

# Hexaware Foundation Training 2025

## Sql / Java Assignments

### Courier Management System

25/03/2025

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#### Task 1

##### Query:

```
create database cour;
use cour;
create table User (
    UserID INT PRIMARY KEY,
    Name VARCHAR(255),
    Email VARCHAR(255) UNIQUE,
    Password VARCHAR(255),
    ContactNumber VARCHAR(20),
    Address TEXT
);
create table Courier (
    CourierID INT PRIMARY KEY,
    SenderName VARCHAR(255),
    SenderAddress TEXT,
    ReceiverName VARCHAR(255),
    ReceiverAddress TEXT,
    Weight DECIMAL(5, 2),
    Status VARCHAR(50),
    TrackingNumber VARCHAR(20) UNIQUE,
    DeliveryDate DATE);
create table CourierServices(
    ServiceID INT PRIMARY KEY,
    ServiceName VARCHAR(100),
    Cost DECIMAL(8, 2));
create table Employee(
    EmployeeID INT PRIMARY KEY,
    Name VARCHAR(255),
    Email VARCHAR(255) UNIQUE,
    ContactNumber VARCHAR(20),
    Role VARCHAR(50),
    Salary DECIMAL(10, 2));
create table Location(
    LocationID INT PRIMARY KEY,
```

```

        LocationName VARCHAR(100),
        Address TEXT);
create table Payment(
        PaymentID INT PRIMARY KEY,
        CourierID INT,
        LocationId INT,
        Amount DECIMAL(10, 2),
        PaymentDate DATE,
        FOREIGN KEY (CourierID) REFERENCES Courier(CourierID),
        FOREIGN KEY (LocationID) REFERENCES Location(LocationID));

INSERT INTO User (UserID, Name, Email, Password, ContactNumber, Address)
VALUES
(1, 'Divya Nair', 'divya.nair@email.com', 'secure123', '+919876123450', '15, Park Street, Kochi, Kerala'),
(2, 'Manish Sharma', 'manish.sharma@email.com', 'pass456', '+918765987651', '22, MG Road, Jaipur, Rajasthan'),
(3, 'Sneha Kapoor', 'sneha.kapoor@email.com', 'strong789', '+917654123452', '30, Anna Salai, Chennai, Tamil Nadu'),
(4, 'Ravi Singh', 'ravi.singh@email.com', 'myPass00', '+916543987653', '45, Ring Road, Delhi'),
(5, 'Asha Reddy', 'asha.reddy@email.com', 'reddy1234', '+915432123454', '58, Jubilee Hills, Hyderabad, Telangana'),
(6, 'Vikram Menon', 'vikram.menon@email.com', 'menon5678', '+914321987655', '62, Church Street, Bangalore, Karnataka'),
(7, 'Pooja Joshi', 'pooja.joshi@email.com', 'joshi9012', '+913210123456', '70, Mall Road, Shimla, Himachal Pradesh'),
(8, 'Gaurav Patel', 'gaurav.patel@email.com', 'patel3456', '+912109987657', '88, FC Road, Pune, Maharashtra'),
(9, 'Anjali Verma', 'anjali.verma@email.com', 'verma7890', '+911098123458', '95, Park Street, Kolkata, West Bengal'),
(10, 'Karthik Kumar', 'karthik.kumar@email.com', 'kumar1111', '+919988987659', '100, Brigade Road, Bangalore, Karnataka');

INSERT INTO Courier (CourierID, SenderName, SenderAddress, ReceiverName, ReceiverAddress, Weight, Status, TrackingNumber, DeliveryDate) VALUES
(1, 'Divya Nair', '15, Park Street, Kochi, Kerala', 'Manish Sharma', '22, MG Road, Jaipur, Rajasthan', 3.50, 'In Transit', 'TN1234567891', '2023-12-11'),
(2, 'Sneha Kapoor', '30, Anna Salai, Chennai, Tamil Nadu', 'Ravi Singh', '45, Ring Road, Delhi', 6.75, 'Delivered', 'DL9876543211', '2023-12-13'),
(3, 'Asha Reddy', '58, Jubilee Hills, Hyderabad, Telangana', 'Vikram Menon', '62, Church Street, Bangalore, Karnataka', 2.20, 'Pending', 'KL5678901235', '2023-12-16'),
(4, 'Vikram Menon', '62, Church Street, Bangalore, Karnataka', 'Pooja Joshi', '70, Mall Road, Shimla, Himachal Pradesh', 4.00, 'In Transit', 'HP1234987651', '2023-12-19'),
(5, 'Pooja Joshi', '70, Mall Road, Shimla, Himachal Pradesh', 'Gaurav Patel', '88, FC Road, Pune, Maharashtra', 8.00, 'Delivered', 'RJ0987123457', '2023-12-21'),
(6, 'Gaurav Patel', '88, FC Road, Pune, Maharashtra', 'Anjali Verma', '95, Park Street,

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Kolkata, West Bengal', 5.80, 'Pending', 'WB6543219871', '2023-12-23'),  
 (7, 'Anjali Verma', '95, Park Street, Kolkata, West Bengal', 'Karthik Kumar', '100, Brigade Road, Bangalore, Karnataka', 3.10, 'In Transit', 'MH3210987655', '2023-12-25'),  
