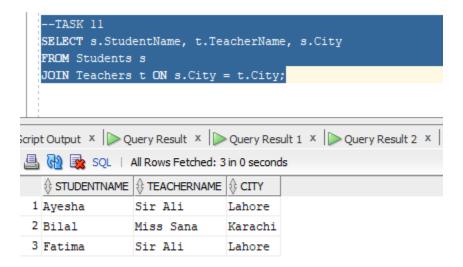
## POST LAB TASKS LAB 5

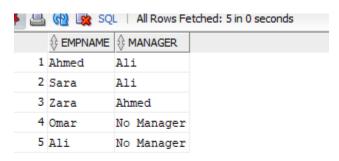
23K-0071

### **UROOJ BALOCH**

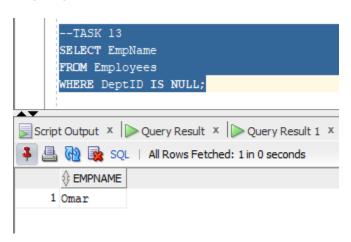
## **TASK 11:**



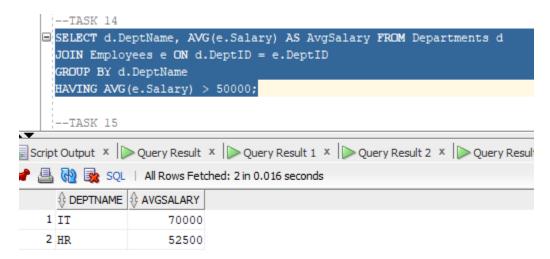
### **TASK 12:**



### **TASK 13:**



### **TASK 14:**



# **TASK 15:**

## **TASK 16:**

```
SELECT d.DeptName FROM Departments d

WHERE NOT EXISTS (

SELECT 1 FROM Employees e

WHERE e.DeptID = d.DeptID AND e.Salary < 30000

);

Script Output × Query Result × Query Result 1 × Query Result:

Script Output × All Rows Fetched: 4 in 0 seconds

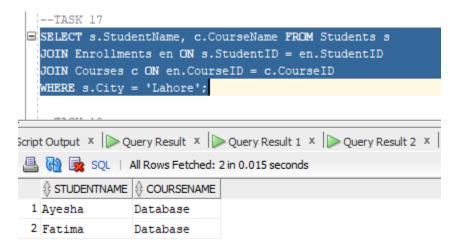
DEPTNAME

Marketing
Finance

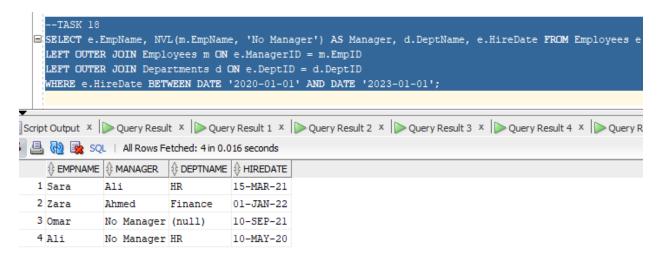
HR

HIT
```

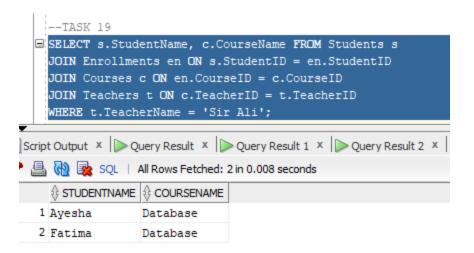
### **TASK 17:**



### **TASK 18:**



### **TASK 19:**



#### **TASK 20:**

```
SELECT e.EmpName, m.EmpName AS Manager, d.DeptName
FROM Employees e
JOIN Employees m ON e.ManagerID = m.EmpID
JOIN Departments d ON e.DeptID = d.DeptID
WHERE e.DeptID = m.DeptID;

Script Output × Query Result × Query Result 1 × Query Result 2 × Script Output × Query Result 2 × DeptID

Script Output × All Rows Fetched: 1 in 0.008 seconds

EMPNAME & MANAGER & DEPTNAME

1 Sara Ali HR
```

--TASK 11

SELECT s.StudentName, t.TeacherName, s.City FROM Students s JOIN Teachers t ON s.City = t.City;

--TASK 12

SELECT e.EmpName, NVL(m.EmpName, 'No Manager') AS Manager FROM Employees e LEFT OUTER JOIN Employees m ON e.ManagerID = m.EmpID;

--TASK 13

SELECT EmpName FROM Employees WHERE DeptID IS NULL;

--TASK 14

SELECT d.DeptName, AVG(e.Salary) AS AvgSalary FROM Departments d JOIN Employees e ON d.DeptID = e.DeptID GROUP BY d.DeptName HAVING AVG(e.Salary) > 50000;

--TASK 15

SELECT e.EmpName, e.Salary, d.DeptName FROM Employees e JOIN Departments d ON e.DeptID = d.DeptID WHERE e.Salary > ( SELECT AVG(Salary) FROM Employees WHERE DeptID = e.DeptID);

--TASK 16

SELECT d.DeptName FROM Departments d WHERE NOT EXISTS ( SELECT 1 FROM Employees e WHERE e.DeptID = d.DeptID AND e.Salary < 30000 );

--TASK 17

SELECT s.StudentName, c.CourseName FROM Students s JOIN Enrollments en ON s.StudentID = en.StudentID JOIN Courses c ON en.CourseID = c.CourseID WHERE s.City = 'Lahore';

--TASK 18

SELECT e.EmpName, NVL(m.EmpName, 'No Manager') AS Manager, d.DeptName, e.HireDate FROM Employees e LEFT OUTER JOIN Employees m ON e.ManagerID = m.EmpID LEFT OUTER JOIN Departments d ON e.DeptID = d.DeptID WHERE e.HireDate BETWEEN DATE '2020-01-01' AND DATE '2023-01-01';

### --TASK 19

SELECT s.StudentName, c.CourseName FROM Students s JOIN Enrollments en ON s.StudentID = en.StudentID JOIN Courses c ON en.CourseID = c.CourseID JOIN Teachers t ON c.TeacherID = t.TeacherID WHERE t.TeacherName = 'Sir Ali';

## --TASK 20

SELECT e.EmpName, m.EmpName AS Manager, d.DeptName FROM Employees e JOIN Employees m ON e.ManagerID = m.EmpID JOIN Departments d ON e.DeptID = d.DeptID WHERE e.DeptID = m.DeptID;