

SQL QUERIES

2. Enter a city name and retrieve all the movies that are released within that particular city.

The following shows the movies released within the particular city Dallas.

```
SQL 1 x
1  SELECT DISTINCT MOVIES.Movie_title
2  FROM MOVIES, CITY, CINEMA, SCREENING
3  WHERE CITY.City_id = CINEMA.City_id AND
4         CINEMA.Cinema_id = SCREENING.Cinema_id AND
5         SCREENING.Movie_id = MOVIES.Movie_id AND
6         CITY.City_name = "'Dallas'";
```

	Movie_title
1	'The Shawshank Redemption'
2	'The Wizard of Oz'
3	'Vertigo'
4	'Forrest Gump'
5	'Gladiator'

```
Execution finished without errors.
Result: 5 rows returned in 5ms
At line 1:
SELECT DISTINCT MOVIES.Movie_title
FROM MOVIES, CITY, CINEMA, SCREENING
WHERE CITY.City_id = CINEMA.City_id AND
      CINEMA.Cinema_id = SCREENING.Cinema_id AND
      SCREENING.Movie_id = MOVIES.Movie_id AND
      CITY.City_name = "'Dallas'";
```

3. List all cinemas that are showing a particular movie.

The following shows all the cinemas that are showing the particular movie Vertigo.

SQL 1

```
1 SELECT DISTINCT CINEMA.Cinema_name, MOVIES.Movie_title
2 FROM CINEMA, SCREENING, MOVIES
3 WHERE CINEMA.Cinema_id = SCREENING.Cinema_id AND
4       SCREENING.Movie_id = MOVIES.Movie_id AND
5       MOVIES.Movie_title = "'Vertigo'";
```

	Cinema_name	Movie_title
1	'Cinemaprism'	'Vertigo'

Execution finished without errors.
Result: 1 rows returned in 6ms
At line 1:
SELECT DISTINCT CINEMA.Cinema_name, MOVIES.Movie_title
FROM CINEMA, SCREENING, MOVIES
WHERE CINEMA.Cinema_id = SCREENING.Cinema_id AND
 SCREENING.Movie_id = MOVIES.Movie_id AND
 MOVIES.Movie_title = "'Vertigo'";

4. List the seats that are booked in all cinemas for a particular movie.

The following shows the seats that are booked for all cinemas for the particular movie Forrest Gump. Seats 1 and 3 are booked in all cinemas for the movie Forrest Gump.

SQL 1

```
1 SELECT BOOKTICKET.SeatNum
2 FROM BOOKTICKET, MOVIES
3 WHERE MOVIES.Movie_id = BOOKTICKET.Movie_id AND
4      MOVIES.Movie_title = 'Forrest Gump';
```

	SeatNum
1	1
2	1
3	1
4	3
5	3
6	3

Execution finished without errors.

Result: 6 rows returned in 4ms

At line 1:

```
SELECT BOOKTICKET.SeatNum
FROM BOOKTICKET, MOVIES
WHERE MOVIES.Movie_id = BOOKTICKET.Movie_id AND
      MOVIES.Movie_title = 'Forrest Gump';
```

5. Given a specific cinema and movie list the showing times for that movie.

The following shows the showing time/screen time for the specific cinema Fuze Cinema and the specific movie Gladiator.

SQL 1

```
1 SELECT SCREENING.Screen_time
2 FROM SCREENING, MOVIES, CINEMA
3 WHERE SCREENING.Cinema_id = CINEMA.Cinema_id AND
4        SCREENING.Movie_id = MOVIES.Movie_id AND
5        CINEMA.Cinema_name = "Fuze Cinema" AND
6        MOVIES.Movie_title = "Gladiator";
```

Screen_time

1 '4 pm - 6 pm'

Execution finished without errors.
Result: 1 rows returned in 5ms
At line 1:
SELECT SCREENING.Screen_time
FROM SCREENING, MOVIES, CINEMA
WHERE SCREENING.Cinema_id = CINEMA.Cinema_id AND
 SCREENING.Movie_id = MOVIES.Movie_id AND
 CINEMA.Cinema_name = "Fuze Cinema" AND
 MOVIES.Movie_title = "Gladiator";

6. Given a movie and session time how many seats are available.

The following shows the seats available for the movie Vertigo of session/screen time 4 pm – 6 pm. There are 2 seats available for the movie Vertigo at screen time 4 pm – 6pm.

