```
TICKET_DB
use ticket_db;
select * from venue;
select * from customer;
select* from booking;
select * from event;
/*sub 5-12*/
/*task 2*/
Write a SQL query to list all Events.
*/
select * from event;
/* Write a SQL query to select events name partial match with 'cup'. */
select event_name from event where event_name like '%cup%';
/*Write a SQL query to retrieve events with dates falling within a specific range */
select event_name from event where event_date between '2021-09-12' and '2024-04-19';
/*Write a SQL query to retrieve customers in batches of 5, starting from the 6th user.
*/
select * from customer limit 1,3;
```

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/* Write a SQL query to retrieve customer information whose phone number end with '000'
*/
select * from customer where phone_number = '%000';
/*Write a SQL query to retrieve the events in order whose seat capacity more than 15000.*/
select total_seats from event where total_seats>1000 order by total_seats;
/*Write a SQL query to select events name not start with 'x', 'y', 'z'*/
select event_name from event where event_name LIKE '(c,l)%';
/* Multi Table Queries using Manual Mapping Technique
-- display list of events hosted by venue 'chennai'.*/
select e.event_name,v.venue_name from
event e join venue v On v.venue_id = e.venue_venue_id
having venue_name like 'chennai';
/*select customers that have booked tickes for event 'csk v rcb' game with id=5; */
select c.customer_name from customer c join booking b ON c.customer_id=b.customer_customer_id
where booking id='7';
/* display event details that have booking num tickets > 1000*/
select e.event_name from event e,booking b where num_tickets>2 and e.event_id=b.event_id;
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/*
       Display the names of venues visited by customer with email 'harry@gmail.com'
*/
select v.venue_name, v.address, c.customer_name
from venue v,booking b,event e,customer c
where v.id=e.venue_id AND
e.id = b.event_id AND
b.customer_id = c.id AND
c.email='harry@gmail.com';
/*task 3*/
/*
. Write a SQL query to List Venues and Their Average Ticket Prices.
- Write a SQL query to calculate the average Ticket Price for Events in Each Venue.
*/
select avg(e.ticket_price), e.event_name from event e, venue v where e.venue_venue_id=v.venue_id;
select avg(e.ticket_price),e.event_name from event e,venue v where e.venue_venue_id=v.venue_id
group by venue_name;
/*
       Write a SQL query to Calculate the Total Revenue Generated by Events.
*/
```

```
select SUM((total_seats - available_seats) * ticket_price) #We can perform arithmetic ops in select
statement
from event;
/*
Write a SQL query to 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;
/*
. Write a SQL query to Find Events with No Ticket Sales.
*/
select event_name from event where total_seats = available_seats;
/*
        Write a SQL query to list customer who have booked tickets for multiple events.
*/
select c.customer_name , count(c.id) as events_booked
from event e, customer c, booking b
where e.id = b.event_id AND
b.customer_id = c.id
group by c.customer_name
having events_booked>1;
```

