**WEEK 2\_ Execute a Stored Procedure**

Exercise 4: Execute a Stored Procedure Goal:

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

Steps:

1. Write the SQL command to execute the stored procedure with a DepartmentID parameter.

2. Execute the command and review the results.

QUERY:

-- Drop tables if they exist (for a clean start)

IF OBJECT\_ID('Employees', 'U') IS NOT NULL DROP TABLE Employees;

IF OBJECT\_ID('Departments', 'U') IS NOT NULL DROP TABLE Departments;

GO

-- Create Departments table

CREATE TABLE Departments (

DepartmentID INT PRIMARY KEY,

DepartmentName VARCHAR(100)

);

GO

-- Create Employees table

CREATE TABLE Employees (

EmployeeID INT IDENTITY(1,1) PRIMARY KEY,

FirstName VARCHAR(50),

LastName VARCHAR(50),

DepartmentID INT FOREIGN KEY REFERENCES Departments(DepartmentID),

Salary DECIMAL(10,2),

JoinDate DATE

);

GO

-- Insert sample data into Departments

INSERT INTO Departments (DepartmentID, DepartmentName) VALUES

(1, 'HR'),

(2, 'Finance'),

(3, 'IT'),

(4, 'Marketing');

GO

-- Insert sample data 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');

GO

-- Drop stored procedure if it exists

IF OBJECT\_ID('sp\_GetEmployeesByDepartment', 'P') IS NOT NULL

DROP PROCEDURE sp\_GetEmployeesByDepartment;

GO

-- Create stored procedure to get employees by department

CREATE PROCEDURE sp\_GetEmployeesByDepartment

@DeptID INT

AS

BEGIN

SELECT

EmployeeID,

FirstName,

LastName,

DepartmentID,

Salary,

JoinDate

FROM Employees

WHERE DepartmentID = @DeptID;

END;

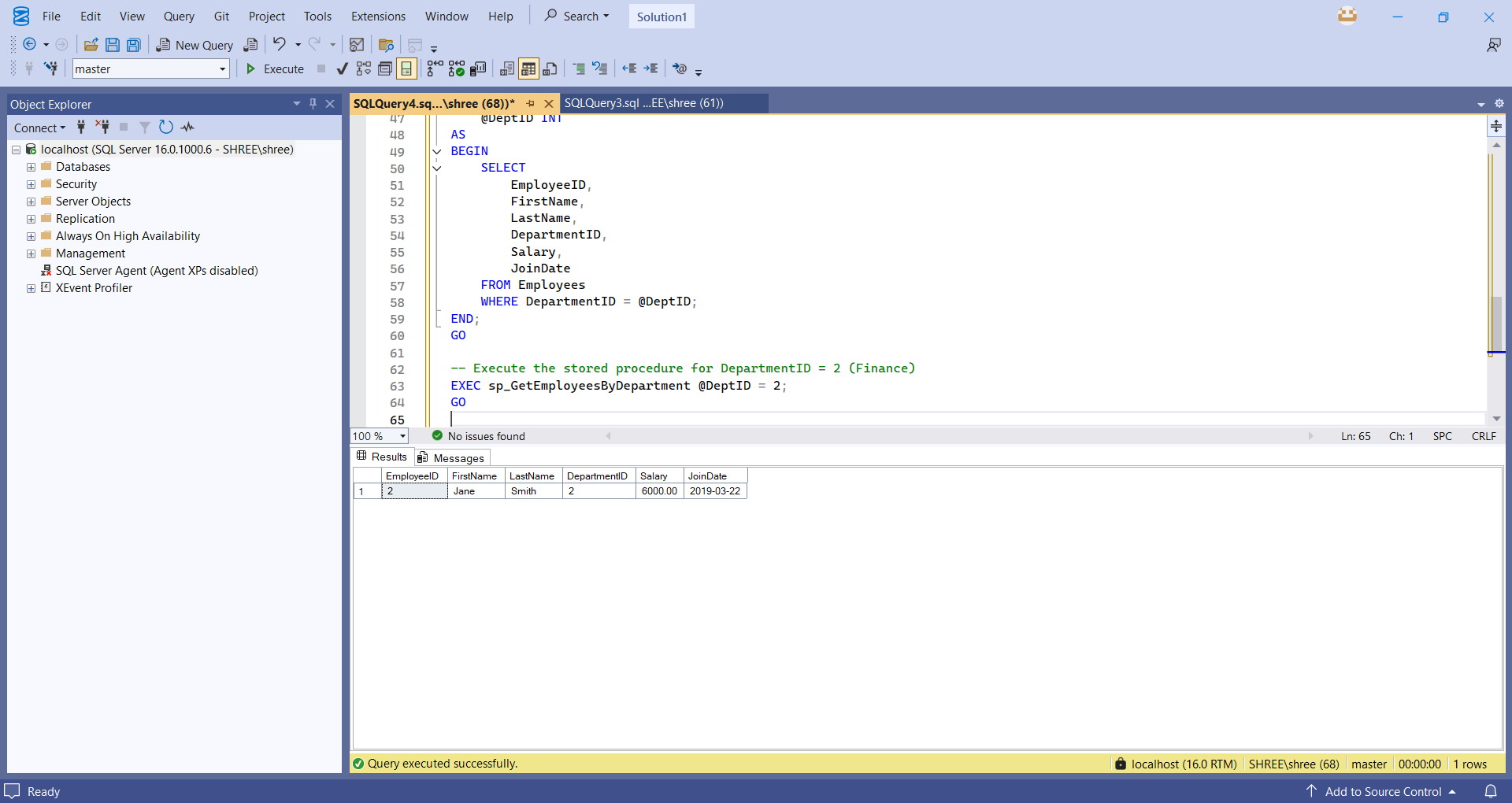
GO

-- Execute the stored procedure for DepartmentID = 2 (Finance)

EXEC sp\_GetEmployeesByDepartment @DeptID = 2;

GO

**OUTPUT:**

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