TICKET_BOOKING_SYSTEM

Work by -

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Task 1: Database Design

1. Create the database named "TicketBookingSystem"

2. Write SQL scripts to create the mentioned tables with appropriate data types, constraints, and relationships.

- Venue
- Event
- Customers
- Booking

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

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

Screenshots of Task 1 :

CREATE DATABASE TicketBookingSystem;

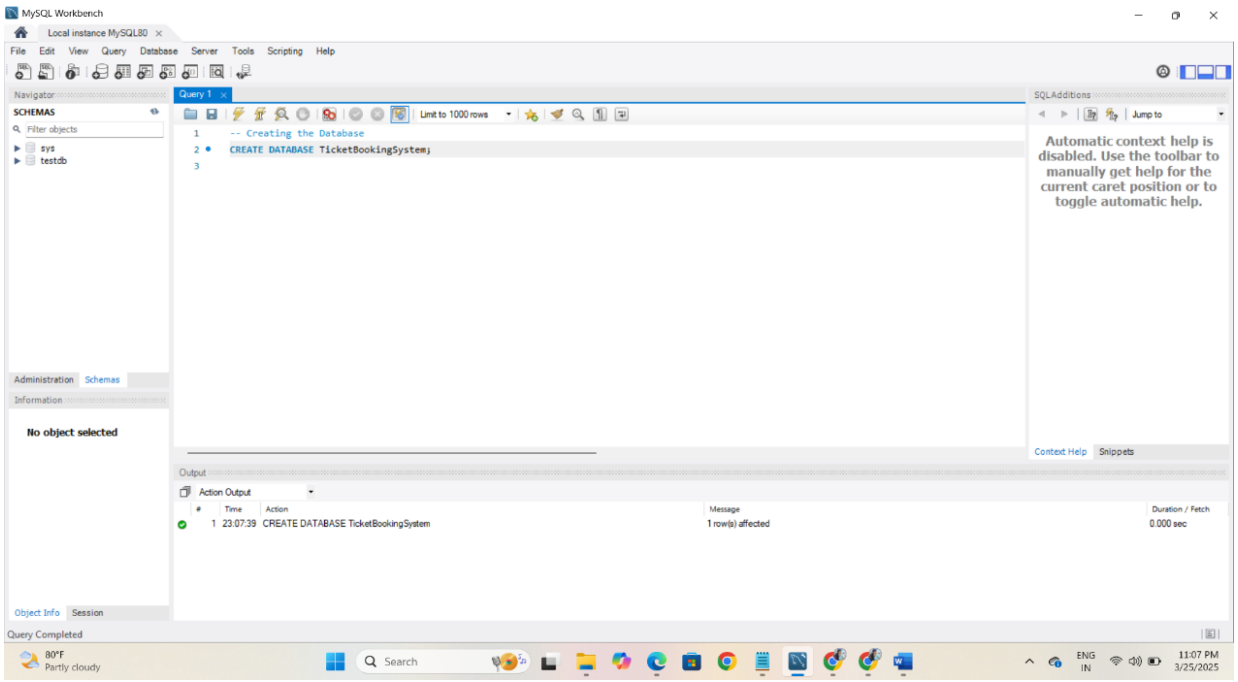

Figure 1: Creating database

USE TicketBookingSystem;

```
-- Creating Venue Table
CREATE TABLE Venue (
    venue_id INT AUTO_INCREMENT ,
    venue_name VARCHAR(100) NOT NULL,
    address TEXT NOT NULL,
    constraint venue_venue_id_pk primary key(venue_id)
);
```

