

Table Creation

1. Create database & table:

```
mysql> create database tkkt_booking;
Query OK, 1 row affected (0.03 sec)

mysql> use tkkt_booking;
Database changed

mysql> create table users (
    -> user_id INT PRIMARY KEY AUTO_INCREMENT,
    -> name VARCHAR(100),
    -> email VARCHAR(100) UNIQUE,
    -> password VARCHAR(100)
    ->
    -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'C
CREATE TABLE users (
user_id INT PRIMARY KEY AUTO_INCREMENT,
name VARCHAR(100),
' at line 1
mysql> CREATE TABLE users (
    -> user_id INT PRIMARY KEY AUTO_INCREMENT,
    -> name VARCHAR(100),
    -> email VARCHAR(100) UNIQUE,
    -> password VARCHAR(100)
    -> );
Query OK, 0 rows affected (0.05 sec)
```

2. Insert into users:

```
mysql> INSERT INTO users VALUES
    -> ('102','Allen','Allen@gmail.com','Allen123'),
    -> ('103','Joe','Joe@gmail.com','Joe123'),
    -> ('104','Watson','Watson@gmail.com','Watson123'),
    -> ('105','Mick','Mick@gmail.com','Mick123'),
    -> ('106','Ron','Ron@gmail.com','Ron123'),
    -> ('107','Bob','Bob@gmail.com','Bob123'),
    -> ('108','Jack','Jack@gmail.com','Jack123'),
    -> ('109','Ram','Ram@gmail.com','Ram123'),
    -> ('110','Shiva','Shiva@gmail.com','Shiva123');
Query OK, 9 rows affected (0.01 sec)
Records: 9  Duplicates: 0  Warnings: 0

mysql> Select * from users;
+-----+-----+-----+-----+
| user_id | name | email | password |
+-----+-----+-----+-----+
|    101 | Smith | Smith@gmail.com | Smith123 |
|    102 | Allen | Allen@gmail.com | Allen123 |
|    103 | Joe   | Joe@gmail.com   | Joe123   |
|    104 | Watson | Watson@gmail.com | Watson123 |
|    105 | Mick   | Mick@gmail.com   | Mick123   |
|    106 | Ron   | Ron@gmail.com   | Ron123   |
|    107 | Bob   | Bob@gmail.com   | Bob123   |
|    108 | Jack   | Jack@gmail.com   | Jack123   |
|    109 | Ram   | Ram@gmail.com   | Ram123   |
|   110 | Shiva | Shiva@gmail.com | Shiva123 |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

3. Create table movies:

```
mysql> CREATE TABLE movies (
    -> movie_id INT PRIMARY KEY AUTO_INCREMENT,
    -> title VARCHAR(150),
    -> genre VARCHAR(50),
    -> duration INT
    -> );
Query OK, 0 rows affected (0.03 sec)
```

4. Insert into movies:

```
mysql> INSERT INTO movies VALUES
-> ('11','The Shawshank Redemption','Thriller','2'),
-> ('12','The Godfather','Action','4'),
-> ('13','The Dark Knight ','Thriller','3'),
-> ('14',' Inception ','Thriller','2'),
-> ('15','Babys Day Out','Comedy','2'),
-> ('16','Home Alone','Comedy','2'),
-> ('17','Titanic','Romantic','3'),
-> ('18','The Matrix','Action','2'),
-> ('19','Avatar','Animation','4'),
-> ('20','Pulp Fiction','Cult crime','3');
Query OK, 10 rows affected (0.01 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

```
mysql> select * from movies;
+-----+-----+-----+-----+
| movie_id | title | genre | duration |
+-----+-----+-----+-----+
| 11 | The Shawshank Redemption | Thriller | 2 |
| 12 | The Godfather | Action | 4 |
| 13 | The Dark Knight | Thriller | 3 |
| 14 | Inception | Thriller | 2 |
| 15 | Babys Day Out | Comedy | 2 |
| 16 | Home Alone | Comedy | 2 |
| 17 | Titanic | Romantic | 3 |
| 18 | The Matrix | Action | 2 |
| 19 | Avatar | Animation | 4 |
| 20 | Pulp Fiction | Cult crime | 3 |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

5. Create table shows:

```
mysql> CREATE TABLE shows (show_id INT PRIMARY KEY AUTO_INCREMENT,movie_id INT,show_date DATE,show_time TIME,price DECIMAL(6,2),FOREIGN KEY (movie_id) REFERENCES movies(movie_id));
Query OK, 0 rows affected (0.02 sec)
```

6. Insert into shows:

```
mysql> insert into shows values
-> ('112','12','2025-02-14','12:00','250'),
-> ('113','13','2025-02-15','09:00','230'),
-> ('114','14','2025-02-13','13:00','230'),
-> ('115','15','2025-02-17','03:00','250'),
-> ('116','16','2025-02-18','11:00','240'),
-> ('117','17','2025-02-19','14:00','230'),
-> ('118','18','2025-02-20','13:00','230'),
-> ('119','19','2025-02-13','15:00','230'),
-> ('120','20','2025-02-22','10:00','280'),
-> ('121','12','2025-02-23','08:00','250'),
-> ('122','15','2025-02-24','09:00','250'),
-> ('123','18','2025-02-25','07:00','230'),
-> ('124','19','2025-02-26','09:00','230'),
-> ('125','11','2025-02-13','13:00','230');
Query OK, 14 rows affected (0.01 sec)
Records: 14  Duplicates: 0  Warnings: 0
```

