**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;

**CODE:**

CREATE PROCEDURE sp\_GetEmployeesByDepartment

@DepartmentID INT

AS

BEGIN

SELECT

EmployeeID,

FirstName,

LastName,

DepartmentID,

Salary,

JoinDate

FROM

Employees

WHERE

DepartmentID = @DepartmentID

ORDER BY

LastName, FirstName;

END;

CREATE OR ALTER 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);

SELECT SCOPE\_IDENTITY() AS NewEmployeeID;

END;

GO

//Insert sample data using the stored procedure

-- Department 1 Employees

EXEC sp\_InsertEmployee 'John', 'Smith', 1, 75000.00, '2020-05-15';

EXEC sp\_InsertEmployee 'Sarah', 'Johnson', 1, 82000.00, '2019-03-10';

EXEC sp\_InsertEmployee 'Robert', 'Davis', 1, 78000.00, '2022-02-18';

-- Department 2 Employees

EXEC sp\_InsertEmployee 'Michael', 'Williams', 2, 68000.00, '2021-01-20';

EXEC sp\_InsertEmployee 'Emily', 'Brown', 2, 72000.00, '2020-11-05';

-- Department 3 Employees

EXEC sp\_InsertEmployee 'David', 'Jones', 3, 90000.00, '2018-07-22';

EXEC sp\_InsertEmployee 'Jennifer', 'Wilson', 3, 85000.00, '2019-09-14';

GO

SELECT \* FROM Employees ORDER BY DepartmentID, LastName;

GO

**OUTPUT:**

