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:-

```
USE EmployeeManagementDB;  -- Change to your DB name
GO

-- Create Insert Stored Procedure
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;
GO

-- Create Select Stored Procedure
CREATE PROCEDURE sp_GetEmployeesByDepartment
    @DepartmentID INT
AS
BEGIN
    SELECT
```

```
        EmployeeID,
        FirstName,
        LastName,
        Salary,
        JoinDate
    FROM
        Employees
    WHERE
        DepartmentID = @DepartmentID;
END;
GO

-- Test the insert
EXEC sp_InsertEmployee
    @FirstName = 'Alice',
    @LastName = 'Williams',
    @DepartmentID = 2,
    @Salary = 6200.00,
    @JoinDate = '2023-06-01';
GO

-- Test the select
EXEC sp_GetEmployeesByDepartment @DepartmentID = 2;
GO
```

OUTPUT:-

```
(1 rows affected)
EmployeeID  FirstName                                                                                         Las
                                                             Salary       JoinDate
----------- ------------------------------------------------------------------------------------------------ ---
------------------------------------------------------------ ------------ ----------------
          2 Jane                                                                                              Smi
                                                                  6000.00       2019-03-22
          5 Alice                                                                                             Wil
                                                                  6200.00       2023-06-01

(2 rows affected)
```