**Ticket Booking System**

**TASK-1**

**1. Create the database named "TicketBookingSystem".**

create database TicketBookingSystem

use TicketBookingSystem

**2. Write SQL scripts to create the mentioned tables**

--To create Venue table

create table tbl\_venue (

venue\_id int primary key,

venue\_name varchar(100),

address varchar(100)

);

--To create Event table

create table tbl\_event (

event\_id int primary key,

event\_name varchar(100),

event\_date date,

event\_time time,

venue\_id int foreign key references tbl\_venue(venue\_id),

total\_seats int,

available\_seats int,

ticket\_price decimal(10,2),

event\_type varchar(50) check (event\_type in ('movie', 'sports', 'concert'))

);

--To create Customer table

create table tbl\_customer (

customer\_id int primary key,

customer\_name varchar(50),

email varchar(50),

phone\_number varchar(20)

)

--To create Booking table

create table tbl\_booking (

booking\_id int primary key,

customer\_id int foreign key references tbl\_customer(customer\_id),

event\_id int foreign key references tbl\_event(event\_id),

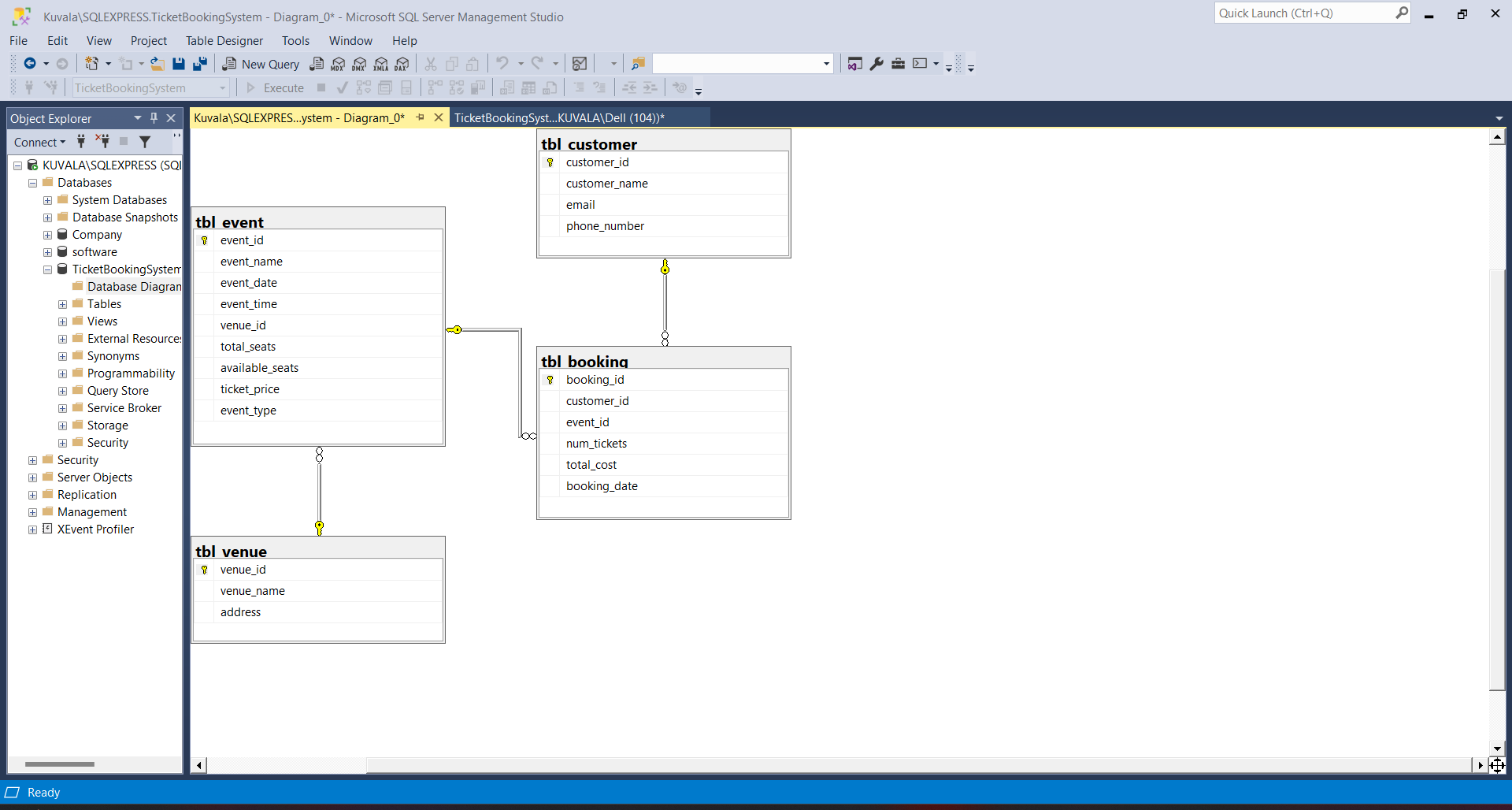
num\_tickets int,

total\_cost decimal(10,2),

booking\_date date

);

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



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

alter table tbl\_event

add constraint fk\_event\_venue

foreign key (venue\_id) references tbl\_venue(venue\_id);

alter table tbl\_event

add constraint fk\_event\_booking

foreign key (booking\_id) references tbl\_booking(booking\_id);

alter table tbl\_customer

add constraint fk\_customer\_booking

foreign key (booking\_id) references tbl\_booking(booking\_id);

alter table tbl\_booking

add constraint fk\_booking\_customer

foreign key (customer\_id) references tbl\_customer(customer\_id);

alter table tbl\_booking

add constraint fk\_booking\_event

foreign key (event\_id) references tbl\_event(event\_id);

