**WEEK - 2 : Advanced SQL (Part 1)**

**Exercise 1: Ranking and Window Functions**

**SQL Queries:**

-- ROW\_NUMBER

SELECT EmpID, EmpName, Department, Salary,

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

FROM Employees;

-- RANK

SELECT EmpID, EmpName, Department, Salary,

RANK() OVER (PARTITION BY Department ORDER BY Salary DESC) AS RankPos

FROM Employees;

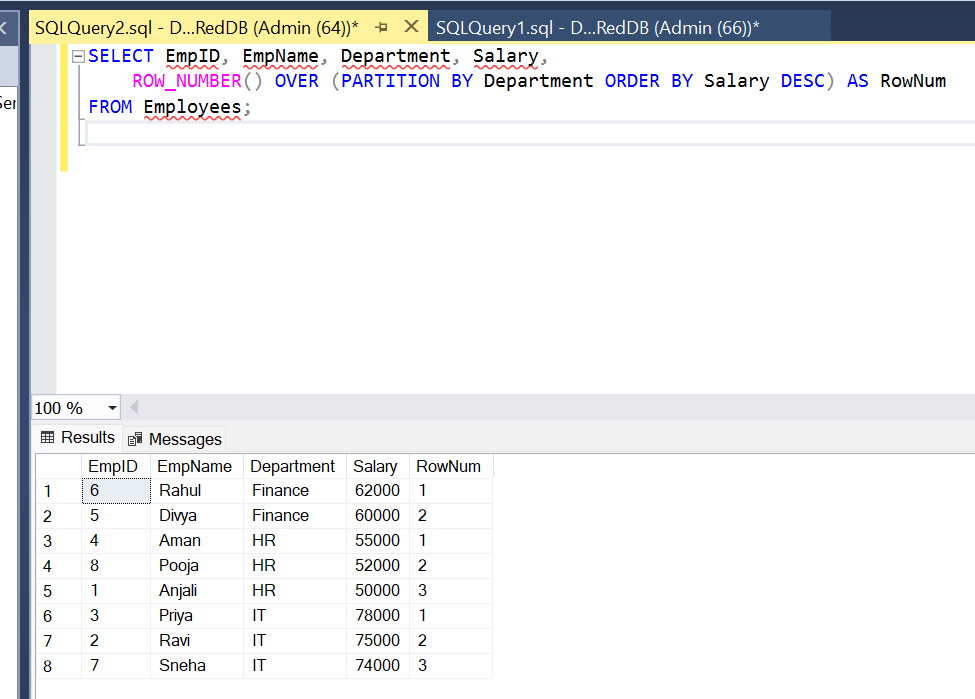
-- DENSE\_RANK

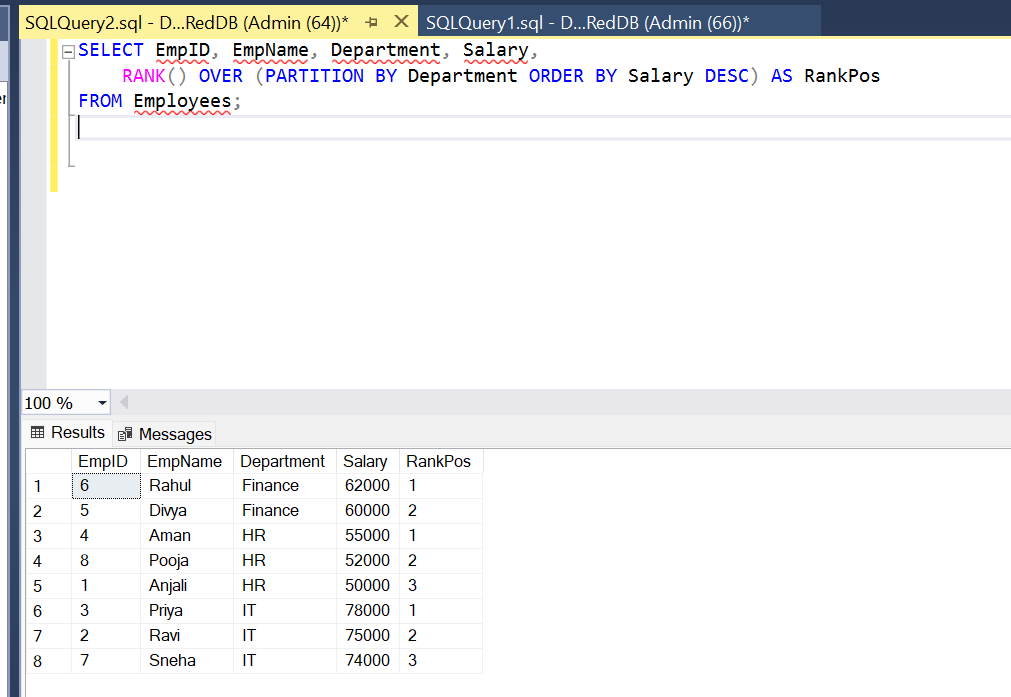
SELECT EmpID, EmpName, Department, Salary,