```
/*Write a SQL query to list Users and the Total Number of Tickets They've Purchased in the
-- Last 30 Days.*/
select c.customer_name, SUM(b.num_tickets) as Number_Of_tickets
from event e JOIN booking b ON e.id = b.event_id JOIN customer c ON c.id = b.customer_id
where b.booking_date between DATE_SUB('2024-04-30',INTERVAL 30 DAY) and '2024-04-30'
group by c.customer_name;
/* display list of events hosted by venue 'chennai'.*/
select e.event_id,e.event_name,e.event_date,e.event_time,e.total_seats
from event e,venue v
where v.venue_id = e.venue_venue_id AND v.venue_name='chennai';
/*select customers that have booked tickes for event 'csk v rcb' game with id=5; */
select c.customer_name,email,phone_number
from customer c, booking b
where c.customer_id = b.customer_customer_id AND b.event_id=1;
/* NESTED QUERY */
```

select event\_id,event\_name from event where

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venue_venue_id IN (select venue_id from venue where venue_name ='chennai');
select customer_id,customer_name from customer where
customer_id IN (select customer_customer_id from booking where event_id IN (select event_id
from event where venue_venue_id IN (select venue_id from venue where venue_name='chennai')));
select event_id,event_name from event where event_type = 'sports'
and event_id IN (select event_id from booking where num_tickets > 1);
/* practice */
/*
1. Calculate the Average Ticket Price for Events in Each Venue Using a Subquery
*/
select * from event;
select event id,avg(ticket price) from event where venue venue id IN (select venue id from venue)
group by venue_venue_id;
/*
2. Find Events with More Than 50% of Tickets Sold using subquery.
*/
select event_name from event where event_id IN
(select event_id from event where (total_seats-available_seats)>(total_seats/2));
```

```
Q. Names of Customers who have visited venue 'chennai' using all three techniques(Nested Query).
*/
select id,customer_name
from customer
where id IN (select customer_id
                       from booking
                        where event_id IN (select id
                                                              from event
                 where venue_id IN (select id
from venue
                           where venue_name='chennai')));
-- Task 4: Subquery and its types
/*
1. Calculate the Average Ticket Price for Events in Each Venue Using a Subquery
*/
select venue_id,AVG(ticket_price) as Avg_Price
from event
where venue_id IN (select id from venue)
group by venue_id;
/*
2. Find Events with More Than 50% of Tickets Sold using subquery.
*/
select event_name
```

```
from event
where id IN ( select id
                        from event
       where (total_seats - available_seats) > (total_seats/2));
/*
3. Find Events having ticket price more than average ticket price of all events
*/
select event_name
from event
where ticket_price > (select avg(ticket_price) from event);
/*
4. Find Customers Who Have Not Booked Any Tickets Using a NOT EXISTS Subquery.
*/
insert into customer(customer_name,email,phone_number)
values ('severus snape', 'sev@gmail.com','56556');
select * from customer;
select customer_name
from customer
where NOT EXISTS (select distinct c.customer_name
                               from customer c join booking b ON b.customer_id = c.id);
select distinct c.customer_name
```

```
/*
Display customer details having email 'harry@gmail.com' provided this customer
has attended atleast 1 event.
*/
select *
from customer
where EXISTS (select distinct c.id
                        from customer c join booking b ON c.id=b.customer_id
       where c.email='harry@gmail.com')
AND email='harry@gmail.com';
select *
from customer
where EXISTS (select distinct c.id
                        from customer c join booking b ON c.id=b.customer_id
       where c.email='sev@gmail.com')
AND email='sev@gmail.com';
. Write a SQL query to Find Events with No Ticket Sales.
*/
select event_name from event where total_seats = available_seats;
/*
6. Calculate the Total Number of Tickets Sold for Each Event Type Using a Subquery in the FROM
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Clause.*/
select count(total_seats),event_id from event group by event_id;
select*from event;
/*7. Find Events with Ticket Prices Higher Than the Average Ticket Price Using a Subquery in the
WHERE Clause.*/
select event_id,event_name from event where ticket_price>
(select avg(ticket_price) from event);
/*8. Calculate the Total Revenue Generated by Events for Each User Using a Correlated Subquery.
9. List Users Who Have Booked Tickets for Events in a Given Venue Using a Subquery in the WHERE
Clause.*/
select (total_seats-available_seats)*ticket_price from event group by event_id;
select* from venue;
select event_id,customer_customer_id from booking where event_id in
(select event_id from event where venue_venue_id=2);
/*10. Calculate the Total Number of Tickets Sold for Each Event Category Using a Subquery with
GROUP BY.
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 sum(total_seats-available_seats), event_id from event group by event_id;
select customer_customer_id,DATE_FORMAT(booking_date, '%Y-%m') from booking;
SELECT venue_venue_id, AVG(ticket_price) AS avg_ticket_price
```

FROM event

GROUP BY venue\_venue\_id;