**TASK-2**

**Q1.Write a SQL query to insert at least 10 sample records into each table.**

**--Venue table**

insert into tbl\_venue (venue\_id, venue\_name, address) values

(1, 'City Hall', 'MG Road, Bengaluru'),

(2, 'Grand Arena', 'Marine Drive, Mumbai'),

(3, 'Sunset Park', 'Gachibowli, Hyderabad'),

(4, 'Ocean Center', 'RK Beach, Visakhapatnam'),

(5, 'Green Garden', 'Lodhi Road, New Delhi'),

(6, 'Tech Hub', 'Hinjewadi, Pune'),

(7, 'Royal Theatre', 'Park Street, Kolkata'),

(8, 'Sky Dome', 'Anna Salai, Chennai'),

(9, 'Cultural Center', 'Sector 17, Chandigarh'),

(10, 'Mega Grounds', 'Bistupur, Jamshedpur');

**--Event table**

insert into tbl\_event (event\_id, event\_name, event\_date, event\_time, venue\_id, total\_seats, available\_seats, ticket\_price, event\_type) values

(101, 'Rock Concert', '2025-04-10', '18:00', 2, 500, 300, 50.00, 'Concert'),

(102, 'Football Match', '2025-05-01', '16:00', 10, 1000, 800, 75.00, 'Sports'),

(103, 'Movie Night', '2025-03-25', '20:00', 1, 200, 150, 15.00, 'Movie'),

(104, 'Drama Play', '2025-04-15', '19:00', 7, 300, 100, 25.00, 'Concert'),

(105, 'Cricket Match', '2025-06-05', '14:00', 10, 1500, 1000, 80.00, 'Sports'),

(106, 'Jazz Night', '2025-04-20', '21:00', 4, 250, 50, 40.00, 'Concert'),

(107, 'Tech Expo', '2025-05-15', '10:00', 6, 600, 400, 20.00, 'Concert'),

(108, 'Indie Film', '2025-03-30', '18:30', 1, 150, 50, 12.00, 'Movie'),

(109, 'Basketball Game', '2025-04-22', '17:00', 10, 900, 600, 70.00, 'Sports'),

(110, 'Cultural Show', '2025-05-10', '19:30', 9, 400, 300, 30.00, 'Concert');

**--Customer table**

insert into tbl\_customer (customer\_id, customer\_name, email, phone\_number) VALUES

(1, 'Dharshini', 'dharshini@gmail.com', '6655443322'),

(2, 'Akshay', 'akshay@gmail.com', '8765432109'),

(3, 'Naveen', 'naveen@gmail.com', '6543210987'),

(4, 'Priya', 'priya@gmail.com', '7432109876'),

(5, 'Dhanashree', 'dhanashree@gmail.com', '7321098765'),

(6, 'Sharon Benny', 'sharon@gmail.com', '7210987654'),

(7, 'Karnika', 'karnika@gmail.com', '0109876543'),

(8, 'Abdhul', 'abdhul@gmail.com', '9098765432'),

(9, 'Nilofur', 'nilofur@gmail.com', '9988776655'),

(10, 'Dheva', 'dheva@gmail.com', '8877665544');

**--Booking table**

insert into tbl\_booking (booking\_id, customer\_id, event\_id, num\_tickets, total\_cost, booking\_date) values

