SQL QUERIES (13 Queries)

- ```sql
  SELECT * FROM Movies
  WHERE release_date > '2010-01-01';
  ```

movie_id	title	genre	duration	release_date
1	Inception	Sci-Fi	148	2010-07-16
3	Interstellar	Sci-Fi	169	2014-11-07
4	Avengers: Endgame	Action	181	2019-04-26
6	Joker	Drama	122	2019-10-04
7	Frozen	Animation	102	2013-11-27
NULL	NULL	NULL	NULL	NULL

- ```sql
  SELECT * FROM Theaters
  WHERE location = 'New York';
  ```

theater_id	name	location
1	Cineplex 1	New York
NULL	NULL	NULL

```sql
SELECT * FROM Bookings
WHERE number_of_seats > 2;
```

booking_id	customer_id	show_id	number_of_sea...	booking_date	total_amou...
2	2	2	3	2025-04-06	30.00
4	4	4	4	2025-04-06	40.00
6	6	6	3	2025-04-06	30.00
NULL	NULL	NULL	NULL	NULL	NULL

```sql
SELECT * FROM Shows
WHERE show_date = '2025-04-07';
```

show_id	movie_id	screen_id	show_time	show_date
1	1	1	14:00:00	2025-04-07
2	2	2	17:30:00	2025-04-07
3	3	3	19:00:00	2025-04-07
4	4	4	13:00:00	2025-04-07
5	5	5	15:30:00	2025-04-07
6	6	6	18:00:00	2025-04-07
7	7	7	16:00:00	2025-04-07
8	8	8	20:00:00	2025-04-07
NULL	NULL	NULL	NULL	NULL

- ```sql
  SELECT AVG(seat_capacity) AS avg_capacity
  FROM Screens;
  ```

avg_...
156....

- ```sql
  SELECT booking_date, COUNT(*) AS total_bookings
  FROM Bookings
  GROUP BY booking_date;
  ```

booking_date	total_bookin...
2025-04-06	8

-
```sql
SELECT customer_id, SUM(total_amount) AS total_spent
FROM Bookings
GROUP BY customer_id;
```

customer_id	total_spe...
1	20.00
2	30.00
3	10.00
4	40.00
5	20.00
6	30.00
7	20.00
8	10.00

-
```sql
SELECT genre, COUNT(*) AS movie_count
FROM Movies
GROUP BY genre;
```

genre	movie_count
Sci-Fi	2
Action	2
Romance	1
Drama	1
Animation	2

```sql
SELECT m.title, s.show_time, t.name AS theater_name
FROM Shows s
JOIN Movies m ON s.movie_id = m.movie_id
JOIN Screens sc ON s.screen_id = sc.screen_id
JOIN Theaters t ON sc.theater_id = t.theater_id;
```

title	show_time	theater_name
Inception	14:00:00	Cineplex 1
The Dark Knight	17:30:00	MovieTown
Interstellar	19:00:00	Galaxy Theater
Avengers: Endgame	13:00:00	Fun Cinemas
Titanic	15:30:00	PVR Mall
Joker	18:00:00	IMAX Central
Frozen	16:00:00	Grand Screens
The Lion King	20:00:00	Urban Cine

```sql
SELECT b.booking_id, c.name AS customer_name, b.total_amount
FROM Bookings b
JOIN Customers c ON b.customer_id = c.customer_id;
```

booking_id	customer_name	total_amou...
1	Alice Johnson	20.00
2	Bob Smith	30.00
3	Cathy Brown	10.00
4	David Lee	40.00
5	Eva Green	20.00
6	Frank Hall	30.00
7	Grace White	20.00
8	Henry Black	10.00

-
```sql
SELECT movie_id, COUNT(*) AS show_count
FROM Shows
GROUP BY movie_id
HAVING COUNT(*) < 3;
```

movie_id	show_count
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1

-
```sql
SELECT c.name AS customer_name, m.title AS movie_title, b.booking_date
FROM Bookings b
JOIN Customers c ON b.customer_id = c.customer_id
JOIN Shows s ON b.show_id = s.show_id
JOIN Movies m ON s.movie_id = m.movie_id
ORDER BY b.booking_date DESC;
```

customer_name	movie_title	booking_date
Alice Johnson	Inception	2025-04-06
Bob Smith	The Dark Knight	2025-04-06
Cathy Brown	Interstellar	2025-04-06
David Lee	Avengers: Endgame	2025-04-06
Eva Green	Titanic	2025-04-06
Frank Hall	Joker	2025-04-06
Grace White	Frozen	2025-04-06
Henry Black	The Lion King	2025-04-06

- ```sql
  SELECT c.name AS customer_name, m.title AS movie_title, b.booking_date
  FROM Bookings b
  JOIN Customers c ON b.customer_id = c.customer_id
  JOIN Shows s ON b.show_id = s.show_id
  JOIN Movies m ON s.movie_id = m.movie_id
  ORDER BY b.booking_date DESC
  LIMIT 1;
  ```

customer_name	movie_title	booking_date
Alice Johnson	Inception	2025-04-06