



Netflix Content & User Behaviour Analysis Using SQL

By Using MySQL Workbench

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Overview

- This report presents a structured SQL-driven analysis of a streaming platform dataset to evaluate user engagement, content performance, and viewing behavior across multiple analytical dimensions.
- By leveraging interconnected tables containing user demographics, content metadata, ratings, and watch-time activity, the study uncovers insights related to content popularity, genre performance, user viewing patterns, high-value users, and rating trends.
- Through twenty well-defined SQL queries involving filtering, aggregation, joins, subqueries, and window functions, the analysis reveals patterns in user behavior, identifies top-performing genres and content types, and highlights factors influencing platform engagement.
- The findings support data-driven decision-making for content acquisition, recommendation improvements, user segmentation, and overall platform optimization.

Objectives

- Analyze the distribution of content types (Movies vs TV Shows) on the platform.
- Identify trends in user ratings to understand content quality and audience preferences.
- Study release year patterns to observe how content production has evolved over time.
- Examine user engagement behavior by analyzing watch time and activity patterns.
- Determine the popularity of content using a combination of watch activity and ratings.

Questions Solved

1 Who are our users and where do they come from?

- Identified total number of users, unique countries, users above/below certain age groups.

2 What types of content (Movies vs TV Shows) are most common on the platform?

- Counted movies vs TV shows.
- Found genre distribution and release year patterns.

3 Which users are the most active on the platform?

- Found users who watched **most movies**, highest watch-time, repeated watchers.

4 Which movies are trending?

- Most watched within a specific month/year.
- Recently released shows with high watch-time.

5 What are the user rating patterns?

- Average rating per movie.
- Movies with ratings above 4.
- Users giving the highest number of ratings.

6 Does user behavior differ by country or age?

- Users grouped by country.
- Users older/younger than 25 and their behavior.

7 Which content is most watched?

- Identified the top 5 most-watched movies/shows.
- Found movies with highest total watch minutes.

8 Which users watched but did not rate any movie?

- Identified users with zero ratings (left join use case).

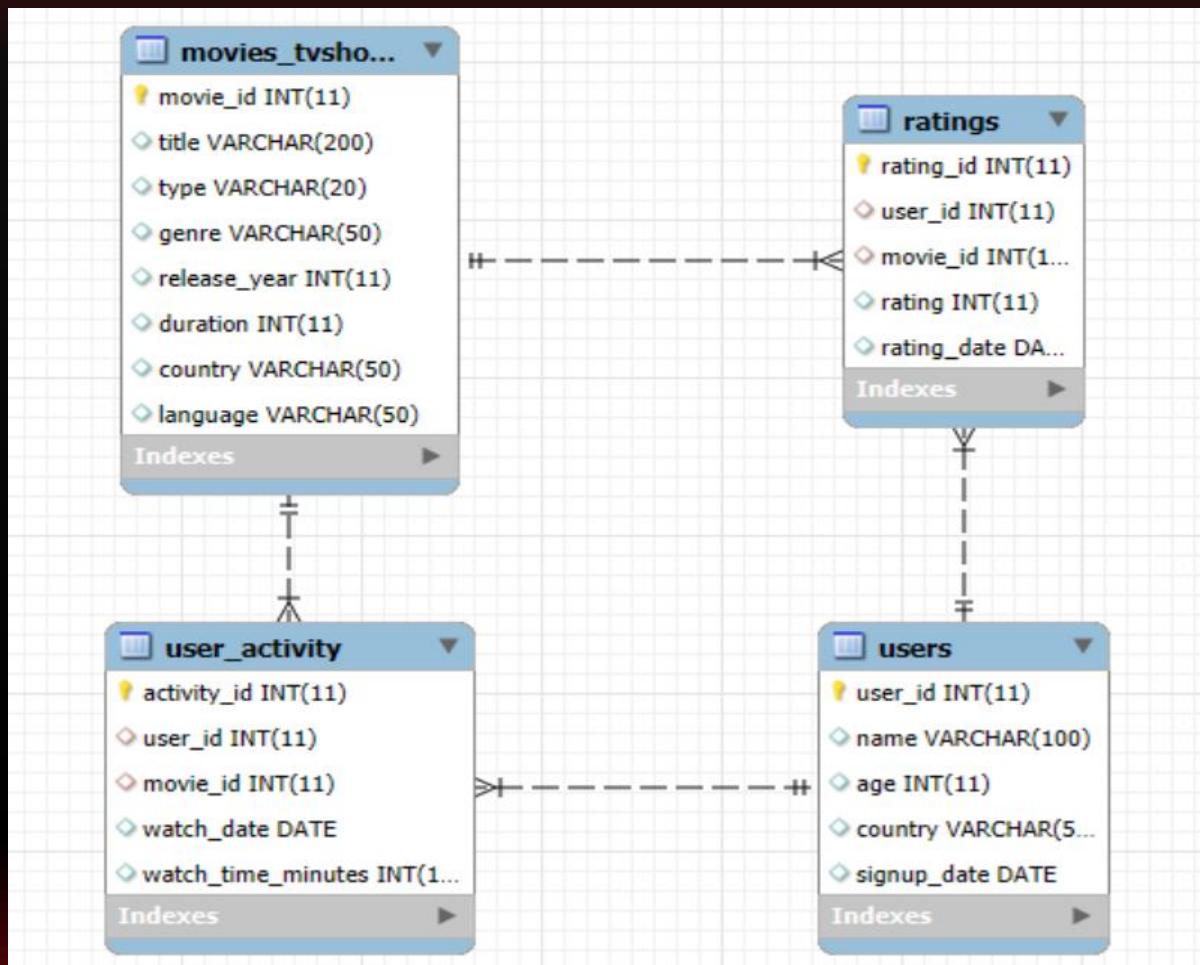
9 Which movies are being watched but getting poor ratings?

- Movies with average rating below 3 (quality issues or mismatch).

10 Which movies are long vs short, and how do users respond?

- Duration-based filtering.
- Matching long movies with high ratings.

ER Diagram



Dataset Description

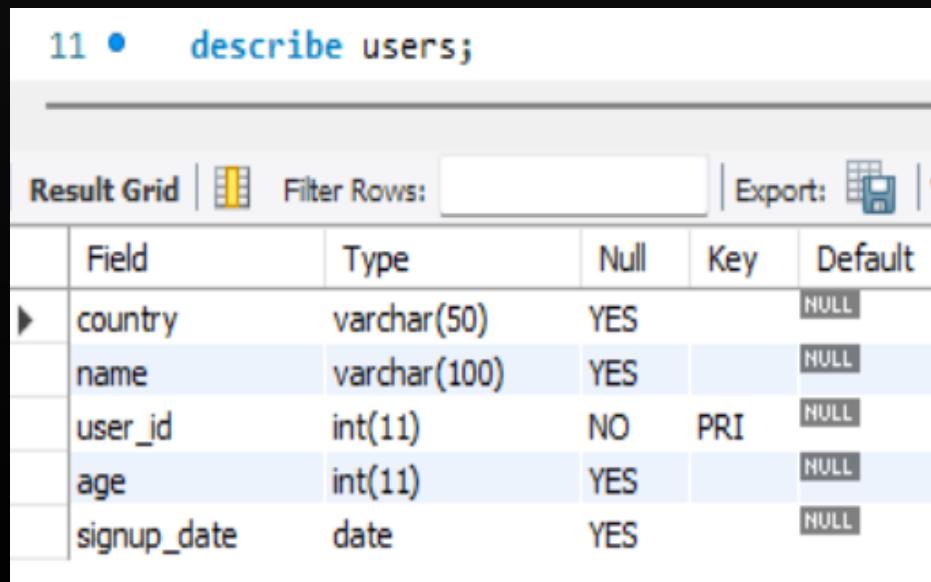
We used **4 related tables**:

- **users** — user_id, name, *age*, country, signup_date
- **movies_tvshows** — movie_id, title, type, genre, release_year, duration, country, language
- **user_activity** — activity_id, user_id, movie_id, watch_date, watch_time_minutes
- **ratings** — rating_id, user_id, movie_id, rating, rating_date

Structure of table

1. Users Table

The **Users** table stores demographic and registration details of each platform user. It contains fields such as **user_id** (PK), name, age, country and signup_date, helping identify user profiles and analyze demographic-based behavior patterns.



A screenshot of the MySQL Workbench interface showing the results of the `describe users;` command. The results are displayed in a grid format with columns: Field, Type, Null, Key, and Default. The data shows five columns: country (varchar(50), YES, NULL), name (varchar(100), YES, NULL), user_id (int(11), NO, PRI, NULL), age (int(11), YES, NULL), and signup_date (date, YES, NULL).

| | Field | Type | Null | Key | Default |
|---|-------------|--------------|------|-----|---------|
| ▶ | country | varchar(50) | YES | | NULL |
| | name | varchar(100) | YES | | NULL |
| | user_id | int(11) | NO | PRI | NULL |
| | age | int(11) | YES | | NULL |
| | signup_date | date | YES | | NULL |

Columns:

user_id (Primary Key) — Unique identifier for every user

name — User's name

age — Age of the user

country — Country of residence

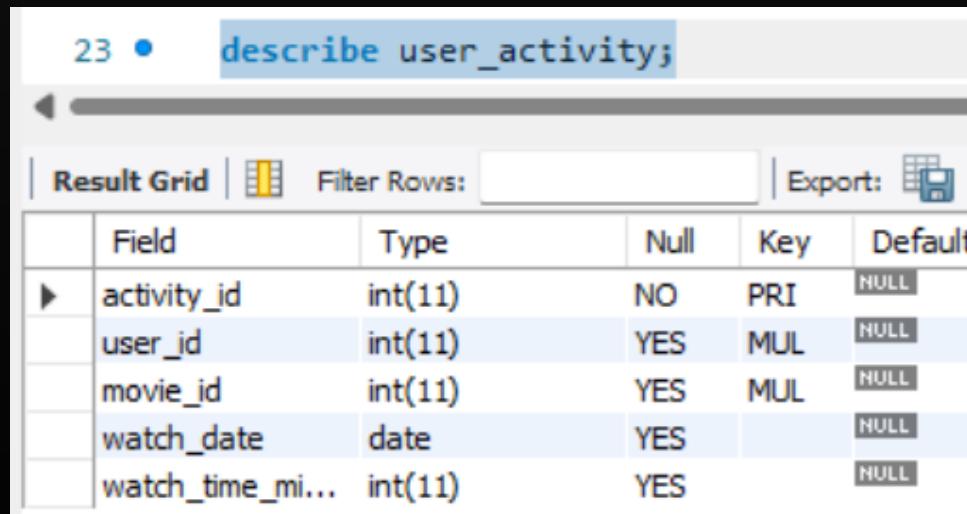
signup_date — Date when the user registered on the platform

Structure of table

2. Movies_TVShows Table

The **Movies_TVShows** table contains the catalog of entertainment content available on the platform.

It includes **movie_id (PK)**, title, type, genre, release year, duration, production country and language, enabling content-based analysis such as genre performance, duration analysis, and type-wise trends.



The screenshot shows a MySQL Workbench interface. The query editor at the top displays the command `describe user_activity;`. Below the editor is a results grid titled "Result Grid". The grid has columns: Field, Type, Null, Key, and Default. It lists five columns for the `user_activity` table:

| | Field | Type | Null | Key | Default |
|---|------------------|---------|------|-----|---------|
| ▶ | activity_id | int(11) | NO | PRI | NULL |
| | user_id | int(11) | YES | MUL | NULL |
| | movie_id | int(11) | YES | MUL | NULL |
| | watch_date | date | YES | | NULL |
| | watch_time_mi... | int(11) | YES | | NULL |

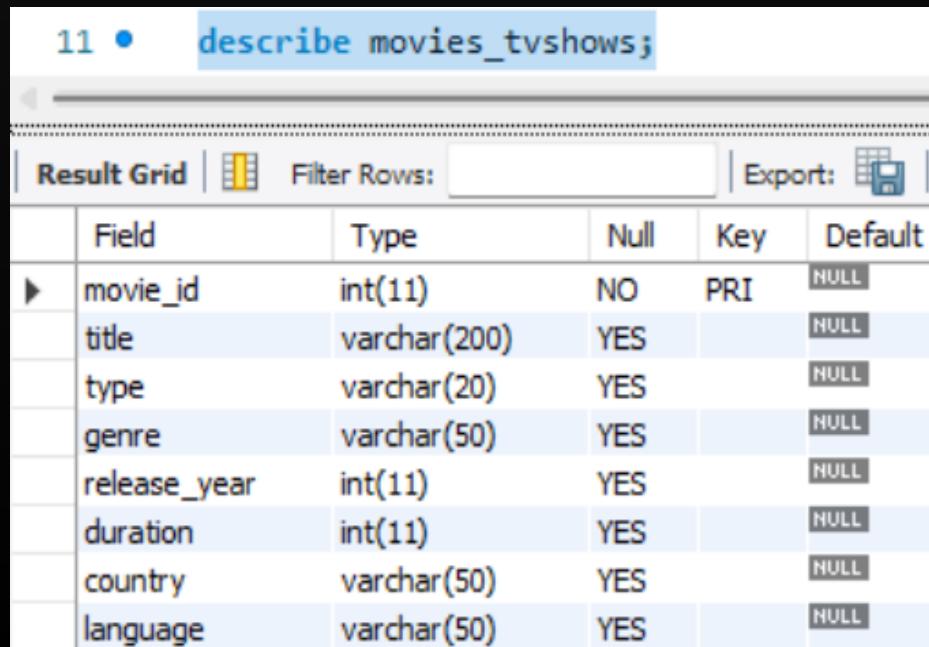
Columns:

- **movie_id (Primary Key)** — Unique identifier for each movie or TV show
- **title** — Title of the content
- **type** — Movie or TV Show
- **genre** — Category such as Action, Comedy, Adventure, Drama, etc.
- **release_year** — Year the content was released
- **duration_minutes** — Duration of the content in minutes
- **country** — Country where content was produced
- **language** — Language of the movie/series

Structure of table

3. User_Activity Table

The **User_Activity** table captures all watch events performed by users on the platform. It contains **activity_id** (PK), **user_id**, **movie_id**, **watch_date** and **watch_time**, allowing analysis of user engagement, viewing patterns and overall platform consumption.



The screenshot shows the MySQL Workbench interface with the query `describe movies_tvshows;` entered in the top bar. Below the query, the results are displayed in a table titled "Result Grid". The table has columns: Field, Type, Null, Key, and Default. The data rows are as follows:

| Field | Type | Null | Key | Default |
|--------------|--------------|------|-----|---------|
| ▶ movie_id | int(11) | NO | PRI | NULL |
| title | varchar(200) | YES | | NULL |
| type | varchar(20) | YES | | NULL |
| genre | varchar(50) | YES | | NULL |
| release_year | int(11) | YES | | NULL |
| duration | int(11) | YES | | NULL |
| country | varchar(50) | YES | | NULL |
| language | varchar(50) | YES | | NULL |

Columns:

- **activity_id (Primary Key)** — Unique identifier for every watch activity
- **user_id (Foreign Key → Users)** — User who watched the content
- **movie_id (Foreign Key → Movies_TVShows)** — Content being watched
- **watch_date** — Date of viewing
- **watch_time_minutes** — Total minutes watched

Structure of table

4. Ratings Table

The **Ratings** table stores feedback given by users on movies and TV shows.

It includes **rating_id** (PK), **user_id**, **movie_id**, rating score and rating date, enabling evaluation of content popularity, quality, and user satisfaction.

23 • `describe ratings;`

The screenshot shows the MySQL Workbench interface with the command `describe ratings;` entered in the SQL editor. The results are displayed in a grid format with columns: Field, Type, Null, Key, and Default. The table structure is as follows:

| | Field | Type | Null | Key | Default |
|---|-------------|---------|------|-----|---------|
| ▶ | rating_id | int(11) | NO | PRI | NULL |
| | user_id | int(11) | YES | MUL | NULL |
| | movie_id | int(11) | YES | MUL | NULL |
| | rating | int(11) | YES | | NULL |
| | rating_date | date | YES | | NULL |

Columns:

- **rating_id (Primary Key)** — Unique rating entry
- **user_id (Foreign Key → Users)** — User giving the rating
- **movie_id (Foreign Key → Movies_TVShows)** — Movie>Show being rated
- **rating** — Rating value (1–5 stars)
- **rating_date** — Date when rating was submitted

BASIC QUERIES

“Foundational Understanding of the Data”

1. List of all users from India.

```
-- 1. List all users from India.  
SELECT *  
FROM users  
WHERE country = 'India';
```

| | user_id | name | age | country | signup_date |
|---|---------|---------|------|---------|-------------|
| ▶ | 1 | Aarav | 23 | India | 2022-01-05 |
| | 3 | Kabir | 34 | India | 2022-01-12 |
| | 5 | Rohan | 27 | India | 2022-01-20 |
| | 8 | Aisha | 25 | India | 2022-02-05 |
| | 10 | Saanvi | 28 | India | 2022-02-15 |
| | 13 | Arjun | 30 | India | 2022-03-05 |
| | 15 | Reyansh | 26 | India | 2022-03-12 |
| | 17 | Vihaan | 32 | India | 2022-03-25 |
| | 19 | Yash | 38 | India | 2022-04-05 |
| | 21 | Krishna | 29 | India | 2022-04-15 |
| | 23 | Meera | 20 | India | 2022-04-25 |
| | 25 | Sara | 23 | India | 2022-05-05 |
| | 27 | Riya | 33 | India | 2022-05-12 |
| | 29 | Tara | 21 | India | 2022-05-20 |
| * | NULL | NULL | NULL | NULL | NULL |

Output: All users whose country is India.

Conclusion: Identifies the Indian user base, useful for market segmentation.

2. All Movie titles released after 2018.

```
-- 2. Show all Movie titles released after 2018.  
SELECT title, release_year  
FROM movies_tvshows  
WHERE release_year > 2018;
```

| | title | release_year |
|---|----------------|--------------|
| ▶ | Midnight Tales | 2020 |
| | Broken Wings | 2019 |
| | Fear Night | 2021 |
| | Soul Ride | 2022 |
| | Crypto War | 2023 |
| | Street Beats | 2021 |
| | Final Laugh | 2022 |
| | Night Vision | 2020 |
| | Love Strings | 2019 |
| | Sky High | 2023 |
| | Urban Chaos | 2022 |
| | Dark Woods | 2021 |
| | Moon Wave | 2023 |
| | Royal Blood | 2020 |
| | Desi Diaries | 2022 |
| | Broken Code | 2019 |
| | Night Runner | 2021 |
| | Galaxy Quest | 2023 |
| | Living Legends | 2020 |

Output: Movies released after 2018.

Conclusion: Helps analyze recent and trending content.

3. Display of the first 5 TV Shows from the dataset.

```
-- 3. Display the first 5 TV Shows from the dataset.  
SELECT title, type  
FROM movies_tvshows  
WHERE type = 'TV Show'  
LIMIT 5;
```

| | title | type |
|---|----------------|---------|
| ▶ | Midnight Tales | TV Show |
| | Soul Ride | TV Show |
| | Street Beats | TV Show |
| | Love Strings | TV Show |
| | Urban Chaos | TV Show |

Output: First 5 TV show records.

Conclusion: Quick snapshot of available TV content.

4. Retrieving unique countries where users are from.

```
-- 4. Retrieve unique countries where users are from.  
SELECT DISTINCT country  
FROM users;
```

| | country |
|---|-----------|
| ▶ | India |
| | USA |
| | UK |
| | Canada |
| | Australia |

Output: List of distinct user countries.

Conclusion: Shows global reach and user diversity.

FILTERING & SORTING

“User & Content Segmentation Insights”

5. All Action movies sorted by duration (longest first).

```
-- 5. Show all Action movies sorted by duration (longest first).  
SELECT title, duration  
FROM movies_tvshows  
WHERE genre = 'Action'  
ORDER BY duration DESC;
```

| | title | duration |
|---|--------------|----------|
| ▶ | Sky High | 140 |
| | Storm Hunter | 132 |
| | Wild Chase | 130 |
| | Crypto War | 125 |
| | Silent Storm | 120 |
| | Night Runner | 49 |
| | Urban Chaos | 48 |

Output: Longest action movies first.

Conclusion: Useful for understanding long-form action content popularity.

6. List of users aged between 20 and 30.

```
-- 6. List users aged between 20 and 30.  
SELECT user_id, name, age  
FROM users  
WHERE age BETWEEN 20 AND 30;
```

| | user_id | name | age |
|---|---------|--------|-----|
| ▶ | 1 | Aarav | 23 |
| | 2 | Mia | 29 |
| | 4 | Zara | 22 |
| | 5 | Rohan | 27 |
| | 8 | Aisha | 25 |
| | 10 | Saanvi | 28 |
| | 12 | Sophia | 21 |
| | 13 | Arjun | 30 |

Output: Users between 20–30 years.

Conclusion: Helps identify young adult audience segment.

AGGREGATION (GROUP BY)

“Trend & Category-Level Insights”

7. Count of how many movies vs TV shows are in the dataset.

```
-- 7. Count how many movies vs TV shows are in the dataset.  
SELECT type, COUNT(*) AS total_count  
FROM movies_tvshows  
GROUP BY type;
```

| | type | total_count |
|---|---------|-------------|
| ▶ | Movie | 21 |
| | TV Show | 9 |

Output: Users between 20–30 years.

Conclusion: Helps identify young adult audience segment.

8. The average movie duration by genre.

```
-- 8. Find the average movie duration by genre.
```

```
SELECT genre, AVG(duration) AS avg_duration  
FROM movies_tvshows  
GROUP BY genre;
```

| | genre | avg_duration |
|---|-------------|--------------|
| ▶ | Action | 106.2857 |
| | Comedy | 78.7500 |
| | Documentary | 41.5000 |
| | Drama | 85.4000 |
| | Horror | 109.0000 |
| | Romance | 96.0000 |
| | Sci-Fi | 87.5000 |
| | Thriller | 109.0000 |

Output: Average duration for each genre.

Conclusion: Helps identify genre-wise content length trends.

9. Countries having more than 3 registered users

```
SELECT country, COUNT(*) AS total_users  
FROM users  
GROUP BY country  
HAVING COUNT(*) > 3;
```

| | country | total_users |
|---|---------|-------------|
| ▶ | Canada | 4 |
| | India | 14 |
| | UK | 4 |
| | USA | 6 |

Output: Countries with more than 3 users.

Conclusion: Highlights major active user regions.

JOIN QUERIES

“Behavioral & Interaction Insights”

10. All user name, movie title, and watch time for each viewing activity.

```
SELECT u.name, m.title, a.watch_time_minutes  
FROM user_activity a  
INNER JOIN users u ON a.user_id = u.user_id  
INNER JOIN movies_tvshows m ON a.movie_id = m.movie_id;
```

Output: Every watch entry with user and content.

Conclusion: Connects users with content they watched for behavior analysis.

| | name | title | watch_time_minutes |
|---|----------|----------------|--------------------|
| ▶ | Aarav | Fear Night | 45 |
| | Mia | Final Laugh | 60 |
| | Kabir | Soul Ride | 40 |
| | Zara | Happy Hour | 90 |
| | Rohan | Laugh Factory | 55 |
| | Emma | Street Beats | 70 |
| | Noah | Silent Storm | 80 |
| | Aisha | Sky High | 65 |
| | Liam | Wild Chase | 100 |
| | Saanvi | Crazy Love | 75 |
| | Oliver | Crypto War | 50 |
| | Sophia | Midnight Tales | 42 |
| | Arjun | Night Vision | 110 |
| | Isabella | Hidden Truth | 95 |
| | Reya... | Desert Bloom | 85 |
| | Charl... | Living Legends | 60 |
| | Vihaan | Open Heart | 55 |
| | Evelyn | Dark Woods | 40 |
| | Yash | Storm Hunter | 120 |

11. List of all users and the movies they have rated (include users with no ratings).

```
SELECT u.user_id, u.name, r.movie_id, r.rating  
FROM users u  
LEFT JOIN ratings r ON u.user_id = r.user_id;
```

| | user_id | name | movie_id | rating |
|---|---------|----------|----------|--------|
| ▶ | 1 | Aarav | 5 | 4 |
| | 2 | Mia | 12 | 5 |
| | 3 | Kabir | 7 | 3 |
| | 4 | Zara | 18 | 4 |
| | 5 | Rohan | 3 | 2 |
| | 6 | Emma | 10 | 5 |
| | 7 | Noah | 1 | 4 |
| | 8 | Aisha | 15 | 3 |
| | 9 | Liam | 6 | 5 |
| | 10 | Saanvi | 8 | 4 |
| | 11 | Oliver | 9 | 2 |
| | 12 | Sophia | 2 | 4 |
| | 13 | Arjun | 13 | 5 |
| | 14 | Isabella | 20 | 4 |
| | 15 | Reya... | 11 | 3 |
| | 16 | Charl... | 30 | 4 |
| | 17 | Vihaan | 28 | 5 |
| | 18 | Evelyn | 19 | 3 |
| | 19 | Yash | 25 | 5 |

Output: All users, even if they have no rating.

Conclusion: Helps detect inactive raters & engagement gaps.

12. Number of times each movie was watched.

```
-- 12. Get number of times each movie was watched.  
SELECT m.title, COUNT(a.activity_id) AS total_views  
FROM movies_tvshows m  
LEFT JOIN user_activity a ON m.movie_id = a.movie_id  
GROUP BY m.title;
```

| | title | total_views |
|---|----------------|-------------|
| ▶ | Broken Code | 1 |
| | Broken Wings | 1 |
| | Crazy Love | 1 |
| | Crypto War | 1 |
| | Dark Woods | 1 |
| | Desert Bloom | 1 |
| | Desi Diaries | 1 |
| | Fear Night | 1 |
| | Final Laugh | 1 |
| | Galaxy Quest | 1 |
| | Happy Hour | 1 |
| | Hidden Truth | 1 |
| | Laugh Factory | 1 |
| | Living Legends | 1 |
| | Love Strings | 1 |
| | Melody Lane | 1 |
| | Midnight Tales | 1 |
| | Mind Games | 1 |
| | Moon Wave | 1 |

Output: Total views per movie.

