Exercise 1: Ranking and Window Functions:

-- Create database and use it

CREATE DATABASE EmployeeDB;

GO

USE EmployeeDB;

GO

-- Create Employees table

CREATE TABLE Employees (

EmpID INT PRIMARY KEY,

EmpName VARCHAR(100),

Department VARCHAR(50),

Salary INT

);

GO

-- Inserting 15 employee records with custom names

INSERT INTO Employees (EmpID, EmpName, Department, Salary) VALUES

(1, 'Manideep', 'HR', 50000),

(2, 'Kavya', 'HR', 55000),

(3, 'Shashi', 'HR', 50000),

(4, 'Praveen', 'IT', 70000),

(5, 'Saikumar', 'IT', 75000),

(6, 'Rahul', 'IT', 70000),

(7, 'Siddu', 'Sales', 60000),

(8, 'Rohit', 'Sales', 62000),

(9, 'Raviteja', 'Sales', 60000),

(10, 'Bhanu', 'Sales', 58000),

(11, 'Sankeerthana', 'Finance', 67000),

(12, 'Akshaya', 'Finance', 66000),

(13, 'Jyothi', 'Finance', 67000),

(14, 'Mallaiah', 'Finance', 64000),

(15, 'Rama', 'Finance', 62000);

GO

-- Applying Ranking and Window Functions

SELECT

EmpID,

EmpName,

Department,

Salary,

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

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

DENSE\_RANK() OVER (PARTITION BY Department ORDER BY Salary DESC) AS DenseRank,

NTILE(3) OVER (PARTITION BY Department ORDER BY Salary DESC) AS SalaryGroup

FROM Employees;

GO

Output:

