

## ONLINE OTT PLATFORM DATABASE PROJECT

Unmesh Varade

BT23CSE215

### **Queries with their output:**

Q1. Write a query to list all users from the Users table in alphabetical order.

```
SELECT user_id, name, email, city, created_on  
FROM Users  
ORDER BY name;
```

user_id	name	email	city	created_on
1	Aman Verma	aman.v@example.com	Pune	2024-05-01 10:00:00
3	David Smith	david.s@example.co.uk	London	2023-11-11 08:25:00
2	Nina Patel	nina.p@example.com	Bangalore	2024-07-20 09:30:00
5	Rohit Kapoor	rohit.k@example.com	Mumbai	2025-03-10 11:15:00
4	Sara Lee	sara.lee@example.com	Dubai	2025-01-05 15:45:00
NULL	NULL	NULL	NULL	NULL

Q2. Write a query to display all movies along with their genres.

```
SELECT m.movie_id, m.title, m.release_year,  
       GROUP_CONCAT(g.name SEPARATOR ', ') AS genres  
  FROM Movies m  
 JOIN Movie_Genres mg ON m.movie_id = mg.movie_id  
 JOIN Genres g ON mg.genre_id = g.genre_id  
 GROUP BY m.movie_id;
```

movie_id	title	release_year	genres
1	The Silent Sea	2021	Thriller, Sci-Fi
2	Midnight Chase	2019	Action, Thriller
3	Love & Pixels	2023	Comedy, Romance
4	Quantum Break	2020	Action, Sci-Fi
5	Laugh Out Loud	2018	Comedy
6	Edge of Tomorrow	2014	Action, Sci-Fi

Q3. Write a query to list all active subscriptions along with remaining days.

```
SELECT s.subscription_id, u.name, s.plan_name, s.end_date,
       DATEDIFF(s.end_date, CURDATE()) AS days_left
  FROM Subscriptions s
 JOIN Users u ON s.user_id = u.user_id
 WHERE s.status='Active';
```

subscription_id	name	plan_name	end_date	days_left
1	Aman Verma	Premium	2025-12-31	47
2	Nina Patel	Standard	2025-06-14	-153
4	Sara Lee	Premium	2026-09-30	320

Q4. Write a query to calculate the total revenue generated from all payments.

```
SELECT SUM(amount) AS total_revenue
  FROM Payments;
```

total_revenue
1446.00

Q5. Write a query to find the most-watched movie based on total watch sessions.

```
SELECT m.movie_id, m.title, COUNT(w.watch_id) AS watch_sessions
  FROM Movies m
 LEFT JOIN Watch_History w ON m.movie_id = w.movie_id
 GROUP BY m.movie_id
 ORDER BY watch_sessions DESC
 LIMIT 1;
```

	movie_id	title	watch_sessions
▶	3	Love & Pixels	2

Q6. Write a query to find the top 3 most-watched movies based on total minutes watched.

```
SELECT m.movie_id, m.title, SUM(w.watch_duration_min) AS total_minutes
  FROM Movies m
 LEFT JOIN Watch_History w ON m.movie_id = w.movie_id
```

```

GROUP BY m.movie_id
ORDER BY total_minutes DESC
LIMIT 3;

```

movie_id	title	total_minutes
4	Quantum Break	255
6	Edge of Tomorrow	223
3	Love & Pixels	150

Q7. Write a query to find the most popular genre based on watch count.

```

SELECT g.genre_id, g.name, COUNT(w.watch_id) AS watch_count
FROM Genres g
JOIN Movie_Genres mg ON g.genre_id = mg.genre_id
JOIN Watch_History w ON mg.movie_id = w.movie_id
GROUP BY g.genre_id
ORDER BY watch_count DESC
LIMIT 1;

```

	genre_id	name	watch_count
▶	2	Action	5

Q8. Find the top 3 users who watched the most variety of different movies.

```

SELECT u.user_id, u.name,
       COUNT(DISTINCT w.movie_id) AS unique_movies_watched
FROM Users u
JOIN Watch_History w ON u.user_id = w.user_id
GROUP BY u.user_id
ORDER BY unique_movies_watched DESC
LIMIT 3;

```

user_id	name	unique_movies_watched
1	Aman Verma	3
2	Nina Patel	3
3	David Smith	1

Q9. Write a query to calculate the average rating and rating count for each movie.

```
SELECT m.movie_id, m.title,  
       COALESCE(AVG(r.rating),0) AS avg_rating,  
       COUNT(r.rating_id) AS rating_count  
FROM Movies m  
LEFT JOIN Ratings r ON m.movie_id = r.movie_id  
GROUP BY m.movie_id  
ORDER BY avg_rating DESC;
```

	movie_id	title	avg_rating	rating_count
	1	The Silent Sea	5.0000	1
	6	Edge of Tomorrow	5.0000	1
	4	Quantum Break	4.0000	2
	2	Midnight Chase	3.0000	1
	3	Love & Pixels	0.0000	0
	5	Laugh Out Loud	0.0000	0

