

```
use ticketbookingsystem;
```

```
show tables;
```

```
insert into venue(venue_name, address)
```

```
values
```

```
('mumbai', 'marol andheri(w)'),
```

```
('chennai', 'IT Park'),
```

```
('pondicherry', 'state beach');
```

```
select * from venue;
```

```
insert into customer(customer_name,email,phone_number)
```

```
values
```

```
('harry potter','harry@gmail.com','45454545'),
```

```
('ronald weasley','ron@gmail.com','45454545'),
```

```
('hermione granger','her@hmail.com','45454545'),
```

```
('draco malfoy','drac@gmail.com','45454545'),
```

```
('ginny weasley','ginny@gmail.co','45454545');
```

```
insert into customer(customer_name,email,phone_number)
```

```
values
```

```
('severus snape', 'sev@gmail.co','56556');
```

```
select * from customer;
```

```
insert into
```

```
event(event_name,event_date,event_time,total_seats,available_seats,ticket_price,event_type,venue_id)
```

```
values
```

```
('Late Ms. Lata Mangeskar Musical', '2021-09-12', '20:00',320,270,600, 'concert',3),
```

```
('CSK vs RCB', '2024-04-11','19:30',23000,3,3600, 'sports', 2),
```

```
('CSK vs RR', '2024-04-19', '19:30', 23000, 10, 3400, 'sports', 2),
```

```
('MI vs KKR', '2024-05-01', '15:30', 28000, 100, 8000, 'sports', 1);
```

```
select * from event;
```

```
insert into booking(event_id,customer_id,num_tickets,total_cost,booking_date)
```

```
values(1,1,2,640,'2021-09-12'),
```

```
(1,4,3,960,'2021-09-12'),
```

```
(2,1,3,10800,'2024-04-11'),
```

```
(2,3,5,18000,'2024-04-10'),
```

```
(3,5,10,34000,'2024-04-15'),
```

```
(4,2,4,32000,'2024-05-01');
```

```
-- 3 SQL query to select events with available tickets.
```

```
select event_name,event_date, available_seats
```

```
from event
```

```
where available_seats>0;
```

```
/*
```

```
Late Ms. Lata Mangeshkar Musical      2021-09-12      270
```

```
CSK vs RCB      2024-04-11      3
```

```
CSK vs RR      2024-04-19      10
```

```
MI vs KKR      2024-05-01      100
```

```
*/
```

```
-- 4 SQL query to select events name partial match with 'cup'.
```

```
select *
```

```
from event
where event_name LIKE '%cup%';
```

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

```
select *
from event
where ticket_price between 1000 AND 2500 ;
```

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

```
select *
from event
where event_date between '2024-04-12' AND '2024-10-10';
```

```
/*
```

3	CSK vs RR	2024-04-19	19:30:00	23000	10	3400	sports	2
4	MI vs KKR	2024-05-01	15:30:00	28000	100	8000	sports	1

```
*/
```

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

```
select *
from event
where available_seats>0 AND event_type = 'concert';
```

```
/*
```

1	Late Ms. Lata Mangeshkar Musical concert 3	2021-09-12	20:00:00	320	270	600		
---	---	------------	----------	-----	-----	-----	--	--

```
*/
```

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

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

```
select *
```

```
from booking
```

```
where num_tickets > 4;
```

```
/*
```

```
10      2      3      5      18000 2024-04-10
```

```
11      3      5      10     34000 2024-04-15
```

```
*/
```

-- 10 Write a SQL query to retrieve customer information whose phone number end with '000'.

```
select *
```

```
from customer
```

```
where phone_number LIKE '%000';
```

-- 11 Write a SQL query to retrieve the events in order whose seat capacity more than 15000.

```
select *
```

```
from event
```

```
where total_seats > 15000;
```

```
/*
```

```
2      CSK vs RCB      2024-04-11      19:30:00      23000  3      3600  sports  2
```

```
3      CSK vs RR       2024-04-19      19:30:00      23000 10      3400  sports  2
```

4	MI vs KKR	2024-05-01	15:30:00	28000	100	8000	sports	1
---	-----------	------------	----------	-------	-----	------	--------	---

\*/

-- 12 Write a SQL query to select events name not start with 'x', 'v', '2'

```
select event_name
from event
where event_name NOT LIKE '[X,V,2]%';
```

/\*

Late Ms. Lata Mangeshkar Musical

CSK vs RCB

CSK vs RR

MI vs KKR

\*/

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

/\*

projection -- event

criteria -- venue

\*/

```
select e.event_name, avg(b.total_cost)
```

```
from event e, booking b
```

```
where e.event_id = b.event_id
```

```
group by e.event_id;
```

/\*

Late Ms. Lata Mangeshkar Musical	800.0000
----------------------------------	----------

CSK vs RCB	14400.0000
------------	------------

CSK vs RR        34000.0000

MI vs KKR        32000.0000

\*/

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

/\*

projection -- event

criteria -- booking

\*/

select e.event\_id,e.event\_name, sum(b.total\_cost \* num\_tickets) as total\_revenue\_generated

from event e, booking b

where e.event\_id = b.event\_id

group by e.event\_id;

