

Hexaware Foundation Training 2025

Sql / Java Assignments

Ticket Booking System

25/03/2025

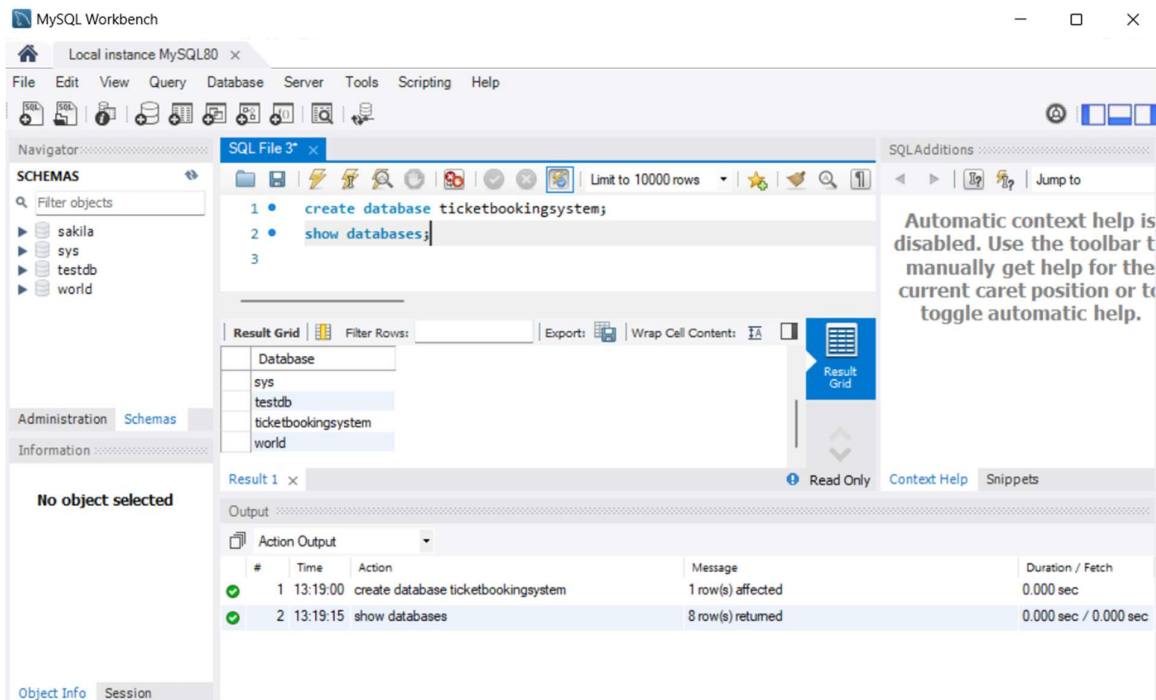
Riya Salesia P

Tasks 1: Database Design:

1. Create the database named "TicketBookingSystem"

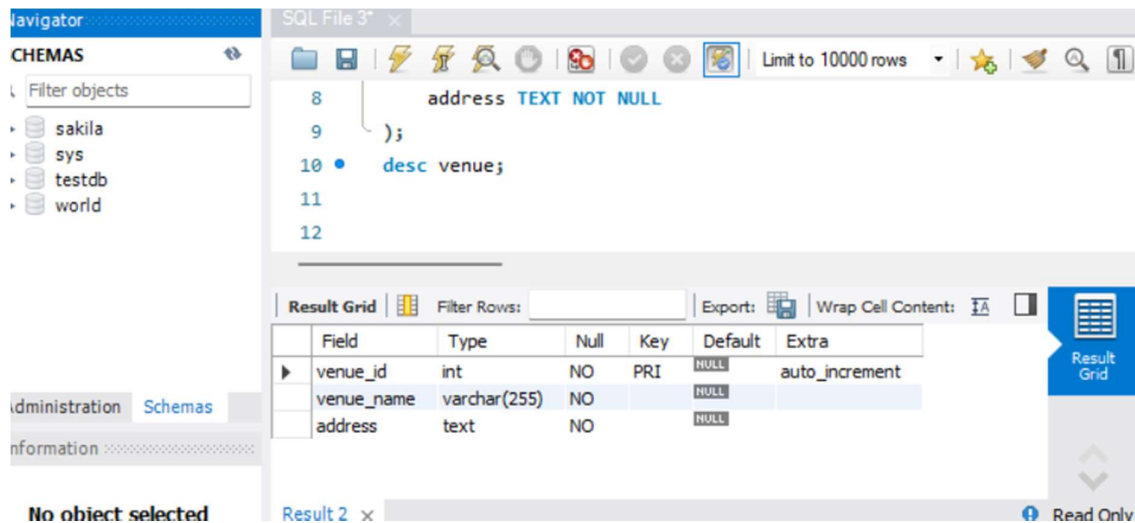
Queries:

1. create database ticketbookingsystem;
2. show databases;
3. use ticketbookingsystem;



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

```
CREATE TABLE Venue (  
    venue_id INT AUTO_INCREMENT PRIMARY KEY,  
    venue_name VARCHAR(255) NOT NULL,  
    address TEXT NOT NULL  
);  
  
desc venue;
```



Query for Event.

```
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 ENUM('Movie', 'Sports', 'Concert') NOT NULL,  
    booking_id INT,  
    FOREIGN KEY (venue_id) REFERENCES Venue(venue_id));
```

desc event;

66

Showing loaded schemas only
Administration Schemas
Information

No object selected

Field	Type	Null	Key	Default	Extra
event_id	int	NO	PRI	NULL	auto_increment
event_name	varchar(100)	NO		NULL	
event_date	date	NO		NULL	
event_time	time	NO		NULL	
venue_id	int	YES	MUL	NULL	
total_seats	int	NO		NULL	
available_seats	int	NO		NULL	
ticket_price	decimal(10,2)	NO		NULL	
event_type	enum('Movie','Sports','Concert')	NO		NULL	

Query for Customer

```
CREATE TABLE Customer (  
    customer_id INT AUTO_INCREMENT PRIMARY KEY,  
    customer_name VARCHAR(150) NOT NULL,  
    email VARCHAR(200) UNIQUE NOT NULL,  
    phone_number VARCHAR(15) UNIQUE NOT NULL  
);
```

desc customer;

SQL File 3*

Limit to 10000 rows

```
42 CREATE TABLE Customer (  
43     customer_id INT AUTO_INCREMENT PRIMARY KEY,  
44     customer_name VARCHAR(150) NOT NULL,  
45     email VARCHAR(200) UNIQUE NOT NULL,  
46     phone_number VARCHAR(15) UNIQUE NOT NULL  
47 );  
48 desc customer;
```

Showing loaded schemas only
Administration Schemas
Information

No object selected

Field	Type	Null	Key	Default	Extra
customer_id	int	NO	PRI	NULL	auto_increment
customer_name	varchar(150)	NO		NULL	
email	varchar(200)	NO	UNI	NULL	
phone_number	varchar(15)	NO	UNI	NULL	

Query for Booking

CREATE TABLE Booking (

```
    booking_id INT AUTO_INCREMENT PRIMARY KEY,  
    customer_id INT,  
    event_id INT(30),  
    num_tickets INT(40) NOT NULL,  
    total_cost DECIMAL(10,2) NOT NULL,  
    booking_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (customer_id) REFERENCES Customer(customer_id),  
    FOREIGN KEY (event_id) REFERENCES Event(event_id));
```

desc booking;

```
58 FOREIGN KEY (event_id) REFERENCES Event(event_id));  
59 • desc booking;  
60
```

ing loaded schemas only
istration Schemas

ation

object selected

Field	Type	Null	Key	Default	Extra
booking_id	int	NO	PRI	NULL	auto_increment
customer_id	int	YES	MUL	NULL	
event_id	int	YES	MUL	NULL	
num_tickets	int	NO		NULL	
total_cost	decimal(10,2)	NO		NULL	
booking_date	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

ALTER TABLE Event ADD CONSTRAINT fk_booking

FOREIGN KEY (booking_id) REFERENCES Booking(booking_id);

