

Glossary of DAX functions and operators

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> Math & statistical functions

• SUM(<column>)

Adds all the numbers in a column.

AVERAGE(<column>)

Returns the average (arithmetic mean) of all the numbers in a column.

SUMX(, <expression>)

Returns the sum of an expression evaluated for each row in a table.

COUNTX(, <expression>)

Counts the number of rows from an expression that evaluates to a non-blank value.

AVERAGEX(, <expression>)

Calculates the average (arithmetic mean) of a set of expressions evaluated over a table.

DIVIDE(<numerator>, <denominator> [,<alternateresult>])

Performs division and returns alternate result or BLANK() on division by 0.

MIN(<column>)

Returns a minimum value of a column.

MAX(<column>)

Returns a maximum value of a column.

COUNTROWS([])

Counts the number of rows in a table.

DISTINCTCOUNT(<column>)

Counts the number of distinct values in a column.

RANKX(, <expression>[, <value>[, <order>[, <ties>]]])

Returns the ranking of a number in a list of numbers for each row in the table argument.

> Filter functions

FILTER(, <filter>)

Returns a table that is a subset of another table or expression.

CALCULATE(<expression>[, <filter1> [, <filter2> [, ...]]])

Evaluates an expression in a filter context.

HASONEVALUE(<columnName>)

Returns TRUE when the context for columnName has been filtered down to one distinct value only. Otherwise it is FALSE.

ALL([| <column>[, <column>[, ...]]]])

Returns all the rows in a table, or all the values in a column, ignoring any filters that might have been applied.

> Logical functions

IF(<logical_test>, <value_if_true>[, <value_if_false>])

Checks a condition, and returns a certain value depending on whether it is true or false.

AND(<logical 1>, <logical 2>)

Checks whether both arguments are TRUE, and returns TRUE if both arguments are TRUE. Otherwise, it returns FALSE.

• OR(<logical 1>, <logical 2>)

Checks whether one of the arguments is TRUE to return TRUE. The function returns FALSE if both arguments are FALSE.

NOT(<logical>)

Changes TRUE to FALSE and vice versa.

• SWITCH(<expression>, <value>, <result>[, <value>, <result>]...[, <else>])

Evaluates an expression against a list of values and returns one of multiple possible result

Date & time functions

CALENDAR(<start_date>, <end_date>)

Returns a table with a single column named "Date" that contains a contiguous set of dates.

> Time intelligence functions

• TOTALYTD(<expression>,<dates>[,<filter>][,<year_end_date>])
Evaluates the year-to-date value of the expression in the current context.

• SAMEPERIODLASTYEAR(<dates>)

Returns a table that contains a column of dates shifted one year back in time.

> Relationship functions

• CROSSFILTER()

Specifies the cross-filtering direction to be used in a calculation.

RELATED()

Returns a related value from another table.

> Table manipulation functions

• SUMMARIZE(, <groupBy_columnName>[, <groupBy_columnName>]...[, <name>, <expression>]...)
Returns a summary table for the requested totals over a set of groups.

DISTINCT()

Returns a table by removing duplicate rows from another table or expression.

• ADDCOLUMNS(, <name>, <expression>[, <name>, <expression>]...)
Adds calculated columns to the given table or table expression.

• SELECTCOLUMNS(, <name>, <expression>[, <name>, <expression>]...)
Selects calculated columns from the given table or table expression.

> Text functions

SUBSTITUTE(<text>, <old_text>, <new_text>, <instance_num>)
 Replaces existing text with new text in a string.

> Information functions

• USERPRINCIPALNAME()

Returns the user principal name or email address. This function has no arguments.

> DAX statements

VAR(<name> = <expression>)

Stores the result of an expression as a named variable. To return the variable, use RETURN after the variable is defined.

> Other functions

• BLANK()

Returns a blank.

> DAX Operators

Comparison operators	Meaning
=	Equal to
= =	Strict equal to
>	Greater than
<	Smaller than
> =	Greater than or equal to
= <	Smaller than or equal to
< >	Not equal to

Text operator	Meaning	Example
&	Concatenates text values	Concatenates text values [City]&", "&[State]

Logical operator	Meaning	Example
&&	AND condition	([City] = "Bru") && ([Return] = "Yes"))
П	OR condition	([City] = "Bru") ([Return] = "Yes"))
IN {}	OR condition for each row	Product[Color] IN {"Red", "Blue", "Gold"}

Can't find the function you're looking for?
Take a look at the Microsoft documentation

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