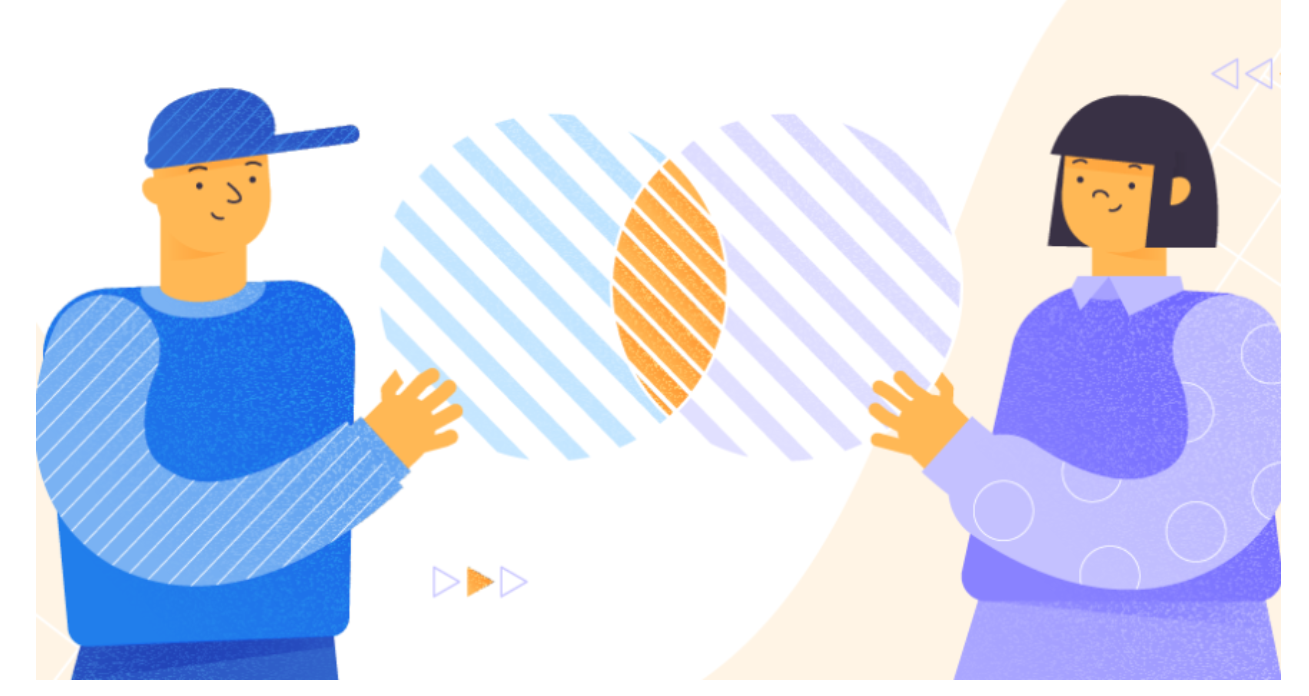
ASSESSMENT 4

*“SQL JOINS & SQL FUNCTIONS”*



Submitted By

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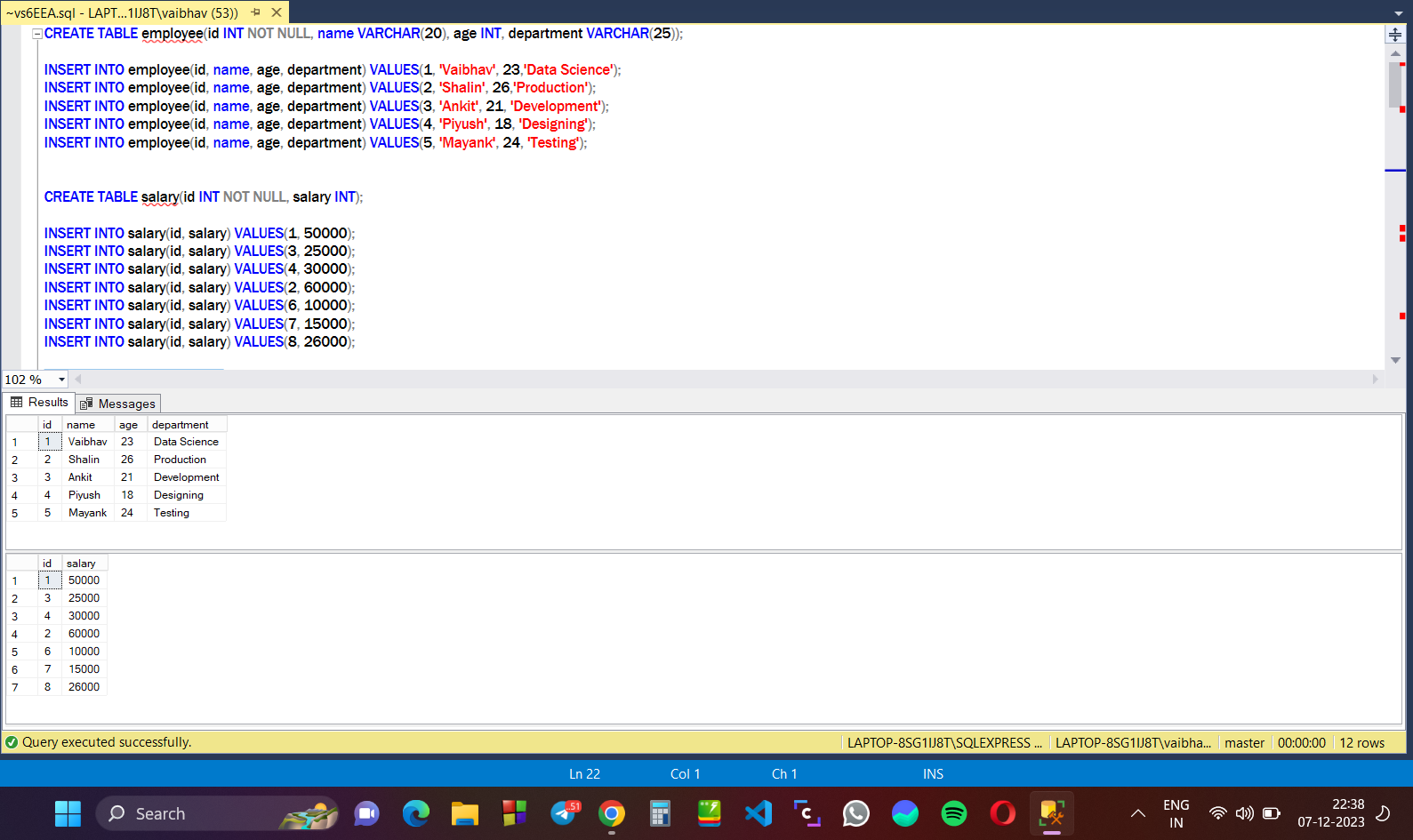
**Date :** 07-12-2023

