

ASSIGNMENT 1

-- task 1: 1=database created

-- 2=sql script

-- 3=erd diagram

-- 4=primary key,foreign key

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;

/* output

1 mumbai marol andheri(w)

2 chennai IT Park

3 pondicherry state beach

*/

insert into customer(customerr_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'),

('ginny weasley','ginny@gmail.com','45454545');

insert into customer(customerr_name,email,phone_number)

values

('severus snape','sev@gmail.com','56556'),

('frodo baggins','frodo@lotr.com','35454');

select*from customer;

/*output:

1	harry potter	harry@gmail.com	45454545
2	ronald weasley	ron@gmail.com	45454545
3	hermione granger	her@gmail.com	45454545
4	draco malfoy	drac@gmail.com	45454545
5	ginny weasley	ginny@gmail.com	45454545
6	severus snape	sev@gmail.com	56556
7	frodo baggins	frodo@lotr.com	35454

*/

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;

/*output:

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');

```

-- 2:query for event

```

select*from event;

```

```

/*output:

```

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

```

*/

```

-- 3:event name,available seats

```

select event_name,available_seats

```

```

from event;

```

```

/*output:

```

event_name	available_seats
Late Ms. Lata Mangeshkar Musical	270
CSK vs RCB	3
CSK vs RR	10
Conference CUP	100

```

*/

```

```
-- 4:event_name ='cup'
```

```
select event_name from event
```

```
where event_name like '%CUP%';
```

```
/*output:
```

```
    event_name
```

```
    Conference CUP
```

```
*/
```

```
-- 5:ticket price between 1000 to 2500
```

```
select *from event
```

```
where ticket_price between 1000 and 2500;
```

```
/*      id      event_name    event_date    event_time    total_seats    available_seats
      ticket_price    event_type    venue_id
```

```
*/
```

```
-- 6:dates within specific range
```

```
select event_name,event_date
```

```
from event
```

```
where event_date between '2024-04-19' and '2024-09-12';
```

```
/*      output:
```

```
    event_name    event_date
```

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

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

```
*/
```

```
-- 7:event=concert,available tickets
```

```
select event_name,available_seats,event_type
```

```
from event
```

```
where event_type='concert';
```

/*output:

event_name	available_seats	event_type
Late Ms. Lata Mangeskar Musical	270	concert

*/

-- 8:retrieve customer in batches of starting from the 6th user

select*from customer limit 5,5;

/*output:

6	severus Snape	sev@gmail.com	56556
7	frudo baggins	frudo@lotr.com	35454

*/

-- 9:booking details,no of tickets>4

select*from booking

where num_tickets >4;

/*output:

3	1	5	18000	2024-04-10
3	3	10	34000	2024-04-15

*/

-- 10:customer,phonr number end with 000

select*from customer

where phone_number like '%000';

/*output

id	customer_name	email	phone_number
----	---------------	-------	--------------

*/

-- 11:events,total_seats>15000 in order

```
select event_name,total_seats
from event
where total_seats>1500
order by total_seats;
```

```
/*output:
```

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

```
*/
```

```
-- 12:event 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 Mangeskar Musical
CSK vs RCB
CSK vs RR
Conference CUP

```
*/
```

```
-- task 3:1=event,avg of ticket price
```

```
select event_name,avg(ticket_price) as avg_ticketprice
from event
group by event_name;
```

/*output:

event_name	avg_ticketprice
Conference CUP	8000.0000
CSK vs RCB	3600.0000
CSK vs RR	3400.0000
Late Ms. Lata Mangeskar Musical	600.0000

*/

-- 2:total revenue by events

```
select event_name,sum(total_cost) as total_Revenue
from event e left JOIN booking b on
e.id=b.event_id
group by event_name;
```

/*ouput:

event_name	total_Revenue
Conference CUP	12400
CSK vs RCB	32000
CSK vs RR	52000
Late Ms. Lata Mangeskar Musical	null

*/

-- 3:event with highest ticket sale

```
SELECT id,event_name,sum(total_seats - available_seats) AS tickets_sold
FROM event
GROUP BY id
ORDER BY tickets_sold DESC
LIMIT 1;
```

/*output:

id	event_name	tickets_sold
4	Conference CUP	27900

*/

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

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

/*output:

event_name	tickets_sold
Conference CUP	27900
CSK vs RCB	22997
CSK vs RR	22990
Late Ms. Lata Mangeskar Musical	50

