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Week 2  
Exercise 5: Return Data from a Stored Procedure  
  
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.  
  
**Query:**

USE week2;

GO

CREATE PROCEDURE sp\_CountEmployeesByDepartment

@DepartmentID INT

AS

BEGIN

SET NOCOUNT ON;

SELECT

d.DepartmentName,

COUNT(e.EmployeeID) AS TotalEmployees

FROM Departments d

LEFT JOIN Employees e ON d.DepartmentID = e.DepartmentID

WHERE d.DepartmentID = @DepartmentID

GROUP BY d.DepartmentName;

END;

GO

3. Save the stored procedure by executing the Stored procedure content.  
**Query:**

USE week2;

PRINT 'Testing sp\_CountEmployeesByDepartment:';

PRINT '======================================';

PRINT 'HR Department:';

EXEC sp\_CountEmployeesByDepartment @DepartmentID = 1;

PRINT 'IT Department:';

EXEC sp\_CountEmployeesByDepartment @DepartmentID = 3;

PRINT 'Finance Department:';

EXEC sp\_CountEmployeesByDepartment @DepartmentID = 2;

PRINT 'Marketing Department:';

EXEC sp\_CountEmployeesByDepartment @DepartmentID = 4;

PRINT '';

PRINT 'Testing sp\_CountEmployeesByDepartment\_Output:';

DECLARE @Count INT;

EXEC sp\_CountEmployeesByDepartment\_Output @DepartmentID = 3, @EmployeeCount = @Count OUTPUT;

PRINT 'IT Department has ' + CAST(@Count AS VARCHAR(10)) + ' employees';

EXEC sp\_CountEmployeesByDepartment\_Output @DepartmentID = 1, @EmployeeCount = @Count OUTPUT;

PRINT 'HR Department has ' + CAST(@Count AS VARCHAR(10)) + ' employees';  
  
**Output:**A screenshot of a computer

AI-generated content may be incorrect.