# Assignment - 5

# **Madiha Aimon Tappal**

## **Database Table:**

```
mysql> CREATE DATABASE BookingSystem;
Query OK, 1 row affected (0.01 sec)
mysql>
```

## 1. Venu Table

- venue\_id (Primary Key)
- venue\_name,
- address

```
    MySQL 8.0 Command Line Cli × + ✓
mysql> CREATE TABLE Customer (
-> customer_id INT PRIMARY KEY AUTO_INCREMENT,
-> customer_name VARCHAR(100),
-> email VARCHAR(100),
-> phone_number VARCHAR(20),
-> booking_id INT
-> );
Query OK, 0 rows affected (0.03 sec)
mysql> Describe Customer
 Field
                        | Type
                                              | Null | Key | Default | Extra
  customer_id
customer_name
email
                                                                    NULL
                          int
                                                                                   auto_increment
                          varchar(100)
                                                 YES
                                                                    NULL
                           varchar(100)
                                                                    NULL
NULL
  phone_number
booking_id
                          varchar(20)
int
                                                 YES
YES
5 rows in set (0.00 sec)
mysql> CREATE TABLE Venue (
-> venue_id INT PRIMARY KEY AUTO_INCREMENT,
-> venue_name VARCHAR(100),
-> address VARCHAR(255)
-> );
Query OK, 0 rows affected (0.03 sec)
mysql> Describe Venue;
  Field
                                          | Null | Key | Default | Extra
                                            NO
                                                       PRI
                                                                NULL
  venue_id
                                                                               auto_increment
                      int
                      varchar(100)
varchar(255)
  address
                                                               NULL
3 rows in set (0.00 sec)
mysql>|
```

#### 2. Event Table

- event\_id (Primary Key)
- · event name,
- event\_date DATE,
- event time TIME,
- venue\_id (Foreign Key),
- total seats,
- available\_seats,
- ticket\_price DECIMAL,
- event\_type ('Movie', 'Sports', 'Concert')
- booking\_id (Foreign Key)

```
MySQL 8.0 Command Line Cli × +
                                                  | Null | Key | Default | Extra
   Field
                        | Type
    venue_id
                           int
                                                                             NULL
                                                                                                auto_increment
                          varchar(100)
varchar(255)
    venue_name
                                                      YES
                                                                             NULL
                                                                             NULL
   address
                                                      YES
 3 rows in set (0.00 sec)
mysql> CREATE TABLE Event (
-> event_id INT PRIMARY KEY AUTO_INCREMENT,
-> event_name VARCHAR(100),
-> event_date DATE,
-> event_time TIME,
-> venue_id INT,
-> total_seats INT,
-> available_seats INT,
-> ticket_price DECIMAL(10, 2),
-> event_type ENUM('Movie', 'Sports', 'Concert'),
-> booking_id INT,
-> FOREIGN KEY (venue_id) REFERENCES Venue(venue_id));
Query OK, 0 rows affected (0.05 sec)
 mysql> Describe Event;
 | Field
                                 | Type
                                                                                                | Null | Key | Default | Extra
    event_id
                                    int
                                                                                                               PRI
                                                                                                                          NULL
                                                                                                                                            auto_increment
                                                                                                   YES
YES
YES
                                    varchar(100)
                                                                                                                         NULL
NULL
    event_name
    event_date
event_time
venue_id
                                    date
                                    time
                                                                                                                          NULL
                                                                                                   YES
                                                                                                               MUL
                                                                                                                          NULL
    total_seats
available_seats
                                                                                                                          NULL
                                                                                                  YES
YES
                                                                                                                         NULL
NULL
                                    int
                                   decimal(10,2)
enum('Movie','Sports','Concert')
    ticket_price
                                                                                                                          NULL
    event_type
    booking_id
                                                                                                                          NULL
 10 rows in set (0.00 sec)
 mysql>
```

#### 3. Customer Table

- customer\_id (Primary key)
- · customer name,
- email,
- phone number,
- booking\_id (Foreign Key)

```
MySQL 8.0 Command Line Cli ×
mysql> CREATE TABLE Customer (
-> customer_id INT PRIMARY KEY AUTO_INCREMENT,
-> customer_name VARCHAR(100),
-> email VARCHAR(100),
-> phone_number VARCHAR(20),
-> booking_id INT
-> );
Query OK, 0 rows affected (0.03 sec)
mysql> Describe Customer
  Field
                                                  | Null | Key |
                                                                          Default |
                          | Type
   customer_id
                                                     NO
YES
                                                                 PRT
                             int
                                                                          NULL
                                                                                           auto_increment
                            varchar(100)
varchar(100)
varchar(20)
int
                                                                          NULL
   customer_name
   email
                                                                          NULL
  phone_number
booking_id
                                                     YES
YES
                                                                          NULL
NULL
5 rows in set (0.00 sec)
mysql>
```