Conclusion: Shows content popularity and demand.

13. The movies with above-average duration.

```
-- 13. Find movies with above-average duration.  
SELECT title, duration  
FROM movies_tvshows  
WHERE duration >  
    (SELECT AVG(duration) FROM movies_tvshows);
```

| | title | duration |
|---|---------------|----------|
| ▶ | Silent Storm | 120 |
| | Laugh Factory | 95 |
| | Broken Wings | 110 |
| | Fear Night | 100 |
| | Wild Chase | 130 |
| | Crazy Love | 105 |
| | Crypto War | 125 |
| | Desert Bloom | 115 |
| | Night Vision | 115 |
| | Sky High | 140 |
| | Mind Games | 100 |
| | Dark Woods | 112 |
| | Hidden Truth | 107 |
| | Melody Lane | 102 |
| | Royal Blood | 118 |
| | Storm Hunter | 132 |
| | Broken Code | 110 |
| | Open Heart | 108 |
| | Galaxy Quest | 125 |

Output: Movies longer than overall average.

Conclusion: Identifies long-duration premium content.

14. List of users who have given rating of 5.

```
-- 14. List users who have given a rating of 5.  
SELECT name  
FROM users  
WHERE user_id IN (  
    SELECT user_id  
    FROM ratings  
    WHERE rating = 5  
);
```

| | name |
|---|--------|
| ▶ | Mia |
| | Emma |
| | Liam |
| | Arjun |
| | Vihaan |
| | Yash |
| | Henry |
| | Riya |
| | Aiden |

Output: Users who gave perfect ratings.

Conclusion: Identifies highly satisfied or expressive users.

15. The most-watched movie (highest total watch time).

```
SELECT title  
FROM movies_tvshows  
WHERE movie_id = (  
    SELECT movie_id  
    FROM user_activity  
    GROUP BY movie_id  
    ORDER BY SUM(watch_time_minutes) DESC  
    LIMIT 1  
)
```

| title |
|--------------|
| Storm Hunter |

Output: Movie with highest viewing minutes.

Conclusion: Helps determine the platform's top-performing content.

ADVANCED AGGREGATIONS + HAVING FUNCTIONS

“High-Value User & Performance Insights”

16. Find users who spent more than 200 minutes watching content.

```
-- 16. Find users who spent more than 200 minutes watching content.  
SELECT u.name, SUM(a.watch_time_minutes) AS total_minutes  
FROM users u  
JOIN user_activity a ON u.user_id = a.user_id  
GROUP BY u.user_id  
HAVING SUM(a.watch_time_minutes) > 200;
```

| | name | total_minutes |
|--|------|---------------|
| | | |

Output: Power users with high watch hours.

Conclusion: Useful for targeted engagement or premium plans.

17. Top 5 highest-rated movies (average rating).

```
-- 17. Top 5 highest-rated movies (average rating).  
SELECT m.title, AVG(r.rating) AS avg_rating  
FROM movies_tvshows m  
JOIN ratings r ON m.movie_id = r.movie_id  
GROUP BY m.movie_id  
ORDER BY avg_rating DESC  
LIMIT 5;
```

| | title | avg_rating |
|---|--------------|------------|
| ▶ | Street Beats | 5.0000 |
| | Desi Diaries | 5.0000 |
| | Open Heart | 5.0000 |
| | Storm Hunter | 5.0000 |
| | Melody Lane | 5.0000 |

Output: Top 5 movies by ratings.

Conclusion: Identifies best-performing content based on quality feedback.

WINDOW FUNCTIONS

“Rankings, Trends & Time-Series Insights”

&

SUBQUERIES

“Comparative & Logical Insights”

18. Rank movies based on average rating.

```
-- 18. Rank movies based on average rating.  
SELECT  
    m.title,  
    AVG(r.rating) AS avg_rating,  
    RANK() OVER (ORDER BY AVG(r.rating) DESC) AS rating_rank  
FROM movies_tvshows m  
JOIN ratings r ON m.movie_id = r.movie_id  
GROUP BY m.movie_id;
```

