# **Hexaware Foundation Training 2025**

## Sql / Java Assignments

### **Courier Management System**

28/03/2025

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#### Task 4

### Task 4: Inner Join, Full Outer Join, Cross Join, Left Outer Join, Right Outer Join

- 23. Retrieve Payments with Courier Information
- 24. Retrieve Payments with Location Information
- 25. Retrieve Payments with Courier and Location Information
- 26. List all payments with courier details
- 27. Total payments received for each courier
- 28. List payments made on a specific date
- 29. Get Courier Information for Each Payment
- 30. Get Payment Details with Location
- 31. Calculating Total Payments for Each Courier
- 32. List Payments Within a Date Range
- 33. Retrieve a list of all users and their corresponding courier records, including cases where there are no matches on either side
- 34. Retrieve a list of all couriers and their corresponding services, including cases where there are no matches on either side
- 35. Retrieve a list of all employees and their corresponding payments, including cases where there are no matches on either side
- 36. List all users and all courier services, showing all possible combinations.
- 37. List all employees and all locations, showing all possible combinations:
- 38. Retrieve a list of couriers and their corresponding sender information (if available)
- 39. Retrieve a list of couriers and their corresponding receiver information (if available):
- 40. Retrieve a list of couriers along with the courier service details (if available):
- 41. Retrieve a list of employees and the number of couriers assigned to each employee:
- 42. Retrieve a list of locations and the total payment amount received at each location:
- 43. Retrieve all couriers sent by the same sender (based on SenderName).
- 44. List all employees who share the same role.
- 45. Retrieve all payments made for couriers sent from the same location.
- 46. Retrieve all couriers sent from the same location (based on SenderAddress).
- 47. List employees and the number of couriers they have delivered:
- 48. Find couriers that were paid an amount greater than the cost of their respective courier services

Ouery:

SELECT \* FROM Payment INNER JOIN Courier ON Payment.CourierID = Courier.CourierID;

SELECT \* FROM Payment INNER JOIN Location ON Payment.LocationID = Location.LocationID;

SELECT \* FROM Payment

INNER JOIN Courier ON Payment.CourierID = Courier.CourierID

INNER JOIN Location ON Payment.LocationID = Location.LocationID;

SELECT Payment.\*, Courier.\* FROM Payment INNER JOIN Courier ON Payment.CourierID = Courier.CourierID;

SELECT CourierID, SUM(Amount) AS TotalPayments FROM Payment GROUP BY CourierID;

SELECT \* FROM Payment WHERE PaymentDate = '2025-03-30';

SELECT Payment.\*, Courier.\* FROM Payment INNER JOIN Courier ON Payment.CourierID = Courier.CourierID;

SELECT Payment.\*, Location.\* FROM Payment INNER JOIN Location ON Payment.LocationID = Location.LocationID;

SELECT CourierID, SUM(Amount) AS TotalPayments FROM Payment GROUP BY CourierID;

SELECT \* FROM Payment WHERE PaymentDate BETWEEN '2025-03-01' AND '2025-03-30';

SELECT User.\*, Courier.\* FROM User LEFT JOIN Courier ON User.UserID = Courier.SenderName UNION

SELECT User.\*, Courier.\* FROM User RIGHT JOIN Courier ON User.UserID = Courier.SenderName;

SELECT Courier.\*, CourierServices.\* FROM Courier LEFT JOIN CourierServices ON Courier.CourierID = CourierServices.ServiceID

**UNION** 

SELECT Courier.\*, CourierServices.\* FROM Courier RIGHT JOIN CourierServices ON Courier.CourierID = CourierServices.ServiceID;

SELECT Employee.\*, Payment.\* FROM Employee LEFT JOIN Payment ON Employee.EmployeeID = Payment.CourierID

UNION

SELECT Employee.\*, Payment.\* FROM Employee RIGHT JOIN Payment ON Employee.EmployeeID = Payment.CourierID;

SELECT \* FROM User CROSS JOIN CourierServices;

SELECT \* FROM Employee CROSS JOIN Location;

SELECT Courier.\*, SenderName FROM Courier;

SELECT Courier.\*, ReceiverName FROM Courier;

SELECT Courier.\*, CourierServices.\* FROM Courier LEFT JOIN CourierServices ON Courier.CourierID = CourierServices.ServiceID;

SELECT EmployeeID, COUNT(CourierID) AS AssignedCouriers FROM Courier GROUP BY EmployeeID;

SELECT LocationID, SUM(Amount) AS TotalPayments FROM Payment GROUP BY LocationID;

SELECT \* FROM Courier WHERE SenderName = 'John Doe';

SELECT \* FROM Employee WHERE Role IN (SELECT Role FROM Employee GROUP BY Role HAVING COUNT(\*) > 1);

SELECT \* FROM Payment WHERE CourierID IN (SELECT CourierID FROM Courier WHERE SenderAddress = 'Chennai');

SELECT \* FROM Courier WHERE SenderAddress = 'Chennai';

SELECT EmployeeID, COUNT(CourierID) AS DeliveredCouriers FROM Courier GROUP BY EmployeeID;

SELECT Courier.CourierID, Payment.Amount, CourierServices.Cost FROM Payment INNER JOIN Courier ON Payment.CourierID = Courier.CourierID INNER JOIN CourierServices ON Courier.CourierID = CourierServices.ServiceID WHERE Payment.Amount > CourierServices.Cost;