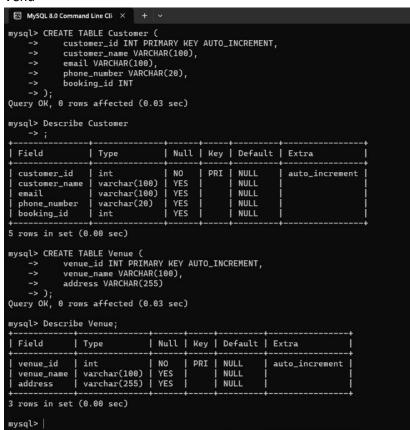
## 4. Booking Table

- booking id (Primary Key),
- customer\_id (Foreign Key),
- event id (Foreign Key),
- num\_tickets,
- total cost,
- booking\_date,

```
MySQL 8.0 Command Line Cli ×
-> );
Query OK, 0 rows affected (0.05 sec)
mysql> Describe Booking;
 Field
                            Null
                                  Key | Default |
               Type
                                                 Extra
  booking_id
               int
                             NO
                                   PRI
                                        NULL
                                                 auto_increment
  customer_id
                             YES
                                   MUL
                                        NULL
  event_id
                                        NULL
               int
  num_tickets
               int
                             YES
                                        NULL
               decimal(10,2)
  total_cost
                             YES
                                        NULL
                             YES
  booking_date
               date
                                        NULL
6 rows in set (0.00 sec)
mysql>
```

# <u>Task – 1:</u>

- 1. Create the database named "TicketBookingSystem"
- 2. Write SQL scripts to create the mentioned tables with appropriate data types, constraints, and relationships.
- Venu



#### Event

```
MySQL 8.0 Command Line Cli × +
                                              | Null | Key | Default | Extra
 Field
                      Type
    venue_id
                                                                       NULL
                                                                                       auto_increment
                        varchar(100)
varchar(255)
    venue_name
                                                 YES
                                                                       NULL
                                                 YES
                                                                      NULL
  address
3 rows in set (0.00 sec)
mysql> CREATE TABLE Event (

-> event_id INT PRIMARY KEY AUTO_INCREMENT,
-> event_name VARCHAR(100),
-> event_date DATE,
-> event_time TIME,
-> venue_id INT,
-> total_seats INT,
-> available_seats INT,
-> event_type ENUM('Movie', 'Sports', 'Concert'),
-> booking_id INT,
-> FOREIGN KEY (venue_id) REFERENCES Venue(venue_id));
Query OK, 0 rows affected (0.05 sec)
 mysql> Describe Event;
 | Field
                              | Type
                                                                                       | Null | Key | Default | Extra
   event_id
                                 int
                                                                                                     PRI
                                                                                                               NULL
                                                                                                                                auto_increment
                                 varchar(100)
                                                                                          YES
YES
   event_name
                                                                                                               NULL
                                                                                                               NULL
   event_date
                                 date
    event_time
                                                                                                               NULL
                                 time
    venue_id
                                                                                          YES
                                                                                                     MUL
                                                                                                               NULL
   total_seats
available_seats
                                 int
                                                                                                               NULL
                                                                                          YES
YES
                                                                                                               NULL
                                 int
                                decimal(10,2)
enum('Movie','Sports','Concert')
                                                                                                               NULL
    ticket_price
    event_type
                                                                                          YES
    booking_id
                                                                                          YES
                                                                                                               NULL
10 rows in set (0.00 sec)
mysql>
```