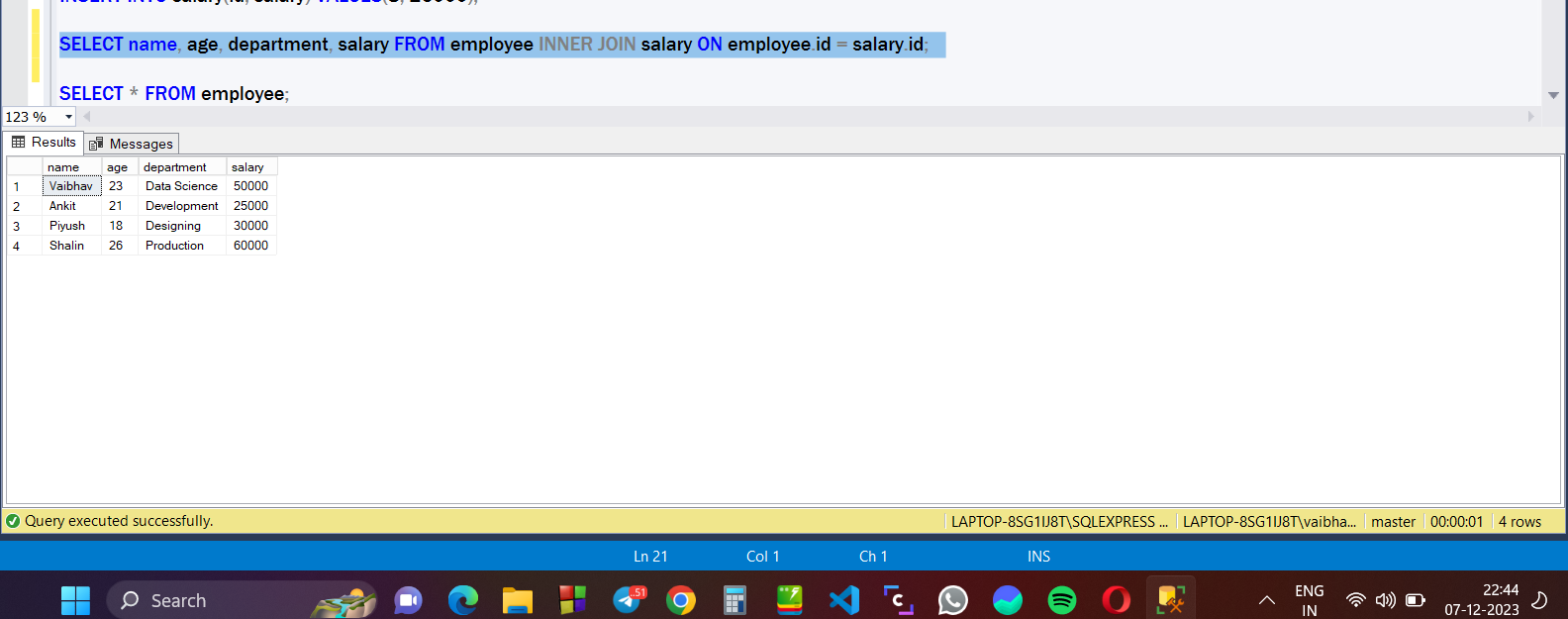
**Week 1** | **Day - 04**

***JOINS IN SQL***

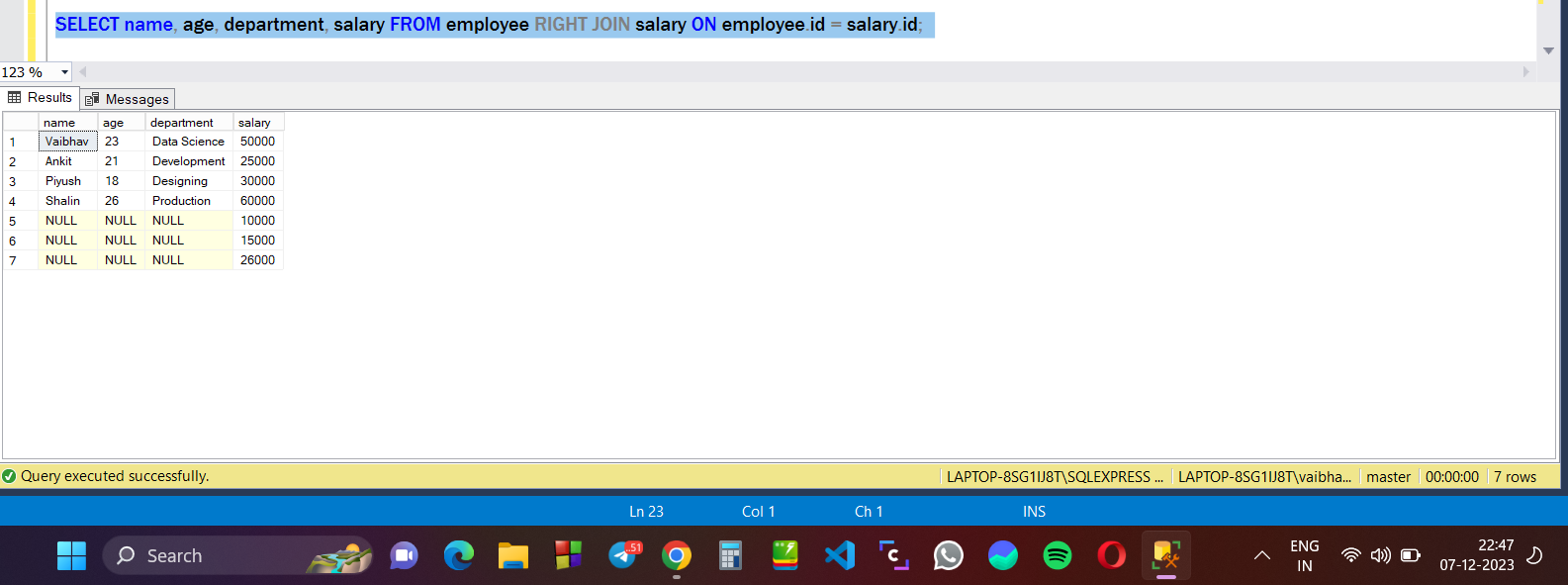
***INNER, RIGHT, LEFT, FULL, NATURAL JOINS***

**Use INNER JOIN to establish relation between employee table and salary table :**

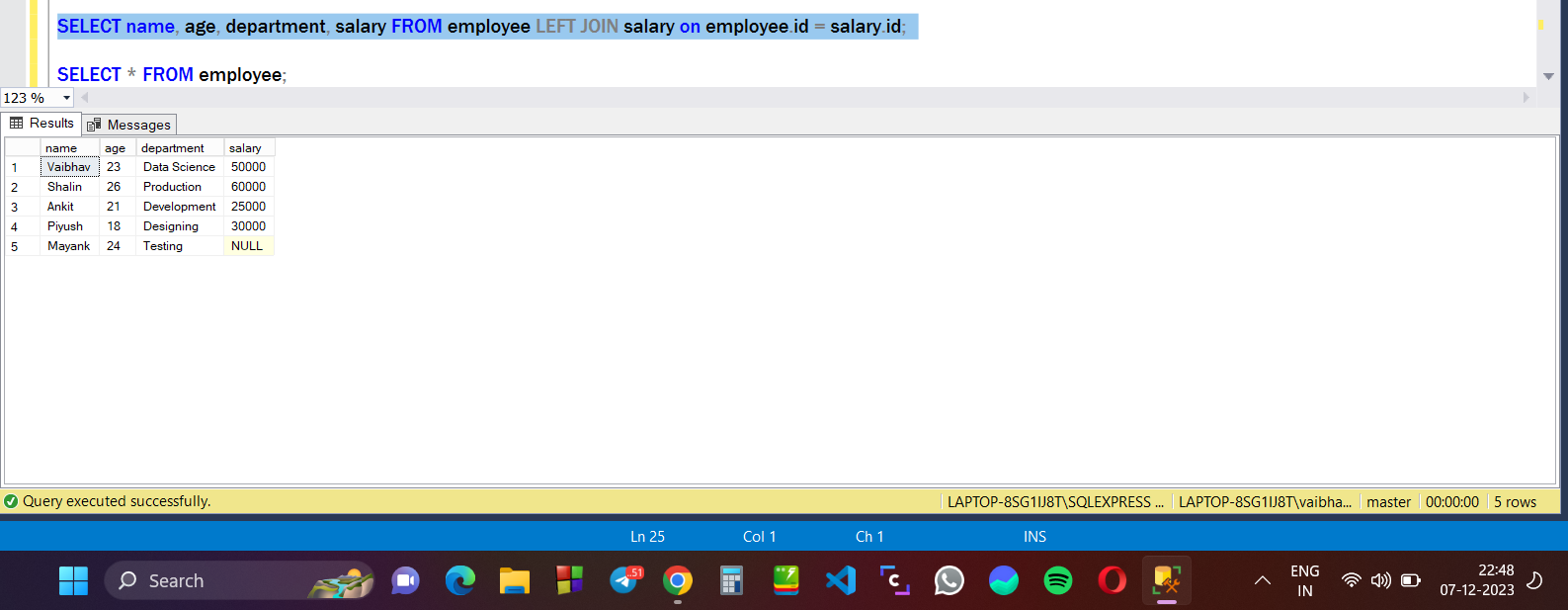
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**Use RIGHT JOIN on employee and salary table :**

