

Ticket Booking System

Task-1:

1) Database Design:

Create the database named "TicketBookingSystem"

```
mysql> create database TicketBookingSystem;  
Query OK, 1 row affected (1.92 sec)
```

2)Creating venue table

```
mysql> create table venue(  
-> venue_id int primary key,  
-> venue_name varchar(30),  
-> address varchar(50)  
-> );  
Query OK, 0 rows affected (4.46 sec)
```

Field	Type	Null	Key	Default	Extra
venue_id	int	NO	PRI	NULL	
venue_name	varchar(30)	YES		NULL	
address	varchar(50)	YES		NULL	

3 rows in set (0.92 sec)

Creating event table

```
mysql> Create table event (  
-> event_id int primary key,  
-> event_name varchar(50),  
-> event_date DATE,  
-> event_time TIME,  
-> venue_id int,  
-> total_seats int,  
-> available_seats int,  
-> ticket_price decimal,  
-> event_type varchar(20),  
-> booking_id int,  
-> Foreign key (venue_id) references venue(venue_id)  
-> );  
Query OK, 0 rows affected (2.18 sec)
```

Field	Type	Null	Key	Default	Extra
event_id	int	NO	PRI	NULL	
event_name	varchar(50)	YES		NULL	
event_date	date	YES		NULL	
event_time	time	YES		NULL	
venue_id	int	YES	MUL	NULL	
total_seats	int	YES		NULL	
available_seats	int	YES		NULL	
ticket_price	decimal(10,0)	YES		NULL	
event_type	varchar(20)	YES		NULL	
booking_id	int	YES		NULL	

10 rows in set (0.08 sec)

Creating customer table

```
mysql> Create table customer (
->     customer_id int primary key,
->     customer_name varchar(50),
->     email varchar(50),
->     phone_number varchar(15),
->     booking_id int
-> );
Query OK, 0 rows affected (1.29 sec)
```

Field	Type	Null	Key	Default	Extra
customer_id	int	NO	PRI	NULL	
customer_name	varchar(50)	YES		NULL	
email	varchar(50)	YES		NULL	
phone_number	varchar(15)	YES		NULL	
booking_id	int	YES		NULL	

5 rows in set (0.00 sec)

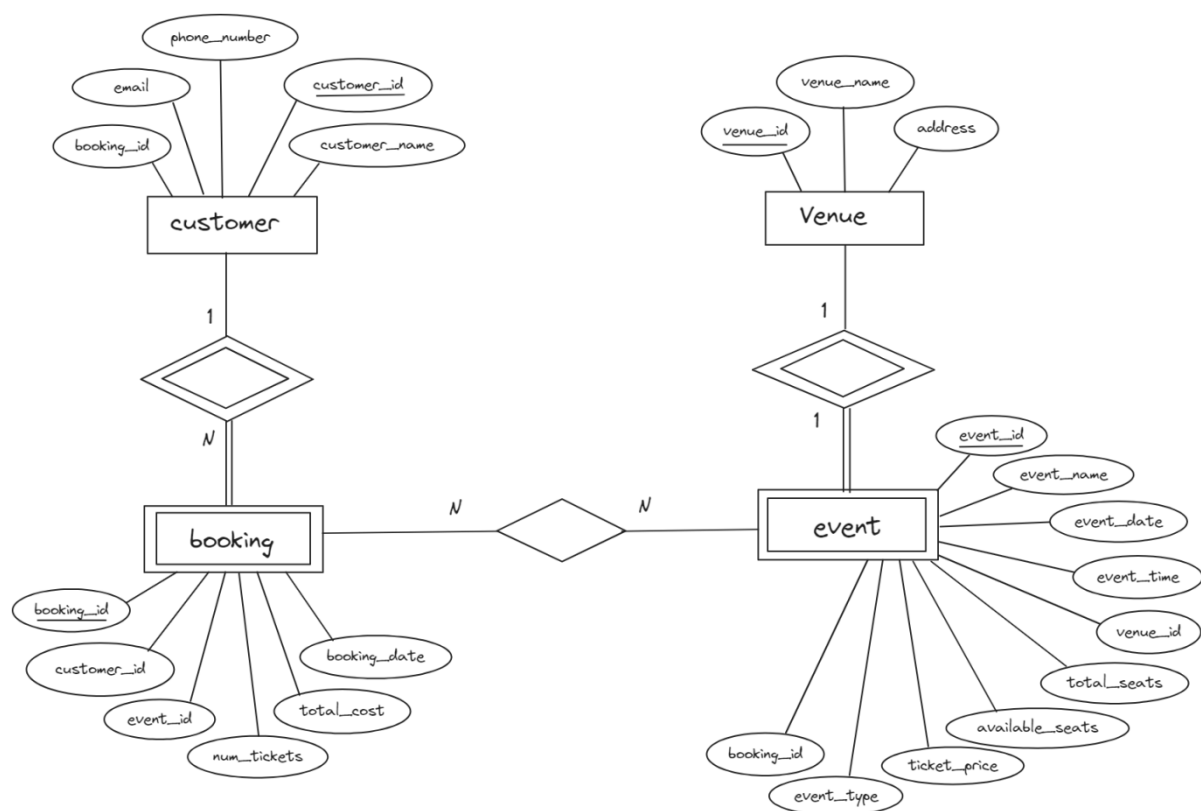
Creating booking table

```
mysql> Create table booking (
->     booking_id int primary key,
->     customer_id int,
->     event_id int,
->     num_tickets int,
->     total_cost int,
->     booking_date DATE,
->     Foreign key (customer_id) references customer(customer_id),
->     Foreign key (event_id) references event(event_id)
-> );
Query OK, 0 rows affected (1.82 sec)
```