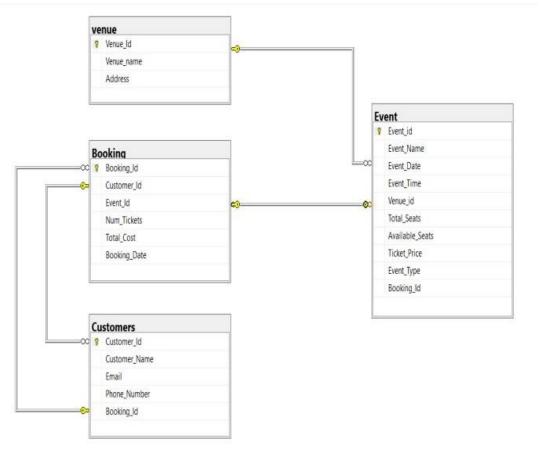
## Customers

```
MySQL 8.0 Command Line Cli ×
mysql> CREATE TABLE Customer (
             customer_id INT PRIMARY KEY AUTO_INCREMENT,
customer_name VARCHAR(100),
email VARCHAR(100),
phone_number VARCHAR(20),
              booking_id INT
-> );
Query OK, 0 rows affected (0.03 sec)
mysql> Describe Customer
| Field
                    | Type
                                       | Null | Key | Default | Extra
  customer_id
                                                  PRI
                                                          NULL
                      int
                                         NO
                                                                       auto_increment
                      varchar(100)
varchar(100)
                                         YES
                                                          NULL
  customer_name
                                         YES
  email
                                                          NULL
  phone_number
                      varchar(20)
                                         YES
                                                          NULL
  booking_id
                                         YES
                                                          NULL
                      int
5 rows in set (0.00 sec)
mysql>|
```

Booking

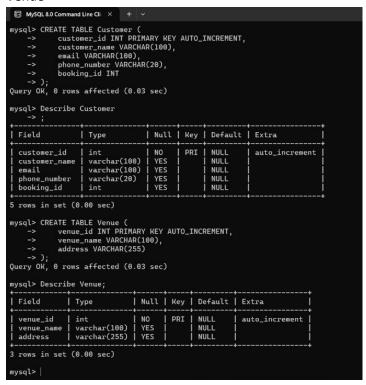
```
MySQL 8.0 Command Line Cli × + ∨
mysql> CREATE TABLE Booking (
    -> booking_id INT PRIMARY KEY AUTO_INCREMENT,
    -> customer_id INT,
    -> event_id INT,
    -> num_tickets INT,
    -> total_cost DECIMAL(10, 2),
    -> booking_id INT,
      -> booking_date DATE,
-> FOREIGN KEY (customer_id) REFERENCES Customer(customer_id),
-> FOREIGN KEY (event_id) REFERENCES Event(event_id)
-> );
Query OK, 0 rows affected (0.05 sec)
mysql> Describe Booking;
 Field
                                                  | Null | Key |
                                                                          Default | Extra
                         Type
   booking_id
                           int
                                                     NO
                                                                PRI
                                                                          NULL
                                                                                          auto_increment
   customer_id
event_id
num_tickets
                                                     YES
YES
                           int
                                                                MUL
                                                                          NULL
                           int
                                                                MUL
                                                                          NULL
                           int
                                                     YES
                                                                          NULL
   total_cost
                           decimal(10,2)
                                                                          NULL
                                                     YES
   booking_date
                           date
                                                                          NULL
6 rows in set (0.00 sec)
mysql>|
```

3. Create an ERD (Entity Relationship Diagram) for the database.



4. Create appropriate Primary Key and Foreign Key constraints for referential integrity.

#### 1. Venue



#### 2. Event

```
MySQL 8.0 Command Line Cli ×
 | Field
                                                   | Null | Key | Default | Extra
                        Type
                                                     NO
YES
                                                                             NULL
NULL
    venue_id
                                                                   PRI
                                                                                                auto_increment
                        | varchar(100)
| varchar(255)
    venue_name
                                                      YES
                                                                              NULL
 3 rows in set (0.00 sec)
mysql> CREATE TABLE Event (

-> event_id INT PRIMARY KEY AUTO_INCREMENT,
-> event_name VARCHAR(100),
-> event_date DATE,
-> event_time TIME,
-> venue_id INT,
-> total_seats INT,
-> available_seats INT,
-> ticket_price DECIMAL(10, 2),
-> event_type ENUM('Movie', 'Sports', 'Concert'),
-> booking_id INT,
-> FOREIGN KEY (venue_id) REFERENCES Venue(venue_id));
Query OK, 0 rows affected (0.05 sec)
 mysql> Describe Event;
 | Field
                                 | Type
                                                                                                | Null | Key | Default | Extra
    event_id
                                    int
                                                                                                   NO
                                                                                                                PRI
                                                                                                                           NULL
                                                                                                                                             auto_increment
                                    varchar(100)
                                                                                                    YES
                                                                                                                           NULL
    event_name
                                                                                                   YES
YES
                                                                                                                           NULL
NULL
    event_date
                                    date
   event_time
venue_id
                                    time
                                                                                                                MUL
                                                                                                                           NULL
                                                                                                   YES
                                                                                                                          NULL
NULL
    total_seats
available_seats
                                    int
                                    int
                                    decimal(10,2)
enum('Movie','Sports','Concert')
    ticket_price
                                                                                                                           NULL
    event_type
booking_id
                                                                                                   YES
YES
                                                                                                                           NULL
 10 rows in set (0.00 sec)
 mysql>
```