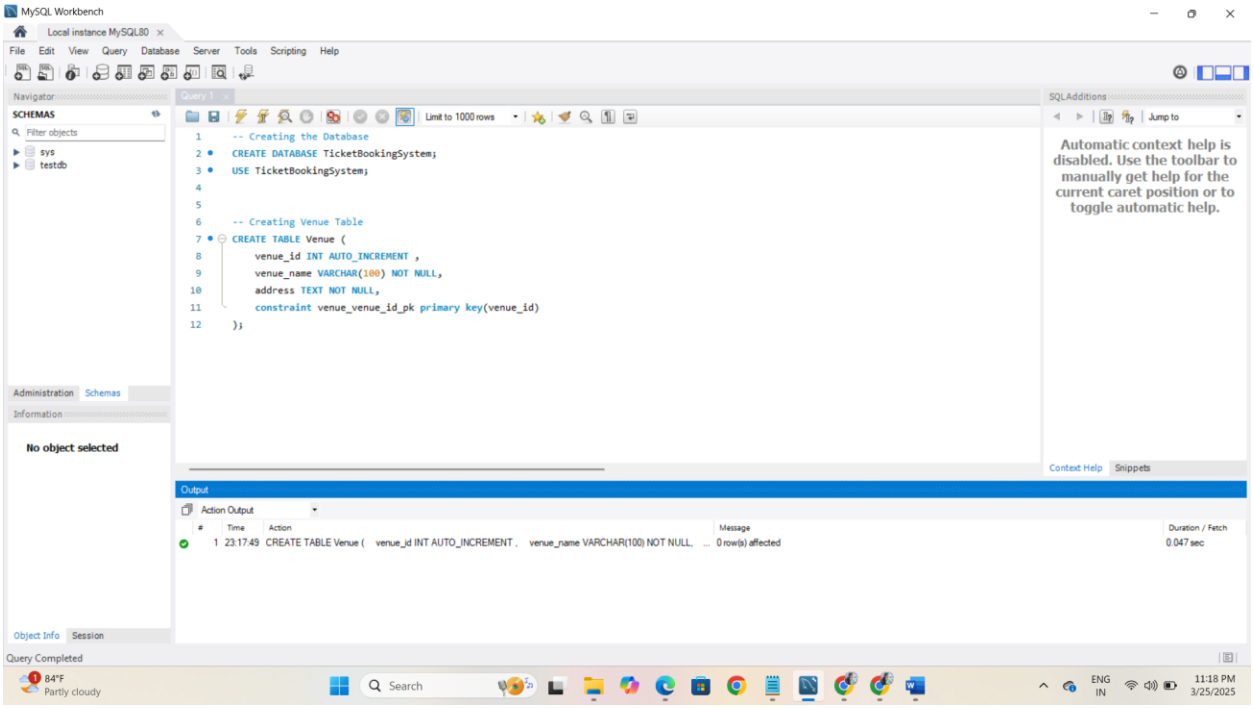

Figure 2: Creating Venue table

```
-- Creating primary key of Booking so that Event table can be created
CREATE TABLE Booking (
    booking_id INT AUTO_INCREMENT PRIMARY KEY
);

-- Creating Event table
CREATE TABLE Event (
    event_id INT AUTO_INCREMENT PRIMARY KEY,
    event_name VARCHAR(100) NOT NULL,
    event_date DATE NOT NULL,
```

```
    event_time TIME NOT NULL,
    venue_id INT,
    total_seats INT NOT NULL,
    available_seats INT NOT NULL,
    ticket_price DECIMAL(10,2) NOT NULL,
    event_type VARCHAR(20),
    CONSTRAINT Event_event_type_c CHECK(event_type IN('Movie', 'Sports', 'Concert', 'Play') ),
    booking_id INT,
    CONSTRAINT venue_venue_id_fk FOREIGN KEY(venue_id) REFERENCES Venue(venue_id),
    CONSTRAINT booking_booking_id_fk FOREIGN KEY(booking_id) REFERENCES
Booking(booking_id)
     );
```