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**Use LEFT JOIN on employee table and salary table :**

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**Use FULL JOIN on employee and Salary table :**

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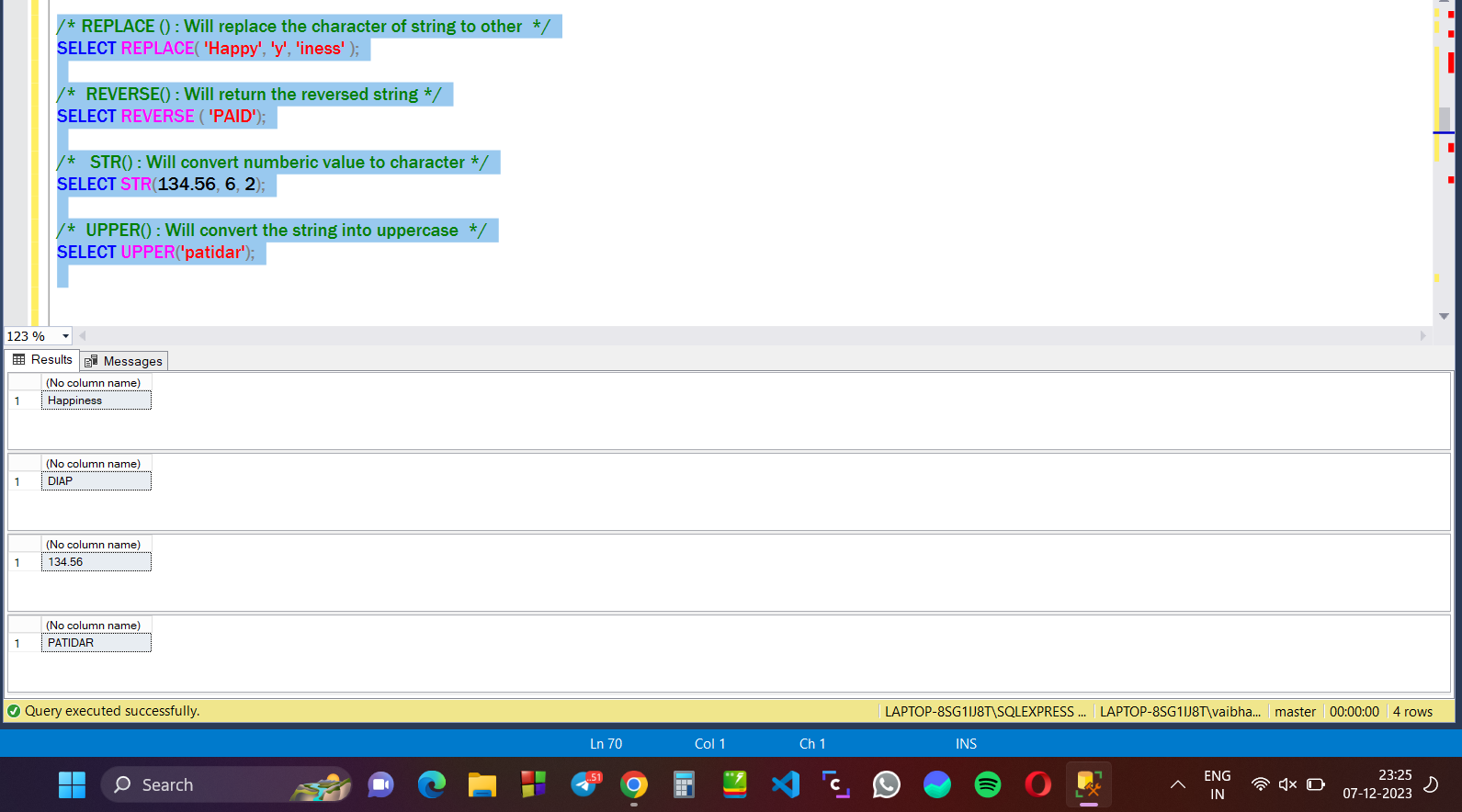
***FUNCTIONS IN SQL***

**There are mainly 9 type of functions :**

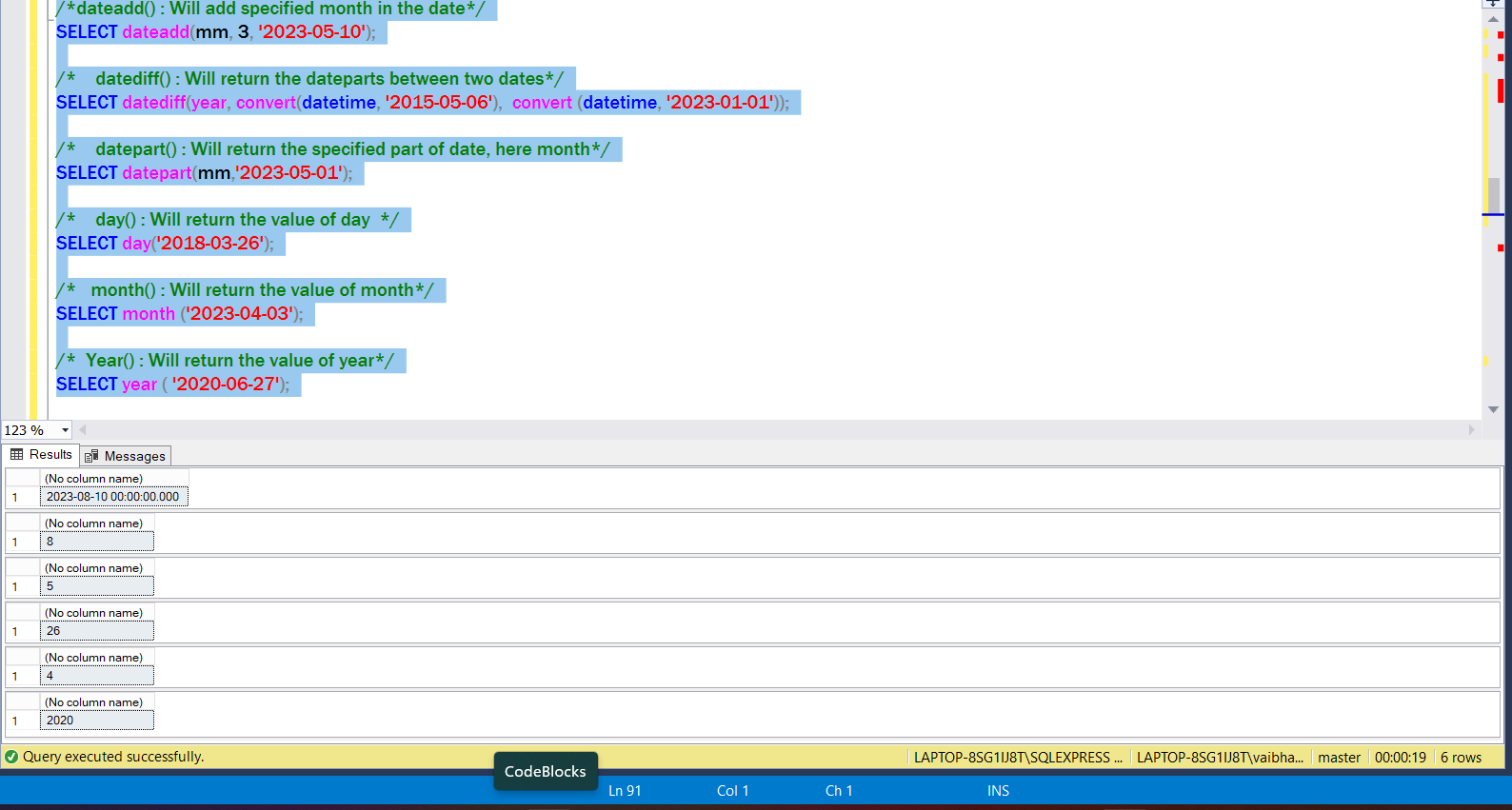
1. String Functions
2. Date and Time Functions
3. Mathematical Functions
4. Aggregate Functions
5. Configuration Functions
6. Metadata functions
7. Security Functions
8. System Functions
9. Ranking Functions

