## Name: R. Surya prakash

## **Assignment 5**

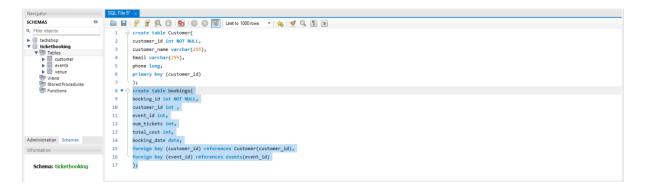
# Tasks 1: Database Design:

1. Create the database named "Ticket Booking System".

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- 2. Write SQL scripts to create the mentioned tables with appropriate data types, constraints, and relationships.
  - 1. Venue 2. Event 3. Customers 4. Booking





## Tasks 2: Select, Where, Between, AND, LIKE:

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

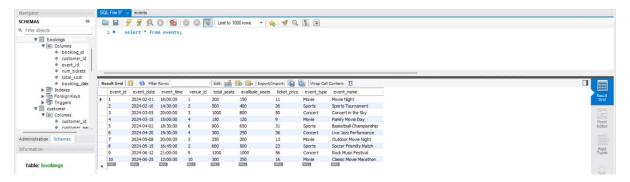
#### 2.events

#### 3.Customer

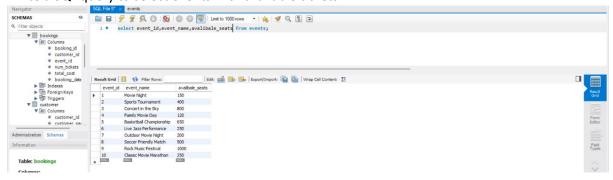
### 4.Bookings

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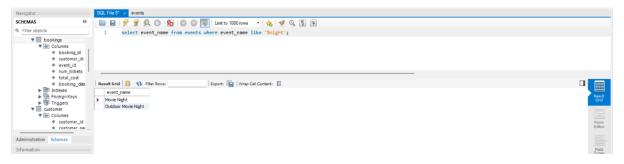
2. Write a SQL query to list all Events.



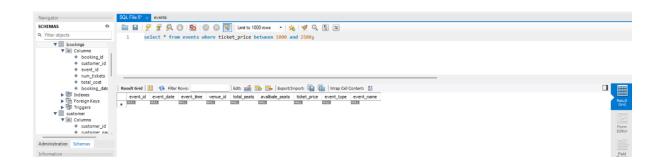
3. Write a SQL query to select events with available tickets.



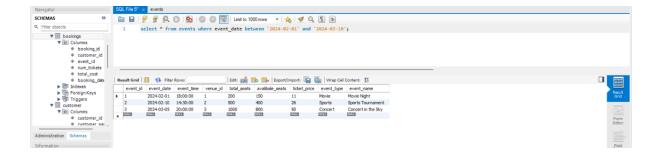
4. Write a SQL query to select events name partial match with 'cup'.



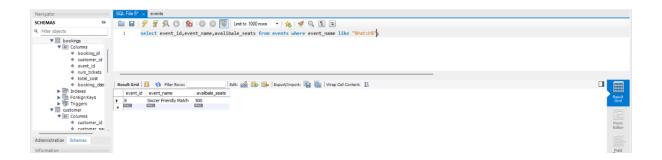
5. Write a SQL query to select events with ticket price range is between 1000 to 2500.



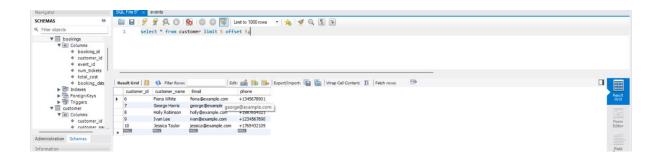
6. Write a SQL query to retrieve events with dates falling within a specific range.



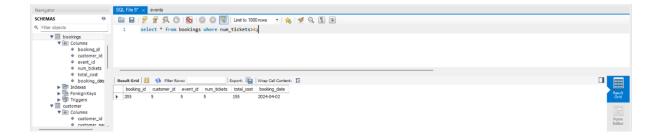
7. Write a SQL query to retrieve events with available tickets that also have "Concert" in their name.



