**Exercise 1: Create a Stored Procedure**

**-- Drop the table if it exists**

**IF OBJECT\_ID('Employees', 'U') IS NOT NULL**

**DROP TABLE Employees;**

**GO**

**-- Create the Employees table**

**CREATE TABLE Employees (**

**EmpID INT PRIMARY KEY,**

**Name VARCHAR(50),**

**Department VARCHAR(50),**

**Salary INT**

**);**

**GO**

**-- Insert sample data**

**INSERT INTO Employees (EmpID, Name, Department, Salary) VALUES**

**(1, 'Alice', 'HR', 50000),**

**(2, 'Bob', 'IT', 70000),**

**(3, 'Charlie', 'IT', 70000),**

**(4, 'David', 'HR', 45000),**

**(5, 'Eva', 'IT', 60000),**

**(6, 'Frank', 'Finance', 75000),**

**(7, 'Grace', 'Finance', 75000),**

**(8, 'Hannah', 'HR', 50000);**

**GO**

**-- Drop the stored procedure if it exists**

**IF OBJECT\_ID('GetEmployeeRanking', 'P') IS NOT NULL**

**DROP PROCEDURE GetEmployeeRanking;**

**GO**

**-- Create the stored** procedure

CREATE PROCEDURE GetEmployeeRanking

AS

BEGIN

SELECT

EmpID,

Name,

Department,

Salary,

RANK() OVER (PARTITION BY Department ORDER BY Salary DESC) AS Salary\_Rank,

DENSE\_RANK() OVER (PARTITION BY Department ORDER BY Salary DESC) AS Dense\_Salary\_Rank,

ROW\_NUMBER() OVER (PARTITION BY Department ORDER BY Salary DESC) AS Row\_Num,

NTILE(2) OVER (PARTITION BY Department ORDER BY Salary DESC) AS Salary\_Tile,

SUM(Salary) OVER (PARTITION BY Department) AS Dept\_Total\_Salary,

AVG(Salary \* 1.0) OVER (PARTITION BY Department) AS Dept\_Avg\_Salary,

LAG(Salary, 1, NULL) OVER (PARTITION BY Department ORDER BY Salary DESC) AS Prev\_Salary

FROM Employees

ORDER BY Department, Salary DESC;

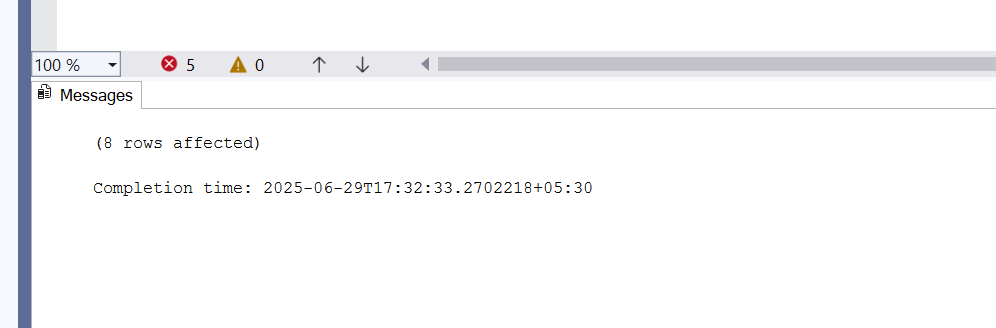
END;

GO

-- Call the stored procedure

EXEC GetEmployeeRanking;

**Output**

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