```
mysql> select * from shows
-> ;
+-----+-----+-----+-----+-----+
| show_id | movie_id | show_date | show_time | price |
+-----+-----+-----+-----+-----+
| 111 | 11 | 2025-02-13 | 10:00:00 | 230.00 |
| 112 | 12 | 2025-02-14 | 12:00:00 | 250.00 |
| 113 | 13 | 2025-02-15 | 09:00:00 | 230.00 |
| 114 | 14 | 2025-02-13 | 13:00:00 | 230.00 |
| 115 | 15 | 2025-02-17 | 03:00:00 | 250.00 |
| 116 | 16 | 2025-02-18 | 11:00:00 | 240.00 |
| 117 | 17 | 2025-02-19 | 14:00:00 | 230.00 |
| 118 | 18 | 2025-02-20 | 13:00:00 | 230.00 |
| 119 | 19 | 2025-02-13 | 15:00:00 | 230.00 |
| 120 | 20 | 2025-02-22 | 10:00:00 | 280.00 |
| 121 | 12 | 2025-02-23 | 08:00:00 | 250.00 |
| 122 | 15 | 2025-02-24 | 09:00:00 | 250.00 |
| 123 | 18 | 2025-02-25 | 07:00:00 | 230.00 |
| 124 | 19 | 2025-02-26 | 09:00:00 | 230.00 |
| 125 | 11 | 2025-02-13 | 13:00:00 | 230.00 |
+-----+-----+-----+-----+
```

7. Create table seats:

```
mysql> CREATE TABLE seats (
    -> seat_id INT PRIMARY KEY AUTO_INCREMENT,
    -> seat_number VARCHAR(10)
    -> );
Query OK, 0 rows affected (0.02 sec)
```

8. Insert into seats:

```
mysql> Insert into seats values
-> ('1010','A1'),
-> ('1011','A2'),
-> ('1012','A3'),
-> ('1013','A4'),
-> ('1014','A5'),
-> ('1015','A6'),
-> ('1016','A7'),
-> ('1017','A8'),
-> ('1018','B12'),
-> ('1019','B13'),
-> ('1020','B14'),
-> ('1021','F1'),
-> ('1022','F2'),
-> ('1023','F3'),
-> ('1024','F4'),
-> ('1025','F5'),
-> ('1026','F6'),
-> ('1027','C18'),
-> ('1028','C19'),
-> ('1029','C20');
Query OK, 20 rows affected (0.01 sec)
Records: 20  Duplicates: 0  Warnings: 0
```

9. Seats:

```
mysql> Select * from seats
-> ;
+-----+-----+
| seat_id | seat_number |
+-----+-----+
| 1010   | A1      |
| 1011   | A2      |
| 1012   | A3      |
| 1013   | A4      |
| 1014   | A5      |
| 1015   | A6      |
| 1016   | A7      |
| 1017   | A8      |
| 1018   | B12     |
| 1019   | B13     |
| 1020   | B14     |
| 1021   | F1      |
| 1022   | F2      |
| 1023   | F3      |
| 1024   | F4      |
| 1025   | F5      |
| 1026   | F6      |
| 1027   | C18     |
| 1028   | C19     |
| 1029   | C20     |
+-----+-----+
20 rows in set (0.00 sec)
```

10. Create table bookings:

```
mysql> CREATE TABLE bookings (
    -> booking_id INT PRIMARY KEY AUTO_INCREMENT,
    -> user_id INT,
    -> show_id INT,
    -> seat_id INT,
    -> booking_time DATETIME,
    -> FOREIGN KEY (user_id) REFERENCES users(user_id),
    -> FOREIGN KEY (show_id) REFERENCES shows(show_id),
    -> FOREIGN KEY (seat_id) REFERENCES seats(seat_id)
    -> );
Query OK, 0 rows affected (0.04 sec)
```

11. Insert into bookings:

```
mysql> Insert into bookings values
-> ('100011','103','112','1028','2025-02-10 09:00'),
-> ('100012','104','113','1029','2025-02-14 14:00'),
-> ('100013','105','116','1021','2025-02-17 10:30'),
-> ('100014','106','117','1022','2025-02-19 12:00'),
-> ('100015','107','111','1023','2025-02-07 07:45'),
-> ('100016','108','112','1021','2025-02-13 12:00'),
-> ('100017','109','113','1022','2025-02-09 08:00'),
-> ('100018','110','115','1013','2025-02-09 08:00'),
-> ('100019','101','116','1014','2025-02-15 17:50'),
-> ('100020','109','121','1015','2025-02-20 18:00'),
-> ('100021','110','122','1018','2025-02-23 15:45'),
-> ('100022','105','113','1019','2025-02-10 18:40'),
-> ('100023','103','123','1029','2025-02-20 16:25');
Query OK, 13 rows affected (0.01 sec)
Records: 13  Duplicates: 0  Warnings: 0

mysql> select * from bookings;
+-----+-----+-----+-----+-----+
| booking_id | user_id | show_id | seat_id | booking_time |
+-----+-----+-----+-----+-----+
| 100010 | 102 | 111 | 1027 | 2025-02-12 08:00:00 |
| 100011 | 103 | 112 | 1028 | 2025-02-10 09:00:00 |
| 100012 | 104 | 113 | 1029 | 2025-02-14 14:00:00 |
| 100013 | 105 | 116 | 1021 | 2025-02-17 10:30:00 |
| 100014 | 106 | 117 | 1022 | 2025-02-19 12:00:00 |
| 100015 | 107 | 111 | 1023 | 2025-02-07 07:45:00 |
| 100016 | 108 | 112 | 1021 | 2025-02-13 12:00:00 |
| 100017 | 109 | 113 | 1022 | 2025-02-09 08:00:00 |
| 100018 | 110 | 115 | 1013 | 2025-02-09 08:00:00 |
| 100019 | 101 | 116 | 1014 | 2025-02-15 17:50:00 |
| 100020 | 109 | 121 | 1015 | 2025-02-20 18:00:00 |
| 100021 | 110 | 122 | 1018 | 2025-02-23 15:45:00 |
| 100022 | 105 | 113 | 1019 | 2025-02-10 18:40:00 |
| 100023 | 103 | 123 | 1029 | 2025-02-20 16:25:00 |
+-----+-----+-----+-----+
14 rows in set (0.00 sec)
```

12. Movies:

```
mysql> SELECT * FROM movies;
+-----+-----+-----+
| movie_id | title | genre | duration |
+-----+-----+-----+
| 11 | The Shawshank Redemption | Thriller | 2 |
| 12 | The Godfather | Action | 4 |
| 13 | The Dark Knight | Thriller | 3 |
| 14 | Inception | Thriller | 2 |
| 15 | Babys Day Out | Comedy | 2 |
| 16 | Home Alone | Comedy | 2 |
| 17 | Titanic | Romantic | 3 |
| 18 | The Matrix | Action | 2 |
| 19 | Avatar | Animation | 4 |
| 20 | Pulp Fiction | Cult crime | 3 |
+-----+-----+-----+
10 rows in set (0.01 sec)
```

13. Shows:

```
mysql> SELECT * FROM shows WHERE movie_id = 1;
Empty set (0.01 sec)
```

14. Seats:

```
mysql> SELECT seat_id, seat_number
-> FROM seats
-> WHERE seat_id NOT IN (
->   SELECT seat_id FROM bookings WHERE show_id = 1
-> );
+-----+-----+
| seat_id | seat_number |
+-----+-----+
| 1010   | A1
| 1011   | A2
| 1012   | A3
| 1013   | A4
| 1014   | A5
| 1015   | A6
| 1016   | A7
| 1017   | A8
| 1018   | B12
| 1019   | B13
| 1020   | B14
| 1021   | F1
| 1022   | F2
| 1023   | F3
| 1024   | F4
| 1025   | F5
| 1026   | F6
| 1027   | C18
| 1028   | C19
| 1029   | C20
+-----+-----+
20 rows in set (0.01 sec)
```

15. Insert into bookings:

```
mysql> INSERT INTO bookings (user_id, show_id, seat_id, booking_time)
-> VALUES ('102', '111', '1027', NOW());
Query OK, 1 row affected (0.01 sec)

mysql> select * from bookings;
+-----+-----+-----+-----+-----+
| booking_id | user_id | show_id | seat_id | booking_time |
+-----+-----+-----+-----+-----+
| 100010 | 102 | 111 | 1027 | 2025-02-12 08:00:00 |
| 100011 | 103 | 112 | 1028 | 2025-02-10 09:00:00 |
| 100012 | 104 | 113 | 1029 | 2025-02-14 14:00:00 |
| 100013 | 105 | 116 | 1021 | 2025-02-17 10:30:00 |
| 100014 | 106 | 117 | 1022 | 2025-02-19 12:00:00 |
| 100015 | 107 | 111 | 1023 | 2025-02-07 07:45:00 |
| 100016 | 108 | 112 | 1021 | 2025-02-13 12:00:00 |
| 100017 | 109 | 113 | 1022 | 2025-02-09 08:00:00 |
| 100018 | 110 | 115 | 1013 | 2025-02-09 08:00:00 |
| 100019 | 101 | 116 | 1014 | 2025-02-15 17:50:00 |
| 100020 | 109 | 121 | 1015 | 2025-02-20 18:00:00 |
| 100021 | 110 | 122 | 1018 | 2025-02-23 15:45:00 |
| 100022 | 105 | 113 | 1019 | 2025-02-10 18:40:00 |
| 100023 | 103 | 123 | 1029 | 2025-02-20 16:25:00 |
| 100025 | 102 | 111 | 1027 | 2026-02-13 18:41:33 |
+-----+-----+-----+-----+
15 rows in set (0.00 sec)
```

16. Bookings:

```
mysql> SELECT b.booking_id, m.title, s.show_date, s.show_time, st.seat_number  
-> FROM bookings b  
-> JOIN shows s ON b.show_id = s.show_id  
-> JOIN movies m ON s.movie_id = m.movie_id  
-> JOIN seats st ON b.seat_id = st.seat_id  
-> WHERE b.user_id = 1;  
Empty set (0.00 sec)
```

Movie Ticket Booking System

1. Write a query to display all users stored in the system.