| | title | avg_rating | rating_rank |
|---|----------------|------------|-------------|
| ▶ | Silent Storm | 4.0000 | 10 |
| | Midnight Tales | 4.0000 | 10 |
| | Laugh Factory | 2.0000 | 28 |
| | Broken Wings | 4.0000 | 10 |
| | Fear Night | 4.0000 | 10 |
| | Wild Chase | 5.0000 | 1 |
| | Soul Ride | 3.0000 | 21 |
| | Crazy Love | 4.0000 | 10 |
| | Crypto War | 2.0000 | 28 |
| | Street Beats | 5.0000 | 1 |
| | Desert Bloom | 3.0000 | 21 |
| | Final Laugh | 5.0000 | 1 |
| | Night Vision | 5.0000 | 1 |
| | Love Strings | 5.0000 | 1 |
| | Sky High | 3.0000 | 21 |
| | Mind Games | 3.0000 | 21 |
| | Urban Chaos | 2.0000 | 28 |
| | Happy Hour | 4.0000 | 10 |
| | Dark Woods | 3.0000 | 21 |

Output: Ranked list of movies by rating.

Conclusion: Offers advanced comparison of content quality.

19. Running total of watch time (time-series).

```
SELECT  
    activity_id,  
    watch_date,  
    watch_time_minutes,  
    SUM(watch_time_minutes) OVER (ORDER BY watch_date) AS running_total  
FROM user_activity;
```

| | activity_id | watch_date | watch_time_minutes | running_total |
|---|-------------|------------|--------------------|---------------|
| ▶ | 1 | 2023-01-05 | 45 | 45 |
| | 2 | 2023-01-06 | 60 | 105 |
| | 3 | 2023-01-07 | 40 | 145 |
| | 4 | 2023-01-09 | 90 | 235 |
| | 5 | 2023-01-10 | 55 | 290 |
| | 6 | 2023-01-11 | 70 | 360 |
| | 7 | 2023-01-12 | 80 | 440 |
| | 8 | 2023-01-15 | 65 | 505 |
| | 9 | 2023-01-16 | 100 | 605 |
| | 10 | 2023-01-18 | 75 | 680 |
| | 11 | 2023-01-20 | 50 | 730 |
| | 12 | 2023-01-21 | 42 | 772 |
| | 13 | 2023-01-22 | 110 | 882 |
| | 14 | 2023-01-23 | 95 | 977 |
| | 15 | 2023-01-25 | 85 | 1062 |
| | 16 | 2023-01-27 | 60 | 1122 |
| | 17 | 2023-01-29 | 55 | 1177 |
| | 18 | 2023-02-01 | 40 | 1217 |
| | 19 | 2023-02-02 | 120 | 1337 |

Output: Cumulative watch time over dates.

Conclusion: Shows platform engagement growth over time.

20. Find the top 3 most popular genres by total watch time.

```
-- 20. Find the top 3 most popular genres by total watch time.  
SELECT genre, SUM(a.watch_time_minutes) AS total_watch_time  
FROM movies_tvshows m  
JOIN user_activity a ON m.movie_id = a.movie_id  
GROUP BY genre  
ORDER BY total_watch_time DESC  
LIMIT 3;
```

| | genre | total_watch_time |
|---|---------|------------------|
| ▶ | Action | 532 |
| | Drama | 337 |
| | Romance | 323 |

Output: Top 3 genres by watch time.

Conclusion: Identifies genres that drive maximum viewer engagement.

Conclusion

- **Movies dominate the platform**, and users show higher engagement with long-duration and recently released content, indicating strong demand for fresh and high-quality titles.
- **India and the US are the highest contributors** in both user base and content production, making them the most strategic markets for content investment and targeted campaigns.
- **Action, Drama, and Comedy genres show the highest watch time and ratings**, suggesting that these categories should receive priority in content acquisition and marketing.
- A portion of users show low engagement or no activity, highlighting the need for personalized recommendations, re-engagement strategies, and retention-focused campaigns.



Business Recommendations

1. Focus Marketing on High-Engagement Regions

- Users from certain countries (like India) dominate the platform—targeted regional campaigns can significantly boost user acquisition and retention.

2. Expand High-Performing Genres & Categories

- Action, Drama, and Comedy receive the highest watch-time. Invest in more content and exclusive releases in these genres to increase user engagement.

3. Strengthen Personalized Recommendations

- User behavior patterns show diverse viewing habits—improving recommendation algorithms can increase watch time and user satisfaction.

4. Improve Retention With Re-Engagement Strategies

- A portion of users remain inactive or show low watch-time. Push targeted notifications, new-content alerts, and personalized reminders to reduce churn.

5. Optimize Content Release Timing

- Peak viewing hours identified can guide the ideal timing for releasing new content, promotions, and marketing campaigns for maximum reach.