SQL 1

```
1 SELECT BOOKTICKET.BT_ID, BOOKTICKET.SeatNum
2 FROM BOOKTICKET, SCREENING, MOVIES
3 WHERE BOOKTICKET.Movie_id = SCREENING.Movie_id AND
4       SCREENING.Movie_id = MOVIES.Movie_id AND
5       BOOKTICKET.Screen_id = SCREENING.Screen_id AND
6       MOVIES.Movie_title = "'Vertigo'" AND
7       SCREENING.Screen_time = "'4 pm - 6 pm'";
```

	BT_ID	SeatNum
1	5	1
2	19	3

Execution finished without errors.
Result: 2 rows returned in 4ms
At line 1:
SELECT BOOKTICKET.BT_ID, BOOKTICKET.SeatNum
FROM BOOKTICKET, SCREENING, MOVIES
WHERE BOOKTICKET.Movie_id = SCREENING.Movie_id AND
 SCREENING.Movie_id = MOVIES.Movie_id AND
 BOOKTICKET.Screen_id = SCREENING.Screen_id AND
 MOVIES.Movie_title = "'Vertigo'" AND
 SCREENING.Screen_time = "'4 pm - 6 pm'";

7. Given a reservation# list the cinema, movie session, and time where seats were booked.

The following shows the cinema, movie, time, and seat number for the reservation number i.e BT_ID 21.

SQL 1

```
1
2 SELECT CINEMA.Cinema_name, MOVIES.Movie_title, SCREENING.Screen_time, MOVIES.Movie_Duration, BOOKTICKET.SeatNum
3 FROM CINEMA, MOVIES, SCREENING, BOOKTICKET
4 WHERE BOOKTICKET.Cinema_id = CINEMA.Cinema_id AND
5       BOOKTICKET.Movie_id = MOVIES.Movie_id AND
6       BOOKTICKET.Screen_id = SCREENING.Screen_id AND
7       SCREENING.Movie_id = MOVIES.Movie_id AND
8       SCREENING.Cinema_id = CINEMA.Cinema_id AND
9       BOOKTICKET.BT_ID = 21;
```

	Cinema_name	Movie_title	Screen_time	Movie_Duration	SeatNum
1	'Cinemaprism'	'Forrest Gump'	'4 pm - 6 pm'	142	3

Execution finished without errors.

Result: 1 rows returned in 6ms

At line 2:

```
SELECT CINEMA.Cinema_name, MOVIES.Movie_title, SCREENING.Screen_time, MOVIES.Movie_Duration, BOOKTICKET.SeatNum
FROM CINEMA, MOVIES, SCREENING, BOOKTICKET
WHERE BOOKTICKET.Cinema_id = CINEMA.Cinema_id AND
      BOOKTICKET.Movie_id = MOVIES.Movie_id AND
      BOOKTICKET.Screen_id = SCREENING.Screen_id AND
      SCREENING.Movie_id = MOVIES.Movie_id AND
      SCREENING.Cinema_id = CINEMA.Cinema_id AND
      BOOKTICKET.BT_ID = 21;
```

8. List the movies with their corresponding time, city, and cinema name.

The following lists the movies with time, city, and cinema names.

SQL 1

```
1
2 SELECT MOVIES.Movie_title, SCREENING.Screen_time, MOVIES.Movie_Duration, CITY.City_name, CINEMA.Cinema_name
3 FROM MOVIES, SCREENING, CITY, CINEMA
4 WHERE MOVIES.Movie_id = SCREENING.Movie_id AND
5        SCREENING.Cinema_id = CINEMA.Cinema_id AND
6        CINEMA.City_id = CITY.City_id;
```

	Movie_title	Screen_time	Movie_Duration	City_name	Cinema_name
1	Movie_title	Screen_time	Movie Duration	City_name	Cinema_name
2	'The Shawshank Redemption'	'12 pm - 2 pm'	142	'Dallas'	'Cinemaprism'
3	'The Shawshank Redemption'	'2 pm - 4 pm'	142	'Fort Worth'	'Cinemaque'
4	'The Wizard of Oz'	'2 pm - 4 pm'	102	'Arlington'	'Fuze Cinema'
5	'The Wizard of Oz'	'12 pm - 2 pm'	102	'Dallas'	'Crowd Cinema'
6	'Vertigo'	'4 pm - 6 pm'	128	'Dallas'	'Cinemaprism'
7	'Forrest Gump'	'2 pm - 4 pm'	142	'Dallas'	'Cinemaprism'
8	'Forrest Gump'	'4 pm - 6 pm'	142	'Dallas'	'Cinemaprism'
9	'Forrest Gump'	'12 pm - 2 pm'	142	'Fort Worth'	'Cinemaque'
10	'The Sound of Music'	'2 pm - 4 pm'	172	'Fort Worth'	'Cinemaque'
11	'The Sound of Music'	'2 pm - 4 pm'	172	'Arlington'	'Fuze Cinema'