#### 3. Customer

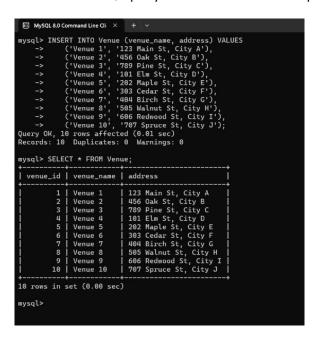
```
    MySQL 8.0 Command Line Cli × + ✓
mysql> CREATE TABLE Customer (
             customer_id INT PRIMARY KEY AUTO_INCREMENT,
customer_name VARCHAR(100),
email VARCHAR(100),
phone_number VARCHAR(20),
              booking_id INT
-> );
Query OK, 0 rows affected (0.03 sec)
mysql> Describe Customer
| Field
                                       | Null | Key | Default | Extra
                    Type
                                                                       auto_increment
  customer_id
                      int
                                          NO
                                                  PRI
                                                          NULL
                      varchar(100)
varchar(100)
  customer_name
                                          YES
                                                          NULL
  email
                                          YES
                                                          NULL
  phone_number
                      varchar(20)
                                          YES
                                                          NULL
  booking_id
                                          YES
                      int
                                                          NULL
5 rows in set (0.00 sec)
mysql>
```

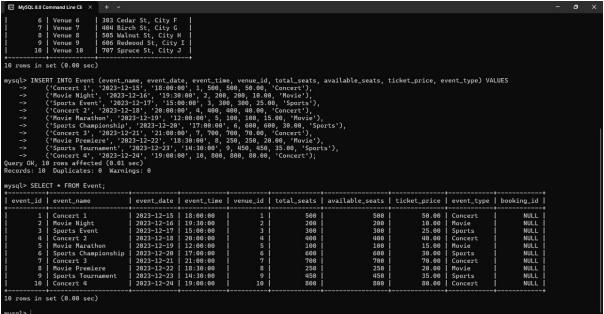
## 4. Booking

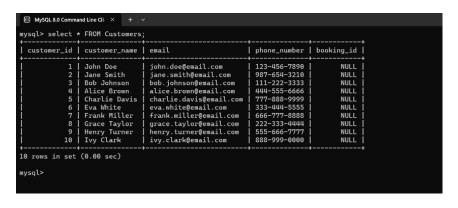
```
MySQL 8.0 Command Line Cli ×
-> );
Query OK, 0 rows affected (0.05 sec)
mysql> Describe Booking;
| Field
              | Type
                             | Null | Key | Default | Extra
  booking_id
customer_id
                               NO
                                     PRI
                                          NULL
                                                    auto_increment
                int
                              YES
YES
YES
                                     MUL
                                          NULL
                int
  event_id
                int
                                     MUL
                                          NULL
  num_tickets
                int
                                          NULL
  total_cost
                decimal(10,2)
                              YES
                                          NULL
  booking_date
                              YES
                                          NULL
               date
6 rows in set (0.00 sec)
mysql>
```

## Task-2:

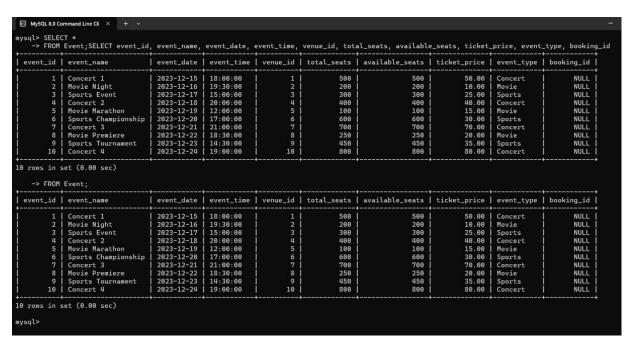
1. Write a SQL query to insert at least 10 sample records into each table.



