

Assignment - 1

```
use tbs12;
describe booking;
use TicketBookingSystem;
describe venue;
describe event;
describe customer;
describe booking;
```

```
-- -----task 2-----
-----
```

```
-- 1 query to insert values
```

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

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

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

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

```
select*from venue;
```

```
/*
```

```
1      mumbai      marol andheri(w)
```

```
2      chennaiIT Park
```

```
3      pondicherry  state beach
```

```
*/
```

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

```
values
```

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

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

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

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

```

('ginni weasley','ginni@gmail.com','45454545');
insert into customer(customer_name,email,phone_number)
values
('severus snape','sev@gmail.com','56556'),
('frodo baggins','frodo@lotr.com','35454');
select*from customer;
/*
1      harry potter      harry@gmail.com      45454545
2      ronald weasley  ron@gmail.com45454545
3      hermione granger      her@gmail.com45454545
4      draco malfoy   drac@gmail.com      45454545
5      ginni weasley  ginni@gmail.com      45454545
6      severus snape  sev@gmail.com56556
7      frodo baggins  frodo@lotr.com35454

*/

insert into
event(event_name,event_date,event_time,total_seats,available_seats,ticket_price,event_type,venue_id)
values
('Late Ms. Lata Mangeshkar 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);
update event set event_name='Conference CUP'
where id=4;
select*from event;
/*
1      Late Ms. Lata Mangeshkar Musical      2021-09-12      20:00:00      320      270      600
concert 3
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 Conference CUP 2024-05-01 15:30:00 28000 100 8000 sports 1

*/

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

(4,1,2,640,'2021-09-12'),

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

(4,4,3,10800,'2024-04-11'),

(3,1,5,18000,'2024-04-10'),

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

(2,5,1,32000,'2024-05-01');

select * from booking;

/*

2 5 1 32000 2024-05-01

3 1 5 18000 2024-04-10

3 3 10 34000 2024-04-15

4 1 2 640 2021-09-12

4 3 3 960 2021-09-12

4 4 3 10800 2024-04-11

*/

-- -----task 2 -----

/*

Task 2 - list all events

*/

select e.event_name from event e;

/*

Late Ms. Lata Mangeshkar Musical

CSK vs RCB

CSK vs RR

Conference CUP

```
*/
```

```
/*
```

task 3 - events with available tickets

```
*/
```

```
select e.event_name, e.available_seats from event e where e.available_seats>0;
```

```
/*
```

Late Ms. Lata Mangeshkar Musical	270
----------------------------------	-----

CSK vs RCB	3
------------	---

CSK vs RR	10
-----------	----

Conference CUP	100
----------------	-----

```
*/
```

```
/*
```

task 4 - event name partial match with cup

```
*/
```

```
select e.event_name from event e where e.event_name like '%cup%';
```

```
/*
```

Conference CUP

```
*/
```

```
/*
```

task 5 - events with ticket price between 1000 and 2500

```
*/
```

```
select e.event_name, e.ticket_price from event e where e.ticket_price between 1000 and 2500;
```

```
-- output null
```

```
/*
```

task 6 - date falling in specific range

```
*/
```

```
select e.event_date , e.event_name from event e where e.event_date between '2024-04-11' and '2024-05-01';
```

```
/*
```

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

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

```
2024-05-01      Conference CUP
```

```
*/
```

```
/*
```

```
task 7 - event with available seats with concert in their name
```

```
*/
```

```
select e.event_name, e.available_seats from event e where e.available_seats>0 and e.event_type like '%concert%';
```

```
/*
```

```
Late Ms. Lata Mangeskar Musical      270
```

```
*/
```

```
/*
```

```
task 8 - limit 5,5
```

```
*/
```

```
select c.id ,c.customer_name from customer c limit 5,5;
```

```
/*
```

```
6      severus Snape
```

```
7      frodo baggins
```

```
*/
```

```
/*
```

```
task 9 - num of tickets more than 5
```

```
*/
```

```
select distinct e.id, b.num_tickets , e.event_name from customer c, event e, booking b where b.num_tickets>5 group by e.event_name ;
```

```

/*
4      10      Conference CUP
2      10      CSK vs RCB
3      10      CSK vs RR
1      10      Late Ms. Lata Mangeskar Musical
*/

```