```
mysql> select * from users;
+-----+-----+-----+-----+
| user_id | name   | email      | password |
+-----+-----+-----+-----+
| 101    | Smith  | Smith@gmail.com | Smith123 |
| 102    | Allen  | Allen@gmail.com | Allen123 |
| 103    | Joe    | Joe@gmail.com  | Joe123   |
| 104    | Watson | Watson@gmail.com | Watson123 |
| 105    | Mick   | Mick@gmail.com | Mick123  |
| 106    | Ron    | Ron@gmail.com  | Ron123   |
| 107    | Bob    | Bob@gmail.com  | Bob123   |
| 108    | Jack   | Jack@gmail.com | Jack123  |
| 109    | Ram    | Ram@gmail.com  | Ram123   |
| 110    | Shiva  | Shiva@gmail.com | Shiva123 |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

2. Write a query to list all movies in the movie table.

```
mysql> Select * from movies;
+-----+-----+-----+
| movie_id | title           | genre      | duration |
+-----+-----+-----+
| 11       | The Shawshank Redemption | Thriller   | 2          |
| 12       | The Godfather        | Action     | 4          |
| 13       | The Dark Knight      | Thriller   | 3          |
| 14       | Inception          | Thriller   | 2          |
| 15       | Babys Day Out       | Comedy     | 2          |
| 16       | Home Alone          | Comedy     | 2          |
| 17       | Titanic            | Romantic  | 3          |
| 18       | The Matrix          | Action     | 2          |
| 19       | Avatar              | Animation  | 4          |
| 20       | Pulp Fiction        | Cult crime | 3          |
+-----+-----+-----+
10 rows in set (0.00 sec)
```

3. Write a query to display all available shows.

```
mysql> Select * from shows;
+-----+-----+-----+-----+-----+
| show_id | movie_id | show_date | show_time | price |
+-----+-----+-----+-----+-----+
| 111    | 11       | 2025-02-13 | 10:00:00  | 230.00 |
| 112    | 12       | 2025-02-14 | 12:00:00  | 250.00 |
| 113    | 13       | 2025-02-15 | 09:00:00  | 230.00 |
| 114    | 14       | 2025-02-13 | 13:00:00  | 230.00 |
| 115    | 15       | 2025-02-17 | 03:00:00  | 250.00 |
| 116    | 16       | 2025-02-18 | 11:00:00  | 240.00 |
| 117    | 17       | 2025-02-19 | 14:00:00  | 230.00 |
| 118    | 18       | 2025-02-20 | 13:00:00  | 230.00 |
| 119    | 19       | 2025-02-13 | 15:00:00  | 230.00 |
| 120    | 20       | 2025-02-22 | 10:00:00  | 280.00 |
| 121    | 12       | 2025-02-23 | 08:00:00  | 250.00 |
| 122    | 15       | 2025-02-24 | 09:00:00  | 250.00 |
| 123    | 18       | 2025-02-25 | 07:00:00  | 230.00 |
| 124    | 19       | 2025-02-26 | 09:00:00  | 230.00 |
| 125    | 11       | 2025-02-13 | 13:00:00  | 230.00 |
+-----+-----+-----+-----+
15 rows in set (0.00 sec)
```

4. Write a query to fetch details of a movie using its movie_id.

```

mysql> select * from movies where movie_id in('11', '19');
+-----+-----+-----+
| movie_id | title | genre | duration |
+-----+-----+-----+
| 11 | The Shawshank Redemption | Thriller | 2 |
| 19 | Avatar | Animation | 4 |
+-----+-----+-----+
2 rows in set (0.00 sec)

```

5. Write a query to list all shows of a particular movie.

```

mysql> Select * from shows inner join movies on (shows.movie_id = movies.movie_id) where title = 'The Godfather'
-> ;
+-----+-----+-----+-----+-----+-----+-----+
| show_id | movie_id | show_date | show_time | price | movie_id | title | genre | duration |
+-----+-----+-----+-----+-----+-----+-----+
| 112 | 12 | 2025-02-14 | 12:00:00 | 250.00 | 12 | The Godfather | Action | 4 |
| 121 | 12 | 2025-02-23 | 08:00:00 | 250.00 | 12 | The Godfather | Action | 4 |
+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

6. Write a query to list all seat numbers from the seats table.

```

mysql> select seat_number from seats;
+-----+
| seat_number |
+-----+
| A1 |
| A2 |
| A3 |
| A4 |
| A5 |
| A6 |
| A7 |
| A8 |
| B12 |
| B13 |
| B14 |
| F1 |
| F2 |
| F3 |
| F4 |
| F5 |
| F6 |
| C18 |
| C19 |
| C20 |
+-----+
20 rows in set (0.00 sec)

mysql> select * from seats;
+-----+-----+
| seat_id | seat_number |
+-----+-----+
| 1010 | A1 |
| 1011 | A2 |
| 1012 | A3 |
| 1013 | A4 |
| 1014 | A5 |
| 1015 | A6 |
| 1016 | A7 |
| 1017 | A8 |
| 1018 | B12 |
| 1019 | B13 |
| 1020 | B14 |
| 1021 | F1 |
| 1022 | F2 |
| 1023 | F3 |
| 1024 | F4 |
| 1025 | F5 |
| 1026 | F6 |
| 1027 | C18 |
| 1028 | C19 |
| 1029 | C20 |
+-----+-----+
20 rows in set (0.00 sec)

```

7. Write a query to find available seats for a specific show.

