SQL Server GROUP BY Clause

SQL Server GROUP BY clause is used to collect data across multiple records and group the results by one or more columns. It is used with SELECT statement.

Syntax:

1. SELECT expression1, expression2, ... expression_n,
2. aggregate_function (expression)
3. FROM tables
4. [WHERE conditions]
5. GROUPBY expression1, expression2, ... expression_n;

Parameter explanation

expression1, expression2, ... expression_n: These expressions are not encapsulated within an aggregate function and must be included in the GROUP BY clause.

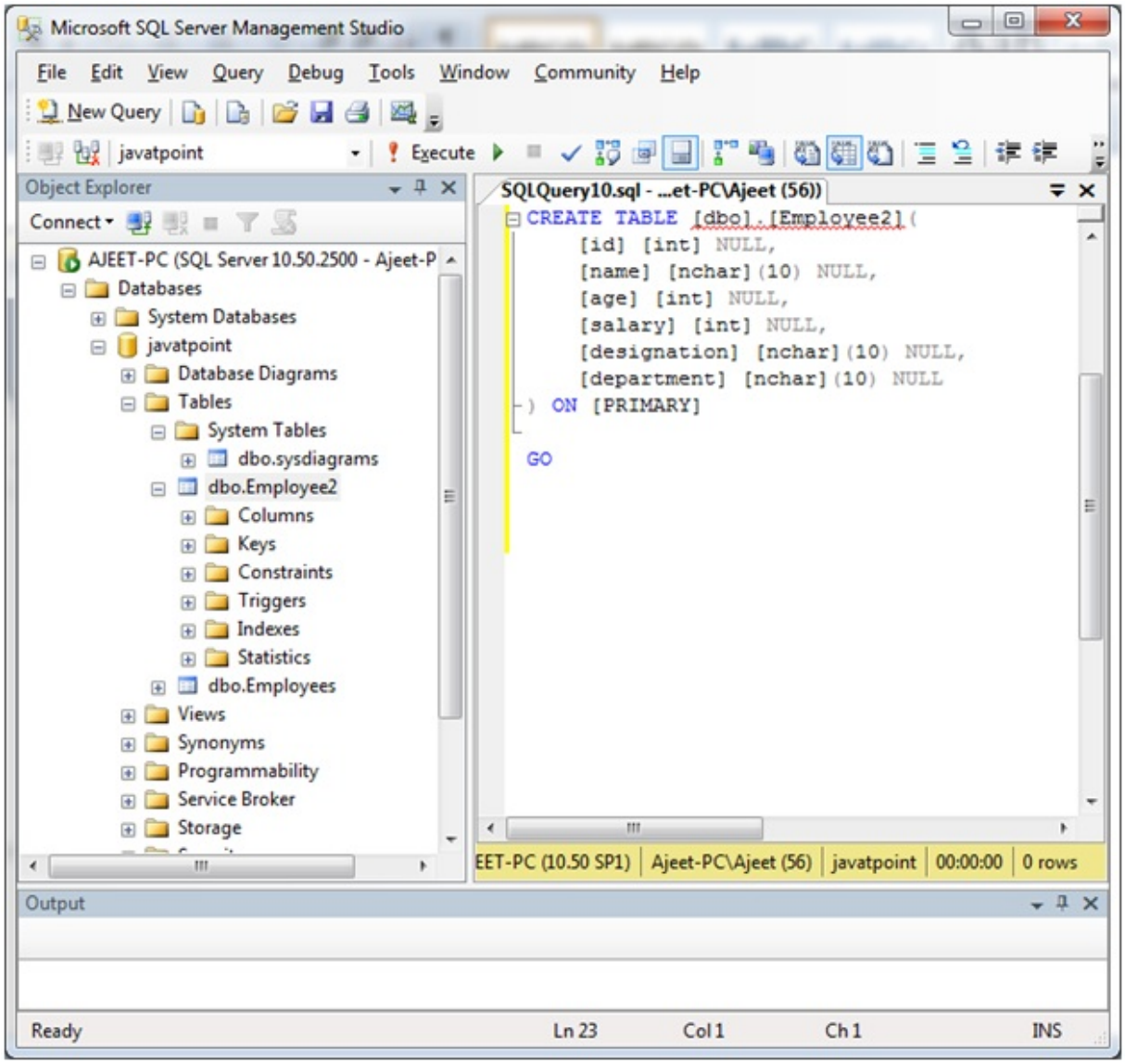
aggregate_function: It can be a function such as SUM, COUNT, MIN, MAX, or AVG functions.

tables: The tables that you wish to retrieve records from. There must be at least one table listed in the FROM clause.