(201, 1, 101, 2, 100.00, '2025-03-01'),

(202, 2, 102, 4, 300.00, '2025-03-05'),

(203, 3, 103, 3, 45.00, '2025-03-10'),

(204, 4, 104, 2, 50.00, '2025-03-12'),

(205, 5, 105, 5, 400.00, '2025-03-15'),

(206, 6, 106, 1, 40.00, '2025-03-18'),

(207, 7, 107, 2, 40.00, '2025-03-20'),

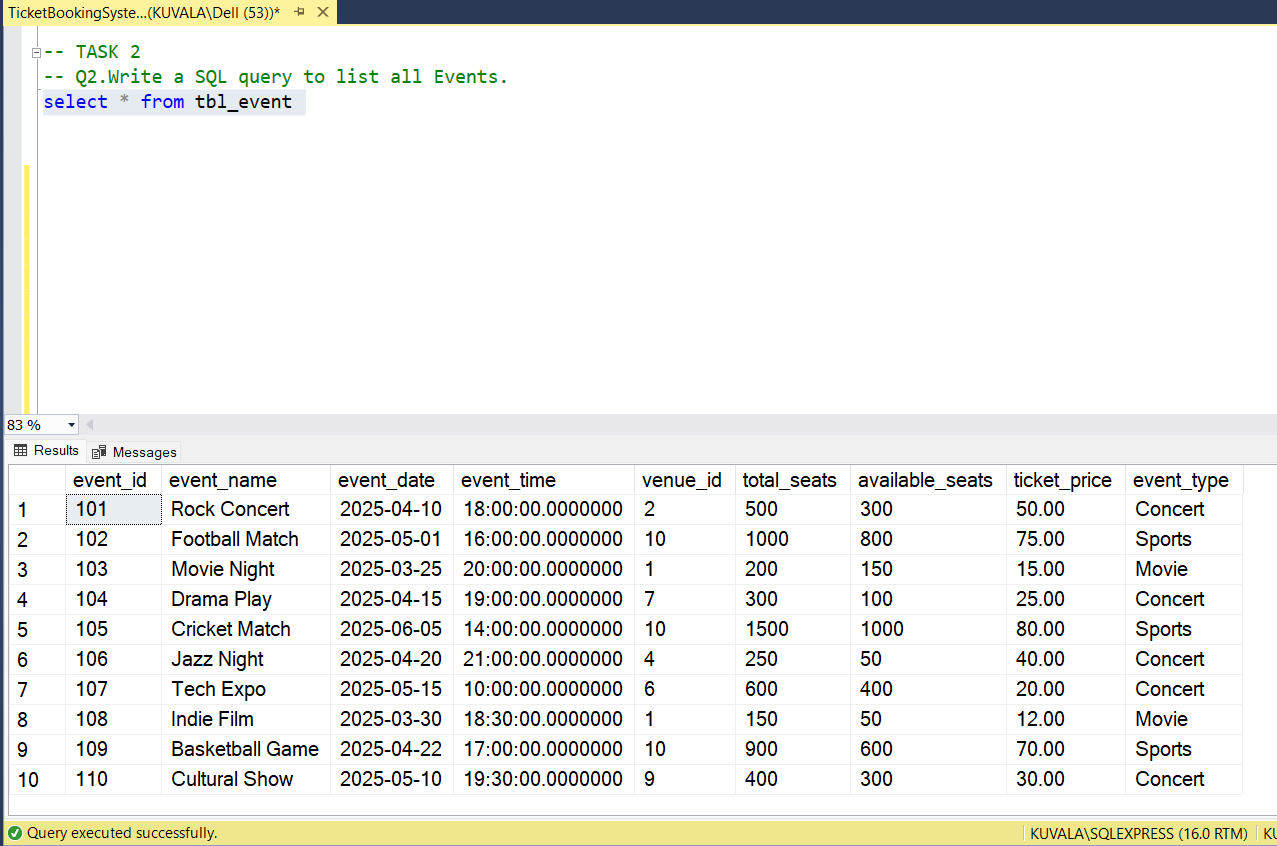
(208, 8, 108, 4, 48.00, '2025-03-22'),

(209, 9, 109, 3, 210.00, '2025-03-24'),

(210, 10, 110, 2, 60.00, '2025-03-26');

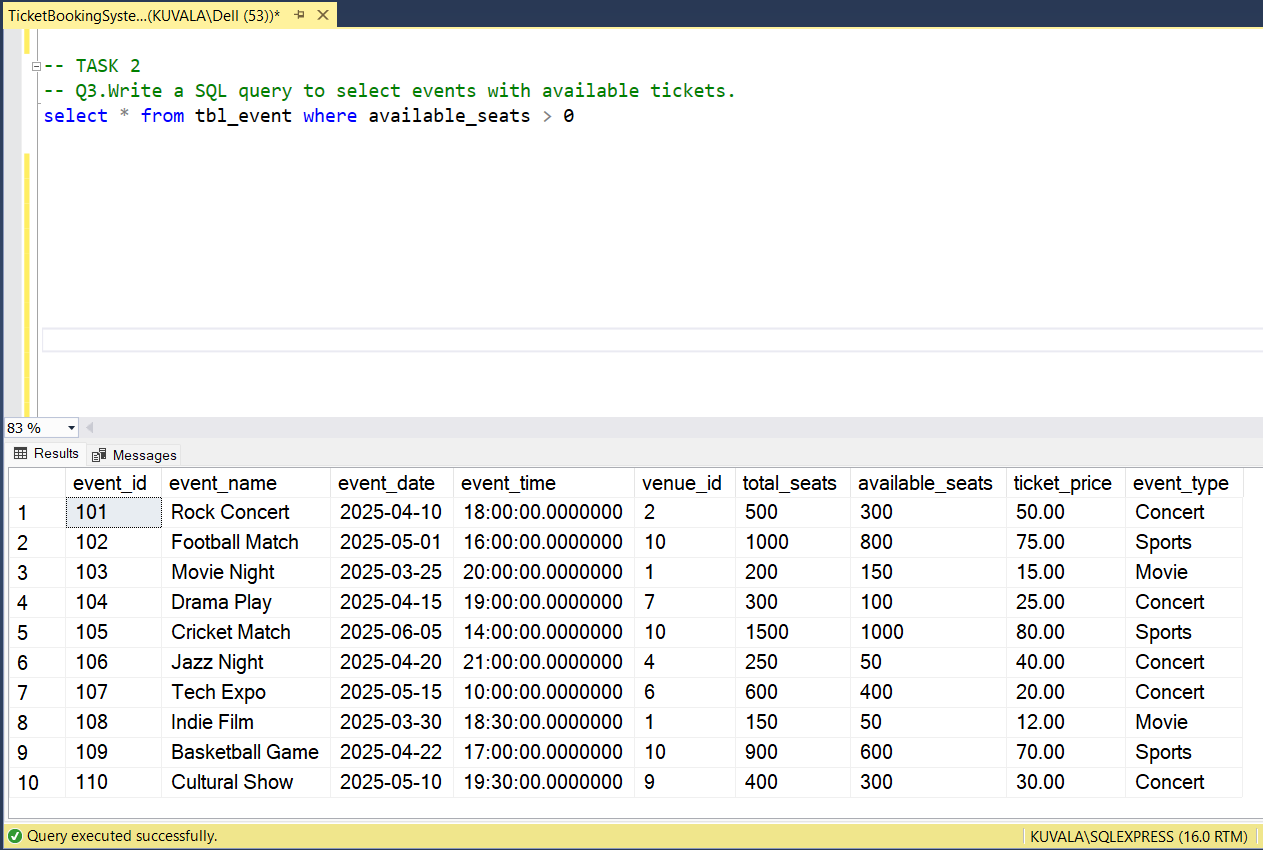
**2.Write a SQL query to list all Events.**

