# DAX Functions

For Data Analysis

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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 ()

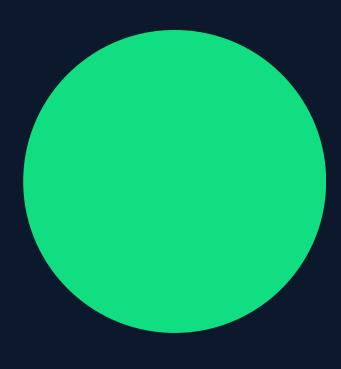
This function returns a table with unique rows from a specified table or expression.

**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)