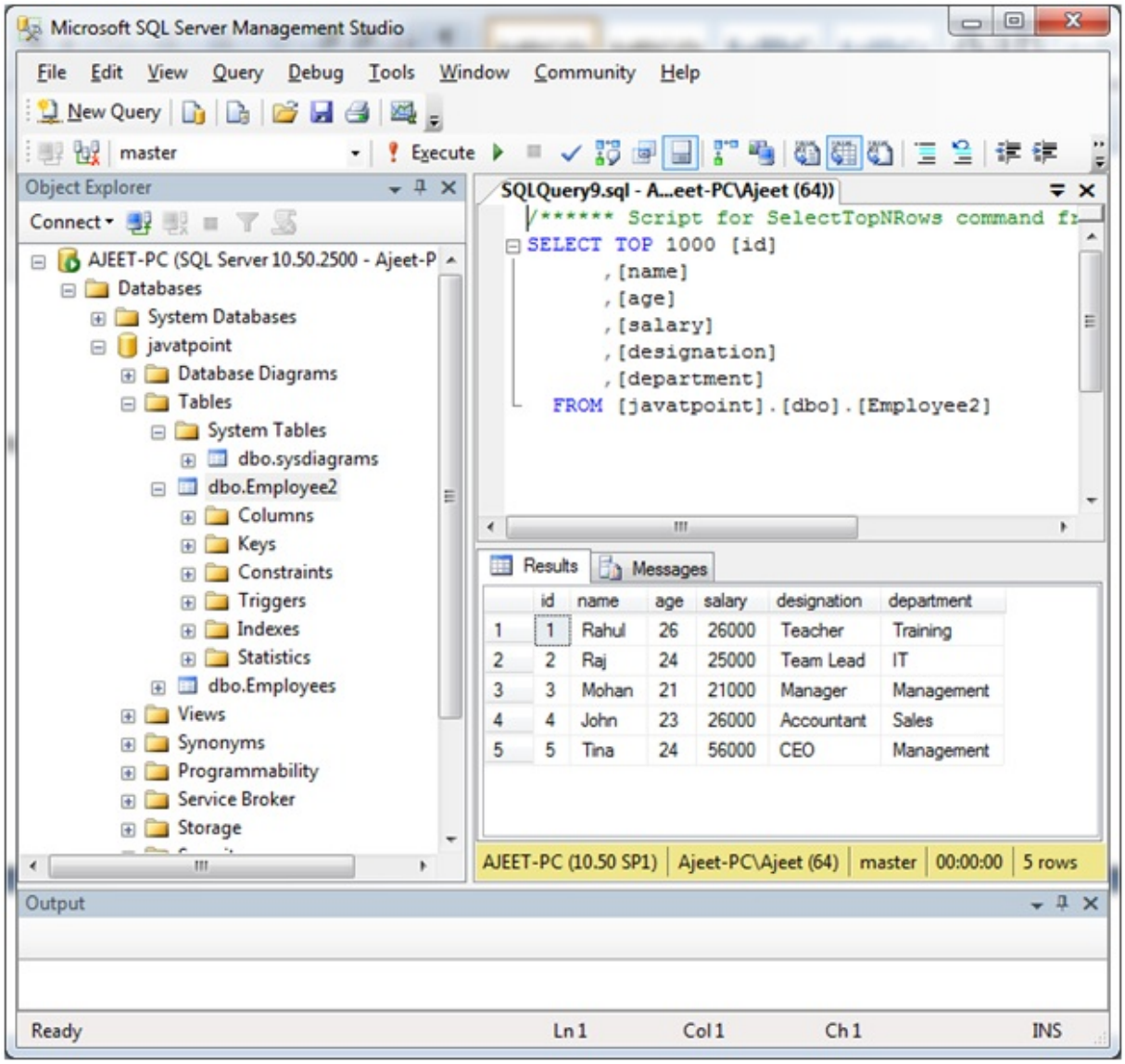
WHERE conditions: It is optional. The conditions that must be met for the records to be selected.

Example:

First create a table "Employee2":



Following is a list of some inserted data in the table.