**select \* from tbl\_event**



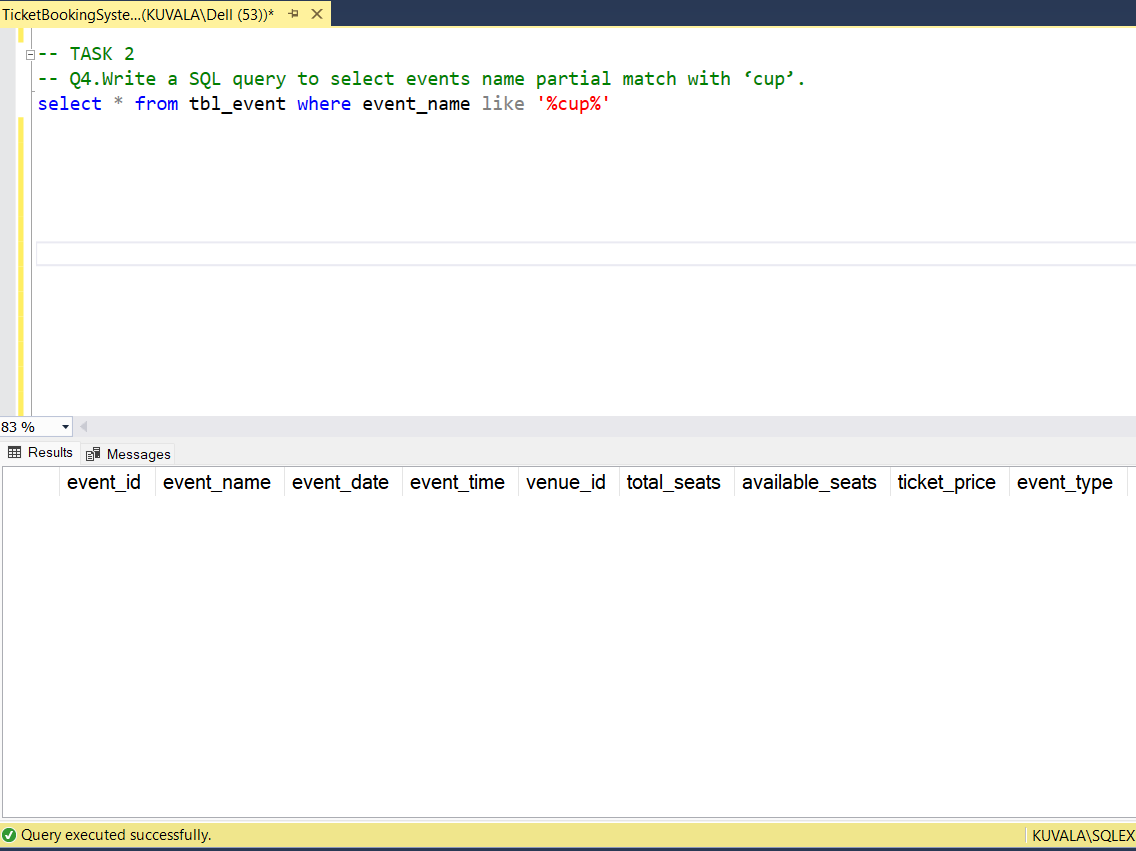
**3.Write a SQL query to select events with available tickets.**

**select \* from tbl\_event where available\_seats > 0**



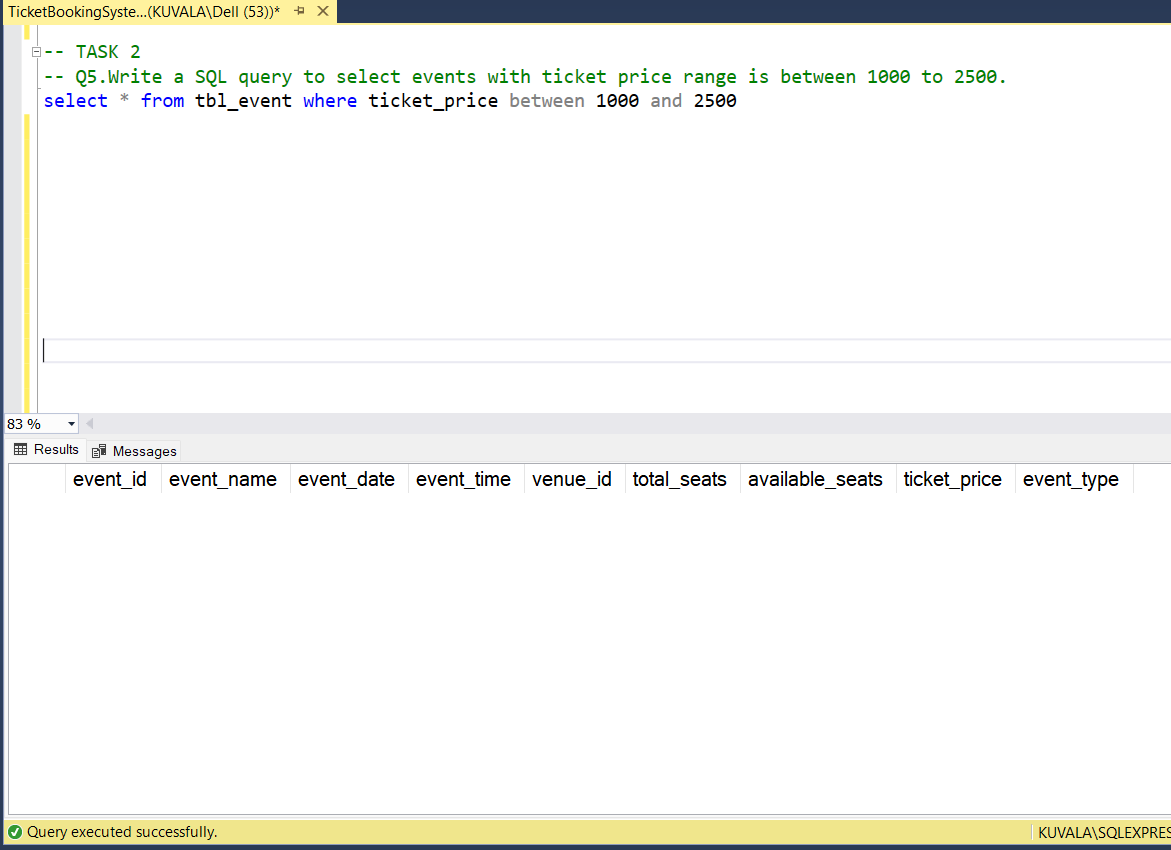
**4.Write a SQL query to select events name partial match with ‘cup’.**

