Hexaware Foundation Training 2025

Sql / Java Assignments

Courier Management System

25/03/2025

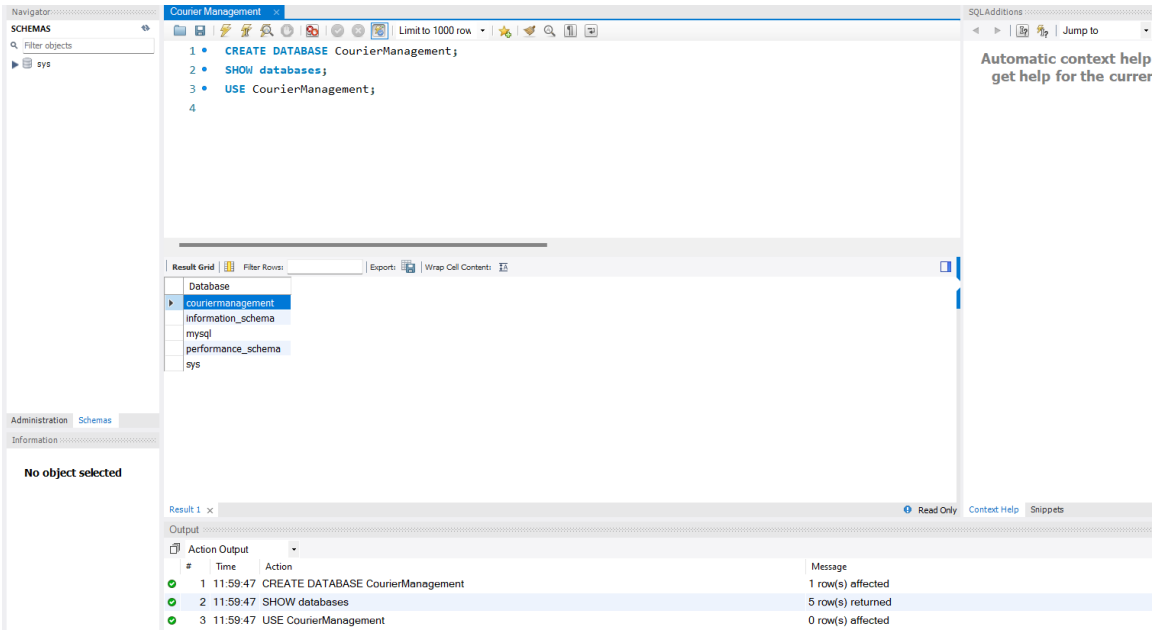
Karthikeyan M

Tasks 1: Database Design:

1. Create the database named "Courier_Management"

Queries:

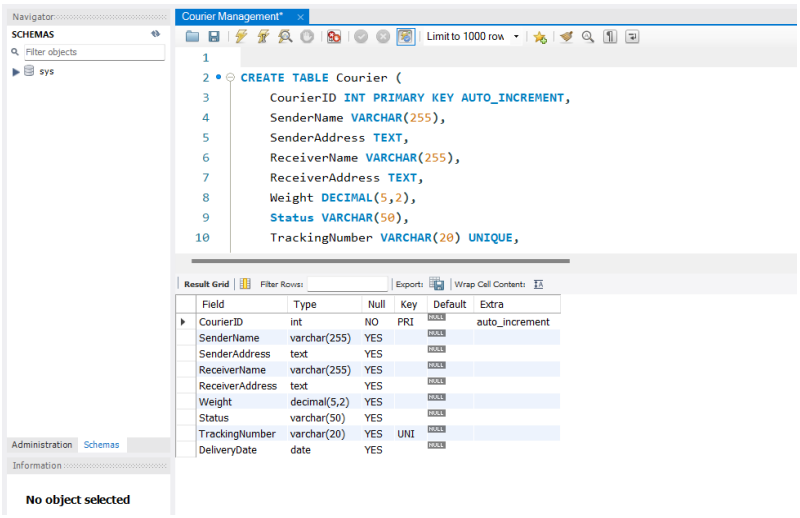
```
CREATE DATABASE CourierManagement;

SHOW databases;

USE CourierManagement;
```



