

1. Employees

```
CREATE TABLE Employees (  
    EmployeeID NUMBER PRIMARY KEY,  
    FirstName VARCHAR2(50),  
    LastName VARCHAR2(50),  
    DepartmentID NUMBER,  
    Salary NUMBER  
);
```

2. Departments

```
CREATE TABLE Departments (  
    DepartmentID NUMBER PRIMARY KEY,  
    DepartmentName VARCHAR2(50)  
);
```

Sample Data

-- Departments----

```
INSERT INTO Departments (DepartmentID, DepartmentName) VALUES (1, 'HR');  
INSERT INTO Departments (DepartmentID, DepartmentName) VALUES (2, 'IT');  
INSERT INTO Departments (DepartmentID, DepartmentName) VALUES (3,  
'Finance');
```

-- Employees---

```
INSERT INTO Employees (EmployeeID, FirstName, LastName, DepartmentID,  
Salary) VALUES (1, 'John', 'Doe', 1, 50000);  
INSERT INTO Employees (EmployeeID, FirstName, LastName, DepartmentID,  
Salary) VALUES (2, 'Jane', 'Smith', 2, 60000);  
INSERT INTO Employees (EmployeeID, FirstName, LastName, DepartmentID,  
Salary) VALUES (3, 'Sam', 'Brown', 3, 55000);  
INSERT INTO Employees (EmployeeID, FirstName, LastName, DepartmentID,  
Salary) VALUES (4, 'Lucy', 'Green', 2, 62000);  
INSERT INTO Employees (EmployeeID, FirstName, LastName, DepartmentID,  
Salary) VALUES (5, 'Mike', 'Johnson', 1, 52000);
```

Practice Queries and Solutions

1. Find the name of the department where 'Jane Smith' works.

```
SELECT DepartmentName  
FROM Departments  
WHERE DepartmentID = (SELECT DepartmentID  
    FROM Employees  
    WHERE FirstName = 'Jane'  
    AND LastName = 'Smith');
```

2. List all employees who work in the 'Finance' department.

```
SELECT FirstName, LastName  
FROM Employees  
WHERE DepartmentID = (SELECT DepartmentID  
    FROM Departments  
    WHERE DepartmentName = 'Finance');
```

3. Find the highest salary in the 'IT' department.

```
SELECT MAX(Salary)
FROM Employees
WHERE DepartmentID = (SELECT DepartmentID
                      FROM Departments
                      WHERE DepartmentName = 'IT');
```

4. List the names of employees who earn more than 'John Doe'.

```
SELECT FirstName, LastName
FROM Employees
WHERE Salary > (SELECT Salary
                FROM Employees
                WHERE FirstName = 'John'
                AND LastName = 'Doe');
```

5. Find the average salary of employees in the 'HR' department.

```
SELECT AVG(Salary)
FROM Employees
WHERE DepartmentID = (SELECT DepartmentID
                      FROM Departments
                      WHERE DepartmentName = 'HR');
```

6. List the departments that have at least one employee with a salary greater than 55,000.

```
SELECT DepartmentName
FROM Departments
WHERE DepartmentID IN (SELECT DISTINCT DepartmentID
                      FROM Employees
                      WHERE Salary > 55000);
```

7. Find the names of employees who work in the same department as 'Lucy Green'.

```
SELECT FirstName, LastName
FROM Employees
WHERE DepartmentID = (SELECT DepartmentID
                      FROM Employees
                      WHERE FirstName = 'Lucy'
                      AND LastName = 'Green');
```

8. List the departments with no employees.

```
SELECT DepartmentName
FROM Departments
WHERE DepartmentID NOT IN (SELECT DISTINCT DepartmentID
                          FROM Employees);
```