ASSIGNMENT 1

TICKET BOOKING SYSTEM

INSERTIONS:

```
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'),
('hermoine granger','her@gmail.com','45454545'),
('draco malfoy', 'dracy@gmail.com', '45454545'),
('ginni weasley', 'ginni@gmail.com', '45454545'),
('severus snape', 'sev@gmail.com', '56553678');
select * from customer;
insert into
event(event name, event date, event time, total seats, available seats, ticket p
rice, event type, venue id) values
('Late Ms.Lata Mangeshkar Musical', '2021-09-
12','20:00:00',320,270,600,'concert',3),
('CSK vs RCB','2024-04-11','19:30:00',23000,3,3600,'sports',2),
('CSK vs RR','2024-09-19','19:30:00',23000,10,3400,'sports',2),
('Conference Cup','2024-05-01','15:30:00',28000,99,8000,'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'),
```

select * from booking;

QUERIES:

/*TASK 2*/

/*2.query to list all events*/

select event_name from event;

OUTPUT:

event_name

Late Ms.Lata Mangeshkar Musical CSK vs RCB

CDIL VS RCI

CSK vs RR

Conference Cup

/*3.query to select events with available tickets*/
select event_name,available_seats from event;

event_name	available_seats
Late Ms.Lata Mangeshkar Musical	270
CSK vs RCB	3
CSK vs RR	10
Conference Cup	99

```
/*4.query to select event name partial match with 'cup' */
select event name from event where event name like '%cup';
OUTPUT:
  event_name
 Conference Cup
/*5.query to select events with ticket price range between 1000 to 2500 no
records*/
select event name, ticket price from event where ticket price between 1000
and 10000;
OUTPUT:
  event_name ticket_price
 CSK vs RCB
               3600
 CSK vs RR
               3400
 Conference Cup 8000
/*6.query to retrieve events with specific date range*/
select event_name, event_date from event where event_date <= '2024-01-01';
OUTPUT:
```

event_date

/*7.query to retrieve events with tickets that also have concert in their name*/

event_name

where event_type = 'concert';

from event

OUTPUT:

Late Ms.Lata Mangeshkar Musical 2021-09-12

select event name, available seats, event type

event_name available_seats event_type

Late Ms.Lata Mangeshkar Musical 270

concert

/*8.query to retrieve users in batches of 5 starting from the 6th user*/
select * from customer limit 5,5;

OUTPUT:

customer_i	d customer_name	e email	phone_number
6	severus snape	sev@gmail.com	56553678

/*9.query to retrieve bookings deatils contains booked no of ticket more than 4*/

select * from booking where num_tickets > 4;

OUTPUT:

event_id	customer_id	booking_id	num_tickets	$total_cost$	booking_date
1	3	20	5	3000	2024-03-15
2	3	23	5	18000	2024-04-10
3	5	24	10	34000	2024-04-15

/*10.query to retrieve customer info whose phone num end with 000(45)*/
select * from customer where phone_number like '%545';

customer_id	customer_name	email	phone_number
1	harry potter	harry@gmail.com	45454545
2	ronald weasley	ron@gmail.com	45454545
3	hermoine granger	her@gmail.com	45454545
4	draco malfoy	dracy@gmail.com	45454545
5	ginni weasley	ginni@gmail.com	45454545

/*11.query to retrieve the events in order whose seat capacity more than 15000*/

select event_name, total_seats from event where total_seats > 15000;

OUTPUT:

event_name total_seats
CSK vs RCB 23000
CSK vs RR 23000
Conference Cup 28000

/*12.query to select events name not start with x,y,z*/

select event_name from event where event_name not like 'x%' and event_name not like'y%' and event_name not like'z%';

OUTPUT:

event name

Late Ms.Lata Mangeshkar Musical CSK vs RCB CSK vs RR Conference Cup

/*TASK3*/

/*1.query to list events and their average ticket prices*/

select e.event_name,avg(b.total_cost)

from event e, booking b

where e.event_id = b.event_id

group by event_name;

OUTPUT:

CSK vs RR

 event_name
 avg(b.total_cost)

 Conference Cup
 13546.66666666667

 CSK vs RCB
 14400

34000

Late Ms.Lata Mangeshkar Musical 1533.33333333333

/*2.query to calculate total revenue generated by events*/
select e.event_name, b.total_cost as total_revenue
from event e join booking b on e.event_id = b.event_id
group by event_name;

OUTPUT:

event_name	total_revenue
Conference Cup	640
CSK vs RCB	10800
CSK vs RR	34000
Late Ms Lata Mangeshkar Mi	ısical 640

/*3.query to find the event with the highest ticket sales*/
select event_name, total_seats - available_seats as ticket_sold
from event group by event_name

limit 1;

OUTPUT:

event_name ticket_sold Conference Cup 27901

/*4.query to find the total no of tickets sold for each event*/
select event_name, total_seats - available_seats as ticket_sold
from event;

event_name	ticket_sold
Late Ms.Lata Mangeshkar Musical	50
CSK vs RCB	22997
CSK vs RR	22990

event_name ticket_sold

from event where total_seats - available_seats = 0;

Conference Cup 27901

/*5.query to find the events with no ticket sales*/
select event_name, total_seats - available_seats as ticket_sold

/*6.query to find the user who has booked most tickets*/
select distinct c.customer_name,b.num_tickets

from customer c, booking b

where c.customer_id = b.customer_id group by b.num_tickets order by b.num_tickets desc

limit 1;