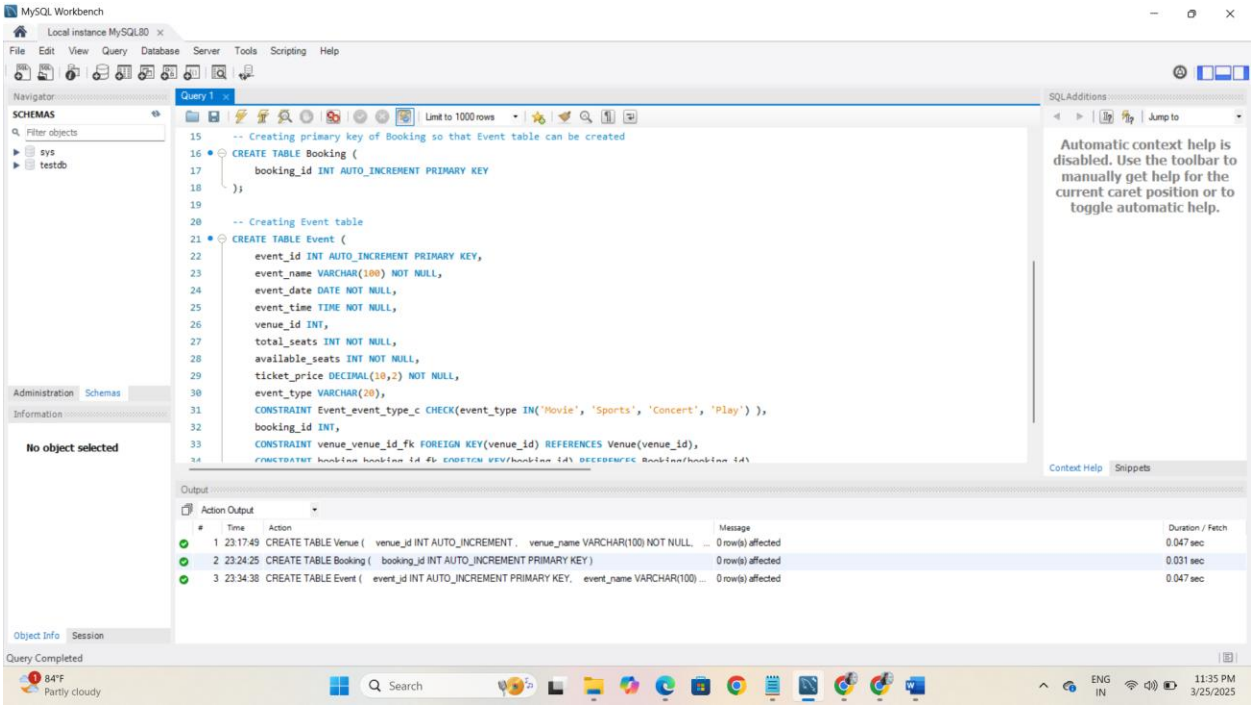

Figure 3:Creating Event Table

```
-- Creating Customer Table
CREATE TABLE Customer (
    customer_id INT AUTO_INCREMENT PRIMARY KEY,
    customer_name VARCHAR(100) NOT NULL,
    email VARCHAR(100) UNIQUE NOT NULL,
    phone_number VARCHAR(15) UNIQUE NOT NULL,
    booking_id INT,
CONSTRAINT booking_booking_id_fk_1 FOREIGN KEY (booking_id) REFERENCES Booking(booking_id)
);
```

