

DAX Functions

For Data Analysis

Empower Your Insights with **Power BI**



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Aggregate functions

1. SUMX

This particular function calculates the **sum of an expression** evaluated for each row in a table.

```
SUMX(table, expression)
```

2. AVERAGEX

This function returns **the average of an expression** evaluated for each row in a table.

```
AVERAGEX(table, expression)
```

3. COUNTX

This function counts the **number of rows** for which the expression is **not blank**.

```
COUNTX(table, expression)
```

4. MINX ()

This function returns the **minimum value of an expression** evaluated for each row in a table.

```
MINX(table, expression)
```

5. MAXX ()

This function returns **the maximum value of an expression** evaluated for each row in a table.

```
MAXX(table, expression)
```

Filter & Manipulate Functions

6. CALCULATE ()

This function **modifies the filter context** in a calculation by specifying **new filter conditions**.

```
CALCULATE(expression, filter1, filter2, ...)
```

7. FILTER()

This function **returns a table** that represents a **subset** of another table or expression.

```
FILTER(table,condition)
```

8. RELATED ()

This function **returns a single value** from another table in the **relationship**.

```
RELATED(related_table[column_name])
```

9. COUNTROWS ()

This function **counts the number of rows** in a table or expression.

```
COUNTROWS(table)
```

10. CONCATENATEX ()

This function **concatenates the result of an expression** evaluated for each row in a table, using a specified delimiter.

```
CONCATENATEX(table, expression, delimiter)
```

Other Useful Functions

11. RANKX ()

This function **returns the rank of a value in a column**, as determined by a specified expression.

```
RANKX(table, expression, [order], [ties])
```

12. SUMMARIZE ()

This function **creates a summary table** over a set of **groups or columns**.

```
SUMMARIZE(table, group_by_column1,  
group_by_column2, ..., expression)
```

13. DISTINCT ()

This function **returns a table with unique rows** from a specified table or expression.

```
DISTINCT(table)
```

14. TODAY ()

This function **returns the current date**.

```
TODAY()
```


15. YEAR()

This function **returns the year component of a date.**

```
YEAR(date)
```

16. IF ()

This function **returns one value if a condition is true and another value if it's false.**

```
IF(condition, value_if_true, value_if_false)
```