**STRING FUNCTIONS : used to manipulate the string values.**

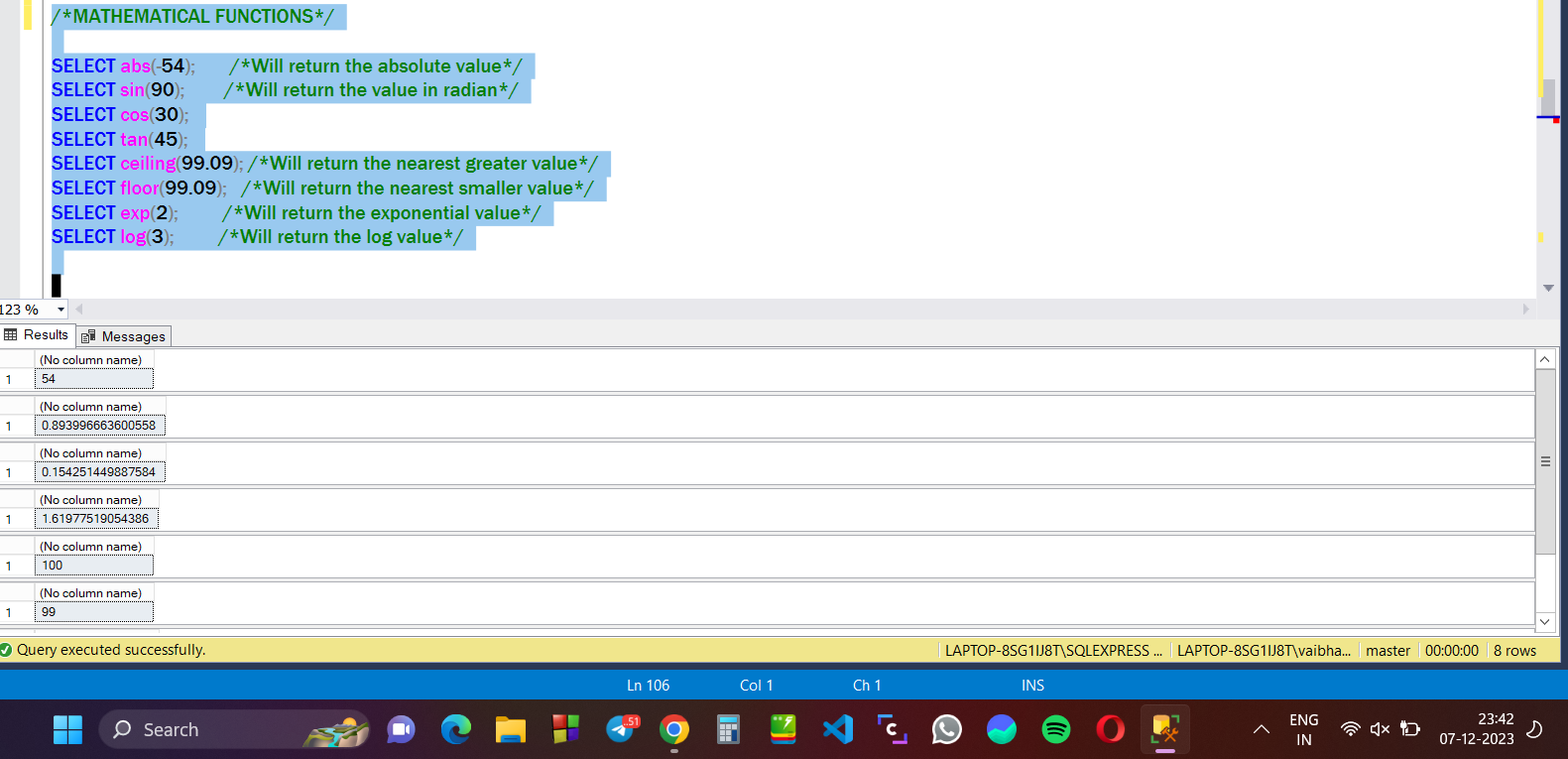
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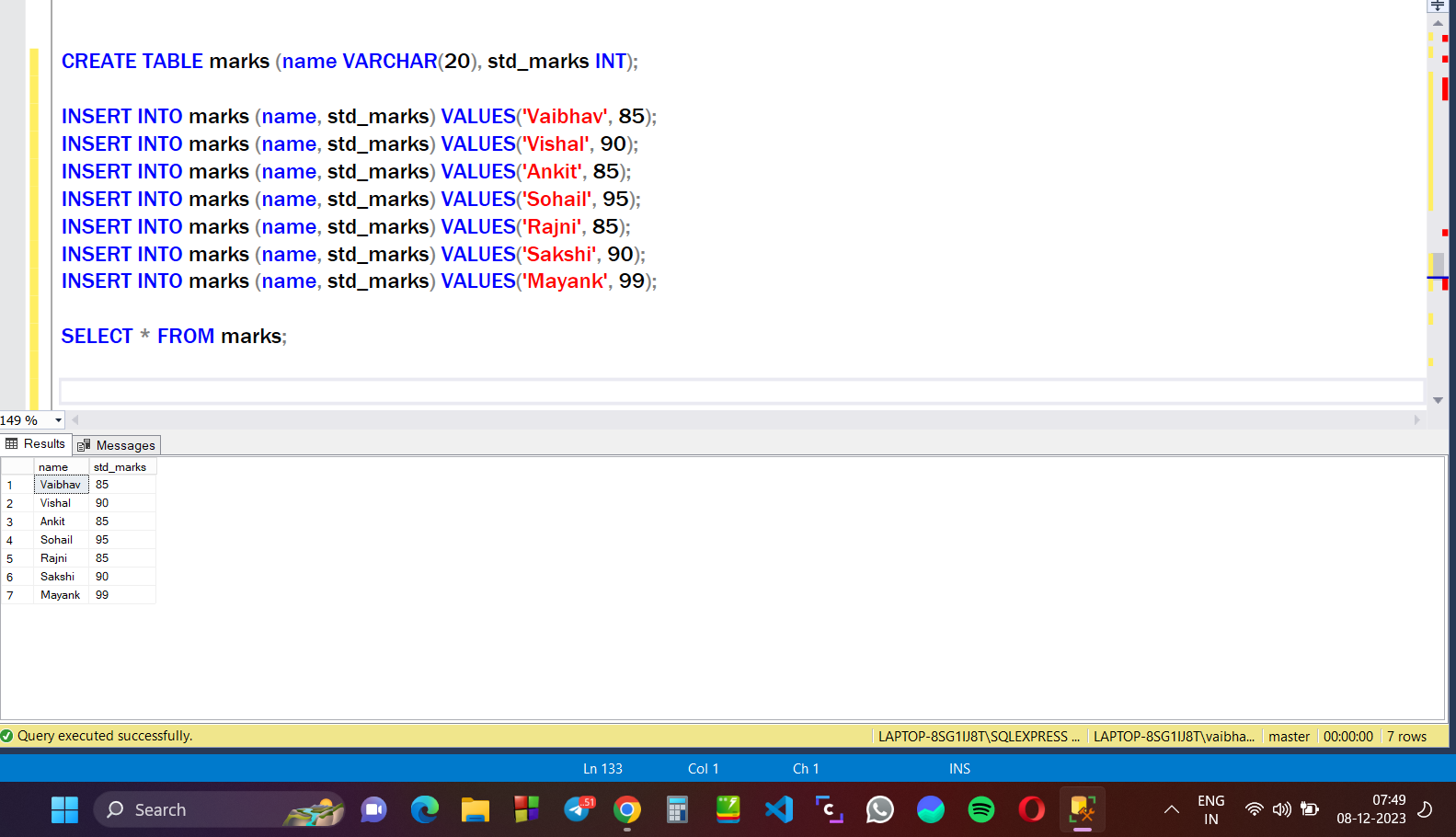
**DATE FUNCTIONS : used to manipulate the date values :**

