**Exercise 5: Return Data from a Stored Procedure**

Goal: Create a stored procedure that returns the total number of employees in a

department.

Steps:

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

2. Write the SQL query to count the number of employees in the specified department.

3. Save the stored procedure by executing the Stored procedure content.

CODE:

//1. Create sample tables if they don't exist

CREATE TABLE Departments (

DepartmentID INT PRIMARY KEY,

DepartmentName VARCHAR(50) NOT NULL

);

CREATE TABLE Employees (

EmployeeID INT PRIMARY KEY,

EmployeeName VARCHAR(100) NOT NULL,

DepartmentID INT FOREIGN KEY REFERENCES Departments(DepartmentID)

);

// 2. Insert sample data

INSERT INTO Departments VALUES

(1, 'Human Resources'),

(2, 'Marketing'),

(3, 'Information Technology'),

(4, 'Finance');

INSERT INTO Employees VALUES

(1, 'John Smith', 2),

(2, 'Sarah Johnson', 2),

(3, 'Michael Brown', 1),

(4, 'Emily Davis', 2),

(5, 'David Wilson', 3),

(6, 'Lisa Miller', 2),

(7, 'James Taylor', 2),

(8, 'Emma Anderson', 2),

(9, 'Robert Thomas', 1),

(10, 'Olivia Martin', 3);

//3. Create the stored procedure

CREATE PROCEDURE GetEmployeeCountByDepartment

@DepartmentID INT

AS

BEGIN

SELECT

d.DepartmentName,

COUNT(e.EmployeeID) AS EmployeeCount

FROM

Departments d

LEFT JOIN

Employees e ON d.DepartmentID = e.DepartmentID

WHERE

d.DepartmentID = @DepartmentID

GROUP BY

d.DepartmentName;

END;

GO

// 4. Execute the stored procedure with different parameters

-- Example 1: Marketing department (ID 2)

EXEC GetEmployeeCountByDepartment @DepartmentID = 2;

**OUTPUT**