**select \* from tbl\_event where event\_name like '%cup%'**



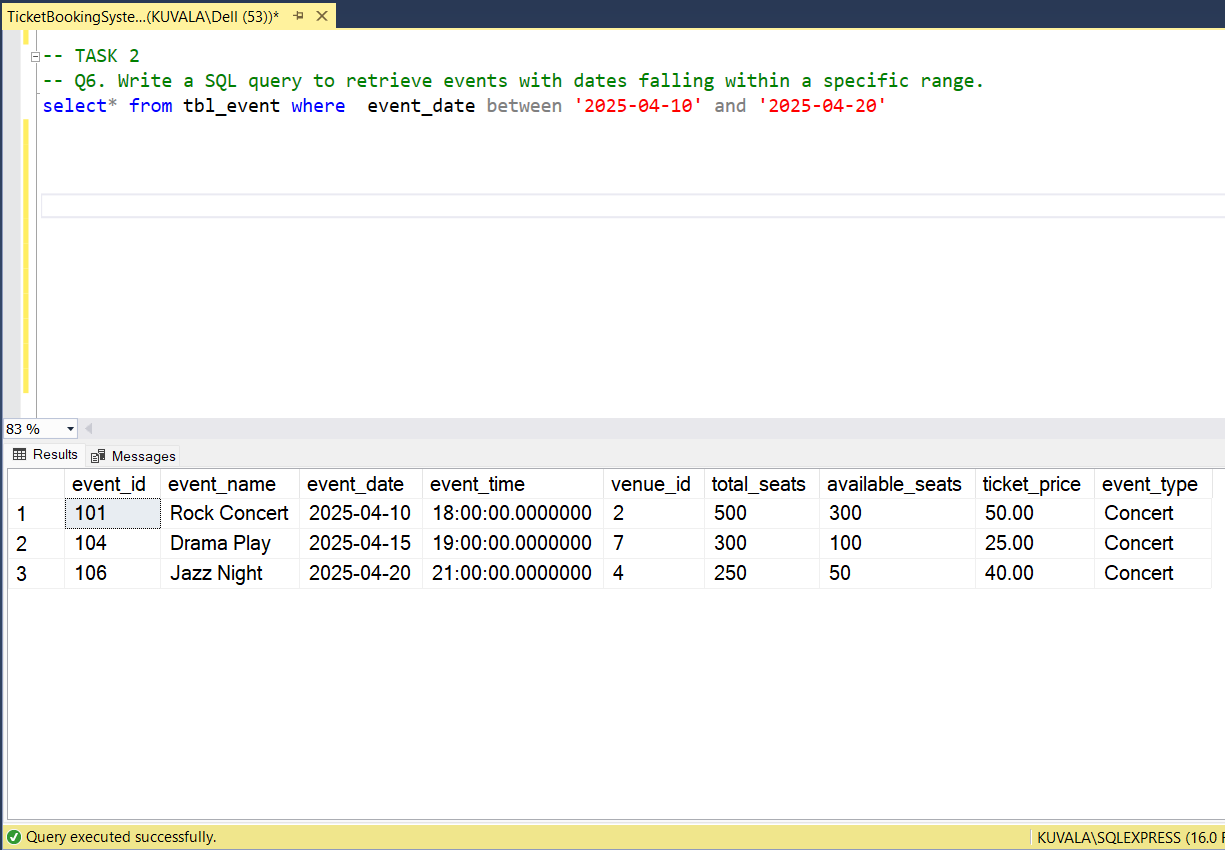
**5. Write a SQL query to select events with ticket price range is between 1000 to 2500.**

**select \* from tbl\_event where ticket\_price between 1000 and 2500**

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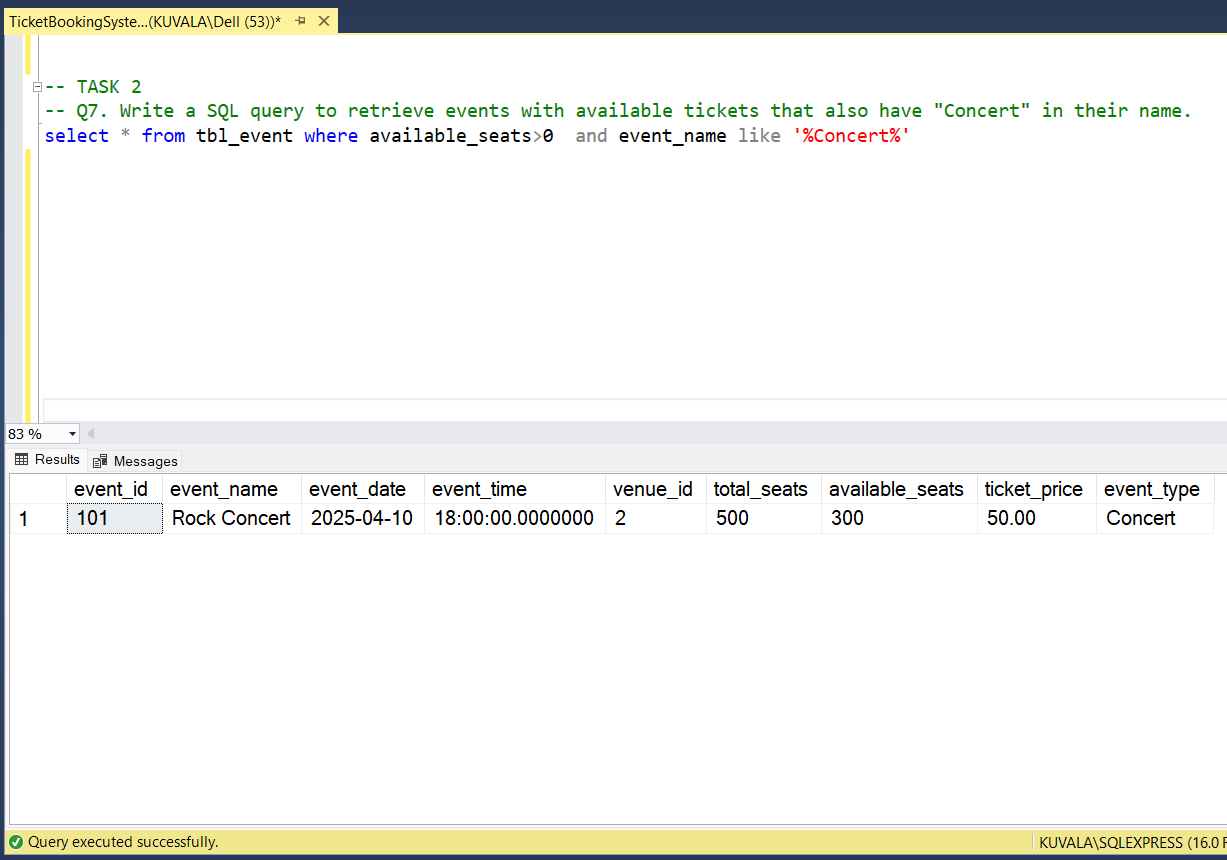
**6. Write a SQL query to retrieve events with dates falling within a specific range.**