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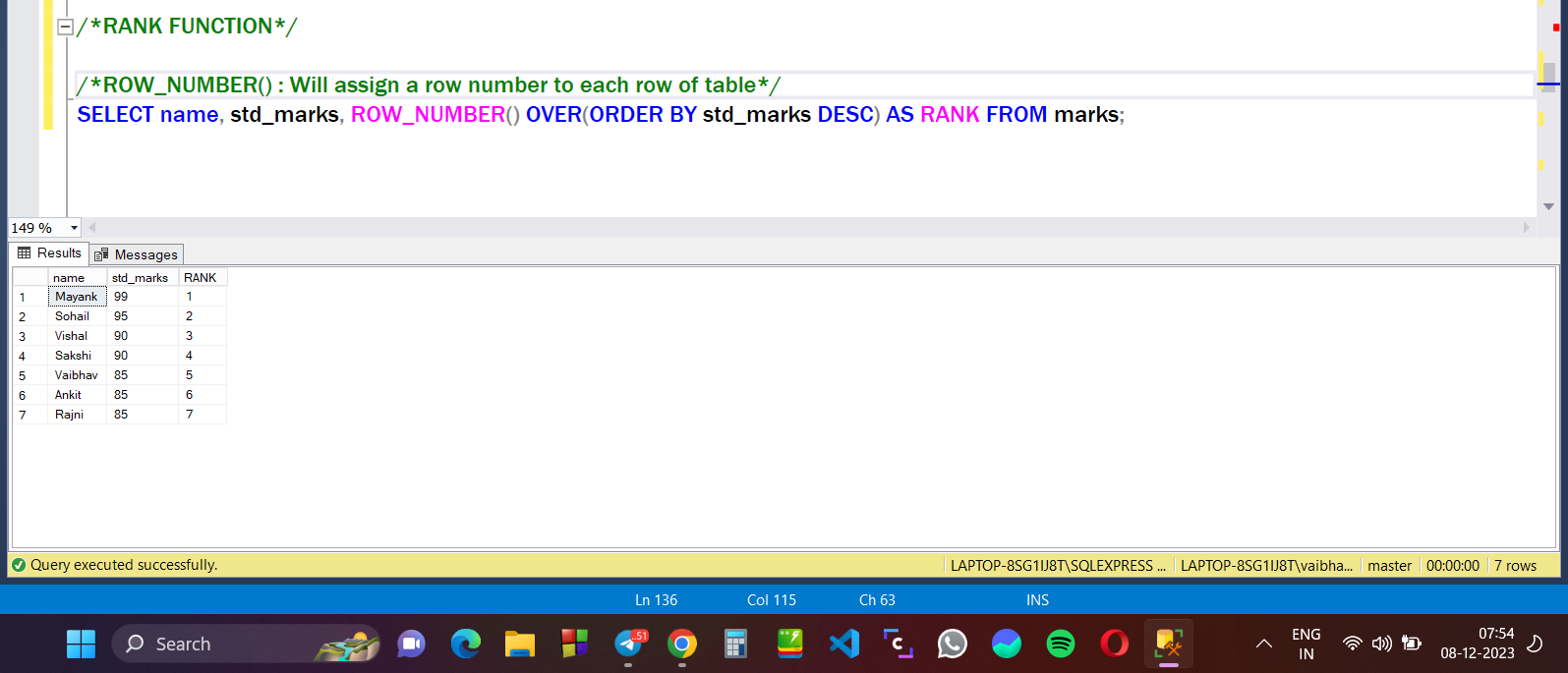
**MATHEMATICAL FUNCTIONS : used to manipulate the numeric values in result :**

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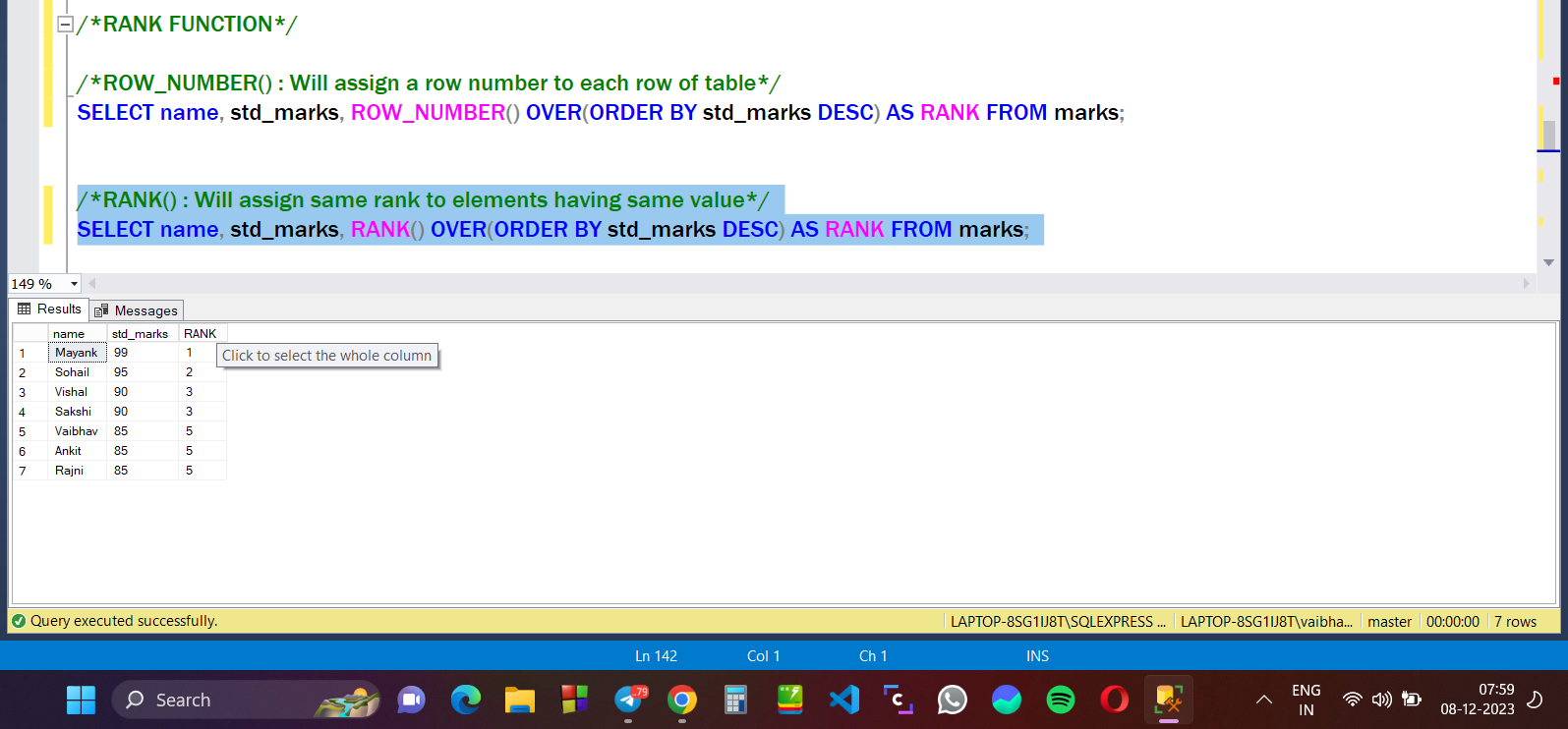
**RANK FUNCTIONS : These functions records and assign ranks in the table :** These functions are used to give rank to the elements in table, and are of three types :