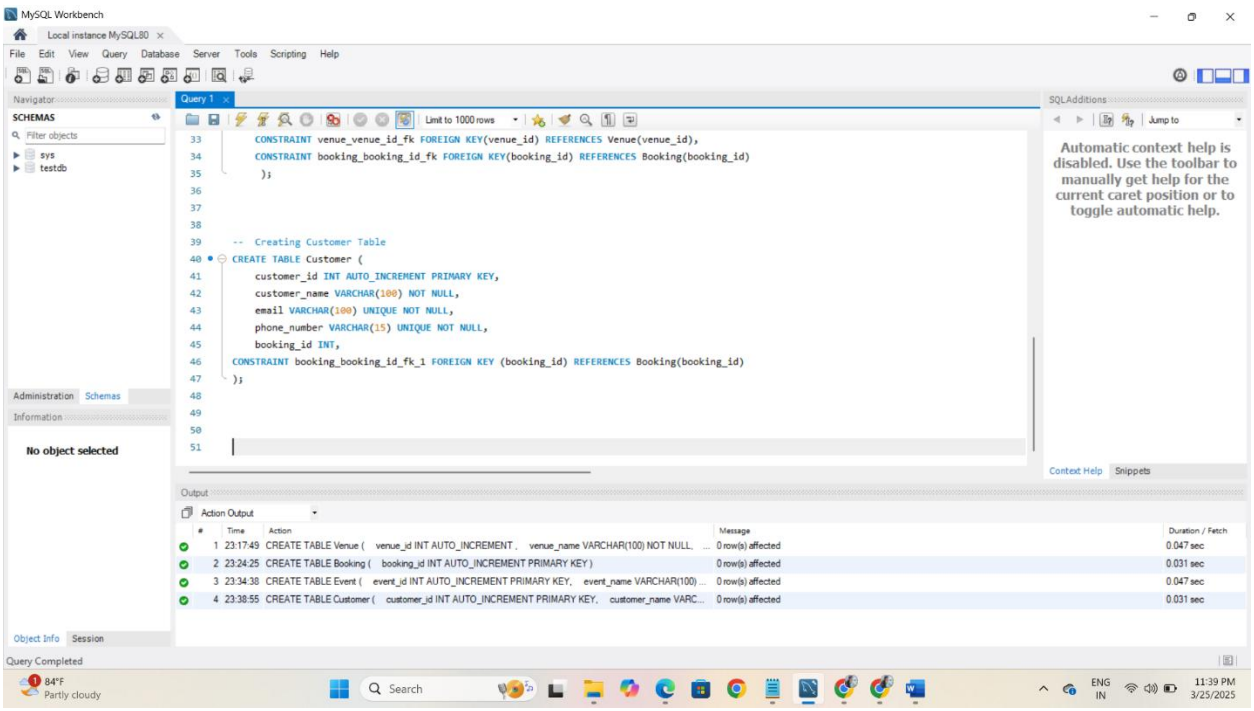

Figure 4: Creating Customer Table

-- Altering Booking Table

ALTER TABLE Booking

ADD num_tickets INT NOT NULL,

ADD total_cost DECIMAL(10,2) NOT NULL,

ADD booking_date DATE ,

ADD customer_id INT,

ADD CONSTRAINT customer_customer_id_fk FOREIGN KEY(customer_id) REFERENCES Customer(customer_id),

ADD event_id INT,

ADD CONSTRAINT event_event_id_fk FOREIGN KEY (event_id) REFERENCES Event(event_id);

