# Netflix Viewer Trend Analysis

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**Introduction:** Netflix is a streaming company that deals with providing customers with movies, shows and exclusives to subscribers of the service. I am using the data that was provided to solve data problems and task given to me.

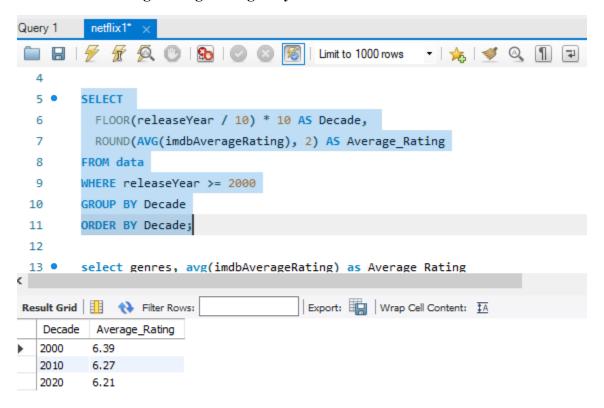
## Task:

"Analyze how audience interests and content performance have changed over time on Netflix using IMDB ratings, genres, and engagement data from the 2000s and above. The goal is to uncover trends in viewer preferences and genre popularity to inform content strategy and investment decisions. "

Netflix has provided a set of 9 data questions. In addition, you are tasked with developing 3 original data questions of your own to further explore the dataset. Your objective is to analyze these questions and present your insights into a final presentation focused on those 3 self formulated questions that tackle the task given.

#### **Data Questions:**

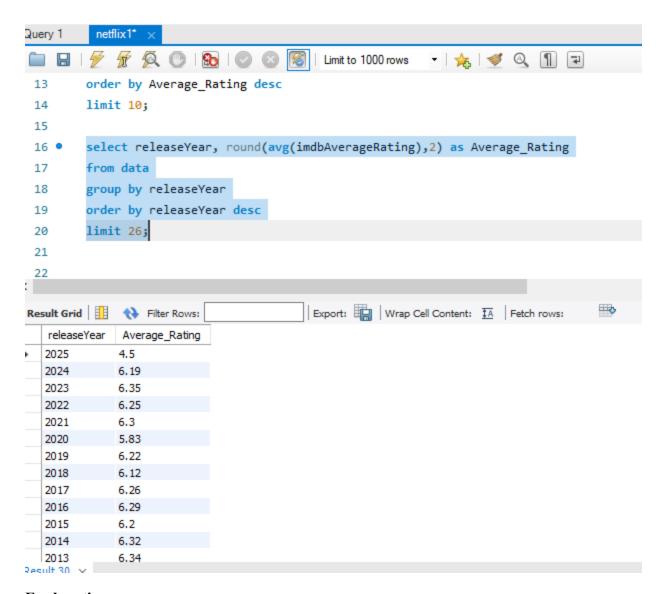
1. How have average ratings changed by decade since 2000?



## **Explanation:**

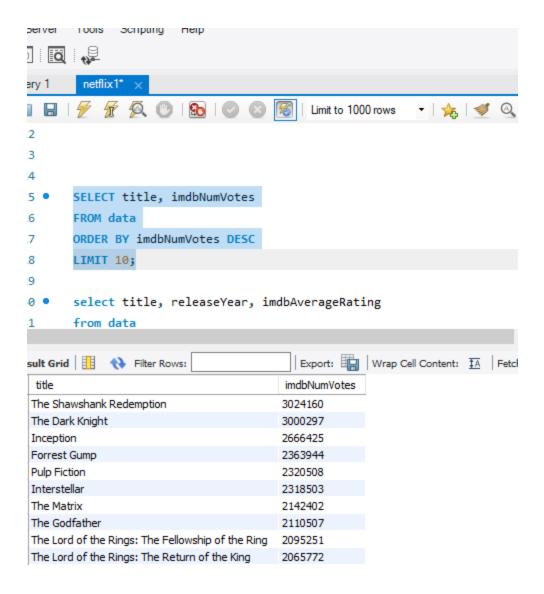
This query calculates the average IMDb rating for each decade starting from the year 2000. It uses the FLOOR(releaseYear / 10) \* 10 expression to group movies by decade (e.g., 2000s, 2010s, 2020s). The AVG() function is applied to find the mean rating for each decade, and ROUND() limits the result to two decimal places. This allows us to analyze how movie ratings have shifted over long periods and detect trends across generations of film content.