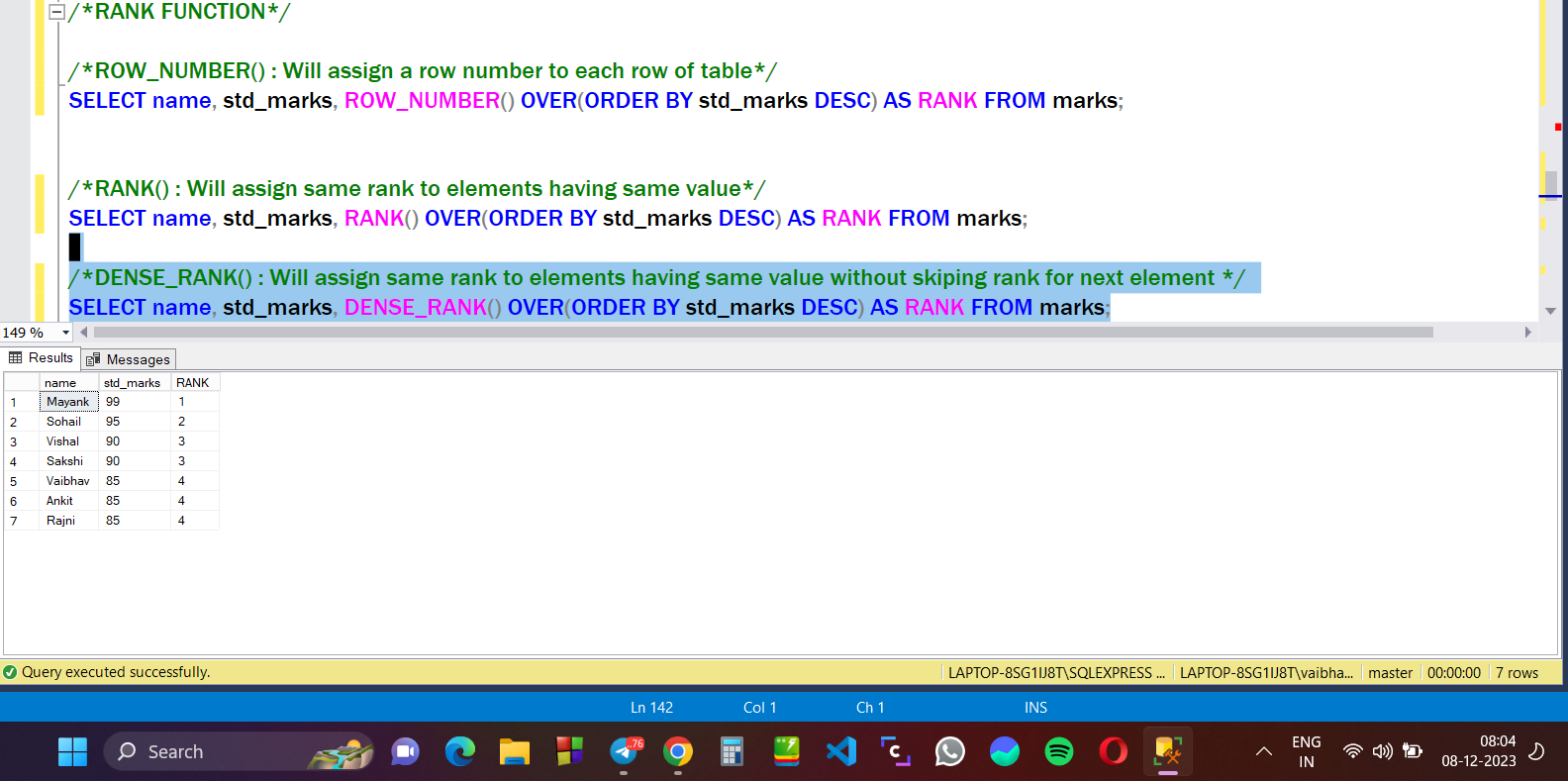
**ROW\_NUMBER() :** It will give simple row number to each row of marks table.

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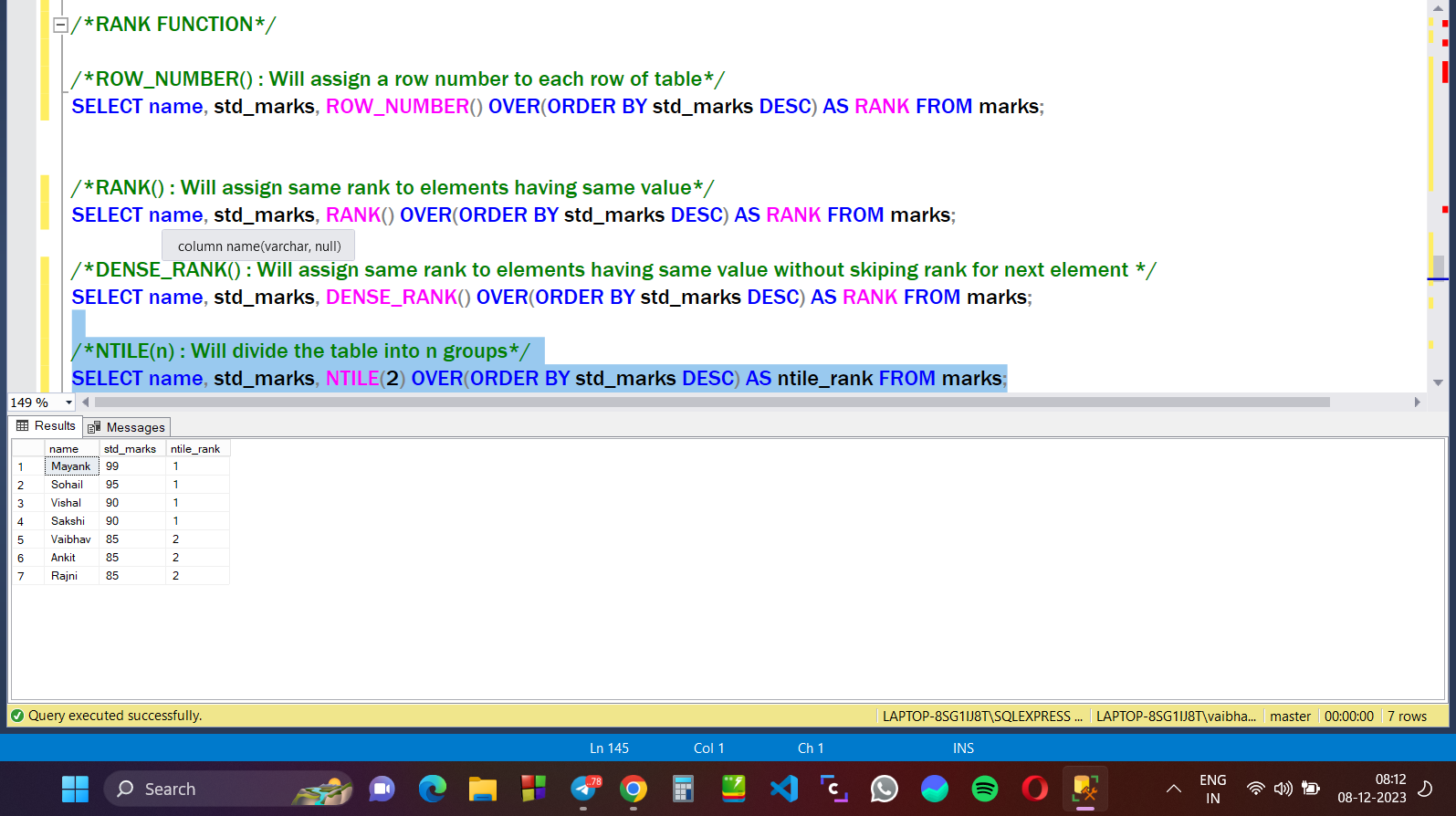
**RANK() :** It will assign same rank to elements having same value and skipped the ranks for rest. Means, if you have 3 items at same rank (i.e. 1), then 4th item will get rank as 4.