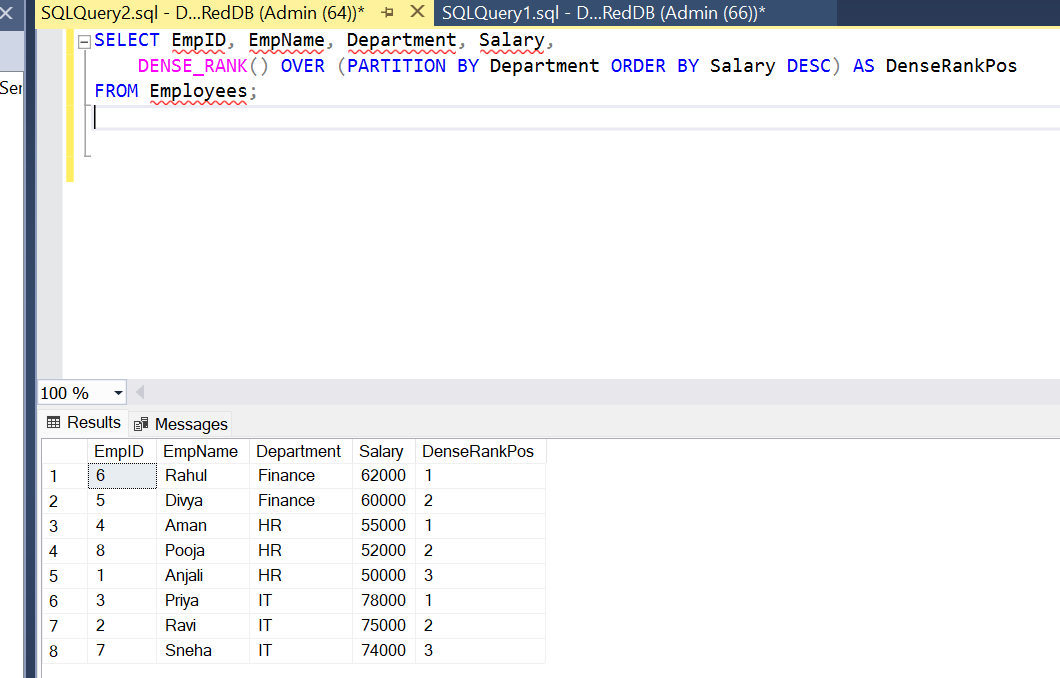
DENSE\_RANK() OVER (PARTITION BY Department ORDER BY Salary DESC) AS DenseRankPos

FROM Employees;

**Outputs:**

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**Exercise 2: Index**

**SQL Queries:**

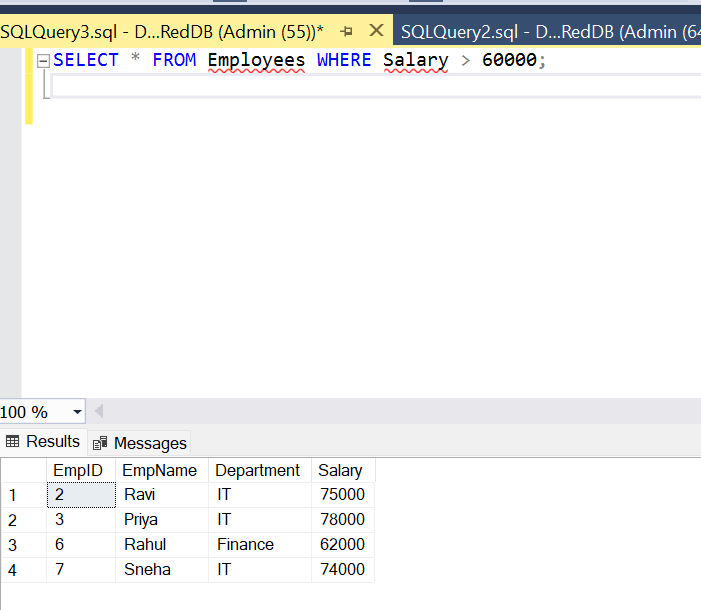
-- Create Index on Salary

CREATE NONCLUSTERED INDEX idx\_salary ON Employees(Salary);

-- Query using Indexed Column

SELECT \* FROM Employees WHERE Salary > 60000;

**Output:**

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