

Table Creation

1. Create database & table:

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

mysql> use tckt_booking;
Database changed
mysql> create table 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
REATE 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.

```
mysql> select * from bookings inner join shows on (bookings.show_id=shows.show_id) inner join movies on(movies.movie_id=shows.movie_id) where title='Avatar';
Empty set (0.00 sec)

mysql> select * from bookings inner join shows on (bookings.show_id=shows.show_id) inner join movies on(movies.movie_id=shows.movie_id) where title='Titanic';
```

booking_id	user_id	show_id	seat_id	booking_time	show_id	movie_id	show_date	show_time	price	movie_id	title	genre	duration
100014	106	117	1022	2025-02-19 12:00:00	117	17	2025-02-19	14:00:00	230.00	17	Titanic	Romantic	3

```
1 row in set (0.00 sec)
```

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    | 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 13:00:00 |
| 100021    | 110     | 122     | 1018    | 2025-02-23 15:45:00 |
| 100022    | 105     | 113     | 1019    | 2025-02-10 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 |
+-----+-----+-----+-----+-----+
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
mysql> delete from bookings where booking_id='100020';
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 |
| 100021    | 110     | 122     | 1018    | 2025-02-23 15:45:00 |
| 100022    | 105     | 113     | 1019    | 2025-02-10 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> |
```