**Exercise 1: Create a Stored Procedure**

Goal: Create a stored procedure to retrieve employee details by department.

Steps:

1. Define the stored procedure with a parameter for DepartmentID.

2. Write the SQL query to select employee details based on the DepartmentID.

3. Create a stored procedure named `sp\_InsertEmployee` with the following code: 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;

ANS - QUERY :-

CREATE DATABASE ManagementDB;

USE ManagementDB;

CREATE TABLE Departments (

DepartmentID INT PRIMARY KEY,

DepartmentName VARCHAR(100)

);

CREATE TABLE Employees (

EmployeeID INT PRIMARY KEY AUTO\_INCREMENT,

FirstName VARCHAR(50),

LastName VARCHAR(50),

DepartmentID INT,

Salary DECIMAL(10,2),

JoinDate DATE,

FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID)

);

INSERT INTO Departments (DepartmentID, DepartmentName) VALUES

(1, 'HR'),

(2, 'Finance'),

(3, 'IT'),

(4, 'Marketing');

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

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

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

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

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

DELIMITER //

CREATE PROCEDURE sp\_GetEmployeesByDepartment(IN dept\_id INT)

BEGIN

SELECT

E.EmployeeID,

E.FirstName,

E.LastName,

D.DepartmentName,

E.Salary,

E.JoinDate

FROM Employees E

JOIN Departments D ON E.DepartmentID = D.DepartmentID

WHERE E.DepartmentID = dept\_id;

END //

DELIMITER ;

CALL sp\_GetEmployeesByDepartment(3);

DELIMITER //

CREATE PROCEDURE sp\_InsertEmployee(

IN p\_FirstName VARCHAR(50),

IN p\_LastName VARCHAR(50),

IN p\_DepartmentID INT,

IN p\_Salary DECIMAL(10,2),

IN p\_JoinDate DATE

)

BEGIN

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

VALUES (p\_FirstName, p\_LastName, p\_DepartmentID, p\_Salary, p\_JoinDate);

END //

DELIMITER ;

CALL sp\_InsertEmployee('Alice', 'Brown', 2, 6200.00, '2024-06-01');

OUTPUT -