Field	Type	Null	Key	Default	Extra
booking_id	int	NO	PRI	NULL	
customer_id	int	YES	MUL	NULL	
event_id	int	YES	MUL	NULL	
num_tickets	int	YES		NULL	
total_cost	int	YES		NULL	
booking_date	date	YES		NULL	

6 rows in set (0.00 sec)

3) Entity Relationship Diagram



Task-2:

Inserting values into venue table

```
mysql> insert into venue values(101,'Auditorium','Dindigul'),  
-> (102,'raja mahal','Trichy'),  
-> (103,'rani palace','Coimbatore'),  
-> (104,'open auditorium','Chennai'),  
-> (105,'devi complex','Bangalore'),  
-> (106,'priya theatre','Erode'),  
-> (107,'kannan bazaar','Karur'),  
-> (108,'kanmani college','Madurai'),  
-> (109,'mathi theatre','Mumbai'),  
-> (110,'dharshini bazaar','Gujarat');
```

Query OK, 10 rows affected (0.55 sec)

Records: 10 Duplicates: 0 Warnings: 0

venue_id	venue_name	address
101	Auditorium	Dindigul
102	raja mahal	Trichy
103	rani palace	Coimbatore
104	open auditorium	Chennai
105	devi complex	Bangalore
106	priya theatre	Erode
107	kannan bazaar	Karur
108	kanmani college	Madurai
109	mathi theatre	Mumbai
110	dharshini bazaar	Gujarat

10 rows in set (0.03 sec)

Inserting values into event table

```
mysql> insert into event values(1,'Beats concert','2024-04-02','05:00',101,1000,700,2000.0,'Concert',500),
-> (2,'summer concert','2024-04-03','05:30',101,2000,800,3000.0,'Concert',600),
-> (3,'harmony concert','2024-04-04','06:00',102,3000,900,4000.0,'Concert',700),
-> (4,'world_cup match','2024-04-05','06:30',103,4000,1000,5000.0,'Sports',800),
-> (5,'cricket world cup','2024-04-06','07:00',103,5000,1100,6000.0,'Sports',800),
-> (6,'kabaddi','2024-04-07','07:30',104,6000,1200,7000.0,'Sports',900),
-> (7,'Harry potter','2024-04-08','08:00',105,7000,1300,8000.0,'Movie',900),
-> (8,'Joe','2024-04-09','08:30',105,7500,1500,9000.0,'Movie',500),
-> (9,'Life_of_pi','2024-04-10','09:00',105,8000,1600,9500.0,'Movie',700),
-> (10,'Jurassic_Park','2024-04-11','09:30',106,9000,2000,10000.0,'Movie',600);
```

Query OK, 10 rows affected (0.15 sec)