**select\* from tbl\_event where event\_date between '2025-04-10' and '2025-04-20'**

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

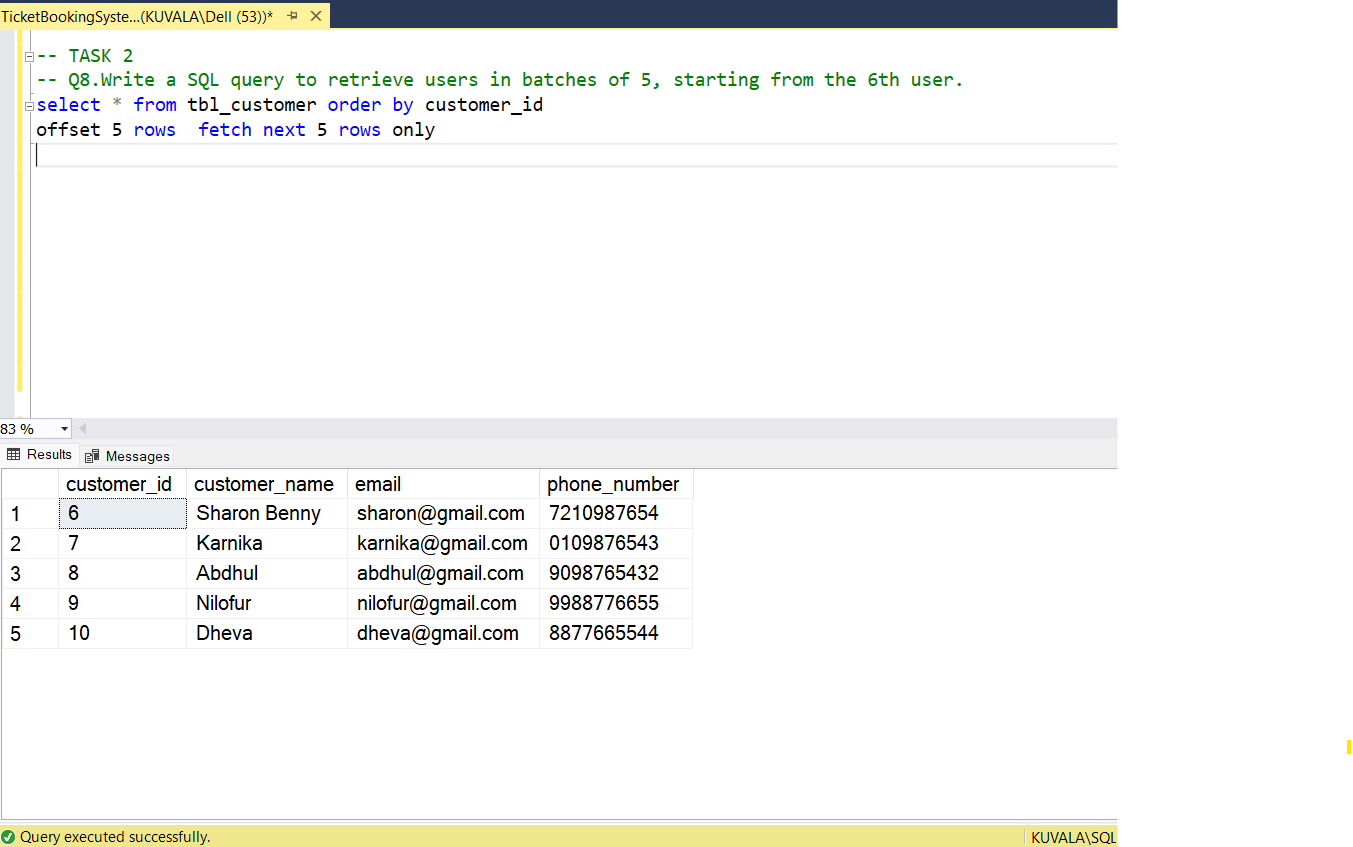
**select \* from tbl\_event where available\_seats>0 and event\_name like '%Concert%'**

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

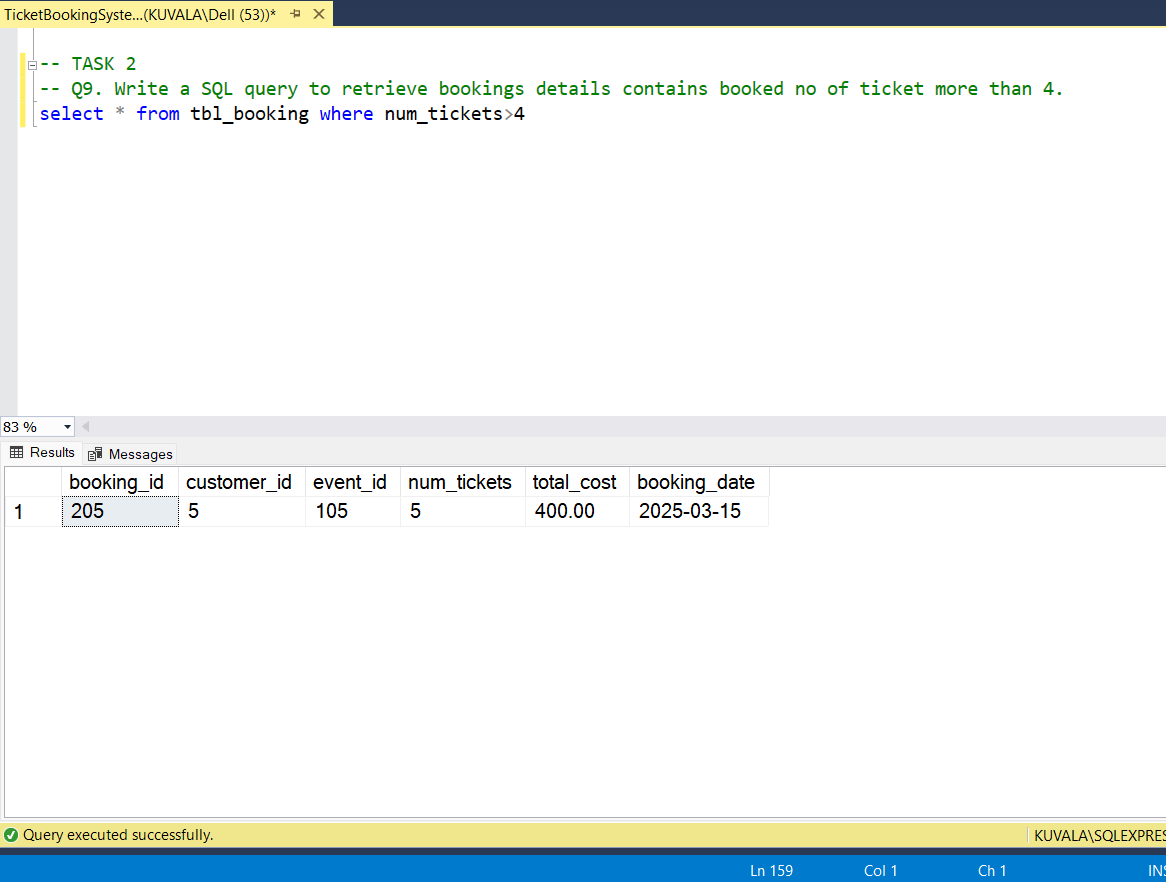
**select \* from tbl\_customer order by customer\_id**