```

/*
task 10 - phone number end with 000
*/

```

```

select c.phone_number , c.customer_name from customer c where c.phone_number like '%000';
-- output null

```

```

/*
task 11 - total seats more than 15000
*/

```

```

select e.event_name , e.total_seats from event e where e.total_seats >15000;

```

```

/*
CSK vs RCB      23000
CSK vs RR       23000
Conference CUP   28000
*/

```

```

/*
task 12 - event name not start with x y z
*/

```

```

select e.event_name from event e where e.event_name not like 'x%' or 'y%' or 'z%';

```

```

/*
Late Ms. Lata Mangeskar Musical
CSK vs RCB
CSK vs RR

```

Conference CUP

*/

-----task 3 -----

-- task 1 - list of event and avg ticket price

```
select e.event_name, avg(e.ticket_price) from event e group by e.id;
```

/*

Late Ms. Lata Mangeskar Musical	600.0000
---------------------------------	----------

CSK vs RCB	3600.0000
------------	-----------

CSK vs RR	3400.0000
-----------	-----------

Conference CUP	8000.0000
----------------	-----------

*/

-- 2:total revenue by events

```
select event_name,sum(total_cost) as Revenue
```

```
from event e JOIN booking b on e.id=b.event_id group by event_name;
```

/*

Conference CUP	12400
----------------	-------

CSK vs RCB	32000
------------	-------

CSK vs RR	52000
-----------	-------

*/

-- 3:event with highest ticket sale

```
SELECT id,event_name,(total_seats - available_seats) as ticket_sales from event group by id order by  
ticket_sales desc LIMIT 1;
```

/*

4	Conference CUP	27900
---	----------------	-------

*/

-- 4 :total no of tickets sold for each event

```
select event_name,(total_seats-available_seats) as ticket_sold from event group by event_name;
```

```
/*
```

```
Conference CUP                27900
```

```
CSK vs RCB                    22997
```

```
CSK vs RR                     22990
```

```
Late Ms. Lata Mangeshkar Musical    50
```

```
*/
```

```
-- 5:events with no tickets
```

```
select event_name , (total_seats-available_seats) as ticket_count_available from event where  
(total_seats-available_seats) =0;
```

```
/*
```

```
null output
```

```
*/
```

```
-- 6:user who booked most ticket
```

```
select c.customer_name,b.num_tickets from booking b,customer c where c.id=b.customer_id group  
by c.customer_name order by b.num_tickets desc limit 1;
```

```
/*
```

```
hermione granger            10
```

```
*/
```

```
-- 7 query to list events and the total no of tickrts sold for each month
```

```
-- 8 query to calculate the average ticket price for events in each venue
```

```
select v.*, e.event_name, avg(e.ticket_price) from event e , venue v where e.venue_id = v.id group by  
v.venue_name ;
```

```
/*
```

```
2      chennaiIT Park  CSK vs RCB      3500.0000
```

```
1      mumbai          marol andheri(w)      Conference CUP      8000.0000
```



```
3      pondicherry    state beach    Late Ms. Lata Mangeshkar Musical    600.0000
*/
```

-- 9 total num of tickets sold in each event type

```
select event_type,sum(total_seats-available_seats) as Tickets_sold from event group by event_type;
/*
concert 50
sports  73887
*/
```

-- 10 total revenue generated by each year

```
select year(event_date) as year, sum(total_seats * ticket_price) as total_revenue from event group
by year(event_date);
/*
2021    192000
2024    385000000
*/
```

-- 11 users who hav booked tickets for multiple events

```
select c.id,c.customer_name,count(b.customer_id) from booking b, customer c where c.id =
b.customer_id group by c.id,c.customer_name having count(b.customer_id)>1;
/*output
1      harry potter      2
3      hermione granger    2
*/
```

-- 12 total revenue generated by events for each users

```
select c.customer_name , sum(b.num_tickets*e.ticket_price) as revenue from booking b , event e ,
customer c where e.id = b.event_id and c.id = b.customer_id group by c.customer_name;
```

```
/*output
```

```
draco malfoy    24000
ginni weasley   3600
harry potter    33000
hermione granger 58000
```

