

## Exercise 5: Return Data from a Stored Procedure

### Goal:

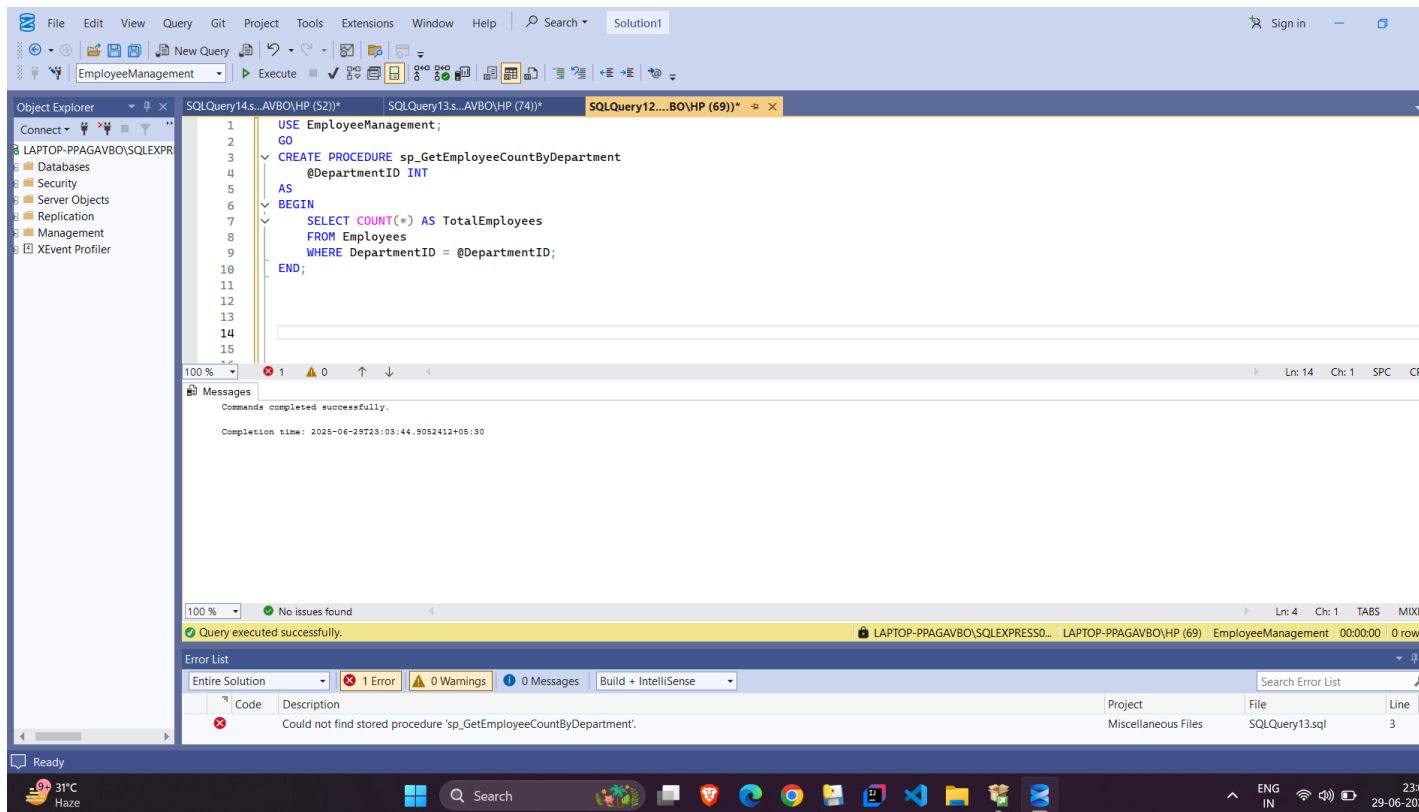
Create a stored procedure that returns the total number of employees in a department.

### Steps:

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.
3. Save the stored procedure by executing the stored procedure content.

### Stored Procedure Definition

```
CREATE OR ALTER PROCEDURE sp_GetEmployeeCountByDepartment
    @DepartmentID INT
AS
BEGIN
    SELECT COUNT(*) AS TotalEmployees
    FROM EmployeeManagement.dbo.Employees
    WHERE DepartmentID = @DepartmentID;
END;
```



## How to Execute the Stored Procedure

*USE EmployeeManagement;  
GO*

*EXEC sp\_GetEmployeeCountByDepartment @DepartmentID = 3;*

## Output

The screenshot displays the SQL Server Enterprise Manager interface. The query window shows the following SQL code:

```
1 USE EmployeeManagement;  
2 GO  
3 EXEC sp_GetEmployeeCountByDepartment @DepartmentID = 3;  
4
```

The Results pane shows a single row of data:

TotalEmployees
2

The Error List pane shows a single error:

Code	Description	Project	File	Line
	Could not find stored procedure 'sp_GetEmployeeCountByDepartment'.	Miscellaneous Files	SQLQuery13.sql	3

The status bar at the bottom indicates the query was executed successfully.

# Verification

Object Explorer

Connect

LAPTOP-PPAGAVBO\SQLEXPRESS

Databases

Security

Server Objects

Replication

Management

XEvent Profiler

SQLQuery14....BO\HP (52))\*

SQLQuery13.s...AVBO\HP (74))\*

SQLQuery12.s...AVBO\HP (69))\*

File

Edit

View

Query

Git

Project

Tools

Extensions

Window

Help

Search

Solution1

EmployeeManagement

Execute

Check

Save

Print

Format

Copy

Paste

Undo

Redo

Find

Replace

Zoom

Full Screen

Exit

1

2

3

4

SELECT

DepartmentID,

COUNT(\*)

AS

NumEmployees

FROM

Employees

GROUP BY

DepartmentID;

100 %

No issues found

Ln: 4

Ch: 1

TABS

CRLF

Results

Messages

	DepartmentID	NumEmployees
1	1	1
2	2	1
3	3	2
4	4	1

Query executed successfully.

LAPTOP-PPAGAVBO\SQLEXPRESSO...

LAPTOP-PPAGAVBO\HP (52)

EmployeeManagement

00:00:00

4 rows

Error List