2. Write SQL scripts to create the mentioned tables with appropriate data types, constraints, and relationships. User- Couriers - Courier Services - Employee – Location - Payment

 # Query for User

```
CREATE TABLE User (
    UserID INT PRIMARY KEY AUTO_INCREMENT,
    Name VARCHAR(255),
    Email VARCHAR(255) UNIQUE,
    Password VARCHAR(255),
    ContactNumber VARCHAR(20),
    Address TEXT
);
desc User;
```



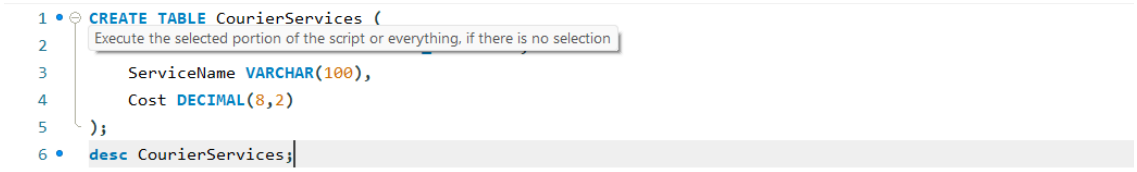
 # Query for Courier.

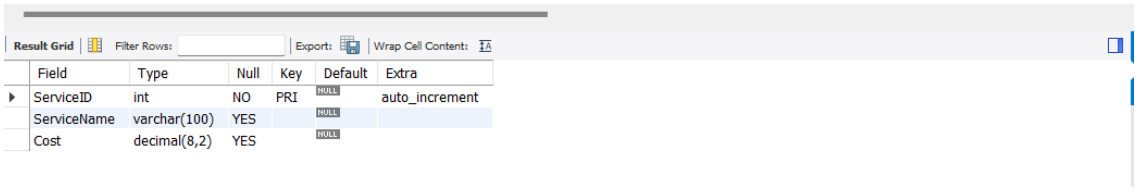
```
CREATE TABLE Courier (
    CourierID INT PRIMARY KEY AUTO_INCREMENT,
    SenderName VARCHAR(255),
    SenderAddress TEXT,
    ReceiverName VARCHAR(255),
    ReceiverAddress TEXT,
    Weight DECIMAL(5,2),
    Status VARCHAR(50),
```

```
    TrackingNumber VARCHAR(20) UNIQUE,
    DeliveryDate DATE
);
```

 # Query for CourierServices

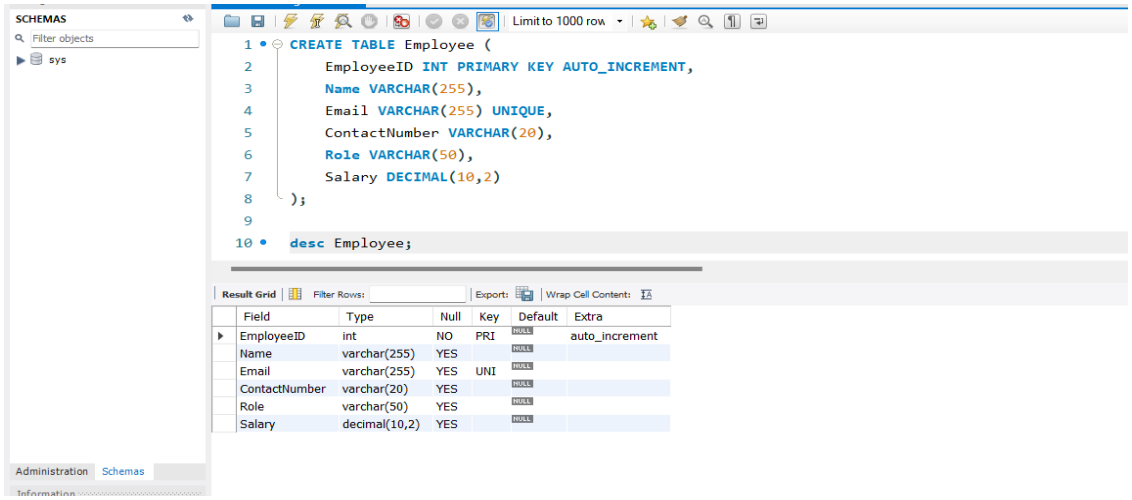
```
CREATE TABLE CourierServices (
    ServiceID INT PRIMARY KEY AUTO_INCREMENT,
    ServiceName VARCHAR(100),
    Cost DECIMAL(8,2)
);
desc CourierServices;
```





Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
ServiceID	int	NO	PRI	NULL	auto_increment
ServiceName	varchar(100)	YES		NULL	
Cost	decimal(8,2)	YES		NULL	

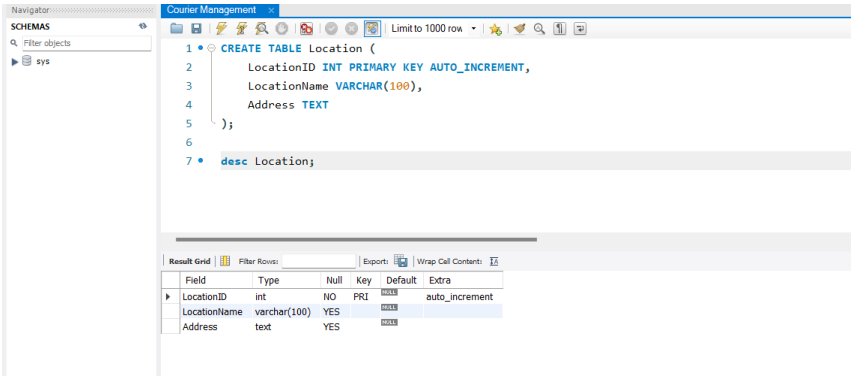


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
EmployeeID	int	NO	PRI	NULL	auto_increment
Name	varchar(255)	YES		NULL	
Email	varchar(255)	YES	UNI	NULL	
ContactNumber	varchar(20)	YES		NULL	
Role	varchar(50)	YES		NULL	
Salary	decimal(10,2)	YES		NULL	

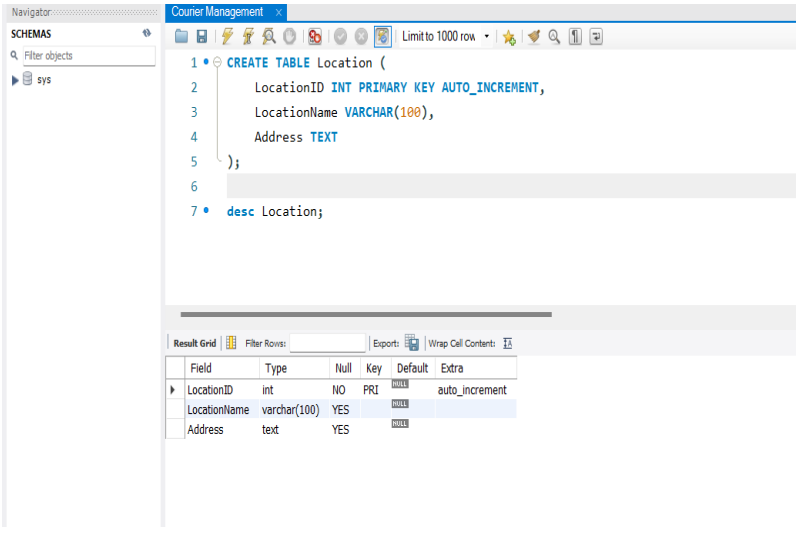
 # Query for Employee

```
CREATE TABLE Employee (
    EmployeeID INT PRIMARY KEY AUTO_INCREMENT,
    Name VARCHAR(255),
    Email VARCHAR(255) UNIQUE,
    ContactNumber VARCHAR(20),
    Role VARCHAR(50),
    Salary DECIMAL(10,2)
);
desc Employee;
```