```
*/
```

```
-- 13 avg ticket price of events in each category and venue
```

```
select e.event_name, e.event_type , v.venue_name, avg(e.ticket_price) from event e , venue v
where v.id=e.venue_id group by e.event_type, v.venue_name, e.event_name;
```

```
/* output
```

```
Late Ms. Lata Mangeshkar Musical    concert pondicherry    600.0000
CSK vs RCB                          sports    chennai    3600.0000
CSK vs RR                          sports    chennai    3400.0000
Conference CUP                      sports    mumbai      8000.0000
```

```
*/
```

```
-- 14 total num of tickets in last 30 days
```

```
-----task 4-----
-----
```

```
/* 1 */
```

```
select v.venue_name , avg(e.ticket_price) from venue v join event e on v.id = e.venue_id group by
v.venue_name;
```

```
/* output
```

```
chennai    3500.0000
mumbai      8000.0000
pondicherry 600.0000
```

```
*/
```

```
/* 2 */
```

```
select e.event_name from event e where (total_seats / 2 ) > (total_seats - available_seats);
```

```
/* output
```

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

```
*/
```

```
/* 3 total num of tickets sold for each event */
```

```
select id , (total_seats - available_seats) as num_of_tickets_sold from event ;
```

```
/*output
```

```
1      50
```

```
2      22997
```

```
3      22990
```

```
4      27900
```

```
*/
```

```
/* 4 user who have not booked using non exists subquery */
```

```
select * from customer c where c.id not in (select c.id from customer c join booking b on c.id = b.customer_id);
```

```
/*output
```

```
2      ronald weasley  ron@gmail.com45454545
```

```
6      severus snape   sev@gmail.com56556
```

```
7      frodo baggins   frodo@lotr.com35454
```

```
*/
```

```
/* 5 event with no ticket sales using not in subquery*/
```

```
select event_name,((total_seats - available_seats) = total_seats ) as ticket_sales from event where
(total_seats - available_seats) = total_seats ;
```

```
/*output
```

```
null output
```

```
*/
```

```
/* 6 total num of tickets sold in event type subquery using from clause*/
```

```
select e.id,e.event_type,sum(e.total_seats-e.available_seats)as tickets_sold from event e group by
e.event_type order by e.id;
```

```
/*output
```

```
1      concert 50
```

```
2      sports  73887
```

```
*/
```

```
/* 7 find events with ticket prices higher than the average ticket price using a subquery in the where
clause */
```

```
select e.id, e.event_name, avg(e.ticket_price) as average_tp , e.ticket_price from event e where
e.ticket_price > (select avg(e.ticket_price) from event e );
```

```
/* output
```

```
4      Conference CUP      8000.0000      8000
```

```
*/
```

```
-- 8 calculate the total revenue generated by events for each user using a correlated subquery
```

```
-- select b.customer_id , e.event_name,sum (e.total_cost) as total_revenue from event e left join
booking b on e.id=b.event_id group by e.event_name;
```

```
select c.customer_name,SUM(b.total_cost) as total_revenue from booking b JOIN customer c ON
b.customer_id = c.id group by c.id;
```

```
/* OUtput
```

```
harry potter      18640
```

hermione granger 34960

draco malfoy 10800

ginni weasley 32000

*/

-- 9 list users who have booked tickets for events in a given venue using a subquery in where clause

select *

from customer c

where id in (select customer_id from booking b

where event_id in(select id from event e

where venue_id in (select id from venue v

where venue_name='chennai')));

/* output

1	harry potter	harry@gmail.com	45454545
---	--------------	-----------------	----------

3	hermione granger	her@gmail.com	45454545
---	------------------	---------------	----------

5	ginni weasley	ginni@gmail.com	45454545
---	---------------	-----------------	----------

*/

-- 10 calculate total number of tickets sold for each event category using a subquery with group by

select event_type,event_name,(total_seats-available_seats) as ticket_sold

from event

group by event_type;

/*Output

concert	Late Ms. Lata Mangeshkar Musical	50
---------	----------------------------------	----

sports	CSK vs RCB	22997
--------	------------	-------

*/

-- 11 find users who have booked tickets for events in each month using a subquery with date_format -- not given

-- 12 calculate the average ticket price for events in each venue using a subquery

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

/* Output

chennai	3500.0000
---------	-----------

mumbai	8000.0000
--------	-----------

pondicherry	600.0000
-------------	----------

*/