```
mysql> Select seat_id from bookings where show_id in('1010', '1028');
Empty set (0.00 sec)
```

8. Write a query to display all booked seats for a specific show.

```
mysql> Select movies.title ,
-> bookings.booking_time,
-> seat_number,
-> show_date ,
-> show_time
-> from bookings
-> inner join seats on(seats.seat_id=bookings.seat_id)
-> inner join shows on (shows.show_id=bookings.show_id)
-> inner join movies on (shows.movie_id = movies.movie_id)
-> where movies.title = 'The Shawshank Redemption';
+-----+-----+-----+-----+
| title | booking_time | seat_number | show_date | show_time |
+-----+-----+-----+-----+
| The Shawshank Redemption | 2025-02-12 08:00:00 | C18 | 2025-02-13 | 10:00:00 |
| The Shawshank Redemption | 2025-02-07 07:45:00 | F3 | 2025-02-13 | 10:00:00 |
| The Shawshank Redemption | 2026-02-13 18:41:33 | C18 | 2025-02-13 | 10:00:00 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

9. Write a query to insert a new user into the users table.

```
mysql> insert into users(user_id, name, email, password)
-> values('111', 'Virat', 'Virat@gmail.com', 'Virat123');
Query OK, 1 row affected (0.02 sec)

mysql> select * from users;
+-----+-----+-----+-----+
| user_id | name | email | password |
+-----+-----+-----+-----+
| 101 | Smith | Smith@gmail.com | Smith123 |
| 102 | Allen | Allen@gmail.com | Allen123 |
| 103 | Joe | Joe@gmail.com | Joe123 |
| 104 | Watson | Watson@gmail.com | Watson123 |
| 105 | Mick | Mick@gmail.com | Mick123 |
| 106 | Ron | Ron@gmail.com | Ron123 |
| 107 | Bob | Bob@gmail.com | Bob123 |
| 108 | Jack | Jack@gmail.com | Jack123 |
| 109 | Ram | Ram@gmail.com | Ram123 |
| 110 | Shiva | Shiva@gmail.com | Shiva123 |
| 111 | Virat | Virat@gmail.com | Virat123 |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

10. Write a query to insert a new movie into the movies table.

```
mysql> insert into movies(movie_id, title, genre, duration) values ('21', 'Josh', 'Action', '3');
Query OK, 1 row affected (0.02 sec)

mysql> select * from movies;
+-----+-----+-----+-----+
| movie_id | title | genre | duration |
+-----+-----+-----+-----+
| 11 | The Shawshank Redemption | Thriller | 2 |
| 12 | The Godfather | Action | 4 |
| 13 | The Dark Knight | Thriller | 3 |
| 14 | Inception | Thriller | 2 |
| 15 | Babys Day Out | Comedy | 2 |
| 16 | Home Alone | Comedy | 2 |
| 17 | Titanic | Romantic | 3 |
| 18 | The Matrix | Action | 2 |
| 19 | Avatar | Animation | 4 |
| 20 | Pulp Fiction | Cult crime | 3 |
| 21 | Josh | Action | 3 |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

11. Write a query to insert a new show into the shows table.

```
mysql> insert into shows (show_id,movie_id,show_date,show_time,price) values('128','19','2026-02-18','09:00','250');
Query OK, 1 row affected (0.01 sec)

mysql> COMMIT;
Query OK, 0 rows affected (0.00 sec)

mysql> select * from shows;
+-----+-----+-----+-----+-----+
| show_id | movie_id | show_date | show_time | price |
+-----+-----+-----+-----+-----+
|    111 |      11 | 2025-02-13 | 10:00:00 | 230.00 |
|    112 |      12 | 2025-02-14 | 12:00:00 | 250.00 |
|    113 |      13 | 2025-02-15 | 09:00:00 | 230.00 |
|    114 |      14 | 2025-02-13 | 13:00:00 | 230.00 |
|    115 |      15 | 2025-02-17 | 03:00:00 | 250.00 |
|    116 |      16 | 2025-02-18 | 11:00:00 | 240.00 |
|    117 |      17 | 2025-02-19 | 14:00:00 | 230.00 |
|    118 |      18 | 2025-02-20 | 13:00:00 | 230.00 |
|    119 |      19 | 2025-02-13 | 15:00:00 | 230.00 |
|    120 |      20 | 2025-02-22 | 10:00:00 | 280.00 |
|    121 |      12 | 2025-02-23 | 08:00:00 | 250.00 |
|    122 |      15 | 2025-02-24 | 09:00:00 | 250.00 |
|    123 |      18 | 2025-02-25 | 07:00:00 | 230.00 |
|    124 |      19 | 2025-02-26 | 09:00:00 | 230.00 |
|    125 |      11 | 2025-02-13 | 13:00:00 | 230.00 |
|    126 |      18 | 2026-02-15 | 09:00:00 | 250.00 |
|    128 |      19 | 2026-02-18 | 09:00:00 | 250.00 |
|    129 |      20 | 2026-02-17 | 09:00:00 | 250.00 |
|    130 |      18 | 2026-02-19 | 09:00:00 | 250.00 |
|    131 |      20 | 2026-02-20 | 09:00:00 | 250.00 |
+-----+-----+-----+-----+-----+
20 rows in set (0.00 sec)
```

