Assignment

Assignment # : 8

Topic : DDL AND DML

DDL QUERIES

1. Write a SQL query to create a table named **User** with columns such as user_id (primary key), name, email, phone number, password . Add a CHECK constraint to the email column to ensure a valid email format.
2. Write a SQL query to create a table named **Movie** with columns such as movie_id (primary key), title, release_date, duration (in minutes), genre, description.
3. Write a SQL query to create a table named **Theater** with columns such as theater_id (primary key), name, location (address)
4. Write a SQL query to create a table named **Showtime** with columns such as showtime_id (primary key), movie_id (foreign key referencing Movie), theater_id (foreign key referencing Theater), date, time. Add a unique constraint on the combination of movie_id, theater_id, date, and time to ensure there are no duplicate showtimes for the same movie at the same theater and time.
5. Write a SQL query to create a table named **Seat** with columns such as seat_id (primary key), theater_id (foreign key referencing Theater), row, seat_number. Add a CHECK constraint to the row attribute to limit acceptable values (e.g., only uppercase alphabets for theater rows).
6. Write a SQL query to create a table named **Ticket** with columns such as ticket_id (primary key), showtime_id (foreign key referencing Showtime), seat_id (foreign key referencing Seat), user_id (foreign key referencing User), price. Add a CHECK constraint to the price column to ensure a positive price value. Add a unique constraint on the combination of showtime_id and seat_id to prevent a single seat from being booked for multiple tickets in the same showtime.
7. Write a SQL query to create a table named **Booking** with columns such as booking_id (primary key), user_id (foreign key referencing User), showtime_id (foreign key

referencing Showtime), number_of_tickets, total_price, payment_method, booking_date. Add a CHECK constraint to the number_of_tickets column to ensure a positive number of tickets booked.

DML QUERIES

1. Write a SQL query to Insert a New User
2. Write a SQL query to Insert a New Movie
3. Write a SQL query to Insert a New Showtime
4. Write a SQL query to Insert a New Theater
5. Write a SQL query to Insert a New Seat
6. Write a SQL query to Inserting a New Ticket (Assuming user ID 1 already exists)
7. Write a SQL query to Book Multiple Tickets Using Booking Table
8. Write a SQL query to Update Movie Release Date
9. Write a SQL query to Delete a Showtime (Assuming no tickets are booked):
10. Write a SQL query to Finding All Showtimes for a Specific Movie