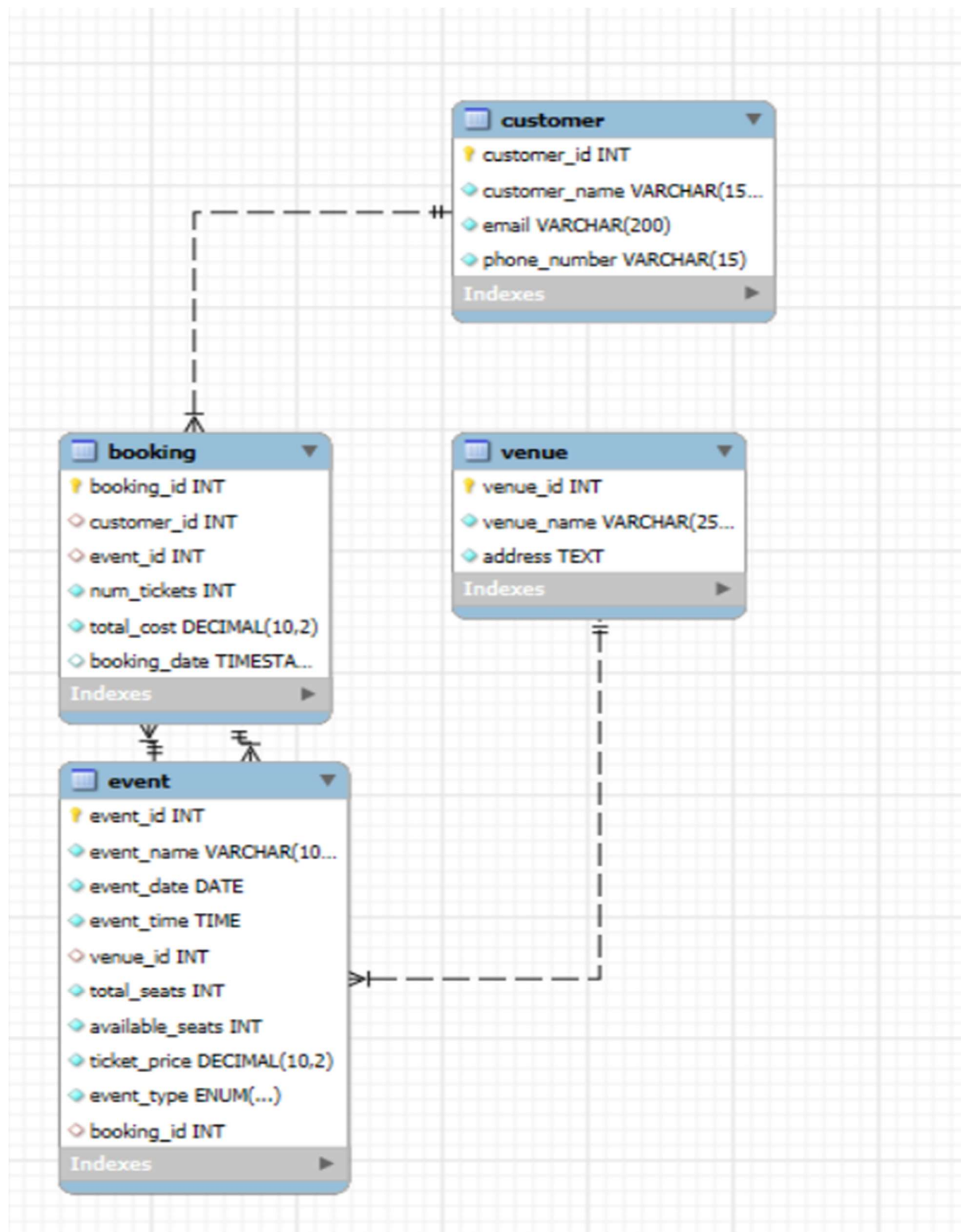
(forgot to make booking_id as FOREIGN KEY in the event table)

desc event;

```
61 • ALTER TABLE Event ADD CONSTRAINT fk_booking  
62 FOREIGN KEY (booking_id) REFERENCES Booking(booking_id);  
63  
64 • desc event;  
65
```

Field	Type	Null	Key	Default	Extra
event_name	varchar(100)	NO		NULL	
event_date	date	NO		NULL	
event_time	time	NO		NULL	
venue_id	int	YES	MUL	NULL	
total_seats	int	NO		NULL	
available_seats	int	NO		NULL	
ticket_price	decimal(10,2)	NO		NULL	
event_type	enum('Movie','Sports','Concert')	NO		NULL	
booking_id	int	YES	MUL	NULL	

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



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

Query :

```
ALTER TABLE Event
ADD CONSTRAINT fk_event_booking FOREIGN KEY (booking_id) REFERENCES
Booking(booking_id) ON DELETE CASCADE;
```

Query for DEFAULT Constraint:

```
ALTER TABLE Booking MODIFY total_cost DECIMAL(10,2) DEFAULT 0.00;
```

