**Exercise 1: Create a Stored Procedure**

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

**QUERY:**

USE EmployeeManagement;

go

DROP TABLE IF EXISTS EMPLOYEES;

DROP TABLE IF EXISTS DEPARTMENTS;

CREATE TABLE Departments (

DepartmentID INT PRIMARY KEY,

DepartmentName VARCHAR(100)

);

CREATE TABLE Employees (

EmployeeID INT PRIMARY KEY IDENTITY(1,1), -- Added IDENTITY for auto-increment

FirstName VARCHAR(50),

LastName VARCHAR(50),

DepartmentID INT FOREIGN KEY REFERENCES Departments(DepartmentID),

Salary DECIMAL(10,2),

JoinDate DATE

);

-- Insert into Departments

INSERT INTO Departments (DepartmentID, DepartmentName) VALUES

(1, 'HR'),

(2, 'Finance'),

(3, 'IT'),

(4, 'Marketing');

-- Insert into Employees

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');

SELECT \* FROM DEPARTMENTS;

SELECT \* FROM Employees;

USE EmployeeManagement;

GO

DROP PROCEDURE if exists sp\_GetEmployeesByDepartment;

DROP PROCEDURE IF EXISTS SP\_INSERTEMPLOYEE;

go

--CREATE A STORED PROCEDURE

CREATE PROCEDURE sp\_GetEmployeesByDepartment

@DeptID INT

AS

BEGIN

SELECT EmployeeID, FirstName, LastName, JoinDate

FROM Employees

WHERE DepartmentID = @DeptID;

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;

**Exercise 4: Execute a Stored Procedure**

Goal: Execute the stored procedure to retrieve employee details for a specific department.

**QUERY:**

--EXECUTE STORED PROCEDURE

EXEC sp\_GetEmployeesByDepartment @DeptID = 3;

EXEC sp\_InsertEmployee

@FirstName = 'Sarah',

@LastName = 'Lee',

@DepartmentID = 2,

@Salary = 6200.00,

@JoinDate = '2022-05-01';

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

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

department.

**QUERY:**

DROP PROCEDURE IF EXISTS sp\_CountEmployeesInDepartment;

GO

--RETURN TOTAL NUMBER OF EMPLOYEES IN A DEPARTMENT

CREATE PROCEDURE sp\_CountEmployeesInDepartment

@DeptID INT

AS

BEGIN

SELECT COUNT(\*) AS TotalEmployees

FROM Employees

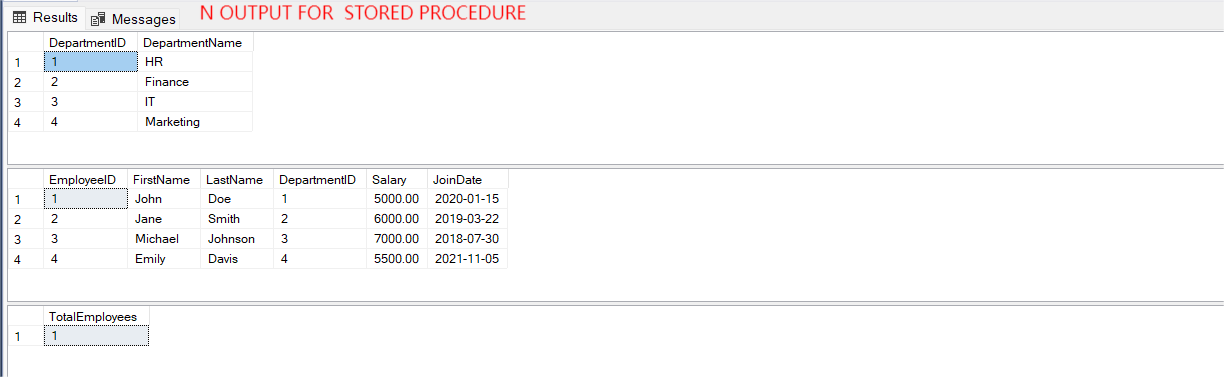
WHERE DepartmentID = @DeptID;

END;

GO

EXEC sp\_CountEmployeesInDepartment @DeptID = 2;

**OUTPUT:**

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