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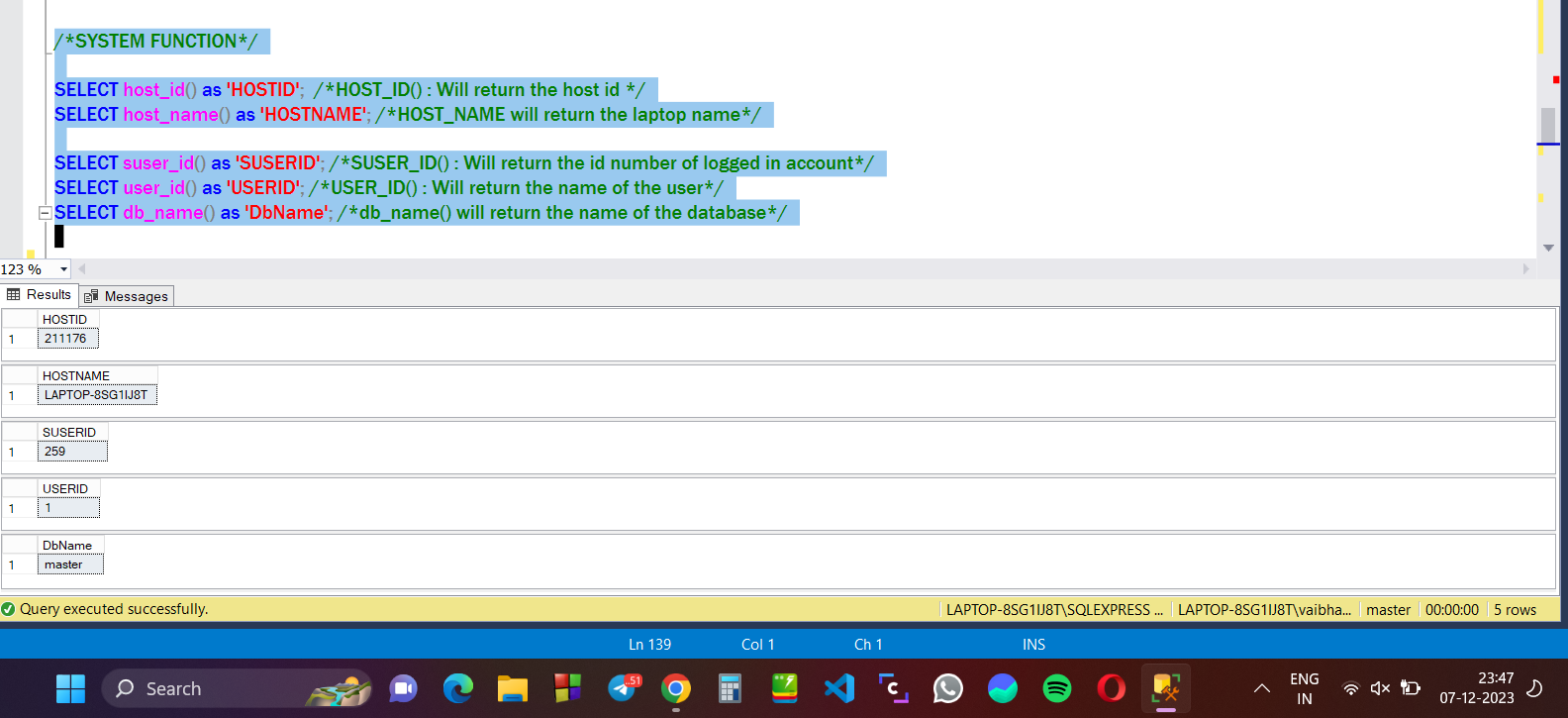
**DENSE\_RANK() :** It will assign same rank to each row containing same value, but not skip the rank for next element.



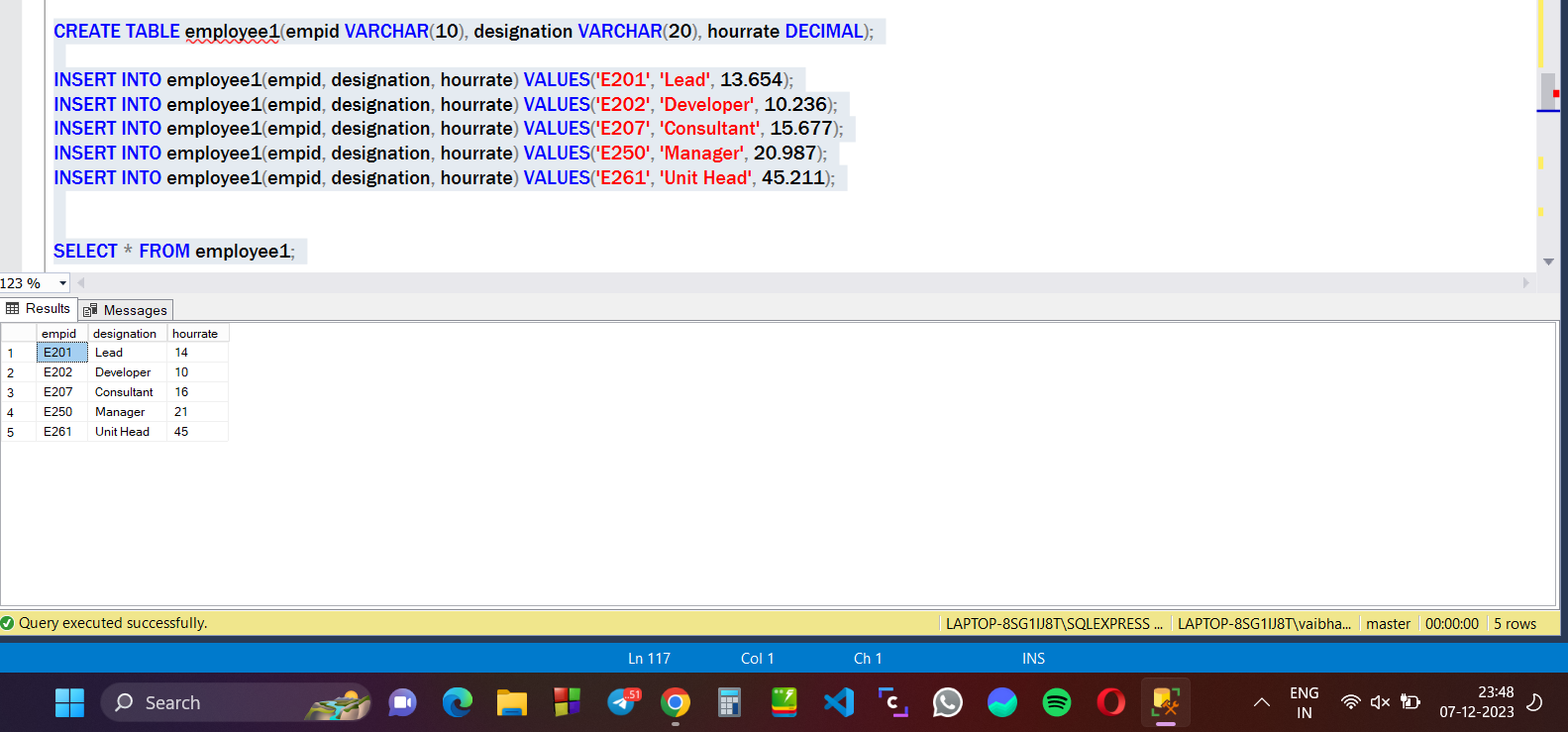
**NTILE(n) FUNCTION :** It will simply divide the table into n groups.