OUTPUT:

customer_name num_tickets

ginni weasley 10

/*7.query to list events and the total no of tickets sold for each month*/
select event_name,month(event_date) as month, total_seats - available_seats
as ticket_sold

from event

group by month(event_date);

event_name	month	ticket_sold
CSK vs RCB	4	22997
Conference Cup	5	27901
CSK vs RR	9	22990
Late Ms.Lata Mangeshkar Musical	9	50

```
/*8.query to calculate the average ticket price for events in each venue*/
select v.*,avg(e.ticket_price)
from venue v, event e
where v.venue_id = e.venue_id
group by v.venue_name;
```

OUTPUT:

venue_i	d venue_name	e address	<pre>avg(e.ticket_price)</pre>
2	chennai	IT Park	3500
1	mumbai	marol andheri(w)	8000
3	pondicherry	state beach	600

/*9.query to calculate the total number of ticket sold for each event type*/
select event_type,total_seats - available_seats as ticket_sold
from event

group by event_type;

OUTPUT:

$event_type\ ticket_sold$

concert 50 sports 22997

/*10.query to calculate the total revenue generated by events in each year*/
select e.event_name, b.total_cost as total_revenue,year(e.event_date) as year
from event e join booking b on e.event_id = b.event_id
group by year(e.event_date);

event_name	total_revenue	e year
Conference Cup	640	2024
CSK vs RCB	10800	2024

event_name	total_revenue	year
CSK vs RR	34000	2024
Late Ms.Lata Mangeshkar Musical	640	2021

```
/*11.query to list users who have booked tickets for multiple events------
doubt*/
select c.customer_id,c.customer_name
from booking b, customer c
where c.customer_id = b.customer_id
group by c.customer_id,c.customer_name
having count(b.customer_id)>1;
```

OUTPUT:

customer_id customer_name

1 harry potter

3 hermoine granger

OUTPUT:

customer_name revenue

draco malfoy 960 ginni weasley 34000 harry potter 640 hermoine granger 3000 ronald weasley 32000 severus snape 8000

```
/*13.query to calculate the average ticket price for events in each category and
venue*/
select v.venue_name,e.event_type,avg(e.ticket_price)
from venue v,event e
where v.venue id = e.venue id
group by e.event_type , v.venue_name;
OUTPUT:
 venue_name event_type avg(e.ticket_price)
 pondicherry concert
                       600
 chennai
                       3500
             sports
 mumbai
             sports
                       8000
/*TASK 4*/
/*1.Average ticket price for events in each venue*/
select v.venue_name,e.event_type,avg(e.ticket_price) as average_price
from venue v,event e
where v.venue_id = e.venue_id
group by v.venue_name;
OUTPUT:
 venue_name event_type average_price
 pondicherry concert
                       600
                       3500
 chennai
             sports
                       8000
 mumbai
             sports
```

/*2.find events with more than 50% of tickets sold using subquery*/
select event name,total seats,(total seats-available seats) as ticket sold

from event

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where (total_seats-available_seats) > (total_seats/2);
```

OUTPUT:

event_name	total_seats	ticket_sold
CSK vs RCB	23000	22997
CSK vs RR	23000	22990
Conference Cup	28000	27901

/*3.calculate the total number of tickets sold for each event*/
select event_name,total_seats - available_seats as ticket_sold
from event
group by event_name;

OUTPUT:

event_name	ticket_sold
Conference Cup	27901
CSK vs RCB	22997
CSK vs RR	22990
Late Ms.Lata Mangeshkar Musical	50

/*4.find customer who have not booked any tickets using a not exists subquery*/

select *

from customer

b.customer_id);

where customer_id not in (select c.customer_id

from customer c join booking b on c.customer_id =

OUTPUT:

customer_id customer_name email phone_number

```
/*5.list events with no ticket sales using a not in subquery*/
select event_name
from event
where event id not in (select e.event id
            from event e join booking b on e.event_id = b.event_id);
/*7.find events with ticket prices higher than the average ticket price using a
subquery in the where clause*/
select event name
from event
where ticket_price > (select avg(ticket_price) from event);
select avg(ticket price) from event;
OUTPUT:
   event_name
 Conference Cup
/*8.calculate the total revenue generated by events for each user using a
correlated subquery*/
select c.customer_name,total_cost
from booking b join customer c on b.customer_id = c.customer_id
group by c.customer_name;
OUTPUT:
 customer_name total_cost
                960
 draco malfoy
```

```
customer_name total_cost
```

ginni weasley 34000 harry potter 640 hermoine granger 3000 ronald weasley 32000 severus snape 8000

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

select customer_name

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 ='chennai')));

OUTPUT:

customer_name

harry potter hermoine granger ginni weasley

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

select event_type,(total_seats-available_seats) as ticket_sold

from event

group by event_type;

OUTPUT:

event_type ticket_sold

concert 50 sports 22997

/*11.find users who have booked tickets for events in each month using a subquery with date_format*/

select c.*,month(b.booking_date) as booking_month
from customer c join booking b on c.customer_id = b.customer_id
group by booking_month;

OUTPUT:

$customer_id$	$customer_name$	email	$phone_number$	$booking_month$
3	hermoine granger	her@gmail.com	45454545	3
1	harry potter	harry@gmail.com	45454545	4
2	ronald weasley	ron@gmail.com	45454545	5
1	harry potter	harry@gmail.com	45454545	9

/*12.calculate the average ticket price for events in each venue using a subquery*/

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

OUTPUT:

venue_name average_price

chennai 3500 mumbai 8000 pondicherry 600