12. Write a query to add a new seat to the seats table.

```
mysql> select * from seats;
+-----+-----+
| seat_id | seat_number |
+-----+-----+
| 1010 | A1 |
| 1011 | A2 |
| 1012 | A3 |
| 1013 | A4 |
| 1014 | A5 |
| 1015 | A6 |
| 1016 | A7 |
| 1017 | A8 |
| 1018 | B12 |
| 1019 | B13 |
| 1020 | B14 |
| 1021 | D9 |
| 1022 | F2 |
| 1023 | F3 |
| 1024 | F4 |
| 1025 | F5 |
| 1026 | F6 |
| 1027 | C18 |
| 1028 | C19 |
| 1029 | C20 |
+-----+-----+
20 rows in set (0.00 sec)

mysql> insert into seats (seat_id, seat_number) values ( '1031', 'F20');
Query OK, 1 row affected (0.01 sec)

mysql> select * from seats;
+-----+-----+
| seat_id | seat_number |
+-----+-----+
| 1010 | A1 |
| 1011 | A2 |
| 1012 | A3 |
| 1013 | A4 |
| 1014 | A5 |
| 1015 | A6 |
| 1016 | A7 |
| 1017 | A8 |
| 1018 | B12 |
| 1019 | B13 |
| 1020 | B14 |
| 1021 | D9 |
| 1022 | F2 |
| 1023 | F3 |
| 1024 | F4 |
| 1025 | F5 |
| 1026 | F6 |
| 1027 | C18 |
| 1028 | C19 |
| 1029 | C20 |
| 1031 | F20 |
+-----+-----+
21 rows in set (0.00 sec)
```

13. Write a query to book a ticket for a user.

```

mysql> insert into bookings ( booking_id, user_id, show_id, seat_id, booking_time) values('100026', '111', '113', '1029', '2025-02-25');
Query OK, 1 row affected (0.01 sec)

mysql> select * from bookings;
+-----+-----+-----+-----+-----+
| booking_id | user_id | show_id | seat_id | booking_time |
+-----+-----+-----+-----+-----+
| 100010 | 102 | 111 | 1027 | 2025-02-12 08:00:00 |
| 100011 | 103 | 112 | 1028 | 2025-02-10 09:00:00 |
| 100012 | 104 | 113 | 1029 | 2025-02-14 14:00:00 |
| 100013 | 105 | 116 | 1021 | 2025-02-17 10:30:00 |
| 100014 | 106 | 117 | 1022 | 2025-02-19 12:00:00 |
| 100015 | 107 | 111 | 1023 | 2025-02-07 07:45:00 |
| 100016 | 108 | 112 | 1021 | 2025-02-13 12:00:00 |
| 100017 | 109 | 113 | 1022 | 2025-02-09 08:00:00 |
| 100018 | 110 | 115 | 1013 | 2025-02-09 08:00:00 |
| 100019 | 101 | 116 | 1014 | 2025-02-15 17:50:00 |
| 100020 | 109 | 121 | 1015 | 2025-02-20 18:00:00 |
| 100021 | 110 | 122 | 1018 | 2025-02-23 15:45:00 |
| 100022 | 105 | 113 | 1019 | 2025-02-10 18:40:00 |
| 100023 | 103 | 123 | 1029 | 2025-02-20 16:25:00 |
| 100025 | 102 | 111 | 1027 | 2026-02-13 18:41:33 |
| 100026 | 111 | 113 | 1029 | 2025-02-25 00:00:00 |
+-----+-----+-----+-----+-----+
16 rows in set (0.00 sec)

```

14. Write a query to display all bookings.

```
mysql> select * from bookings;
+-----+-----+-----+-----+-----+
| booking_id | user_id | show_id | seat_id | booking_time |
+-----+-----+-----+-----+-----+
| 100010 | 102 | 111 | 1027 | 2025-02-12 08:00:00 |
| 100011 | 103 | 112 | 1028 | 2025-02-10 09:00:00 |
| 100012 | 104 | 113 | 1029 | 2025-02-14 14:00:00 |
| 100013 | 105 | 116 | 1021 | 2025-02-17 10:30:00 |
| 100014 | 106 | 117 | 1022 | 2025-02-19 12:00:00 |
| 100015 | 107 | 111 | 1023 | 2025-02-07 07:45:00 |
| 100016 | 108 | 112 | 1021 | 2025-02-13 12:00:00 |
| 100017 | 109 | 113 | 1022 | 2025-02-09 08:00:00 |
| 100018 | 110 | 115 | 1013 | 2025-02-09 08:00:00 |
| 100019 | 101 | 116 | 1014 | 2025-02-15 17:50:00 |
| 100020 | 109 | 121 | 1015 | 2025-02-20 18:00:00 |
| 100021 | 110 | 122 | 1018 | 2025-02-23 15:45:00 |
| 100022 | 105 | 113 | 1019 | 2025-02-10 18:40:00 |
| 100023 | 103 | 123 | 1029 | 2025-02-20 16:25:00 |
| 100025 | 102 | 111 | 1027 | 2026-02-13 18:41:33 |
| 100026 | 111 | 113 | 1029 | 2025-02-25 00:00:00 |
+-----+-----+-----+-----+-----+
16 rows in set (0.00 sec)
```

15. Write a query to display booking history for a specific user.

```
mysql> select * from bookings inner join users on bookings.user_id=users.user_id where name='Joe';
+-----+-----+-----+-----+-----+-----+-----+-----+
| booking_id | user_id | show_id | seat_id | booking_time | user_id | name | email | password |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 100011 | 103 | 112 | 1028 | 2025-02-10 09:00:00 | 103 | Joe | Joe@gmail.com | Joe123 |
| 100023 | 103 | 123 | 1029 | 2025-02-20 16:25:00 | 103 | Joe | Joe@gmail.com | Joe123 |
+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

16. Write a query to count total bookings for a specific show.

17. Write a query to count total bookings for a specific movie.