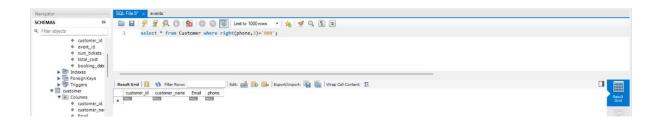
8. Write a SQL query to retrieve users in batches of 5, starting from the 6th user.



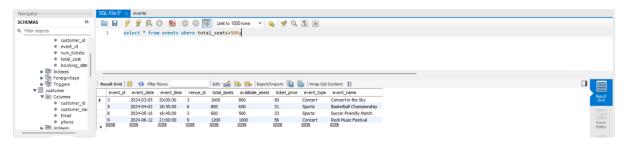
9. Write a SQL query to retrieve bookings details contains booked no of ticket more than 4.



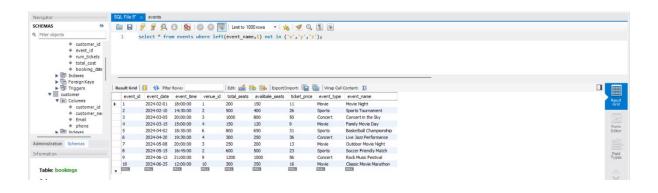
10. Write a SQL query to retrieve customer information whose phone number end with '000'



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

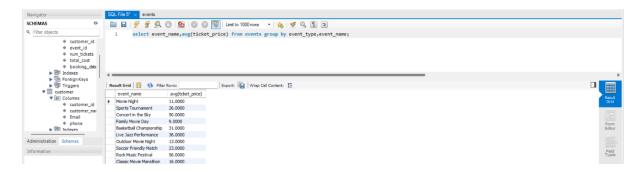


12. Write a SQL query to select events name not start with 'x', 'y', 'z'

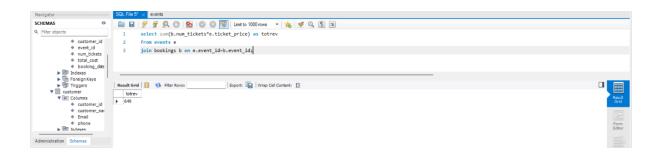


### Tasks 3: Aggregate functions, Having, Order By, GroupBy and Joins:

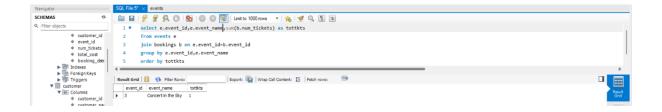
1. Write a SQL query to List Events and Their Average Ticket Prices.



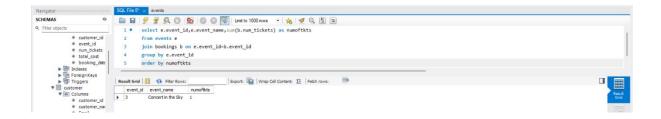
2. Write a SQL query to Calculate the Total Revenue Generated by Events.



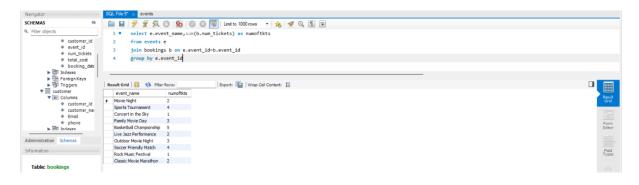
3. Write a SQL query to find the event with the highest ticket sales.



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



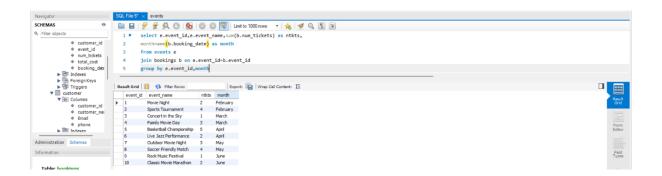
5. Write a SQL query to Find Events with No Ticket Sales.



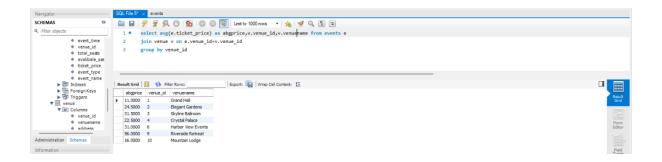
6. Write a SQL query to Find the User Who Has Booked the Most Tickets.



