**4. SQL Exercise Stored procedure**

**Exercise 1: Create a Stored Procedure**

USE AdvSQL;

GO

CREATE TABLE Departments (

DepartmentID INT PRIMARY KEY,

DepartmentName VARCHAR(100)

);

CREATE TABLE Employees (

EmployeeID INT PRIMARY KEY IDENTITY(1,1),

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');

GO

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');

GO

SELECT \* FROM Departments;

SELECT \* FROM Employees;

CREATE PROCEDURE sp\_GetEmployeesByDepartment

@DepartmentID INT

AS

BEGIN

SELECT \*

FROM Employees

WHERE DepartmentID = @DepartmentID;

END;

GO

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

EXEC sp\_GetEmployeesByDepartment 3;