```
mysql> select title, count(booking_id) as total_bookings from bookings
    -> inner join shows on (bookings.show_id=shows.show_id)
    -> inner join movies on(movies.movie_id=shows.movie_id)
    -> where title='The Shawshank Redemption' group by title;
+-----+-----+
| title | total_bookings |
+-----+-----+
| The Shawshank Redemption | 3 |
+-----+
1 row in set (0.00 sec)
```

18. Write a query to find all movies of a specific genre.

```
mysql> select * from movies where genre='Thriller';
+-----+-----+-----+-----+
| movie_id | title | genre | duration |
+-----+-----+-----+-----+
| 11 | The Shawshank Redemption | Thriller | 2 |
| 13 | The Dark Knight | Thriller | 3 |
| 14 | Inception | Thriller | 2 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

19. Write a query to update the duration of a movie.

```
mysql> update movies set duration='3' where title='The Shawshank Redemption';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from movies;
+-----+-----+-----+-----+
| movie_id | title | genre | duration |
+-----+-----+-----+-----+
| 11 | The Shawshank Redemption | Thriller | 3 |
| 12 | The Godfather | Action | 4 |
| 13 | The Dark Knight | Thriller | 3 |
| 14 | Inception | Thriller | 2 |
| 15 | Babys Day Out | Comedy | 2 |
| 16 | Home Alone | Comedy | 2 |
| 17 | Titanic | Romantic | 3 |
| 18 | The Matrix | Action | 2 |
| 19 | Avatar | Animation | 4 |
| 20 | Pulp Fiction | Cult crime | 3 |
| 21 | Josh | Action | 3 |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

20. Write a query to update the seat number for a given seat_id.

```
mysql> select * from seats;
+-----+-----+
| seat_id | seat_number |
+-----+-----+
| 1010 | A1 |
| 1011 | A2 |
| 1012 | A3 |
| 1013 | A4 |
| 1014 | A5 |
| 1015 | A6 |
| 1016 | A7 |
| 1017 | A8 |
| 1018 | B12 |
| 1019 | B13 |
| 1020 | B14 |
| 1021 | F1 |
| 1022 | F2 |
| 1023 | F3 |
| 1024 | F4 |
| 1025 | F5 |
| 1026 | F6 |
| 1027 | C18 |
| 1028 | C19 |
| 1029 | C20 |
+-----+-----+
20 rows in set (0.00 sec)

mysql> update seats set seat_number='D9' where seat_id='1021';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from seats;
+-----+-----+
| seat_id | seat_number |
+-----+-----+
| 1010 | A1 |
| 1011 | A2 |
| 1012 | A3 |
| 1013 | A4 |
| 1014 | A5 |
| 1015 | A6 |
| 1016 | A7 |
| 1017 | A8 |
| 1018 | B12 |
| 1019 | B13 |
| 1020 | B14 |
| 1021 | D9 |
| 1022 | F2 |
| 1023 | F3 |
| 1024 | F4 |
| 1025 | F5 |
| 1026 | F6 |
| 1027 | C18 |
| 1028 | C19 |
| 1029 | C20 |
+-----+-----+
20 rows in set (0.00 sec)
```

21. Write a query to delete a specific booking record.

```
mysql> select * from bookings;
+-----+-----+-----+-----+-----+
| booking_id | user_id | show_id | seat_id | booking_time |
+-----+-----+-----+-----+-----+
| 100010 | 102 | 111 | 1027 | 2025-02-12 08:00:00 |
| 100011 | 101 | 111 | 1028 | 2025-02-10 09:00:00 |
| 100012 | 104 | 113 | 1029 | 2025-02-18 14:00:00 |
| 100013 | 105 | 116 | 1021 | 2025-02-17 10:30:00 |
| 100014 | 106 | 117 | 1022 | 2025-02-19 12:00:00 |
| 100015 | 107 | 111 | 1028 | 2025-02-19 07:45:00 |
| 100016 | 108 | 112 | 1021 | 2025-02-13 08:00:00 |
| 100017 | 109 | 113 | 1022 | 2025-02-09 08:00:00 |
| 100018 | 110 | 115 | 1013 | 2025-02-09 08:00:00 |
| 100019 | 101 | 116 | 1014 | 2025-02-15 17:00:00 |
| 100020 | 103 | 121 | 1028 | 2025-02-10 09:00:00 |
| 100021 | 110 | 122 | 1018 | 2025-02-23 15:45:00 |
| 100022 | 105 | 113 | 1019 | 2025-02-16 18:40:00 |
| 100023 | 103 | 123 | 1029 | 2025-02-20 16:25:00 |
| 100024 | 107 | 111 | 1027 | 2026-02-13 18:41:33 |
| 100025 | 109 | 113 | 1029 | 2025-02-25 00:00:00 |
| 100026 | 111 | 113 | 1029 | 2025-02-25 00:00:00 |
+-----+-----+-----+-----+-----+
16 rows in set (0.00 sec)