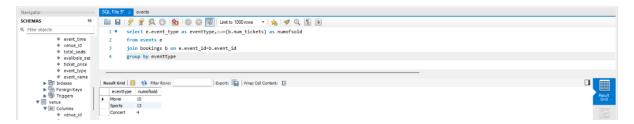
7. Write a SQL query to List Events and the total number of tickets sold for each month.



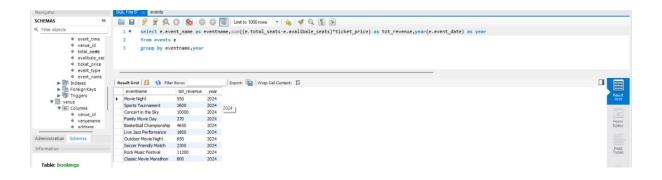
8. Write a SQL query to calculate the average Ticket Price for Events in Each Venue.



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

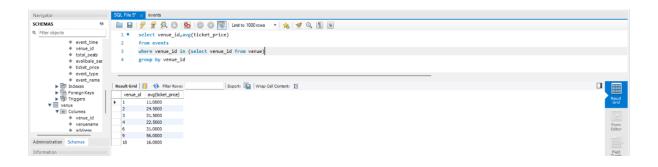


10. Write a SQL query to calculate the total Revenue Generated by Events in Each Year.

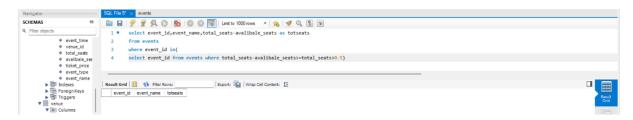


# Tasks 4: Subquery and its types

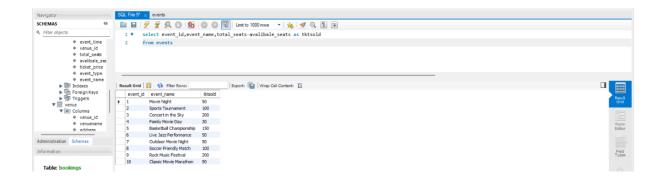
1. Calculate the Average Ticket Price for Events in Each Venue Using a Subquery.



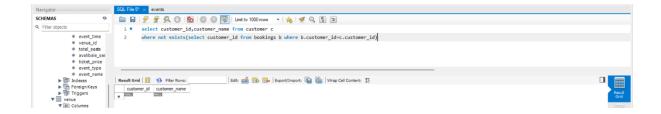
2. Find Events with More Than 50% of Tickets Sold using subquery.



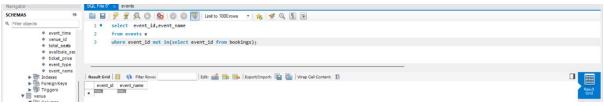
3. Calculate the Total Number of Tickets Sold for Each Event.



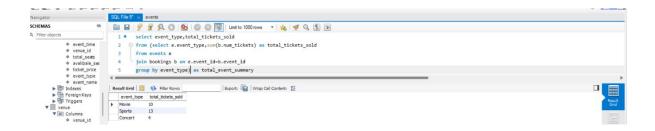
4. Find Users Who Have Not Booked Any Tickets Using a NOT EXISTS Subquery.



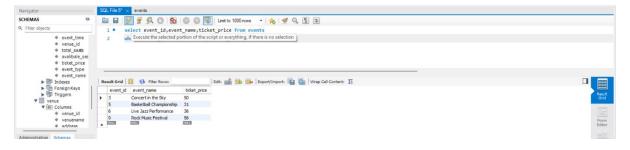
5. List Events with No Ticket Sales Using a NOT IN Subquery.



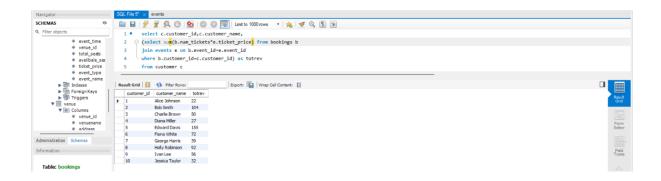
6. Calculate the Total Number of Tickets Sold for Each Event Type Using a Subquery in the FROM Clause.



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



8. Calculate the Total Revenue Generated by Events for Each User Using a Correlated Subquery.



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

