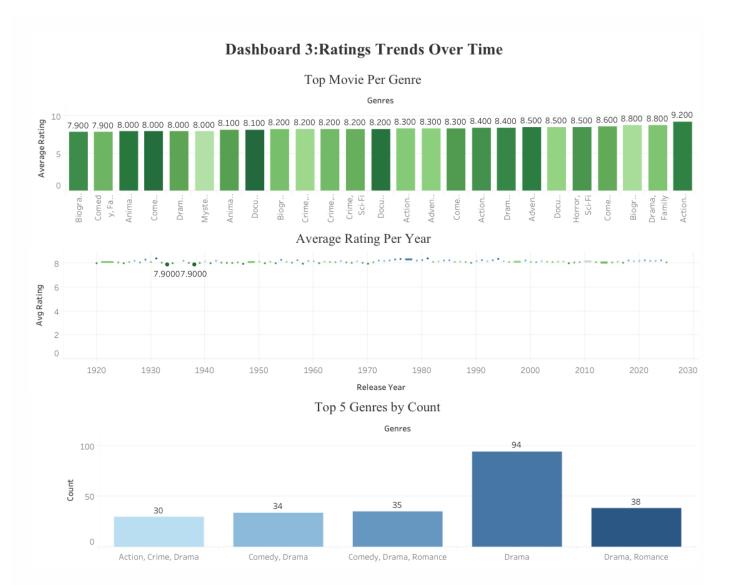


Dashboard 2

Dashboard 2: Genres Trends & Drama Spotlights



Dashboard 3



Key Insights Extracted

- Movies with the highest ratings released after 2010
- The most voted movie of all time
- Percentage of movies rated above 7
- Categorization of movies based on average rating (Excellent, Good, Average, Poor)
- Top-rated movie in each release year
- Highest-rated movies containing or exclusively tagged as "Drama"
- Distribution and trends by genres, vote count, and release year