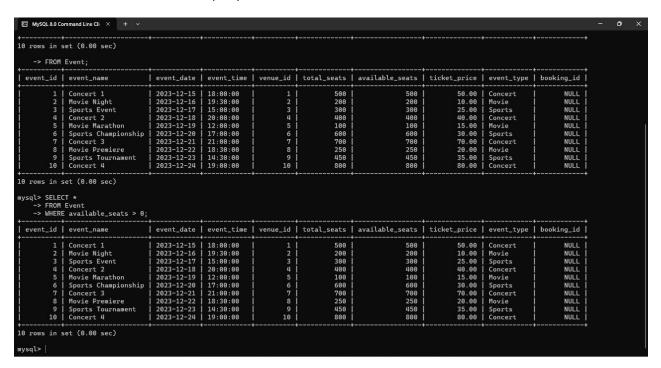




# 2. Write a SQL query to list all Events.



3. Write a SQL query to select events with available tickets.



4. Write a SQL query to select events name partial match with 'cup'.

```
mysql 8.0 Command Line Cli × + v

mysql> SELECT *
    -> FROM Event
    -> WHERE event_name LIKE '%cup%';
Empty set (0.00 sec)

mysql>
```

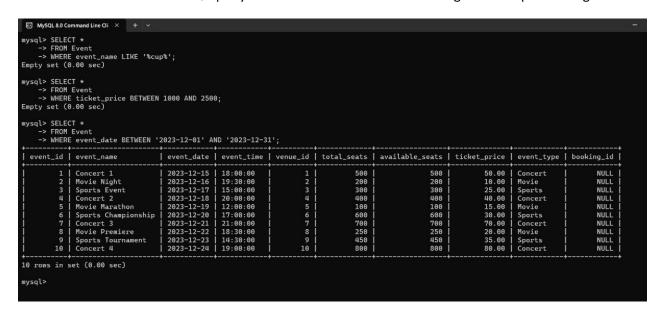
5. Write a SQL query to select events with ticket price range is between 1000 to 2500.

```
mysql> SELECT *
-> FROM Event
-> WHERE event_name LIKE '%cup%';
Empty set (0.00 sec)

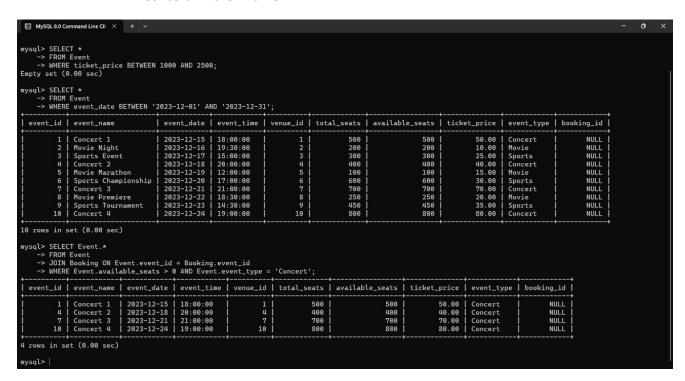
mysql> SELECT *
-> FROM Event
-> WHERE ticket_price BETWEEN 1000 AND 2500;
Empty set (0.00 sec)

mysql>
```

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



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



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

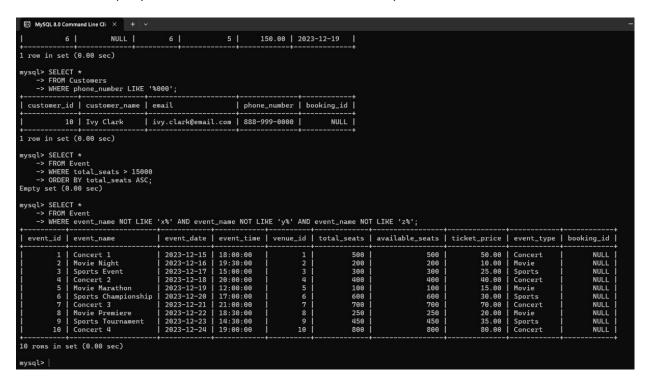
10. Write a SQL guery to retrieve customer information whose phone number end with '000'

```
mysql> SELECT Booking.booking_id, Booking.customer_id, Booking.event_id, Booking.num_tickets, Booking.total_cost, Booking_booking_date
     -> FROM Booking
-> JOIN Event ON Booking.event_id = Event.event_id
-> WHERE Booking.num_tickets > 4;
  booking_id | customer_id | event_id | num_tickets | total_cost | booking_date
                                                        5 |
                                                                 150.00 | 2023-12-19
            6 I
                         NULL I
1 row in set (0.00 sec)
mysql> SELECT *
-> FROM Customers
-> WHERE phone_number LIKE '%000';
  customer_id | customer_name | email
                                                            | phone_number | booking_id |
                                  | ivy.clark@email.com | 888-999-0000
            10 | Ivy Clark
                                                                                      NULL I
1 row in set (0.00 sec)
mysql>
```