/\*

1	Late Ms. Lata Mangeskar Musical	4160
---	---------------------------------	------

2	CSK vs RCB	122400
---	------------	--------

3	CSK vs RR	340000
---	-----------	--------

4	MI vs KKR	128000
---	-----------	--------

\*/

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

/\* projection -- event

criteria -- booking

\*/

select e.event\_name, b.num\_tickets

from event e,booking b

where e.event\_id = b.event\_id

group by e.event\_name,b.num\_tickets

order by b.num\_tickets desc

```
limit 1;
```

```
/*
```

```
CSK vs RR      10
```

```
*/
```

```
-- 4 SQL query to Calculate the Total Number of Tickets Sold for Each Event.
```

```
/*
```

```
projection -- event
```

```
criteia -- booking
```

```
*/
```

```
select e.event_name, sum(distinct b.num_tickets) as total_ticket_sold
```

```
from event e, booking b
```

```
where e.event_id = b.event_id
```

```
group by event_name;
```

```
/*
```

```
CSK vs RCB      8
```

```
CSK vs RR      10
```

```
Late Ms. Lata Mangeshkar Musical      5
```

```
MI vs KKR      4
```

```
*/
```

```
-- 5 SQL query to Find Events with No Ticket Sales.
```

```
select e.event_name, sum(distinct b.num_tickets) as total_tickets_sold
```

```
from event e, booking b
```

```
where e.event_id = b.event_id
```

```
group by event_name
```

```
having total_tickets_sold = 0;
```

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

```
/*
```

```
projection -- customer
```

```
criteria -- booking
```

```
*/
```

```
select c.customer_name,sum(distinct b.num_tickets) as total_tickets
```

```
from customer c, booking b
```

```
where c.customer_id = b.customer_id
```

```
group by c.customer_name
```

```
order by total_tickets desc
```

```
limit 1;
```

```
/*
```

```
ginni weasley 10
```

```
*/
```

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

```
-- not possible
```

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

```
/*
```

```
projection -- venue
```

```
criteria -- event
```

```
*/
```

```
select v.venue_name, avg(e.ticket_price) as average_price
```



```

from venue v, event e
where v.venue_id = e.venue_id
group by v.venue_name;

```

```

/*
mumbai      8000.0000
chennai3500.0000
pondicherry  600.0000
*/

```

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

```

/*
prjection -- event
criteria -- booking
*/
select e.event_type,sum(b.num_tickets) as total_tickets
from event e join booking b
ON e.event_id = b.event_id
group by e.event_type;

```

```

/*concert      5
sports  22*/

```

-- Task 4

-- 1. Calculate the Average Ticket Price for Events in Each Venue Using a Subquery.

```

/*
projection -- ticket price of event
criteria -- venue
*/

```

```

select v.venue_name, AVG(e.ticket_price) as avg_ticket_price
from venue v join event e ON v.venue_id = e.venue_id
group by v.venue_name;

```

-- 2 Find Events with More Than 50% of Tickets Sold using subquery.

```

select event_id, event_name, available_seats
from event
where (total_seats-available_seats) > (total_seats/2);

```

-- 3. Calculate the Total Number of Tickets Sold for Each Event.

```

select event_name, SUM(total_seats - available_seats) as tickets_sold
from event
group by event_name;

```

/\*

Late Ms. Lata Mangeskar Musical      50

CSK vs RCB      22997

CSK vs RR      22990

MI vs KKR      27900

\*/

-- 4 Find Users Who Have Not Booked Any Tickets Using a NOT EXISTS Subquery.

```

insert into customer(customer_name,email,phone_number) values
('frodo baggins', 'frodo@latr.com', '3454');

```

/\*

projection -- customer

criteria -- booking

\*/

select \*

```

from customer
where customer_id NOT IN (select distinct c.customer_id
                           from customer c join
                           booking b ON c.customer_id = b.customer_id);

```

```

/*
6      severus snape  sev@gmail.co  56556
7      frodo baggins  frodo@latr.com3454
*/

```

-- 6. Calculate the Total Number of Tickets Sold for Each Event Type Using a Subquery in the FROM Clause.

```

select event_name, sum(total_seats-available_seats) as total_ticket_sold
from event
group by event_name;

```

```

/*

```

```

Late Ms. Lata Mangeskar Musical      50
CSK vs RCB      22997
CSK vs RR      22990
MI vs KKR      27900

```

```

*/

```

-- 7. Find Events with Ticket Prices Higher Than the Average Ticket Price Using a Subquery in the WHERE Clause.

```

/*

```

```

projection -- ticket price of event

```

```

criteria -- event

```

```

*/

```

```

select *
from event
where ticket_price > (select AVG (ticket_price)
                      from event);

```

```

/*4 MI vs KKR      2024-05-01    15:30:00    28000  100    8000  sports  1
*/

```

-- 8. Calculate the Total Revenue Generated by Events for Each User Using a Correlated Subquery.

```

select c.customer_name, SUM(b.total_cost)
from customer c join booking b
ON c.customer_id = b.customer_id
group by c.customer_name;

```

```

/*

```

output

```

harry potter    11440
draco malfoy    960
hermione granger 18000
ginny weasley   34000
ronald weasley  32000
*/

```

-- 9 List Users Who Have Booked Tickets for Events in a Given Venue Using a Subquery in the WHERE Clause.

```

select *
from customer
where customer_id IN(select customer_id from booking
                      where event_id IN (select event_id from event
                                         where venue_id IN (select venue_id from venue
                                                             where venue_name = 'mumbai'))));

```

```

/* output

```

```

2      ronald weasley ron@gmail.com45454545
*/

```

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

```

select event_type , sum(total_seats-available_seats) as tickets_sold
from event
group by event_type;

```

```

/*
output

```

```

concert 50
sports  73887

```

```

*/

```

-- 11 Find Users Who Have Booked Tickets for Events in each Month Using a Subquery with DATE\_FORMAT.

-- 12 Calculate the Average Ticket Price for Events in Each Venue Using a Subquery

```
select v.venue_name, AVG(e.ticket_price)
from venue v join event e
ON e.venue_id = v.venue_id
group by v.venue_name;
```

```
/* output
```

```
mumbai      8000.0000
```

```
chennai3500.0000
```

```
pondicherry  600.0000
```

```
*/
```