POWER BI TOP 10 FORMULAS

Top 10 Formulas Every Data Analyst Should Know





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CALCULATE

CALCULATE allows you to modify the filter context within which a calculation is evaluated.

Formula: CALCULATE(<expression>,

<filter1>, <filter2>, ...)

Example: If you want to calculate total sales based on our net sales data, we can use the CALCULATE function.

= CALCULATE(SUM('Sales'[NetSales]),
'Sales'[Year] = 2023)



SUM

SUM adds up all the values in a specified column. It's a basic aggregate function used to get the total of numeric data.

Formula:

=SUM(<column>)

Example:

This calculates the total net sales by summing all values in the Sales[Net Sales] column.

= SUM(Sales[Net Sales])



SUMX

SUMX returns the sum of an expression evaluated for each row in a table. Unlike SUM, which operates on a single column, SUMX allows for row-by-row calculations.

Formula:

=SUMX(, <expression>)

Example:

Here, for each row in the Sales table, it multiplies Sales[Quantity] by Sales[Profit per Unit] and then sums up those results.

= SUMX(Sales, Sales[Quantity] *
Sales[Profit per Unit])



AVERAGE

AVERAGE calculates the arithmetic mean of all the numbers in a specified column. It's useful for determining the central value of a set of numbers.

Formula:

- =AVERAGE(<column>)
- =AVERAGE(Sales[Net Sales])

Example: Here, This calculates the average of all values in the Sales[Net Sales] column..



IF

IF checks a condition and returns one value if the condition is TRUE and another value if the condition is FALSE. It's used for conditional logic.

Formula:

=IF(<logical_test>, <value_if_true>,
<value_if_false>)

Example:

This checks if Sales[Net Sales] is greater than 10,000. If true, it returns "Yes"; otherwise, it returns "No".

= IF(Sales[Net Sales] > 10000, "Yes", "No")



FILTER

FILTER returns a table that represents a subset of another table or expression, based on a specified condition. It's used to create more specific views of data.

Formula: =FILTER(, <filter>)

Example: It returns a table of sales data where the Region column equals "North".

= FILTER(Sales, Sales[Region] = "North")



ALL

ALL removes all filters from a specified table or column. It's often used in combination with other functions to provide a baseline or total value that isn't affected by the current filters.

Formula:

=ALL(<table_or_column>))

Example:

This calculates the total net sales without considering any existing filters on the Sales table.

= CALCULATE(SUM(Sales[Net Sales]),
ALL(Sales))



ALLEXCEPT

ALLEXCEPT removes all context filters in a table except filters that have been applied to specified columns. This allows for selective removal of filters.

Formula: =ALLEXCEPT(,

<column1>, <column2>, ...)

Example: This keeps all filters on the Sales[Product Category] column but removes other filters, and then calculates the total net sales.

= CALCULATE(SUM(Sales[Net Sales]),
ALLEXCEPT(Sales, Sales[Product
Category]))





RELATED

RELATED returns a related value from another table. It's used to bring in data from a related table in a data model.

Formula:

=RELATED(<column>)

Example:

Assuming there is a relationship between the = RELATED(Product[Product Name]) Sales and Product tables, this returns the product name for each sale.



DISTINCT

DISTINCT returns a one-column table that contains the unique values from the specified column. It's useful for identifying or counting distinct items in a column.

Formula: =DISTINCT(<column>)

Example: This returns a table of unique values

from the Sales[Product Category] column.

= DISTINCT(Sales[Product Category])



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