**offset 5 rows fetch next 5 rows only**

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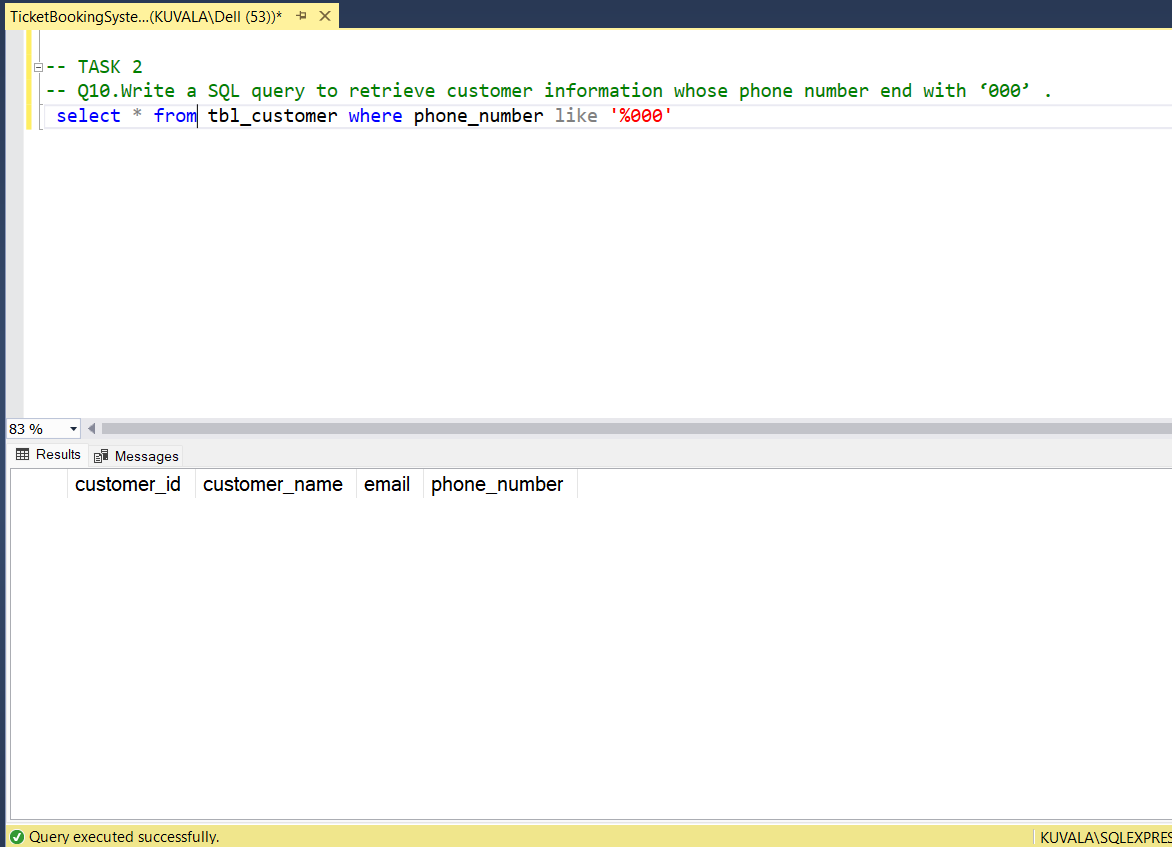
**9. Write a SQL query to retrieve bookings details contains booked no of ticket more than 4.**