*/

-- 5:events with no tickets

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

/*output:

no data,empty

*/

-- 6:user who booked most ticket

```
select c.customerr_name,b.num_tickets
from booking b,customer c
```



```
where c.id=b.customer_id
group by c.customerr_name
order by b.num_tickets desc
limit 1;
```

```
/*output:
```

customerr_name	num_tickets
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.id,v.venue_name,avg(ticket_price)
from venue v join event e ON
v.id=e.venue_id
group by venue_name
order by v.id;
```

```
/*output:
```

id	venue_name	avg(ticket_price)
1	mumbai	8000.0000
2	chennai	3500.0000
3	pondicherry	600.0000

```
*/
```

```
-- 9 query to calculate the total number of ticket sold for each event type
```

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

/*output:

event_name	event_type	tickets_sold
Late Ms. Lata Mangeskar Musical	concert	50
CSK vs RCB	sports	22997

*/

-- 10 query to calculate the total revenue generated by events in each year, year is not present so i omitted that

select event_name, sum(total_cost) as revenue

from booking b join event e on

e.id=b.event_id

group by event_name;

-- 11 query to list customer who have booked tickets for multiple events

-- 12 query to calculate the revenue generated by events for each customer

select c.id, c.customer_name, sum(total_cost) as revenue

from customer c join booking b on c.id=b.customer_id

group by c.customer_name

order by c.id;

/*output:

id	customer_name	revenue
1	harry potter	18640
3	hermione granger	34960
4	draco malfoy	10800
5	ginny weasley	32000

*/

-- 13 query to calculate the average ticket price for events in each category and venue

```

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

```

/*output:

event_name	avg_ticket	venue_name
CSK vs RCB	3600.0000	chennai
CSK vs RR	3400.0000	chennai
Conference CUP	8000.0000	mumbai
Late Ms. Lata Mangeshkar Musical	600.0000	pondicherry

*/

-- task4:1=average ticket price for events in each venue

```

select v.venue_name,avg(ticket_price) as Ticket_price,e.event_name
from venue v JOIN event e ON v.id=e.venue_id
group by v.venue_name;

```

/*output:

venue_name	Ticket_price	event_name
chennai	3500.0000	CSK vs RCB
mumbai	8000.0000	Conference CUP
pondicherry	600.0000	Late Ms. Lata Mangeshkar Musical

*/

-- 2:=find events with more than 50% of ticket sold using subquery

```

select event.*
from event
where (total_seats-available_seats)>(total_seats/2);

```

/*output:

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

*/

-- 3:calculate total number of tickets for each event

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

/*output:

event_name	total_number
Conference CUP	27900
CSK vs RCB	22997
CSK vs RR	22990
Late Ms. Lata Mangeskar Musical	50

*/

-- 4:find customer who have not booked any ticket using a not exist subquery

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

/*output:

2	ronald weasley	ron@gmail.com	45454545
6	severus snape	sev@gmail.com	56556
7	frodo baggins	frodo@lotr.com	35454

*/

-- 5: list events with no ticket sale using NOT IN

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

/*
no data,empty
*/
```

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

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

/*output:
      id      event_name      tickets_sold
      1      Late Ms. Lata Mangeshkar Musical      50
      2      CSK vs RCB      73887
*/
```

-- 7. find events with ticket price higher than the average ticket price

```
select id,event_name,avg(ticket_price) as avg_ticketprice,ticket_price
from event
where ticket_price>(select avg(ticket_price) from event);

/*      id      event_name      avg_ticketprice      ticket_price
      4      Conference CUP      8000.0000      8000
*/
```

-- 8. list total revenue generated by events for each customer

```

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:

customer_name	total_revenue
harry potter	18640
hermione granger	34960
draco malfoy	10800
ginny weasley	32000

*/

-- 9 list customer who booked events in given venue

```

select *
from customer
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	ginny weasley	ginny@gmail.com	45454545

*/

-- 10 calculate total no of tickets sold for each category

```

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

```

/*output:

event_type	event_name	ticket_sold
concert	Late Ms. Lata Mangeshkar Musical	50

```
sports      CSK vs RCB      22997
*/
```

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

```
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;
```

```
/*      venue_name      Average_Ticket_price
      chennai      3500.0000
      mumbai      8000.0000
      pondicherry      600.0000
*/
```