mysql> delete bookings where booking_id=100020;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'where booking_id=100020' at line 1
mysql> delete bookings where booking_id='100020';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'where booking_id='100020'' at line 1
Query OK, 1 row affected (0.01 sec)

mysql> select * from bookings;
+-----+-----+-----+-----+-----+
| booking_id | user_id | show_id | seat_id | booking_time |
+-----+-----+-----+-----+-----+
| 100010 | 102 | 111 | 1027 | 2025-02-12 08:00:00 |
| 100011 | 103 | 112 | 1028 | 2025-02-10 09:00:00 |
| 100012 | 104 | 113 | 1029 | 2025-02-18 14:00:00 |
| 100013 | 105 | 116 | 1021 | 2025-02-17 10:30:00 |
| 100014 | 106 | 117 | 1022 | 2025-02-19 12:00:00 |
| 100015 | 107 | 111 | 1023 | 2025-02-07 07:45:00 |
| 100016 | 108 | 112 | 1022 | 2025-02-09 08:00:00 |
| 100017 | 109 | 113 | 1022 | 2025-02-09 08:00:00 |
| 100018 | 110 | 115 | 1013 | 2025-02-09 08:00:00 |
| 100019 | 101 | 116 | 1014 | 2025-02-15 17:00:00 |
| 100021 | 105 | 122 | 1019 | 2025-02-18 10:40:00 |
| 100022 | 105 | 113 | 1019 | 2025-02-18 10:40:00 |
| 100023 | 103 | 123 | 1029 | 2025-02-20 16:25:00 |
| 100025 | 102 | 111 | 1027 | 2026-02-13 18:41:33 |
| 100026 | 111 | 113 | 1029 | 2025-02-25 00:00:00 |
+-----+-----+-----+-----+-----+
15 rows in set (0.00 sec)
```

22. Write a query to delete a movie from the movies table.

```
mysql> delete from movies where title='Josh';
Query OK, 1 row affected (0.01 sec)

mysql> select * from movies;
+-----+-----+-----+
| movie_id | title | genre | duration |
+-----+-----+-----+
| 11 | The Shawshank Redemption | Thriller | 3 |
| 12 | The Godfather | Action | 4 |
| 13 | The Dark Knight | Thriller | 3 |
| 14 | Inception | Thriller | 2 |
| 15 | Babys Day Out | Comedy | 2 |
| 16 | Home Alone | Comedy | 2 |
| 17 | Titanic | Romantic | 3 |
| 18 | The Matrix | Action | 2 |
| 19 | Avatar | Animation | 4 |
| 20 | Pulp Fiction | Cult crime | 3 |
+-----+-----+-----+
10 rows in set (0.00 sec)
```

23. Write a query to list movies longer than 2 hours.

```
mysql> select * from movies;
+-----+-----+-----+
| movie_id | title | genre | duration |
+-----+-----+-----+
| 11 | The Shawshank Redemption | Thriller | 3 |
| 12 | The Godfather | Action | 4 |
| 13 | The Dark Knight | Thriller | 3 |
| 14 | Inception | Thriller | 2 |
| 15 | Babys Day Out | Comedy | 2 |
| 16 | Home Alone | Comedy | 2 |
| 17 | Titanic | Romantic | 3 |
| 18 | The Matrix | Action | 2 |
| 19 | Avatar | Animation | 4 |
| 20 | Pulp Fiction | Cult crime | 3 |
+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> select * from movies where duration>2;
+-----+-----+-----+
| movie_id | title | genre | duration |
+-----+-----+-----+
| 11 | The Shawshank Redemption | Thriller | 3 |
| 12 | The Godfather | Action | 4 |
| 13 | The Dark Knight | Thriller | 3 |
| 17 | Titanic | Romantic | 3 |
| 19 | Avatar | Animation | 4 |
| 20 | Pulp Fiction | Cult crime | 3 |
+-----+-----+-----+
6 rows in set (0.00 sec)
```

24. Write a query to find shows scheduled for today's date.

```
mysql> select * from shows where show_date = curdate();
+-----+-----+-----+-----+
| show_id | movie_id | show_date | show_time | price |
+-----+-----+-----+-----+
|    126 |      18 | 2026-02-15 | 09:00:00 | 250.00 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> |
```

25. Write a query to list upcoming shows sorted by date and time

```
mysql> select * from shows where show_date > curdate() order by show_date, show_time ;
+-----+-----+-----+-----+
| show_id | movie_id | show_date | show_time | price |
+-----+-----+-----+-----+
|    129 |      20 | 2026-02-17 | 09:00:00 | 250.00 |
|    128 |      19 | 2026-02-18 | 09:00:00 | 250.00 |
|    130 |      18 | 2026-02-19 | 09:00:00 | 250.00 |
|    131 |      20 | 2026-02-20 | 09:00:00 | 250.00 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> |
```