## 2. How have average ratings shifted year-by-year?



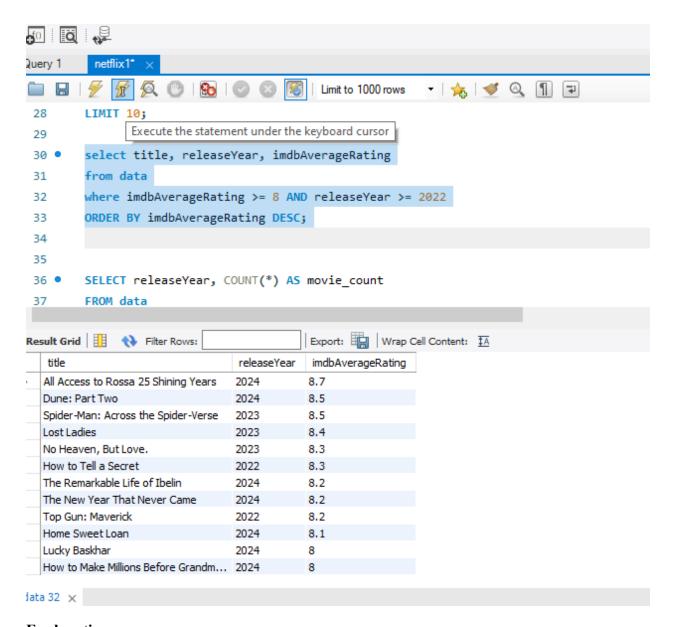
This query focuses on identifying average IMDb ratings for each of the last 26 years by grouping records by releaseYear. Using AVG() to calculate mean ratings and ROUND() to improve readability, it highlights how ratings have changed on a yearly basis. By ordering the results in descending order, it provides a top down view of recent trends in movie quality.

# 3. What are the most voted (engaged-with) Netflix movies?



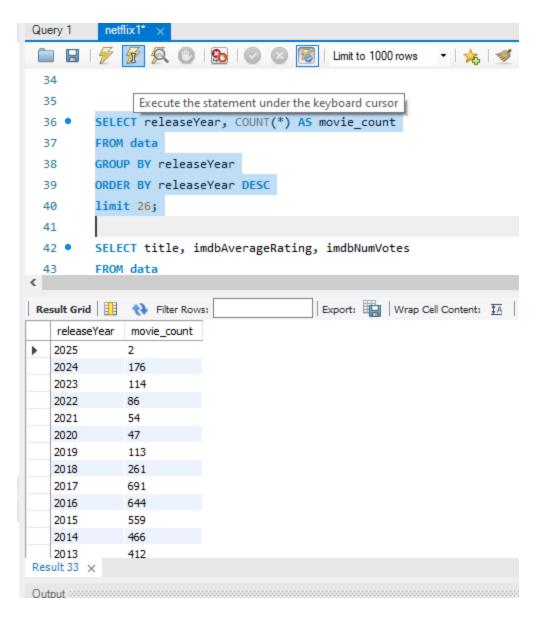
This query finds the top 10 movies that received the most IMDb votes, which serves as a strong proxy for engagement and popularity. It selects each movie's title and vote count and sorts them in descending order of imdbNumVotes. This is useful for identifying blockbuster hits or cult favorites that generated significant audience interaction.

#### 4. What are the best-rated Netflix movies released since 2022?



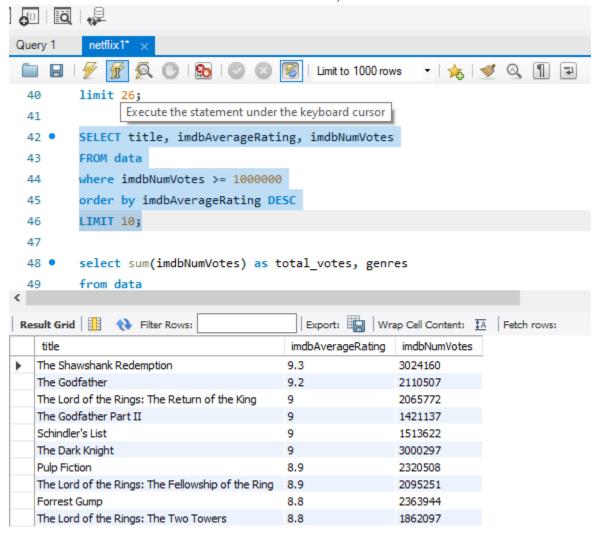
This query targets high-performing recent movies by filtering for those released after 2022 with IMDb ratings of 8.0 or higher. It provides insight into which new releases are resonating best with viewers and could guide strategic decisions on which genres, styles, or stories Netflix should continue investing in.