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

```
MySQL 8.0 Command Line Cli ×
mysql> SELECT Booking.booking_id, Booking.customer_id, Booking.event_id, Booking.num_tickets, Booking.total_cost, Booking.booking_date
-> FROM Booking
-> JOIN Event ON Booking.event_id
-> WHERE Booking.num_tickets > 4;
| booking_id | customer_id | event_id | num_tickets | total_cost | booking_date |
                                                                  5 |
                                                                             150.00 | 2023-12-19
              6 |
                                               6 |
1 row in set (0.00 sec)
mysql> SELECT *
    -> FROM Customers
-> WHERE phone_number LIKE '%000';
  customer_id | customer_name | email
              10 | Ivy Clark
                                        | ivy.clark@email.com | 888-999-0000 |
1 row in set (0.00 sec)
mysql> SELECT *
-> FROM Event
-> WHERE total_seats > 15000
-> ORDER BY total_seats ASC;
Empty set (0.00 sec)
mysql>
```

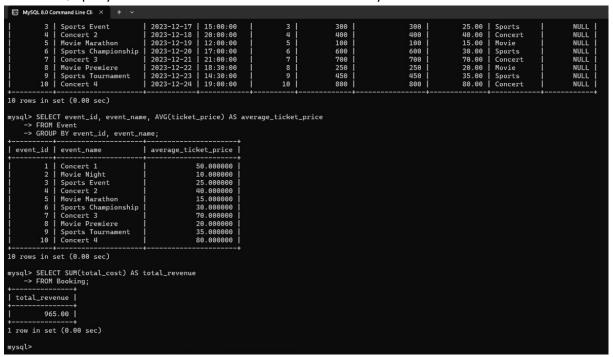
12. Write a SQL query to select events name not start with 'x', 'y', 'z'



# **Task-3**:

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

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



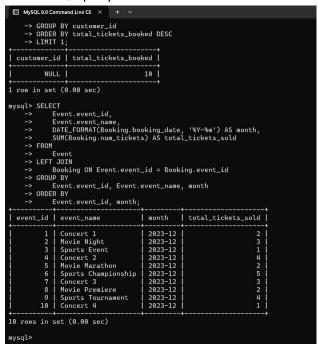
3. Write a SQL query to find the event with the highest ticket sales.

4. Write a SQL query to Calculate the Total Number of Tickets Sold for Each Event.

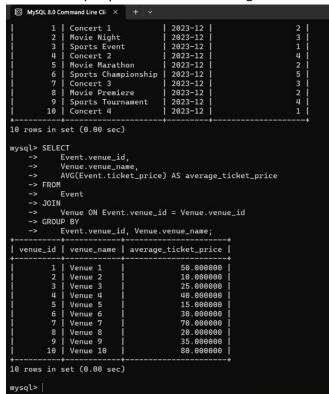
5. Write a SQL query to Find Events with No Ticket Sales.

6. Write a SQL query to Find the User Who Has Booked the Most Tickets.

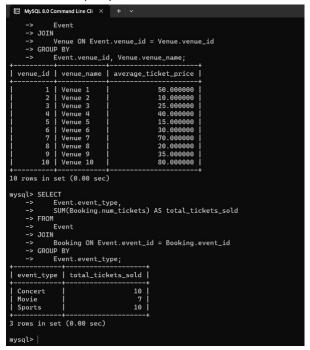
7. Write a SQL query to List Events and the total number of tickets sold for each month.



8. Write a SQL query to calculate the average Ticket Price for Events in Each Venue.



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



10. Write a SQL query to calculate the total Revenue Generated by Events in Each Year.

```
MySQL 8.0 Command Line Cli ×
                                             35.000000 |
80.000000
         9 | Venue 9
10 | Venue 10
10 rows in set (0.00 sec)
mysql> SELECT
             Event.event_type,
SUM(Booking.num_tickets) AS total_tickets_sold
    -> FROM
    -> JOIN
    -> BOOM
-> GROUP BY
-> Event.event_type;
             Booking ON Event.event_id = Booking.event_id
  event_type | total_tickets_sold |
                                     10 |
7 |
10 |
  Concert
  Movie
Sports
3 rows in set (0.00 sec)
mvsal> SELECT
             YEAR(Event.event_date) AS year,
SUM(Booking.total_cost) AS total_revenue
    -> FROM
             Event
    -> JOIN
             .
Booking ON Event.event_id = Booking.event_id
    -> GROUP BY
-> YEAR(Event.event_date);
  year | total_revenue |
  2023 |
                   965.00
1 row in set (0.00 sec)
mysql>|
```