Records: 10 Duplicates: 0 Warnings: 0

event_id	event_name	event_date	event_time	venue_id	total_seats	available_seats	ticket_price	event_type	booking_id
1	Beats concert	2024-04-02	05:00:00	101	1000	700	2000	Concert	500
2	summer concert	2024-04-03	05:30:00	101	2000	800	3000	Concert	600
3	harmony concert	2024-04-04	06:00:00	102	3000	900	4000	Concert	700
4	world_cup match	2024-04-05	06:30:00	103	4000	1000	5000	Sports	800
5	cricket world cup	2024-04-06	07:00:00	103	5000	1100	6000	Sports	800
6	kabaddi	2024-04-07	07:30:00	104	6000	1200	7000	Sports	900
7	Harry potter	2024-04-08	08:00:00	105	7000	1300	8000	Movie	900
8	Joe	2024-04-09	08:30:00	105	7500	1500	9000	Movie	500
9	Life_of_pi	2024-04-10	09:00:00	105	8000	1600	9500	Movie	700
10	Jurassic_Park	2024-04-11	09:30:00	106	9000	2000	10000	Movie	600

10 rows in set (0.00 sec)

Inserting values into customer table

```
mysql> insert into customer values(201,'kavi','kavi@gmail.com','9038606367',200),
-> (202,'diya','diya@gmail.com','9898606367',200),
-> (203,'nithya','nithya@gmail.com','8768608000',300),
-> (204,'deva','deva@gmail.com','9038456792',400),
-> (205,'sowmiya','sowmiya@gmail.com','8745632907',100),
-> (206,'vino','vino@gmail.com','7576975000',500),
-> (207,'divya','divya@gmail.com','9875623417',300),
-> (208,'siva','siva@gmail.com','9465787843',500),
-> (209,'pravin','pravin@gmail.com','9067854325',600),
-> (210,'bagavathi','bagavathi@gmail.com','9987656788',700);
Query OK, 10 rows affected (0.09 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

customer_id	customer_name	email	phone_number	booking_id
201	kavi	kavi@gmail.com	9038606367	200
202	diya	diya@gmail.com	9898606367	200
203	nithya	nithya@gmail.com	8768608000	300
204	deva	deva@gmail.com	9038456792	400
205	sowmiya	sowmiya@gmail.com	8745632907	100
206	vino	vino@gmail.com	7576975000	500
207	divya	divya@gmail.com	9875623417	300
208	siva	siva@gmail.com	9465787843	500
209	pravin	pravin@gmail.com	9067854325	600
210	bagavathi	bagavathi@gmail.com	9987656788	700

10 rows in set (0.00 sec)

Creating values in booking table

booking_id	customer_id	event_id	num_tickets	total_cost	booking_date
100	201	1	50	100000	2024-05-12
200	201	1	60	180000	2024-05-13
300	202	2	70	280000	2024-05-14
400	209	1	80	400000	2024-05-15
500	210	3	30	180000	2024-05-16
600	203	4	20	140000	2024-05-17
700	203	5	90	720000	2024-05-18
800	206	6	40	360000	2024-05-19
900	207	6	100	950000	2024-05-20
1000	208	8	10	100000	2024-05-21

10 rows in set (0.00 sec)

```
mysql> insert into booking values(100,201,1,50,100000,'2024-05-12'),
-> (200,201,1,60,180000,'2024-05-13'),
-> (300,202,2,70,280000,'2024-05-14'),
-> (400,209,1,80,400000,'2024-05-15'),
-> (500,210,3,30,180000,'2024-05-16'),
-> (600,203,4,20,140000,'2024-05-17'),
-> (700,203,5,90,720000,'2024-05-18'),
-> (800,206,6,40,360000,'2024-05-19'),
-> (900,207,6,100,950000,'2024-05-20'),
-> (1000,208,8,10,100000,'2024-05-21');
Query OK, 10 rows affected (0.14 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

Adding foreign key constraint to event and customer table

```
mysql> alter table event add constraint eve foreign key(booking_id) references booking(booking_id);
Query OK, 10 rows affected (2.00 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
mysql> alter table customer add constraint cus foreign key(booking_id) references booking(booking_id);
Query OK, 10 rows affected (1.25 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
mysql> desc event;
```