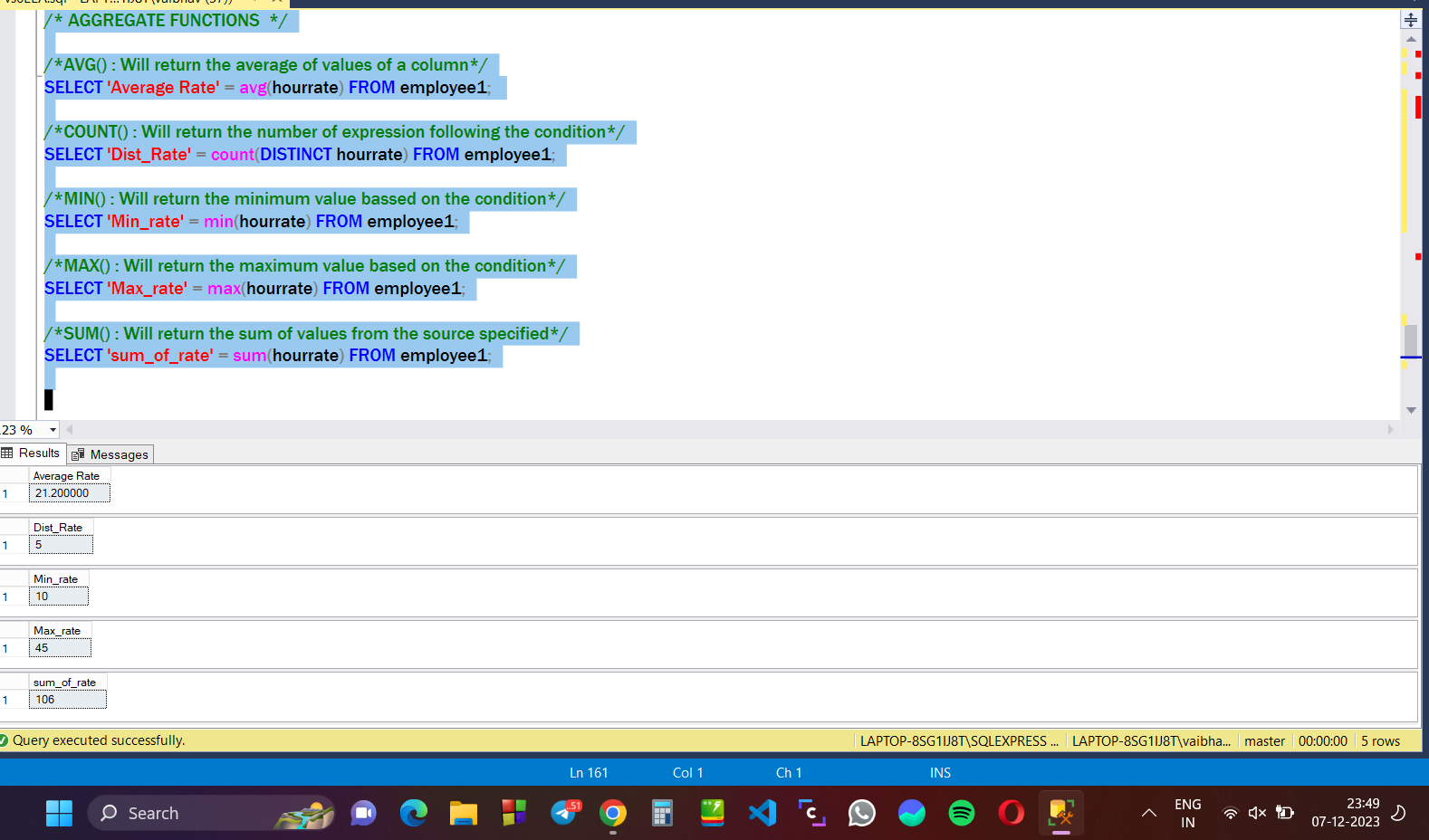


**SYSTEM FUNCTIONS : These functions are used to get info related to our machine :**

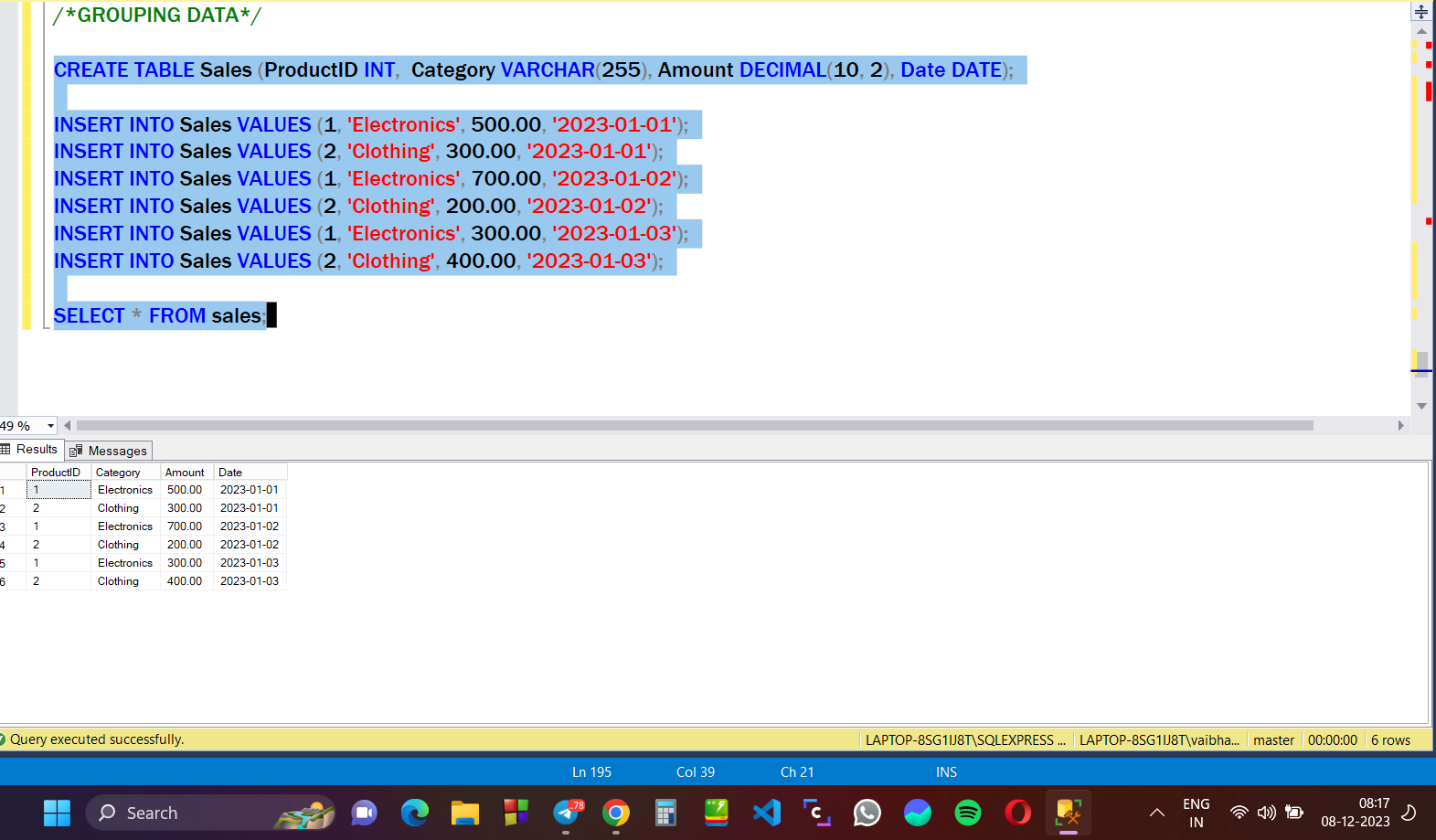
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**AGGREGATE FUNCTIONS : These functions helps to analyze the data and provide summarized result :**

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**GROUPING FUNCTIONS :**

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**GROUP\_BY FUNCTION() :** It will group the table based on the condition provided.

