**Employee Management System SQL Exercises**

**Exercise 1: Create a Stored Procedure**

* **CODE:**

-- Create Departments Table

CREATE TABLE Departments (

DepartmentID INT PRIMARY KEY,

DepartmentName VARCHAR(100)

);

-- Create Employees Table

CREATE TABLE Employees (

EmployeeID INT PRIMARY KEY IDENTITY(1,1), -- Auto-increment ID

FirstName VARCHAR(50),

LastName VARCHAR(50),

DepartmentID INT FOREIGN KEY REFERENCES Departments(DepartmentID),

Salary DECIMAL(10,2),

JoinDate DATE

);

-- Sample Departments

INSERT INTO Departments (DepartmentID, DepartmentName) VALUES

(1, 'HR'),

(2, 'Finance'),

(3, 'IT'),

(4, 'Marketing');

-- Sample Employees

INSERT INTO Employees (FirstName, LastName, DepartmentID, Salary, JoinDate) VALUES

('John', 'Doe', 1, 5000.00, '2020-01-15'),

('Jane', 'Smith', 2, 6000.00, '2019-03-22'),

('Michael', 'Johnson', 3, 7000.00, '2018-07-30'),

('Emily', 'Davis', 4, 5500.00, '2021-11-05');

CREATE PROCEDURE sp\_GetEmployeesByDepartment

@DeptID INT

AS

BEGIN

SELECT

E.EmployeeID,

E.FirstName,

E.LastName,

D.DepartmentName,

E.Salary,

E.JoinDate

FROM Employees E

INNER JOIN Departments D ON E.DepartmentID = D.DepartmentID

WHERE E.DepartmentID = @DeptID;

END;

EXEC sp\_GetEmployeesByDepartment @DeptID = 3;

CREATE PROCEDURE sp\_InsertEmployee

@FirstName VARCHAR(50),

@LastName VARCHAR(50),

@DepartmentID INT,

@Salary DECIMAL(10,2),

@JoinDate DATE

AS

BEGIN

INSERT INTO Employees (FirstName, LastName, DepartmentID, Salary, JoinDate)

VALUES (@FirstName, @LastName, @DepartmentID, @Salary, @JoinDate);

END;

EXEC sp\_InsertEmployee

@FirstName = 'Sarah',

@LastName = 'Connor',

@DepartmentID = 2,

@Salary = 6200.00,

@JoinDate = '2023-05-10';

* **OUTPUT:**