Field	Type	Null	Key	Default	Extra
event_id	int	NO	PRI	NULL	
event_name	varchar(50)	YES		NULL	
event_date	date	YES		NULL	
event_time	time	YES		NULL	
venue_id	int	YES	MUL	NULL	
total_seats	int	YES		NULL	
available_seats	int	YES		NULL	
ticket_price	decimal(10,0)	YES		NULL	
event_type	varchar(20)	YES		NULL	
booking_id	int	YES	MUL	NULL	

10 rows in set (0.00 sec)

```
mysql> desc customer;
```

Field	Type	Null	Key	Default	Extra
customer_id	int	NO	PRI	NULL	
customer_name	varchar(50)	YES		NULL	
email	varchar(50)	YES		NULL	
phone_number	varchar(15)	YES		NULL	
booking_id	int	YES	MUL	NULL	

5 rows in set (0.00 sec)

2) SQL query to list all Events.

```
mysql> select * from event;
```

event_id	event_name	event_date	event_time	venue_id	total_seats	available_seats	ticket_price	event_type	booking_id
1	Beats concert	2024-04-02	05:00:00	101	1000	700	2000	Concert	500
2	summer concert	2024-04-03	05:30:00	101	2000	800	3000	Concert	600
3	harmony concert	2024-04-04	06:00:00	102	3000	900	4000	Concert	700
4	world_cup match	2024-04-05	06:30:00	103	4000	1000	5000	Sports	800
5	cricket world cup	2024-04-06	07:00:00	103	5000	1100	6000	Sports	800
6	kabaddi	2024-04-07	07:30:00	104	6000	1200	7000	Sports	900
7	Harry potter	2024-04-08	08:00:00	105	7000	1300	8000	Movie	900
8	Joe	2024-04-09	08:30:00	105	7500	1500	9000	Movie	500
9	Life_of_pi	2024-04-10	09:00:00	105	8000	1600	9500	Movie	700
10	Jurassic_Park	2024-04-11	09:30:00	106	9000	2000	10000	Movie	600

```
10 rows in set (0.00 sec)
```

3) SQL query to select events with available tickets

```
mysql> select event_name,available_seats from event;
```

event_name	available_seats
Beats concert	700
summer concert	800
harmony concert	900
world_cup match	1000
cricket world cup	1100
kabaddi	1200
Harry potter	1300
Joe	1500
Life_of_pi	1600
Jurassic_Park	2000

```
10 rows in set (0.00 sec)
```

4)SQL query to select events name partial match with 'cup'

```
mysql> select event_name from event where event_name like '%cup%';
```

event_name
world_cup match
cricket world cup

```
2 rows in set (0.00 sec)
```


5) SQL query to select events with ticket price range is between 1000 to 2500.

```
mysql> Select event_name from event where ticket_price between 1000 and 2500;
+-----+
| event_name |
+-----+
| Beats concert |
+-----+
1 row in set (0.06 sec)
```

6) SQL query to retrieve events with dates falling within a specific range

```
mysql> select event_name,event_date from event where event_date between '2024-04-03' and '2024-04-06';
+-----+-----+
| event_name | event_date |
+-----+-----+
| summer concert | 2024-04-03 |
| harmony concert | 2024-04-04 |
| world_cup match | 2024-04-05 |
| cricket world cup | 2024-04-06 |
+-----+-----+
4 rows in set (0.04 sec)
```

7) SQL query to retrieve events with available tickets that also have "Concert" in their name

```
mysql> select event_name,available_seats from event where event_name like '%concert%';
+-----+-----+
| event_name | available_seats |
+-----+-----+
| Beats concert | 700 |
| summer concert | 800 |
| harmony concert | 900 |
+-----+-----+
3 rows in set (0.00 sec)
```

8) SQL query to retrieve users in batches of 5, starting from the 6th user.

```
mysql> select customer_name from Customer limit 5 offset 5;
+-----+
| customer_name |
+-----+
| vino |
| divya |
| siva |
| pravin |
| bagavathi |
+-----+
5 rows in set (0.80 sec)
```

9) SQL query to retrieve bookings details contains booked no of ticket more than 4

```
mysql> select * from booking where num_tickets>4;
```

booking_id	customer_id	event_id	num_tickets	total_cost	booking_date
100	201	1	50	100000	2024-05-12
200	201	1	60	180000	2024-05-13
300	202	2	70	280000	2024-05-14
400	209	1	80	400000	2024-05-15
500	210	3	30	180000	2024-05-16
600	203	4	20	140000	2024-05-17
700	203	5	90	720000	2024-05-18
800	206	6	40	360000	2024-05-19
900	207	6	100	950000	2024-05-20
1000	208	8	10	100000	2024-05-21

```
10 rows in set (0.13 sec)
```