# 5. How many movies has Netflix released each year?



This query counts how many movies were released each year using the COUNT(\*) function grouped by releaseYear. It shows how Netflix's content production volume has evolved, helping analysts evaluate whether the platform is ramping up or reducing movie releases over time. It's especially useful when compared with viewer ratings to assess both quality and quantity.

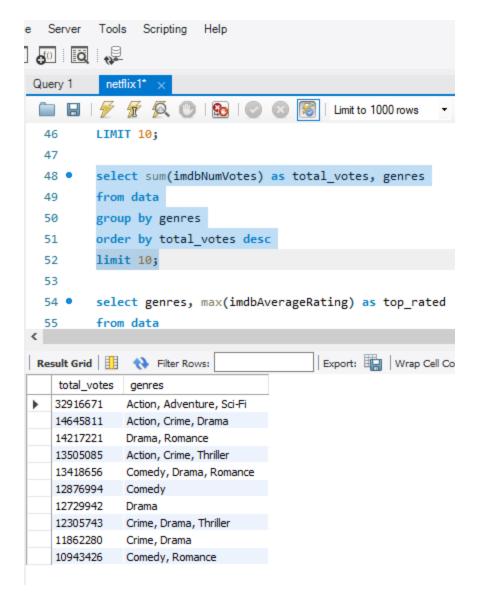
#### 6. What Netflix movies have over 1 million votes, limit to 10.



#### **Explanation:**

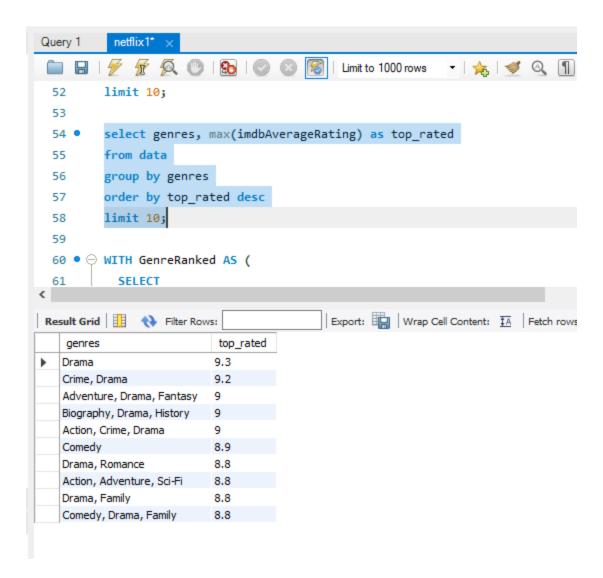
This query retrieves the top 10 highest rated movies that have received over 1,000,000 IMDb votes. By applying a WHERE clause to filter movies with high vote counts (implying significant viewer engagement) and ordering the results by imdbAverageRating in descending order, the query surfaces highly rated movies that are also very popular. This gives insight into which widelywatched movies are also the most well received, making them ideal references for future content investments.