11. Write a SQL query to list users who have booked tickets for multiple events.

12. Write a SQL query to calculate the Total Revenue Generated by Events for Each User.

```
MySQL 8.0 Command Line Cli ×
             Booking ON Event.event_id = Booking.event_id
     -> GROUP BY
-> YEAR(Event.event_date);
  year | total_revenue |
  2023 | 965.00 |
1 row in set (0.00 sec)
mysql> SELECT
            customer_id,
COUNT(DISTINCT event_id) AS num_events_booked
     -> FROM
-> Booking
-> GROUP BY
     -> customer_id
-> HAVING
            num_events_booked > 1;
  customer_id | num_events_booked |
         NULL |
                                     10 |
1 row in set (0.00 sec)
mysql> SELECT
            Booking.customer_id,
Customers.customer_name,
SUM(Booking.total_cost) AS total_revenue
     -> FROM
    -> Booking
-> JOIN
     -> Customers ON Booking.customer_id = Customers.customer_id -> GROUP BY
-> GROUP BY
-> Booking.customer_id, Customers.customer_name;
Empty set (0.00 sec)
mysql>
```

13. Write a SQL query to calculate the Average Ticket Price for Events in Each Category and Venue.

```
MySQL 8.0 Command Line Cli × + ~
 1 row in set (0.00 sec)
mysql> SELECT
-> Booking.customer_id,
                 Customers.customer_name,
SUM(Booking.total_cost) AS total_revenue
       -> FROM
      -> E
                  .
Booking
                  Customers ON Booking.customer_id = Customers.customer_id
-> Customers ON Booking.customer_id = Customers.
-> GROUP BY
-> Booking.customer_id, Customers.customer_name;
Empty set (0.00 sec)
 mysql> SELECT
                  event_type,
                 vente_speq
venue_id,
AVG(ticket_price) AS average_ticket_price
       -> FROM
-> Event
      -> Event
-> GROUP BY
-> event_type, venue_id;
-> event_type, venue_id | averag
 event_type | venue_id | average_ticket_price |
                                                           50.000000
10.000000
25.000000
40.000000
15.000000
70.000000
70.000000
   Sports
Concert
Movie
Sports
    Concert
Movie
Sports
Concert
                                                            20.000000
35.000000
80.000000
 10 rows in set (0.00 sec)
mysql>
```

14. Write a SQL query to list Users and the Total Number of Tickets They've Purchased in the Last 30 Days.

```
MySQL 8.0 Command Line Cli × + ∨
mysql> SELECT
             event_type,
             venue_id,
AVG(ticket_price) AS average_ticket_price
    -> FROM
            Event
    -> GROUP BY
            event_type, venue_id;
  event_type | venue_id | average_ticket_price |
  Concert
                                            50.000000
10.000000
25.000000
40.000000
30.000000
70.000000
20.000000
  Movie
Sports
  Concert
  Movie
Sports
  Concert
  Movie
 Sports
Concert
                                            35.000000
80.000000
10 rows in set (0.00 sec)
mysql> SELECT
             Customers.customer_id,
            Customers.customer_name,
COUNT(Booking.booking_id) AS total_tickets_purchased
    -> FROM
             Customers
            Booking ON Customers.customer_id = Booking.customer_id
    -> WHERE
             Booking.booking_date >= CURDATE() - INTERVAL 30 DAY
    -> GROUP BY
-> Customers.customer_id, Customers.customer_name;
Empty set (0.00 sec)
mysql> |
```