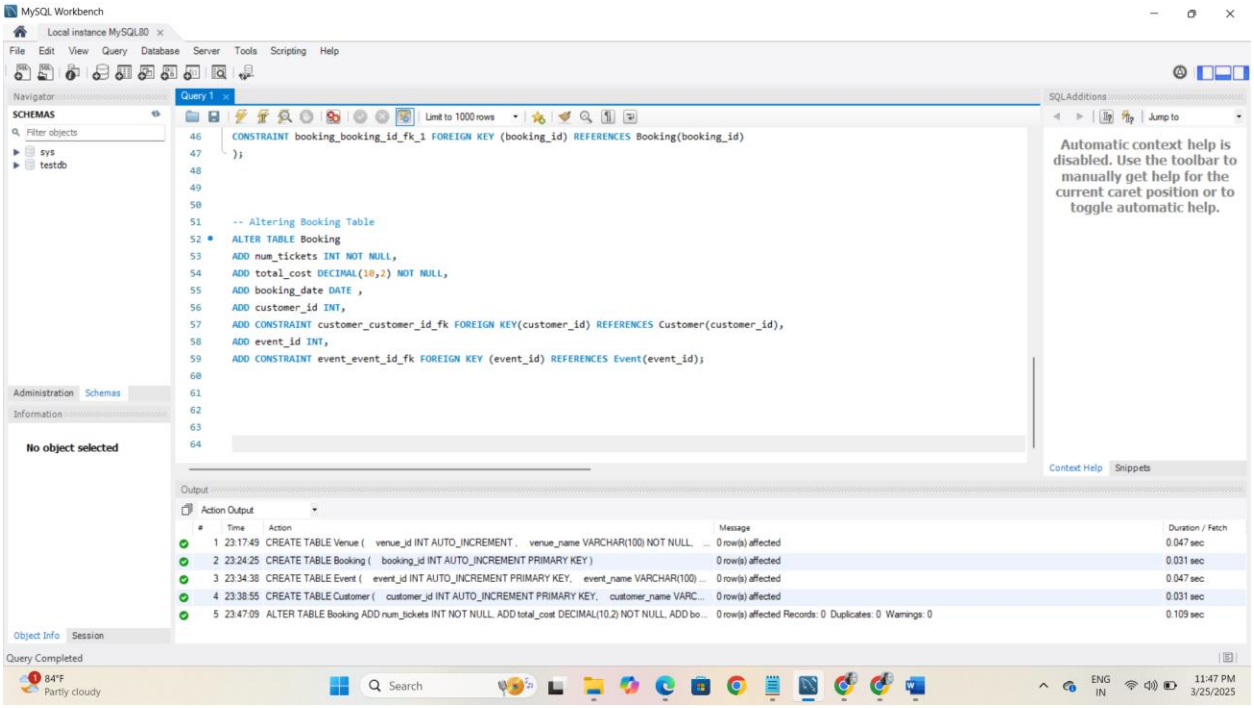

Figure 5: Altering Booking Table

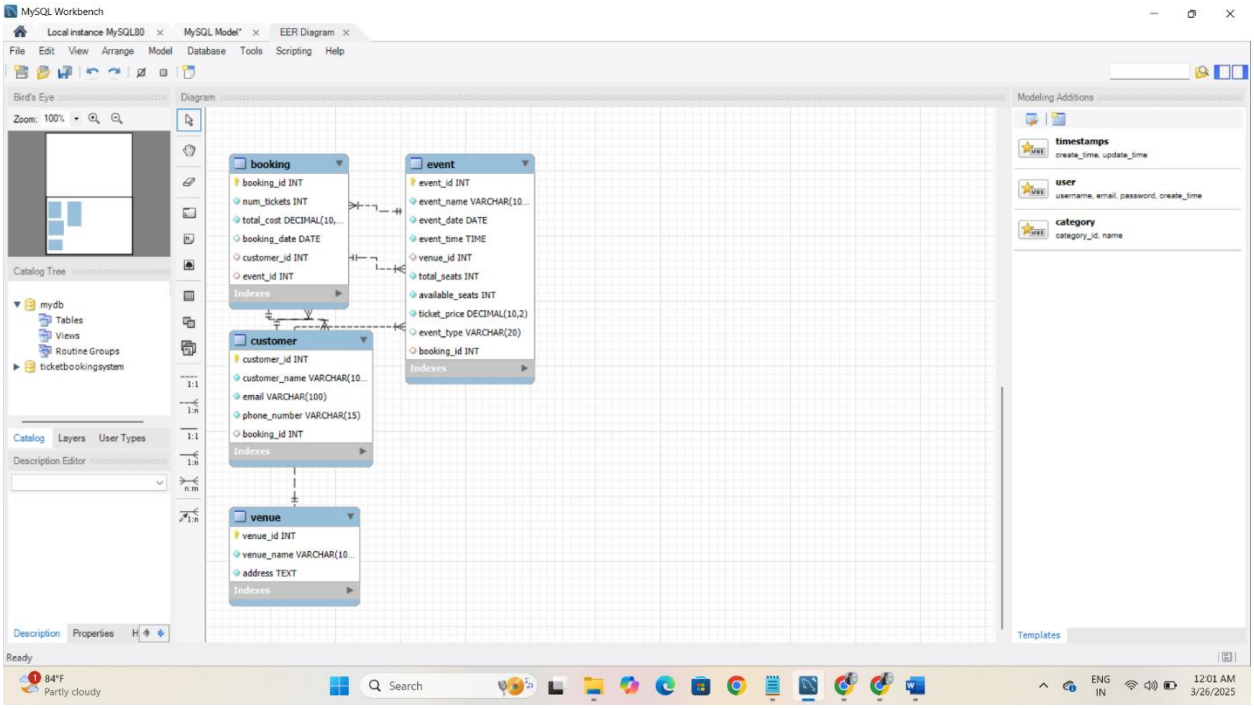

Figure 6: An ERD (Entity Relationship Diagram) for the database