Q10. Write a query to calculate the total watch time for each user.

```
SELECT u.user_id, u.name,  
       COALESCE(SUM(w.watch_duration_min),0) AS total_watch_minutes  
FROM Users u  
LEFT JOIN Watch_History w ON u.user_id = w.user_id  
GROUP BY u.user_id  
ORDER BY total_watch_minutes DESC;
```

	user_id	name	total_watch_minutes
	2	Nina Patel	338
	1	Aman Verma	280
	3	David Smith	125
	4	Sara Lee	110
	5	Rohit Kapoor	80

Q11. Write a query to display movies released in the last 5 years.

```
SELECT movie_id, title, release_year  
FROM Movies  
WHERE release_year >= (YEAR(CURDATE()) - 5);
```

	movie_id	title	release_year
▶	1	The Silent Sea	2021
	3	Love & Pixels	2023
	4	Quantum Break	2020
*	NULL	NULL	NULL

Q12. Write a query to compute revenue and subscriber count for each subscription plan.

```
SELECT s.plan_name,
       COALESCE(SUM(p.amount),0) AS plan_revenue,
       COUNT(DISTINCT s.user_id) AS subscribers
  FROM Subscriptions s
 LEFT JOIN Payments p ON s.subscription_id = p.subscription_id
 GROUP BY s.plan_name;
```

	plan_name	plan_revenue	subscribers
▶	Basic	149.00	1
	Premium	998.00	2
	Standard	299.00	2

Q13. Write a query to list all users who have given a 5-star rating.

```
SELECT u.user_id, u.name, m.title, r.rating
  FROM Ratings r
 JOIN Users u ON r.user_id = u.user_id
 JOIN Movies m ON r.movie_id = m.movie_id
 WHERE r.rating = 5;
```

	user_id	name	title	rating
▶	1	Aman Verma	The Silent Sea	5
	4	Sara Lee	Edge of Tomorrow	5

Q14. Write a query to indicate whether user 1 has rated each movie.

```
SELECT m.movie_id, m.title,
CASE
  WHEN EXISTS (
    SELECT 1 FROM Ratings r
    WHERE r.movie_id = m.movie_id AND r.user_id = 1
  )
  THEN 1
  ELSE 0
END AS rated
```

```

)
THEN 'Rated'
ELSE 'Not Rated'
END AS user1_rating_status
FROM Movies m;

```

	movie_id	title	user1_rating_status
▶	1	The Silent Sea	Rated
	2	Midnight Chase	Not Rated
	3	Love & Pixels	Not Rated
	4	Quantum Break	Rated
	5	Laugh Out Loud	Not Rated
	6	Edge of Tomorrow	Not Rated

Q15. Write a query to calculate the average watch duration for each genre.

```

SELECT g.name AS genre,
       AVG(w.watch_duration_min) AS avg_watch_minutes
  FROM Genres g
 JOIN Movie_Genres mg ON g.genre_id = mg.genre_id
 JOIN Watch_History w ON mg.movie_id = w.movie_id
 GROUP BY g.genre_id
 ORDER BY avg_watch_minutes DESC;

```

genre	avg_watch_minutes
Action	120.6000
Sci-Fi	115.6000
Thriller	112.5000
Comedy	76.6667
Romance	75.0000

Q16. Get full user profile of any with active subscription details.

```

SELECT u.user_id, u.name, u.email, u.city,
       s.plan_name, s.start_date, s.end_date, s.status
  FROM Users u
 LEFT JOIN Subscriptions s ON u.user_id = s.user_id
 WHERE u.user_id = 1;

```

user_id	name	email	city	plan_name	start_date	end_date	status
1	Aman Verma	aman.v@example.com	Pune	Premium	2025-01-01	2025-12-31	Active

Q17. Get last 10 recently watched movies of a user given user id as 1.

```
SELECT m.movie_id, m.title, w.watched_on
FROM Watch_History w
JOIN Movies m ON w.movie_id = m.movie_id
WHERE w.user_id = 1
ORDER BY w.watched_on DESC
LIMIT 10;
```

	movie_id	title	watched_on
▶	3	Love & Pixels	2025-11-05 20:15:00
	4	Quantum Break	2025-10-10 21:30:00
	1	The Silent Sea	2025-10-05 20:00:00

Q18. List movies with no ratings yet.

```
SELECT m.movie_id, m.title
FROM Movies m
LEFT JOIN Ratings r ON m.movie_id = r.movie_id
WHERE r.rating_id IS NULL;
```

	movie_id	title
▶	3	Love & Pixels
	5	Laugh Out Loud