 (8, 'Karthik Kumar', '100, Brigade Road, Bangalore, Karnataka', 'Divya Nair', '15, Park Street, Kochi, Kerala', 7.30, 'Delivered', 'KA7890123457', '2023-12-27'),  
 (9, 'Manish Sharma', '22, MG Road, Jaipur, Rajasthan', 'Sneha Kapoor', '30, Anna Salai, Chennai, Tamil Nadu', 2.80, 'Pending', 'TN1029384757', '2023-12-29'),  
 (10, 'Ravi Singh', '45, Ring Road, Delhi', 'Asha Reddy', '58, Jubilee Hills, Hyderabad, Telangana', 9.20, 'In Transit', 'AP6574839202', '2023-12-31');

INSERT INTO CourierServices (ServiceID, ServiceName, Cost) VALUES

(1, 'Standard', 200.00),  
 (2, 'Express', 400.00),  
 (3, 'SameDay', 600.00),  
 (4, 'Intl', 1500.00),  
 (5, 'Heavy', 500.00),  
 (6, 'Docs', 150.00),  
 (7, 'Fragile', 300.00),  
 (8, 'Rural', 250.00),  
 (9, 'Overnight', 450.00),  
 (10, 'Bulk', 900.00);

INSERT INTO Employee (EmployeeID, Name, Email, ContactNumber, Role, Salary) VALUES

(1, 'Rajesh Kumar', 'rajesh.kumar@email.com', '+919911223355', 'Manager', 60000.00),  
 (2, 'Seema Kumari', 'seema.kumari@email.com', '+918877665555', 'Supervisor', 40000.00),  
 (3, 'Mahesh Nair', 'mahesh.nair@email.com', '+917766554444', 'Driver', 30000.00),  
 (4, 'Deepa Desai', 'deepa.desai@email.com', '+916655443333', 'Customer', 33000.00),  
 (5, 'Ajay Singh', 'ajay.singh@email.com', '+915544332222', 'Warehouse', 25000.00),  
 (6, 'John Doe', 'rekha.rao@email.com', '+914433221111', 'Accountant', 35000.00),  
 (7, 'Suresh Gupta', 'suresh.gupta@email.com', '+913322119999', 'IT', 33000.00),  
 (8, 'Geeta Iyer', 'geeta.iyer@email.com', '+912211998888', 'HR', 50000.00),  
 (9, 'Rakesh Patel', 'rakesh.patel@email.com', '+911199887777', 'Logistics', 43000.00),  
 (10, 'Sunita Sharma', 'sunita.sharma@email.com', '+919988776666', 'Admin', 38000.00);

INSERT INTO Location (LocationID, LocationName, Address) VALUES

(1, 'Bangalore Hub', '10, Brigade Road, Bangalore'),  
 (2, 'Mumbai Depot', '25, Linking Road, Mumbai'),  
 (3, 'Delhi Office', '40, Connaught Place, Delhi'),  
 (4, 'Chennai Branch', '60, Mount Road, Chennai'),  
 (5, 'Hyderabad Center', '80, Banjara Hills, Hyderabad'),  
 (6, 'Kolkata Site', '90, Park Street, Kolkata'),  
 (7, 'Pune Station', '110, FC Road, Pune'),  
 (8, 'Jaipur Warehouse', '130, MI Road, Jaipur'),  
 (9, 'Kochi Terminal', '150, MG Road, Kochi'),  
 (10, 'Shimla Point', '170, Mall Road, Shimla');


INSERT INTO Payment (PaymentID, CourierID, LocationId, Amount, PaymentDate)  
VALUES


(1, 1, 1, 350.00, '2023-12-12'),  
(2, 2, 2, 65.00, '2023-12-14'),  
(3, 3, 3, 55.00, '2023-12-17'),  
(4, 4, 4, 40.00, '2023-12-20'),  
(5, 5, 5, 30.00, '2023-12-22'),  
(6, 6, 6, 50.00, '2023-12-24'),  
(7, 7, 7, 20.00, '2023-12-26'),  
(8, 8, 8, 70.00, '2023-12-28'),  
(9, 9, 9, 80.00, '2023-12-30'),  
(10, 10, 10, 90.00, '2024-01-01');


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

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

Result Grid

 Filter Rows:

Export: 

Wrap Cell Content: 

	Field	Type	Null	Key	Default	Extra
▶	CourierID	int	NO	PRI	NULL	auto_increment
	SenderName	varchar(255)	YES		NULL	
	SenderAddress	text	YES		NULL	
	ReceiverName	varchar(255)	YES		NULL	
	ReceiverAddress	text	YES		NULL	
	Weight	decimal(5,2)	YES		NULL	
	Status	varchar(50)	YES		NULL	
	TrackingNumber	varchar(20)	YES	UNI	NULL	
	DeliveryDate	date	YES		NULL	

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	LocationID	int	NO	PRI	NULL	auto_increment
	LocationName	varchar(100)	YES		NULL	
	Address	text	YES		NULL	

Result Grid   Filter Rows:   Export:   Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
►	LocationID	int	NO	PRI	NULL	auto_increment
	LocationName	varchar(100)	YES		NULL	
	Address	text	YES		NULL	

Result Grid   Filter Rows:   Export:   Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
►	PaymentID	int	NO	PRI	NULL	auto_increment
	CourierID	int	YES	MUL	NULL	
	LocationID	int	YES	MUL	NULL	
	Amount	decimal(10,2)	YES		NULL	
	PaymentDate	date	YES		NULL	

## ER Diagram