#### 7. Which genres have the highest total audience engagement (votes)?



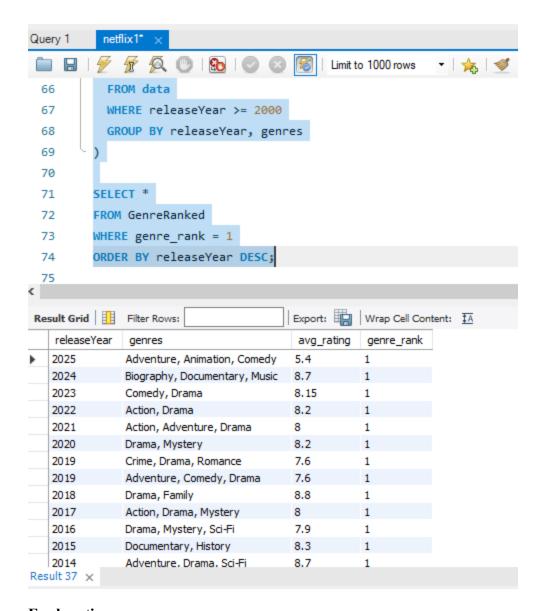
This query calculates the total number of votes per genre by summing imdbNumVotes and grouping the results by genres. It then orders the results in descending order of total votes and limits the output to the top 10 genres. This query identifies which genres have received the most engagement overall, offering insight into what types of content attract the most audience attention.

## 8. What are the 10 highest rated genres



This query identifies the highest rated movie within each genre by using the MAX function on imdbAverageRating and grouping by genre. The result shows the best rated content for each genre and helps stakeholders understand the upper limits of quality and audience satisfaction by genre. It also helps identify standout genres where exceptional quality content exists.

## 9. What is the top-rated genre each year after 2000?



This Common Table Expression (CTE) ranks genres by their average IMDb rating for each year starting from 2000. The RANK() window function assigns a rank to each genre per year based on descending average rating. The final query filters for only the top-ranked genre per year (genre\_rank = 1) and orders the results by releaseYear. This allows analysis of the most highly rated genres year-over-year, helping track shifts in viewer preferences and top performing genres over time.

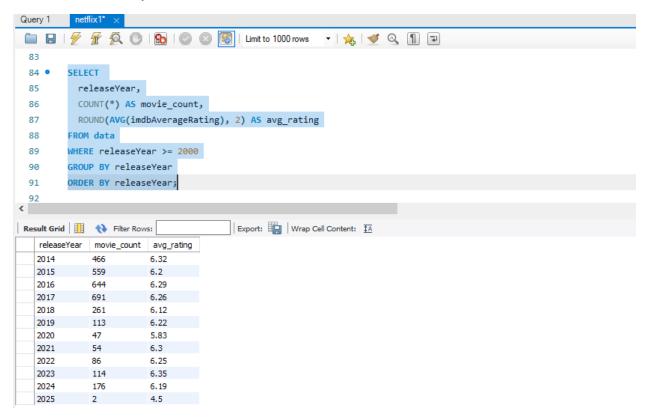
#### Data Questions I used to solve the given task

1. Average Rating and Total Votes for Retrospective Years(2000-2025)

By knowing the average rating and total votes for each year we can gain a basic understanding of how movies are generally viewed by the public during certain years.

Through the data we can see a gradual increase after 2024 which means we should start to invest more into the platforms movies as it is gaining more interest.

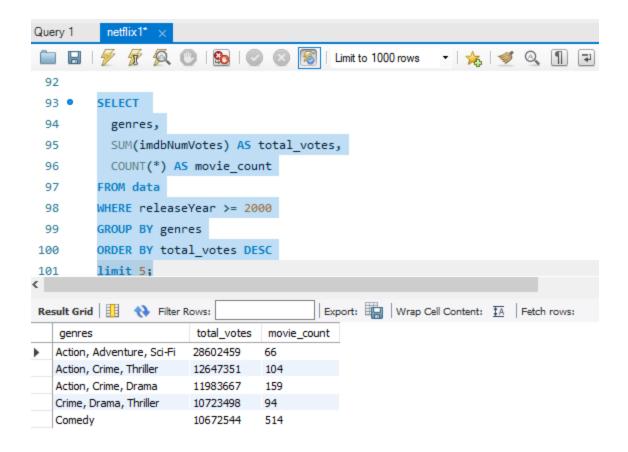
Side Note: 2025 only consists of 2 movies which makes the data skewed.



# 2. The Most Voted for Movies and their Numbered Releases (Top 5)

Despite having the least movie releases, Action Adventure, Sci-Fi is still the most engaged in genre, because of this we can

- Capitalize on an already popular genre
- Take advantage of there not being a lot of releases of the genre



# 3. Most Consistent Performing Genres in Votes and Average Rating (Top 5)

We want to find a genre that has a good amount of engagement along with a good amount of average rating. Focusing on movies from the Animation, Drama, Family genres will yield the most engagement and satisfaction.