**select \* from tbl\_booking where num\_tickets>4**

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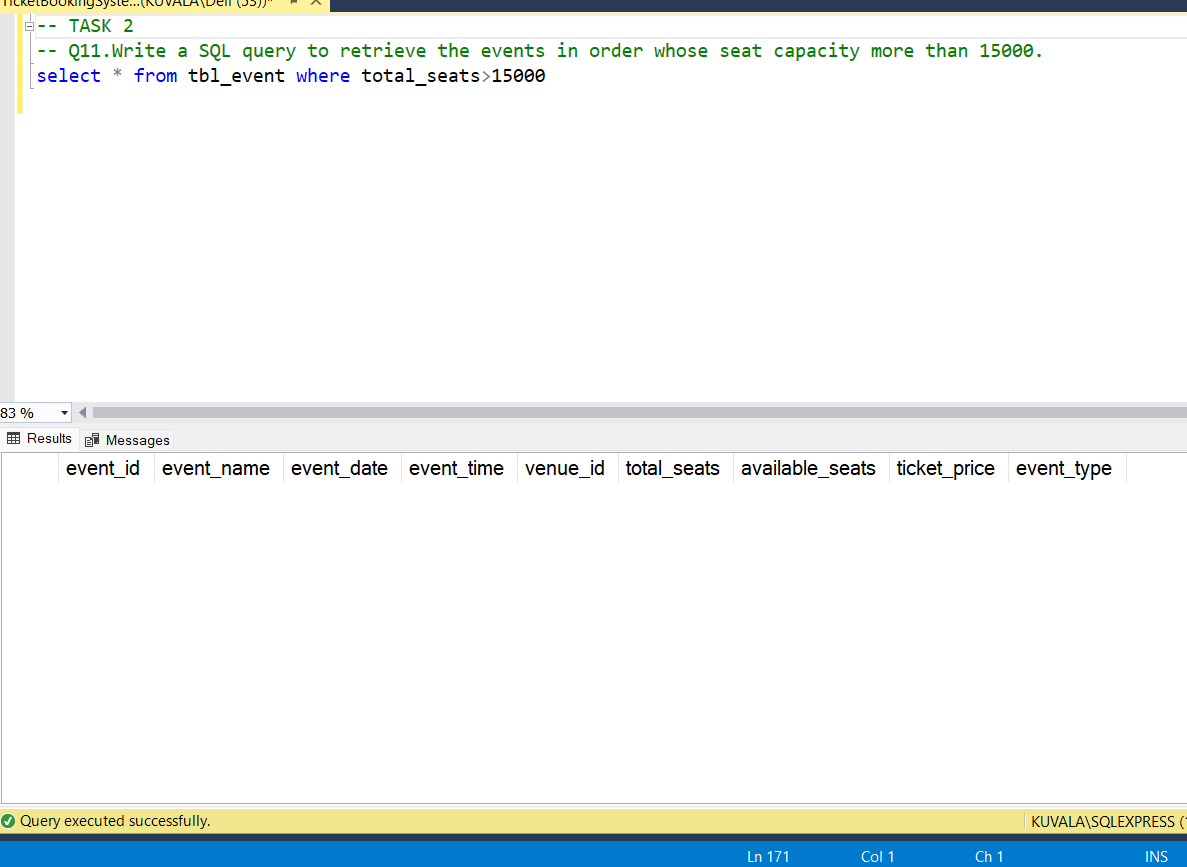
**10.Write a SQL query to retrieve customer information whose phone number end with ‘000’ .**

**select \* from tbl\_customer where phone\_number like '%000'**

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

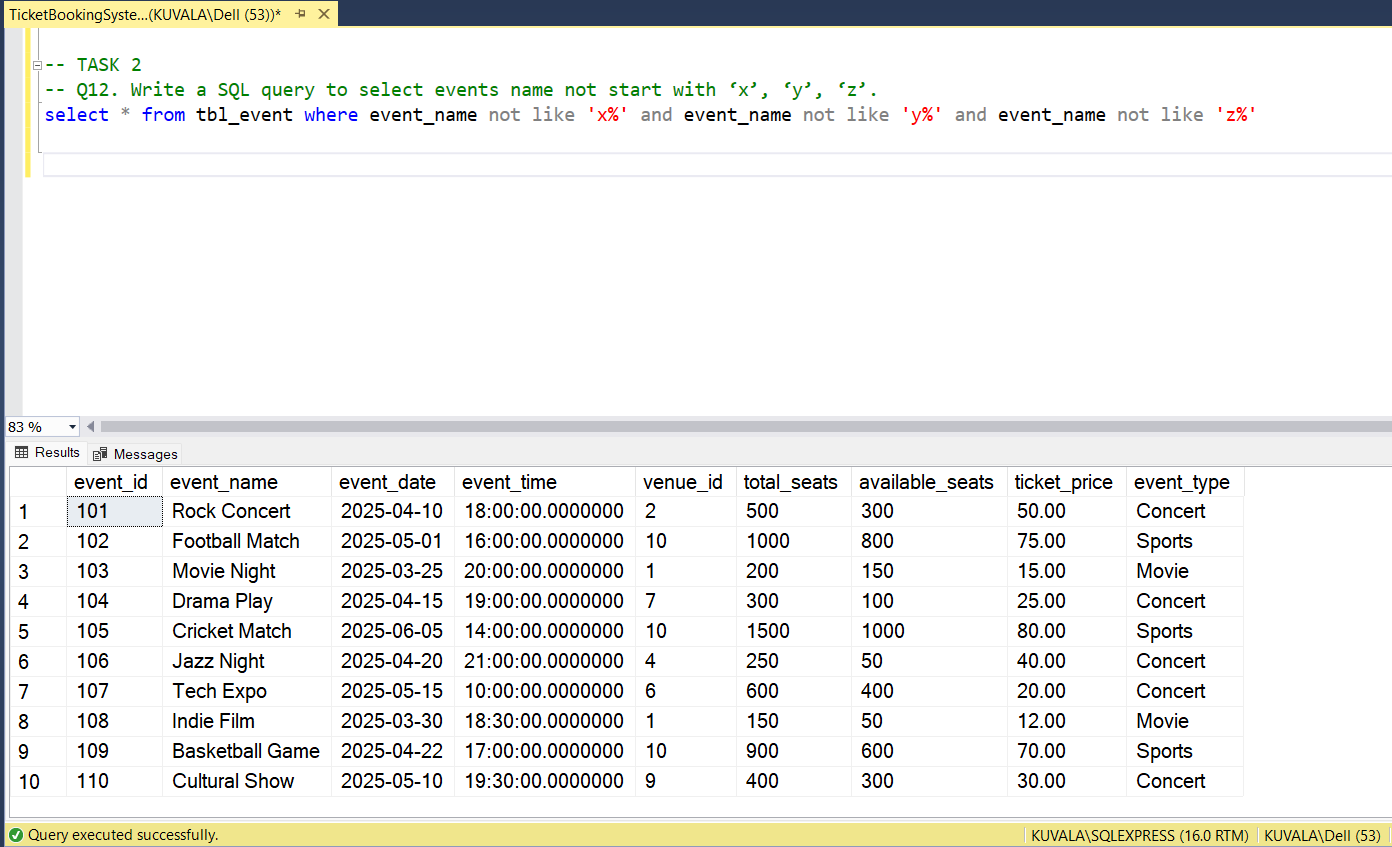
**select \* from tbl\_event where total\_seats>15000**

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

**select \* from tbl\_event where event\_name not like 'x%' and event\_name not like 'y%' and**

**event\_name not like 'z%'**

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