10) SQL query to retrieve customer information whose phone number end with '000'

```
mysql> select * from customer where phone_number like '%000';
```

customer_id	customer_name	email	phone_number	booking_id
203	nithya	nithya@gmail.com	8768608000	300
206	vino	vino@gmail.com	7576975000	500

```
2 rows in set (0.00 sec)
```

11) SQL query to retrieve the events in order whose seat capacity more than 1500

```
mysql> select * from event where available_seats>1500 order by available_seats;
```

event_id	event_name	event_date	event_time	venue_id	total_seats	available_seats	ticket_price	event_type	booking_id
9	Life_of_pi	2024-04-10	09:00:00	105	8000	1600	9500	Movie	700
10	Jurassic_Park	2024-04-11	09:30:00	106	9000	2000	10000	Movie	600

```
2 rows in set (0.00 sec)
```

12) SQL query to select events name not start with 'x', 'y', 'z'

```
mysql> select event_name from event where event_name not like 'X%' or 'Y%' or 'Z%';
```

event_name
Beats concert
summer concert
harmony concert
world_cup match
cricket world cup
kabaddi
Harry potter
Joe
Life_of_pi
Jurassic_Park

```
10 rows in set, 2 warnings (0.00 sec)
```

Task-3:

1) a SQL query to List Events and Their Average Ticket Prices.

```
mysql> select event_id, event_name, avg(ticket_price) from event group by event_id, event_name;
```

event_id	event_name	avg(ticket_price)
1	Beats concert	2000.0000
2	summer concert	3000.0000
3	harmony concert	4000.0000
4	world_cup match	5000.0000
5	cricket world cup	6000.0000
6	kabaddi	7000.0000
7	Harry potter	8000.0000
8	Joe	9000.0000
9	Life_of_pi	9500.0000
10	Jurassic_Park	10000.0000

```
10 rows in set (0.37 sec)
```

2) SQL query to Calculate the Total Revenue Generated by Events.

```
mysql> select sum(ticket_price) from event;
```

sum(ticket_price)
63500

```
1 row in set (0.05 sec)
```

3) a SQL query to find the event with the highest ticket sales.

```
mysql> select event_name, (total_seats-available_seats) as highest_ticket_sales from event order by  
-> (highest_ticket_sales) desc limit 1;
```

event_name	highest_ticket_sales
Jurassic_Park	7000

1 row in set (0.39 sec)

4) SQL query to Calculate the Total Number of Tickets Sold for Each Event

```
mysql> select event_name, sum(num_tickets) from booking  
-> join event on booking.event_id = event.event_id group by event_name;
```

event_name	sum(num_tickets)
Beats concert	190
summer concert	70
harmony concert	30
world_cup match	20
cricket world cup	90
kabaddi	140
Joe	10

7 rows in set (0.00 sec)

5) a SQL query to Find Events with No Ticket Sales

```
mysql> select event_name from event where event_id not in (select distinct event_id from  
-> booking);
```

event_name
Harry potter
Life_of_pi
Jurassic_Park

3 rows in set (0.00 sec)

6) SQL query to Find the User Who Has Booked the Most Tickets.

```
mysql> select customer_name, sum(num_tickets) from customer join booking on customer.customer_id = booking.customer_id
-> group by customer_name order by sum(num_tickets) desc limit 1;
```

customer_name	sum(num_tickets)
kavi	110

1 row in set (0.01 sec)

7) SQL query to List Events and the total number of tickets sold for each month.

```
mysql> select month(booking_date), year(booking_date), sum(num_tickets) from booking
-> group by month(booking_date), year(booking_date);
```

month(booking_date)	year(booking_date)	sum(num_tickets)
5	2024	550

1 row in set (0.06 sec)

8) SQL query to calculate the average Ticket Price for Events in Each Venue.

```
mysql> select venue.venue_id, venue.venue_name, avg(event.ticket_price) from venue
-> join event on venue.venue_id = event.venue_id
-> group by venue.venue_id, venue.venue_name;
```

venue_id	venue_name	avg(event.ticket_price)
101	Auditorium	2500.0000
102	raja mahal	4000.0000
103	rani palace	5500.0000
104	open auditorium	7000.0000
105	devi complex	8833.3333
106	priya theatre	10000.0000

