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Week 2  
Exercise 1: Create a Stored Procedure  
  
1. Define the stored procedure with a parameter for DepartmentID.  
**Query:**

CREATE PROCEDURE sp\_GetEmployeesByDepartment

@DepartmentID INT

AS

BEGIN

SET NOCOUNT ON;

SELECT

e.EmployeeID,

e.FirstName,

e.LastName,

d.DepartmentName,

e.Salary,

e.JoinDate

FROM Employees e

INNER JOIN Departments d ON e.DepartmentID = d.DepartmentID

WHERE e.DepartmentID = @DepartmentID

ORDER BY e.LastName, e.FirstName;

END;

2. Write the SQL query to select employee details based on the DepartmentID.  
**Query:**

CREATE PROCEDURE sp\_InsertEmployee

@FirstName VARCHAR(50),

@LastName VARCHAR(50),

@DepartmentID INT,

@Salary DECIMAL(10,2),

@JoinDate DATE

AS

BEGIN

SET NOCOUNT ON;

DECLARE @NextEmployeeID INT;

SELECT @NextEmployeeID = ISNULL(MAX(EmployeeID), 0) + 1 FROM Employees;

INSERT INTO Employees (EmployeeID, FirstName, LastName, DepartmentID, Salary, JoinDate)

VALUES (@NextEmployeeID, @FirstName, @LastName, @DepartmentID, @Salary, @JoinDate);

SELECT @NextEmployeeID AS NewEmployeeID;

END;  
  
3. Create a stored procedure named `sp\_InsertEmployee`  
**Query:**

PRINT 'Testing sp\_GetEmployeesByDepartment for IT Department (ID = 3):';

EXEC sp\_GetEmployeesByDepartment @DepartmentID = 3;

PRINT 'Testing sp\_GetEmployeesByDepartment for HR Department (ID = 1):';

EXEC sp\_GetEmployeesByDepartment @DepartmentID = 1;

PRINT 'Testing sp\_InsertEmployee - Adding new employee:';

EXEC sp\_InsertEmployee

@FirstName = 'Sarah',

@LastName = 'Wilson',

@DepartmentID = 3,

@Salary = 6500.00,

@JoinDate = '2025-06-29';

PRINT 'Verifying the new employee was added:';

SELECT \* FROM Employees WHERE FirstName = 'Sarah' AND LastName = 'Wilson';

PRINT 'All IT Department employees after insertion:';

EXEC sp\_GetEmployeesByDepartment @DepartmentID = 3;  
  
  
Output:  
A screenshot of a computer

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