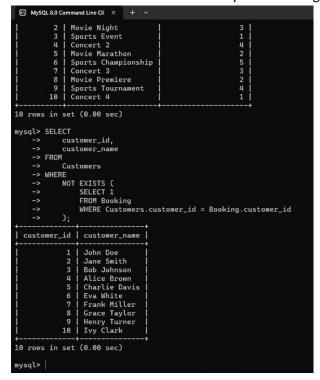
# <u>Task – 4:</u>

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

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

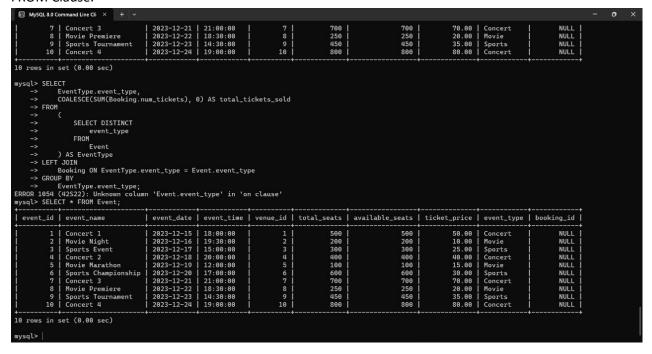
3. Calculate the Total Number of Tickets Sold for Each Event.

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



5. List Events with No Ticket Sales Using a NOT IN Subquery.

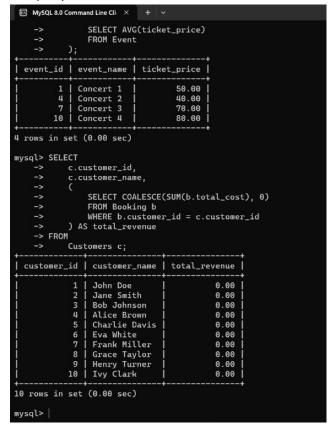
6. Calculate the Total Number of Tickets Sold for Each Event Type Using a Subquery in the FROM Clause.



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

```
ERROR 1054 (42522): Unknown column 'Event.event_type' in 'on clause'
mysql> SELECT * FROM Event;
      event_id | event_name
                                                                                                                                                                                                                           | available_seats | ticket_price | event_type | booking_id |
                           Concert 1
Hovie Night
Sports Event
Concert 2
Movie Marathon
Sports Championship
Concert 3
Hovie Premiere
Sports Tournament
Concert 4
                                                                                                                       18:00:00
19:30:00
15:00:00
20:00:00
12:00:00
17:00:00
21:00:00
18:30:00
14:30:00
19:00:00
                                                                                          2023-12-15
2023-12-16
2023-12-17
2023-12-18
2023-12-19
2023-12-21
2023-12-21
2023-12-22
2023-12-23
2023-12-24
                                                                                                                                                                                                                                                                                                  50.00
10.00
25.00
40.00
15.00
30.00
70.00
20.00
35.00
80.00
                                                                                                                                                                                                                                                                                                                      Concert
Movie
Sports
Concert
Movie
Sports
Concert
Movie
Sports
Concert
Concert
                                                                                                                                                                                                                500
200
300
400
100
600
700
250
450
800
                                                                                                                                                                                                                                                                500
200
300
400
100
600
700
250
450
800
                                                                                                                                                                                                                                                                                                                                                                         NULL
NULL
NULL
NULL
NULL
NULL
NULL
                                                                                                                                                                                                                                                                                                                                                                         NULL
10 rows in set (0.00 sec)
 mysql> SELECT
-> event_id,
-> event_name,
-> ticket_price
        -> event.
-> event.
-> ticket
-> FROM
-> Event
-> WHERE
-> ticket
-> SE
                            ticket_price > (
SELECT AVG(ticket_price)
FROM Event
     rows in set (0.00 sec)
```

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.

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

```
MySQL 8.0 Command Line Cli × + ~
-> SELECT 1
-> FROM Booking b
-> JOIN Event e ON b.event_id = e.event_id
-> WHERE b.customer_id = c.customer_id
-> AND e.venue_id = '1');
Empty set (0.00 sec)
mysql> SELECT
                 CV
Event.event_type,
COALESCE(Subquery.total_tickets_sold, 0) AS total_tickets_sold
     -> Event
-> Event
-> LEFT JOIN (
-> SELECT
-> event
                     event_type,
SUM(Booking.num_tickets) AS total_tickets_sold
                 FROM
      ^ ^ ^ ^ ^
                 Event
JOIN
                 Booking ON Event.event_id = Booking.event_id GROUP BY
      -> event_type
-> ) AS Subquery ON Event.event_type = Subquery.event_type;
   event_type | total_tickets_sold |
   Concert
Movie
                                                  10 |
7 |
10 |
10 |
7 |
10 |
10 |
7 |
   Sports
Concert
Movie
Sports
Concert
   Movie
Sports
Concert
                                                  10 |
10 |
10 rows in set (0.00 sec)
 mysql>
```

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