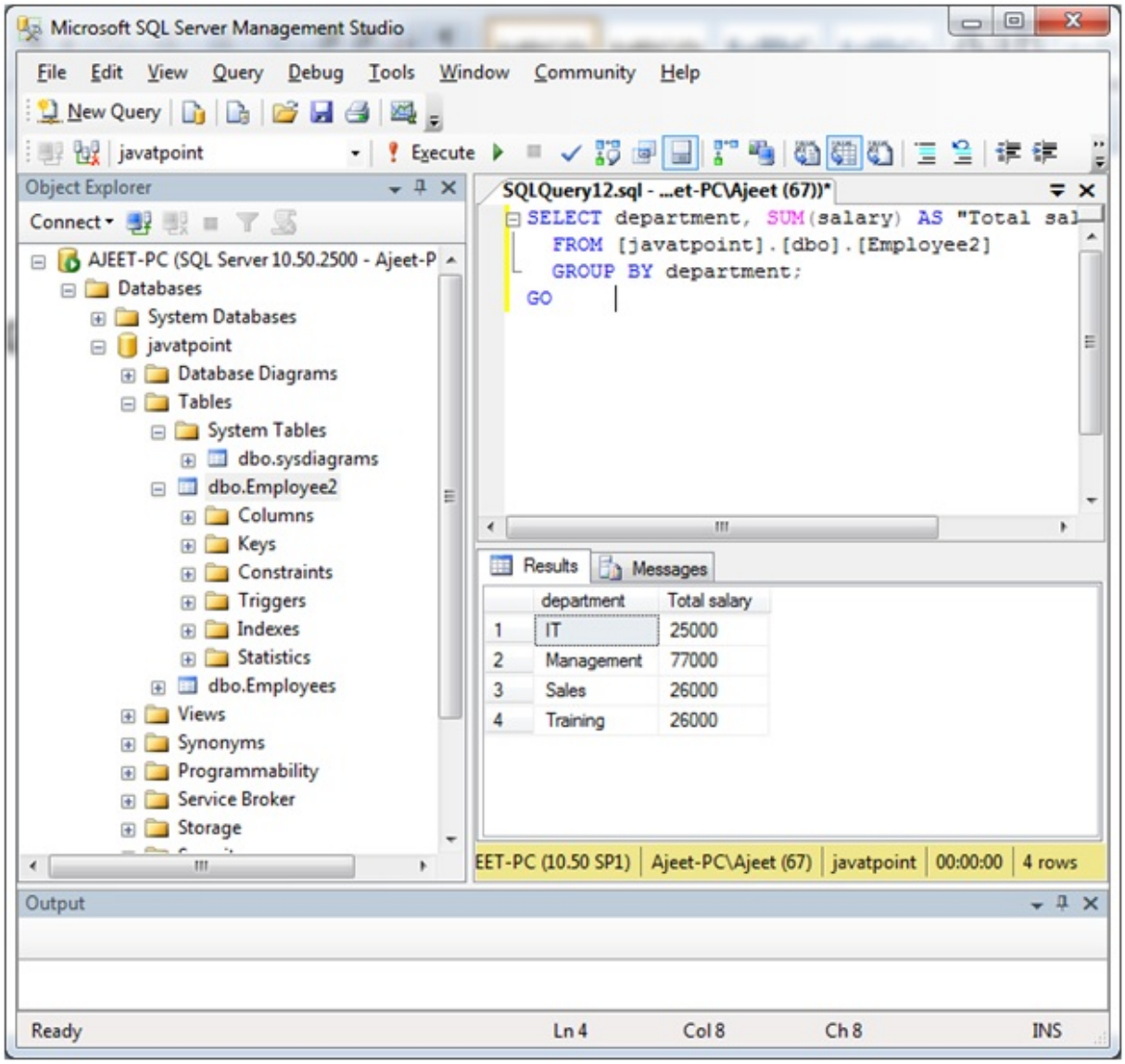


GROUP By using SUM Function

See this example where we GROUP BY department from the "Employee2" using SUM function:

```
1. SELECT department, SUM(salary) AS"Total salary"
2.  FROM [javatpoint].[dbo].[Employee2]
3.  GROUPBY department;
```

Output:

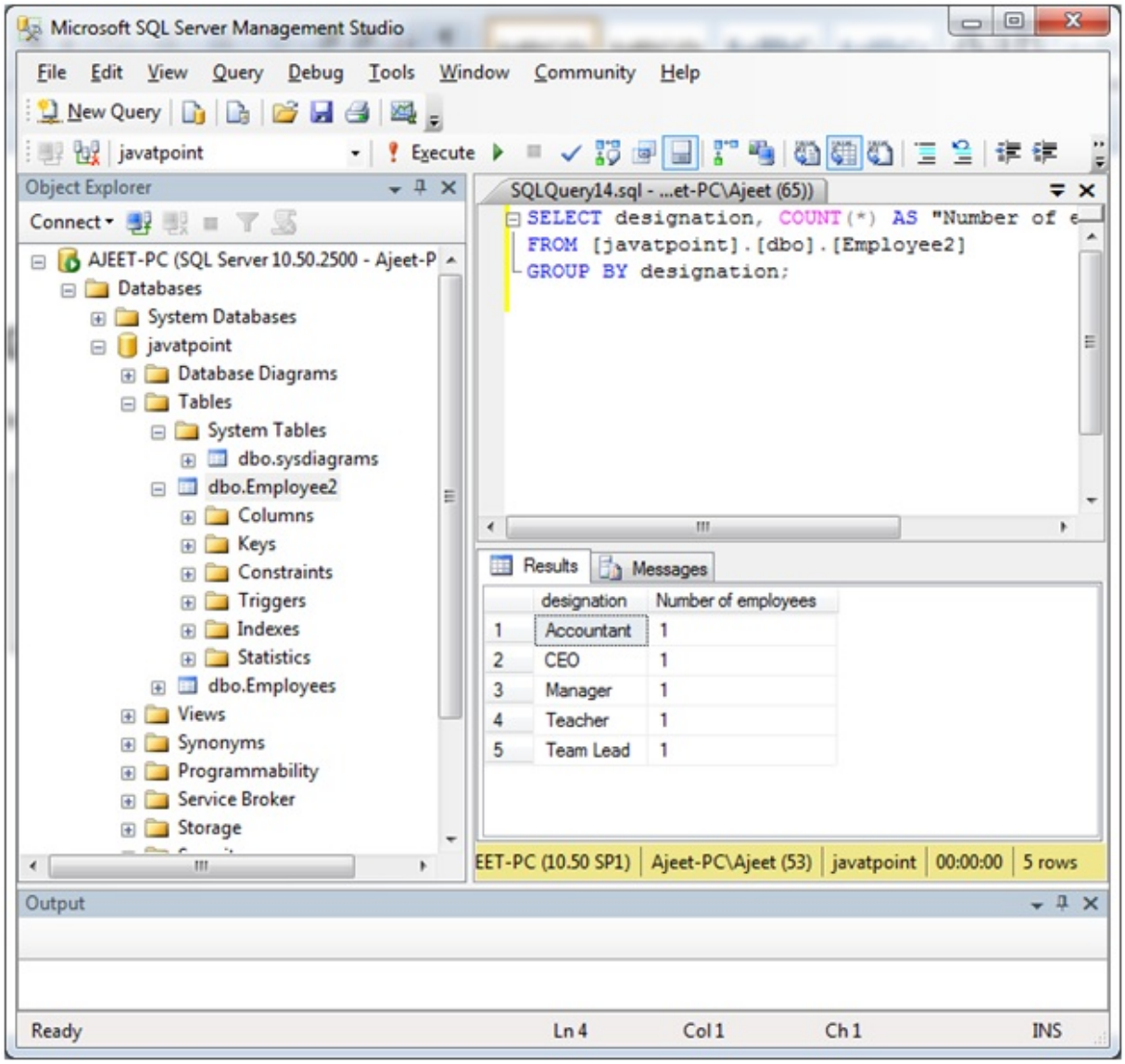


GROUP By using COUNT Function

See this example where we GROUP BY designation from the "Employee2" using COUNT function:

1. SELECT designation, COUNT(*) AS"Number of employees"
2. FROM [javatpoint].[dbo].[Employee2]
3. GROUPBY designation;

Output:



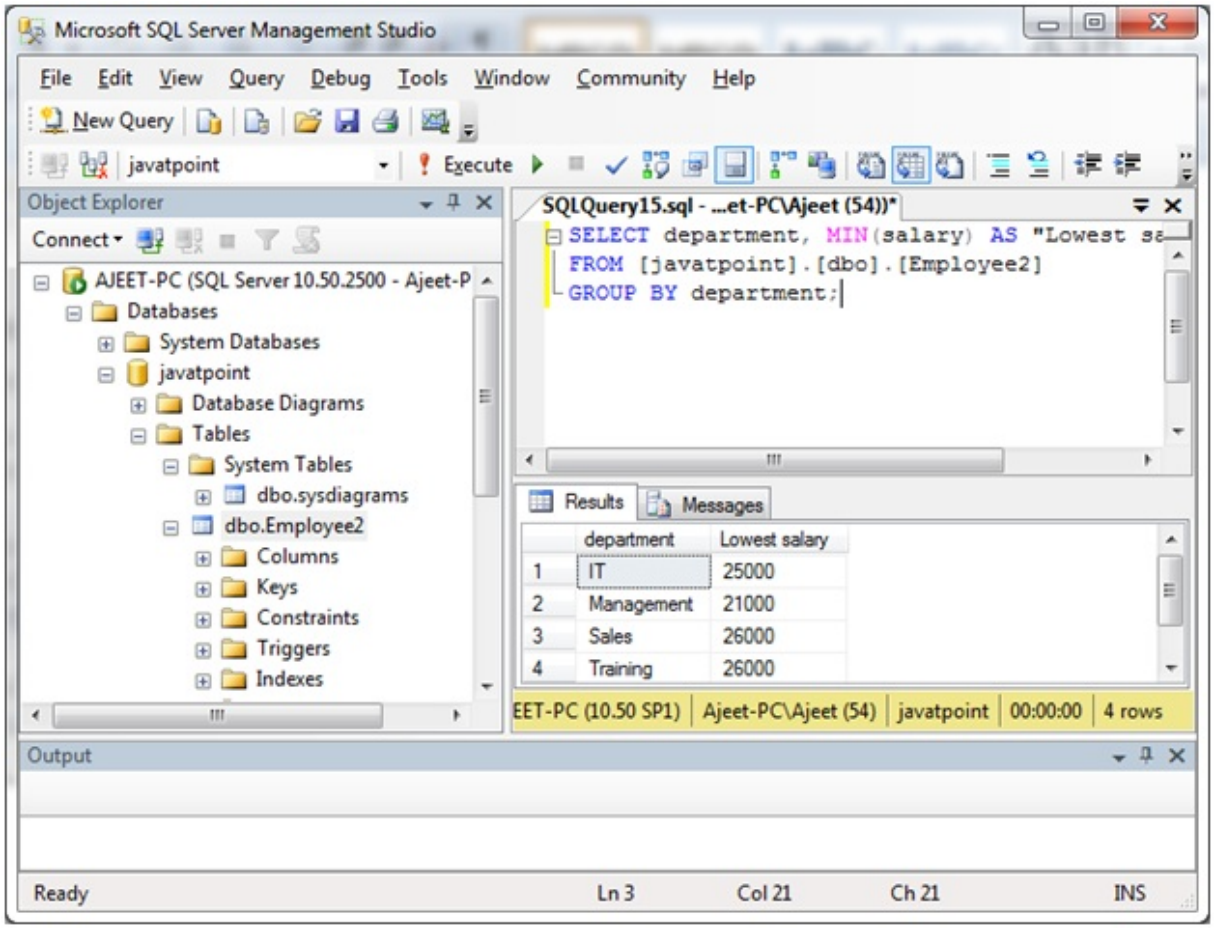
GROUP By using MIN Function

See this example where we GROUP BY department on the basis of salary from the "Employee2" using MIN function.

This will retrieve the minimum salary according to department:

1. SELECT department, MIN(salary) AS"Lowest salary"
2. FROM [javatpoint].[dbo].[Employee2]
3. GROUPBY department;

Output:



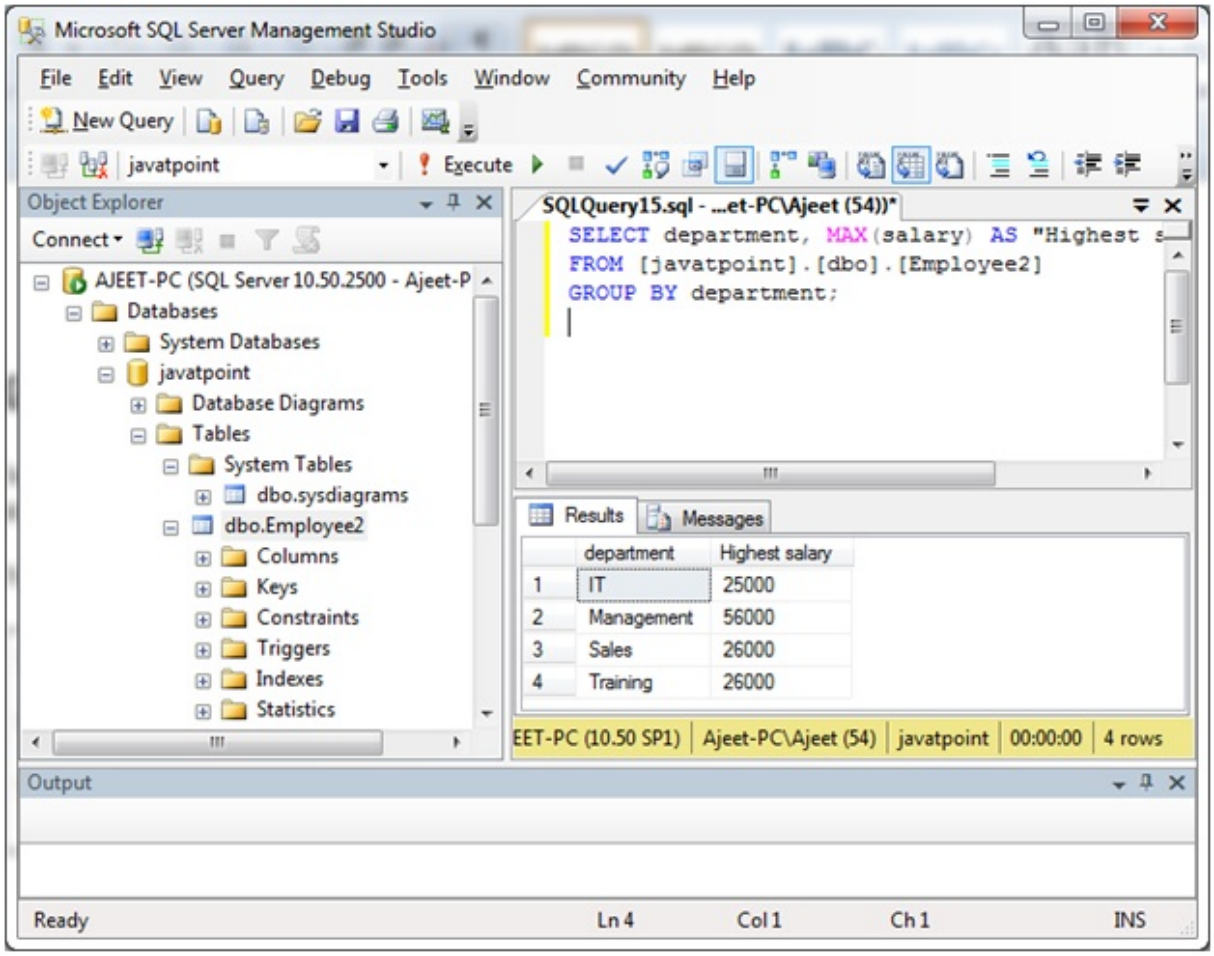
GROUP By using MAX Function

See this example where we GROUP BY department on the basis of salary from the "Employee2" sing MAX function.

This will retrieve the maximum salary according to department:

1. SELECT department, MAX(salary) AS"Highest salary"
2. FROM [javatpoint].[dbo].[Employee2]
3. GROUPBY department;

Output:


Microsoft SQL Server Management Studio
File Edit View Query Debug Tools Window Community Help
New Query
javatpoint
Execute
Object Explorer
Connect
AJEET-PC (SQL Server 10.50.2500 - Ajeet-P
Databases
System Databases
javatpoint
Database Diagrams
Tables
System Tables
dbo.sysdiagrams
dbo.Employee2
Columns
Keys
Constraints
Triggers
Indexes
Statistics
SQLQuery15.sql - ...et-PC\Ajeet (54))*
SELECT department, MAX(salary) AS "Highest s
FROM [javatpoint].[dbo].[Employee2]
GROUP BY department;
Results
Messages
department
Highest salary
1 IT 25000
2 Management 56000
3 Sales 26000
4 Training 26000
EET-PC (10.50 SP1)
Ajeet-PC\Ajeet (54)
javatpoint
00:00:00
4 rows
Output
Ready
Ln 4
Col 1
Ch 1
INS

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