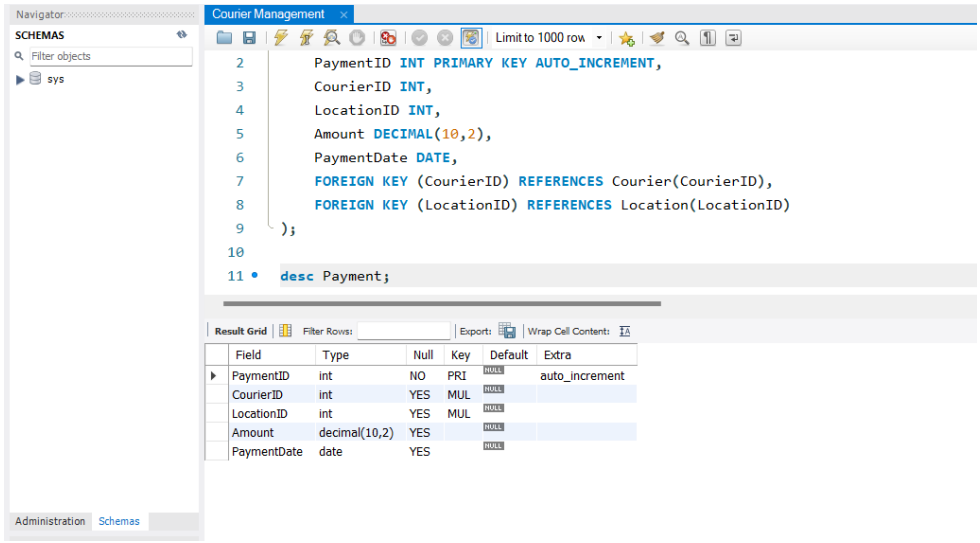
 # Query for Location

```
CREATE TABLE Location (
    LocationID INT PRIMARY KEY AUTO_INCREMENT,
    LocationName VARCHAR(100),
    Address TEXT
);
desc Location;
```



 # Query for Payment

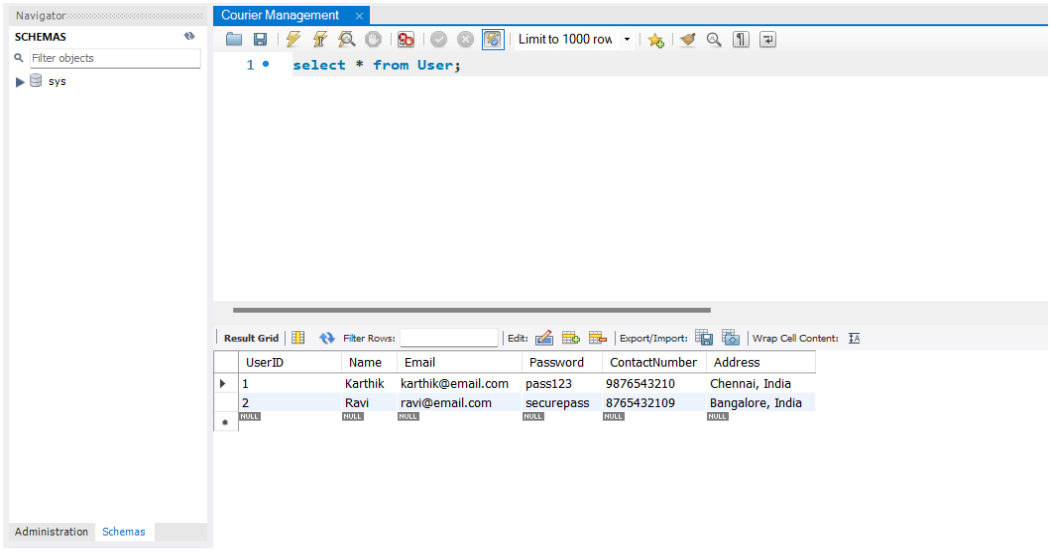
```
CREATE TABLE Payment (
    PaymentID INT PRIMARY KEY AUTO_INCREMENT,
    CourierID INT,
    LocationID INT,
    Amount DECIMAL(10,2),
    PaymentDate DATE,
    FOREIGN KEY (CourierID) REFERENCES Courier(CourierID),
    FOREIGN KEY (LocationID) REFERENCES Location(LocationID)
);
 desc Payment;
```



3. Insert sample data into the tables to simulate real-world scenarios.

Query :