6 rows in set (0.00 sec)

9) a SQL query to calculate the total Number of Tickets Sold for Each Event Type

```
mysql> select event_type, sum(num_tickets) from booking join
-> event on booking.event_id = event.event_id group by event_type;
```

event_type	sum(num_tickets)
Concert	290
Sports	250
Movie	10

3 rows in set (0.00 sec)

10) SQL query to calculate the total Revenue Generated by Events in Each Year.

```
mysql> select year(booking_date),sum(total_cost) from booking
-> group by year(booking_date);
```

year(booking_date)	sum(total_cost)
2024	3410000

1 row in set (0.00 sec)

11) SQL query to list users who have booked tickets for multiple events

```
mysql> select customer_id,count(distinct event_id) from booking group by customer_id
-> having count(distinct event_id) > 1;
```

customer_id	count(distinct event_id)
203	2

1 row in set (0.00 sec)

12) SQL query to calculate the Total Revenue Generated by Events for Each User.

```
mysql> select customer_id,sum(total_cost) from booking group by customer_id;
```

customer_id	sum(total_cost)
201	280000
202	280000
203	860000
206	360000
207	950000
208	100000
209	400000
210	180000

```
8 rows in set (0.02 sec)
```

13) SQL query to calculate the Average Ticket Price for Events in Each Category and Venue.

```
mysql> select event.event_type,event.venue_id,avg(event.ticket_price) from event
-> group by event.event_type,event.venue_id;
```

event_type	venue_id	avg(event.ticket_price)
Concert	101	2500.0000
Concert	102	4000.0000
Sports	103	5500.0000
Sports	104	7000.0000
Movie	105	8833.3333
Movie	106	10000.0000

```
6 rows in set (0.00 sec)
```

14) SQL query to list Users and the Total Number of Tickets They've Purchased in the Last 30 Days

```
mysql> select customer_id, count(*) as total_tickets_purchased from booking
-> where booking_date >= date_sub(current_date(), interval 30 day) group by customer_id;
```

customer_id	total_tickets_purchased
201	2
202	1
203	2
206	1
207	1
208	1
209	1
210	1

```
8 rows in set (0.17 sec)
```


Task-4:

1) Average Ticket Price for Events in Each Venue Using a Subquery

```
mysql> select v.venue_name,(select avg(ticket_price) from event where venue_id =  
-> v.venue_id) as avg_ticket_price from venue v;
```

venue_name	avg_ticket_price
Auditorium	2500.0000
raja mahal	4000.0000
rani palace	5500.0000
open auditorium	7000.0000
devi complex	8833.3333
priya theatre	10000.0000
kannan bazaar	NULL
kanmani college	NULL
mathi theatre	NULL
dharshini bazaar	NULL

```
10 rows in set (0.07 sec)
```

2) Finding Events with More Than 50% of Tickets Sold using subquery

```
mysql> select event_id,event_name from event  
-> where (select sum(num_tickets) from booking where booking.event_id=event.event_id) >(total_seats/2);  
Empty set (0.06 sec)
```

3) Calculating the Total Number of Tickets Sold for Each Event.

```
mysql> select event_id, event_name, (select sum(num_tickets) from Booking where  
-> Booking.event_id = Event.event_id) as total_tickets_sold from Event;
```

event_id	event_name	total_tickets_sold
1	Beats concert	190
2	summer concert	70
3	harmony concert	30
4	world_cup match	20
5	cricket world cup	90
6	kabaddi	140
7	Harry potter	NULL
8	Joe	10
9	Life_of_pi	NULL
10	Jurassic_Park	NULL

```
10 rows in set (0.00 sec)
```

4) Finding Users Who Have Not Booked Any Tickets Using a NOT EXISTS Subquery.

```
mysql> select customer_id, customer_name from Customer c where not exists (select *
-> from Booking where Booking.customer_id = c.customer_id);
```

customer_id	customer_name
204	deva
205	sowmiya

```
2 rows in set (0.12 sec)
```

5) Listing Events with No Ticket Sales Using a NOT IN Subquery.

```
mysql> select event_id, event_name from event where event_id not in (select distinct
-> event_id from Booking);
```

event_id	event_name
7	Harry potter
9	Life_of_pi
10	Jurassic_Park

```
3 rows in set (0.04 sec)
```