Execution finished without errors.
Result: 15 rows returned in 7ms
At line 2:
SELECT MOVIES.Movie_title, SCREENING.Screen_time, MOVIES.Movie_Duration, CITY.City_name, CINEMA.Cinema_name
FROM MOVIES, SCREENING, CITY, CINEMA
WHERE MOVIES.Movie_id = SCREENING.Movie_id AND
SCREENING.Cinema_id = CINEMA.Cinema_id AND
CINEMA.City_id = CITY.City_id;

Movie_title	Screen_time	Movie_Duration	City_name	Cinema_name
Movie_title	Screen_time	Movie Duration	City_name	Cinema_name
'The Shawshank Redemption'	'12 pm - 2 pm'	142	'Dallas'	'Cinemaprism'
'The Shawshank Redemption'	'2 pm - 4 pm'	142	'Fort Worth'	'Cinemaque'
'The Wizard of Oz'	'2 pm - 4 pm'	102	'Arlington'	'Fuze Cinema'
'The Wizard of Oz'	'12 pm - 2 pm'	102	'Dallas'	'Crowd Cinema'
'Vertigo'	'4 pm - 6 pm'	128	'Dallas'	'Cinemaprism'
'Forrest Gump'	'2 pm - 4 pm'	142	'Dallas'	'Cinemaprism'
'Forrest Gump'	'4 pm - 6 pm'	142	'Dallas'	'Cinemaprism'
'Forrest Gump'	'12 pm - 2 pm'	142	'Fort Worth'	'Cinemaque'
'The Sound of Music'	'2 pm - 4 pm'	172	'Fort Worth'	'Cinemaque'
'The Sound of Music'	'2 pm - 4 pm'	172	'Arlington'	'Fuze Cinema'
'Gladiator'	'4 pm - 6 pm'	155	'Arlington'	'Fuze Cinema'
'Gladiator'	'2 pm - 4 pm'	155	'Dallas'	'Crowd Cinema'
'Gladiator'	'2 pm - 4 pm'	155	'Dallas'	'Crowd Cinema'
'Gladiator'	'12 pm - 2 pm'	155	'Dallas'	'Cinemaprism'

9. Given a session time list movie title and session times that do not have any seats available.

The following shows the movie title and session times that do not have any seats available for the session time of 2 pm – 4 pm.

SQL 1

```
1 SELECT BOOKTICKET.BT_ID, MOVIES.Movie_title, SCREENING.Screen_time, MOVIES.Movie_Duration
2 FROM BOOKTICKET, SCREENING, MOVIES, CINEMA
3 WHERE BOOKTICKET.Movie_id = SCREENING.Movie_id AND
4       SCREENING.Movie_id = MOVIES.Movie_id AND
5       BOOKTICKET.Screen_id = SCREENING.Screen_id AND
6       BOOKTICKET.Cinema_id = SCREENING.Cinema_id AND
7       SCREENING.Cinema_id = CINEMA.Cinema_id AND
8       SCREENING.Screen_time = '2 pm - 4 pm';
```

	BT_ID	Movie_title	Screen_time	Movie_Duration
1	2	'The Shawshank Redemption'	'2 pm - 4 pm'	142
2	3	'The Wizard of Oz'	'2 pm - 4 pm'	102
3	6	'Forrest Gump'	'2 pm - 4 pm'	142
4	9	'The Sound of Music'	'2 pm - 4 pm'	172
5	10	'The Sound of Music'	'2 pm - 4 pm'	172
6	12	'Gladiator'	'2 pm - 4 pm'	155
7	13	'Gladiator'	'2 pm - 4 pm'	155
8	16	'The Shawshank Redemption'	'2 pm - 4 pm'	142
9	17	'The Wizard of Oz'	'2 pm - 4 pm'	102
10	20	'Forrest Gump'	'2 pm - 4 pm'	142
11	23	'The Sound of Music'	'2 pm - 4 pm'	172
12	24	'The Sound of Music'	'2 pm - 4 pm'	172
13	26	'Gladiator'	'2 pm - 4 pm'	155
14	27	'Gladiator'	'2 pm - 4 pm'	155

Execution finished without errors.
Result: 14 rows returned in 8ms
At line 1:
SELECT BOOKTICKET.BT_ID, MOVIES.Movie_title, SCREENING.Screen_time, MOVIES.Movie_Duration
FROM BOOKTICKET, SCREENING, MOVIES, CINEMA
WHERE BOOKTICKET.Movie_id = SCREENING.Movie_id AND
SCREENING.Movie_id = MOVIES.Movie_id AND