INSERT INTO User (UserID, Name, Email, Password, ContactNumber, Address)
VALUES
(1, 'Karthik', 'karthik@email.com', 'pass123', '9876543210', 'Chennai, India'),
(2, 'Ravi', 'ravi@email.com', 'securepass', '8765432109', 'Bangalore, India');



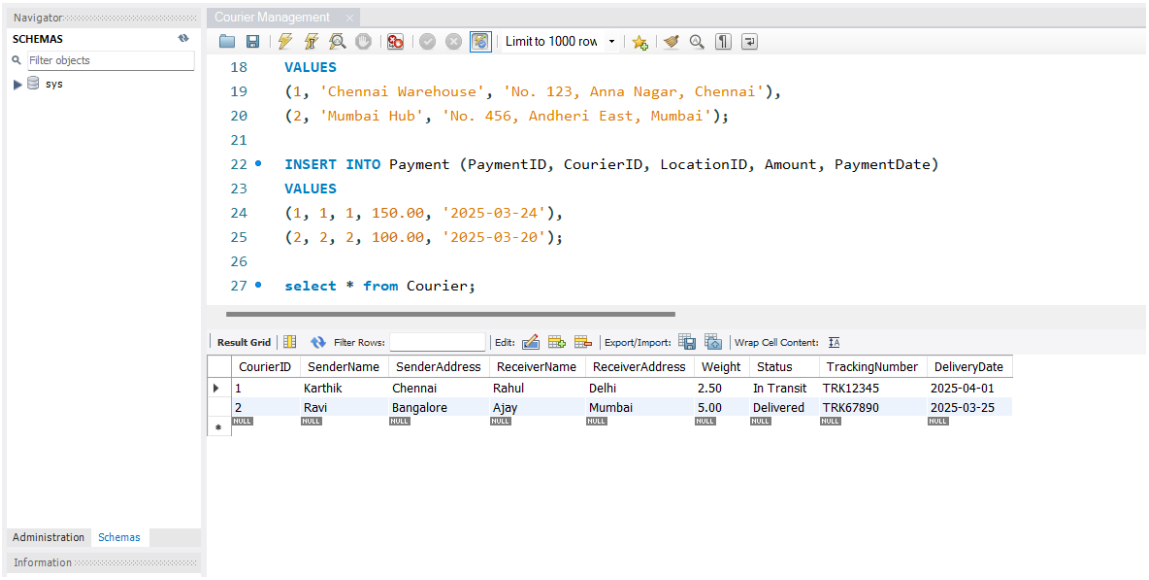
INSERT INTO Courier (CourierID, SenderName, SenderAddress, ReceiverName, ReceiverAddress, Weight, Status, TrackingNumber, DeliveryDate)
VALUES
(1, 'Karthik', 'Chennai', 'Rahul', 'Delhi', 2.5, 'In Transit', 'TRK12345', '2025-04-01'),
(2, 'Ravi', 'Bangalore', 'Ajay', 'Mumbai', 5.0, 'Delivered', 'TRK67890', '2025-03-25');

INSERT INTO CourierServices (ServiceID, ServiceName, Cost)
VALUES
(1, 'Express Delivery', 150.00),
(2, 'Standard Delivery', 100.00);

INSERT INTO Employee (EmployeeID, Name, Email, ContactNumber, Role, Salary)
VALUES
(1, 'Manoj', 'manoj@courier.com', '9988776655', 'Delivery Executive', 25000.00),
(2, 'Anjali', 'anjali@courier.com', '8877665544', 'Manager', 50000.00);

INSERT INTO Location (LocationID, LocationName, Address)
VALUES
(1, 'Chennai Warehouse', 'No. 123, Anna Nagar, Chennai'),
(2, 'Mumbai Hub', 'No. 456, Andheri East, Mumbai');

INSERT INTO Payment (PaymentID, CourierID, LocationID, Amount, PaymentDate)
VALUES
(1, 1, 1, 150.00, '2025-03-24'),
(2, 2, 2, 100.00, '2025-03-20');



4. Define relationships between these tables (one-to-many, many-to-many, etc.).