6) Calculating the Total Number of Tickets Sold for Each Event Type Using a Subquery in the FROM Clause

```
mysql> select e1.event_type, e1.total_seats - e1.available_seats as total_tickets_sold
-> from (select event_type, sum(total_seats) as total_seats, sum(available_seats) as available_seats
-> from event group by event_type) as e1;
```

event_type	total_tickets_sold
Concert	3600
Sports	11700
Movie	25100

```
3 rows in set (0.17 sec)
```

7) Finding Events with Ticket Prices Higher Than the Average Ticket Price Using a Subquery in the WHERE Clause

```
mysql> select event_id, event_name, ticket_price from event where ticket_price > (select
-> avg(ticket_price) from event);
```

event_id	event_name	ticket_price
6	kabaddi	7000
7	Harry potter	8000
8	Joe	9000
9	Life_of_pi	9500
10	Jurassic_Park	10000

```
5 rows in set (0.08 sec)
```

8) Calculating the Total Revenue Generated by Events for Each User Using a Correlated Subquery

```
mysql> select customer_id, customer_name, (select sum(total_cost) from booking where
-> booking.customer_id = customer.customer_id) as total_revenue from customer;
+-----+-----+-----+
| customer_id | customer_name | total_revenue |
+-----+-----+-----+
| 201 | kavi | 280000 |
| 202 | diya | 280000 |
| 203 | nithya | 860000 |
| 204 | deva | NULL |
| 205 | sowmiya | NULL |
| 206 | vino | 360000 |
| 207 | divya | 950000 |
| 208 | siva | 100000 |
| 209 | pravin | 400000 |
| 210 | bagavathi | 180000 |
+-----+-----+-----+
10 rows in set (0.00 sec)
```

9) Listing Users Who Have Booked Tickets for Events in a Given Venue Using a Subquery in the WHERE Clause

```
mysql> select customer_id, customer_name from customer where customer_id in (select
-> distinct customer_id from Booking where event_id in (select event_id from event
-> where venue_id = (select venue_id from venue where venue_name = 'Auditorium')));
+-----+-----+
| customer_id | customer_name |
+-----+-----+
| 201 | kavi |
| 209 | pravin |
| 202 | diya |
+-----+-----+
3 rows in set (0.25 sec)
```

10) Calculating the Total Number of Tickets Sold for Each Event Category Using a Subquery with GROUP BY.

```
mysql> select event_type, sum(total_tickets_sold) as total_tickets_sold
-> from (select event_type, sum(total_seats-available_seats) as total_tickets_sold
-> from event group by event_id) as total_tickets group by event_type;
+-----+-----+
| event_type | total_tickets_sold |
+-----+-----+
| Concert | 3600 |
| Sports | 11700 |
| Movie | 25100 |
+-----+-----+
3 rows in set (0.07 sec)
```

11) Finding Users Who Have Booked Tickets for Events in each Month Using a Subquery with DATE_FORMAT

```
mysql> select c.customer_id, c.customer_name, (select b.booking_date from booking b
-> where c.booking_id = b.booking_id) as booking_date
-> from customers c
-> order by booking_date;
```

customer_id	customer_name	booking_date
c9	Rani	2024-04-05
c7	Vino	2024-04-07
c6	Sowmi	2024-04-08
c3	Deepi	2024-04-10
c4	Siddhu	2024-04-11
c8	Sanjai	2024-04-14
c5	Manoj	2024-04-19
c2	Abi	2024-04-20
c1	Ravi	2024-04-25
c0	Raja	2024-04-27

10 rows in set (0.00 sec)

12) Calculating the Average Ticket Price for Events in Each Venue Using a Subquery

```
mysql> select venue.venue_name, (select avg(ticket_price) from event where event.venue_id =
-> venue.venue_id) as avg_ticket_price from venue;
```

venue_name	avg_ticket_price
Auditorium	2500.0000
raja mahal	4000.0000
rani palace	5500.0000
open auditorium	7000.0000
devi complex	8833.3333
priya theatre	10000.0000
kannan bazaar	NULL
kanmani college	NULL
mathi theatre	NULL
dharshini bazaar	NULL

10 rows in set (0.00 sec)