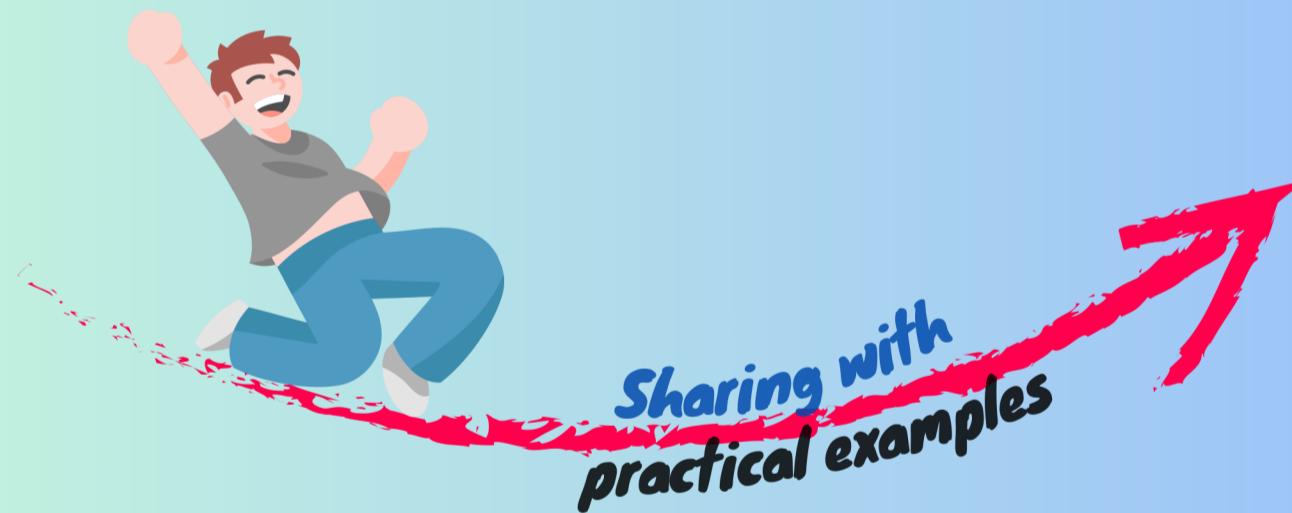


Important Dax formulas Every Analyst Must Know...!



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=CALCULATE

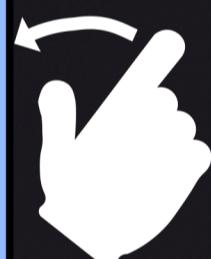
- The **CALCULATE** function evaluates an expression in a modified filter context.
- It's essential for applying complex filters to your calculations. It can change the current row context by applying one or more filters to the data model.

Wanna See



Syntax with example

follow me





Syntax:



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

Example:

→ Suppose you have a table **Sales** with columns **Amount** and **Region**.

To calculate the total sales amount for the '**North**' region:



```
TotalSalesNorth = CALCULATE(  
    SUM(Sales[Amount]),  
    Sales[Region] = "North")
```

→ This calculates the sum of the **Amount** column where the **Region** is '**North**'.



=YEAR

- The **YEAR** function extracts the **year as a four-digit number** from a given date.
- It is useful for time-based calculations and analysis.

Wanna See



Syntax with example

follow me





Syntax:



```
YEAR(<date>)
```

Example:

→ To get the **year** from the date '**2023-05-23**':



```
YearValue = YEAR("2023-05-23")
```



Result: 2023



=MONTH

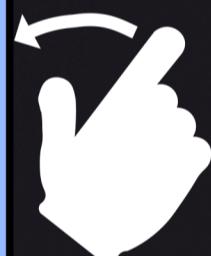
- The **MONTH** function extracts the month as a number from a given date.
- It's useful for grouping or filtering data by month.

Wanna See



Syntax with example

follow me





Syntax:



```
MONTH(<date>)
```

Example:

→ To get the month from the date '2023-05-23':



```
MonthValue = MONTH("2023-05-23")
```



Result: 5



=DAY

- The **DAY** function extracts the day of the month as a number from a given date
- It helps in detailed date-based analysis.

Wanna See



Syntax with example

follow me





Syntax:

```
● ● ●  
DAY( <date> )
```

Example:

→ To get the day from the date '2023-05-23':

```
● ● ●  
DayValue = DAY( "2023-05-23" )
```



Result: 23



=DAY

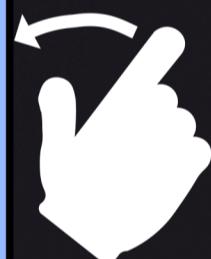
- The TODAY function returns the current date.
- It's useful for dynamic calculations based on the current date.

Wanna See



Syntax with example

follow me





Syntax:

```
● ● ●
```

```
TODAY( )
```

Example:

➡ To get today's date:

```
● ● ●
```

```
CurrentDate = TODAY( )
```



Result: 2024-05-23 (example)

=TOTALYTD

- The **TOTALYTD** function calculates the **year-to-date** total for a specific value, up to the current date or a specified date.
- It's widely used in financial and sales analysis.

Wanna See



Syntax with example

follow me





Syntax:



```
TOTALYTD(<expression>, <dates>, [<year_end_date>])
```

Example:

➡ To calculate year-to-date sales from a Sales table:



```
SalesYTD = TOTALYTD(  
    SUM(Sales[Amount]),  
    Sales[Date])
```

➡ This calculates the total sales amount from the beginning of the year to the current date.



=FILTER

- ➡ The **FILTER** function returns a table that represents a subset of another table or expression, filtered by a specific condition.
- ➡ It's powerful for creating calculated tables and columns.

Wanna See



Syntax with example

follow me





Syntax:



```
FILTER(<table>, <expression>)
```

Example:

➡ To filter the Sales table for amounts greater than 1000:



```
HighSales = FILTER(  
    Sales,  
    Sales[Amount] > 1000)
```

➡ This creates a table with rows where the Amount column is greater than 1000.



=SWITCH

- The **SWITCH** function evaluates an expression against a list of values and returns one of multiple possible result expressions.
- It's similar to a series of nested IF statements but more readable and efficient.

Wanna See



Syntax with example

follow me





Syntax:



```
SWITCH(<expression>, <value1>, <result1>, <value2>,
<result2>, ..., <else_result>)
```

Example:

➡ To classify sales regions as 'High', 'Medium', or 'Low':



```
RegionCategory = SWITCH(Sales[Region],
                         "North", "High",
                         "South", "Medium",
                         "West", "Low",
                         "Unknown")
```

➡ This assigns a category based on the value of the Region column.



=CONCATENATEX

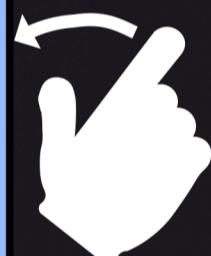
- The **CONCATENATEX** function concatenates the result of an expression evaluated for each row of a table, optionally using a delimiter.
- It's useful for creating summary text strings.

Wanna See



Syntax with example

follow me





Syntax:



```
CONCATENATEX(<table>, <expression>, [<delimiter>],  
[<orderBy_expression>])
```

Example:

➡ To concatenate product names **separated by a comma**:



```
ProductList = CONCATENATEX(  
    Products,  
    Products[ProductName], ", ")
```

➡ This creates a single string with all product names separated by commas.



=RANKX

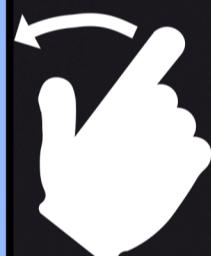
- The **RANKX** function returns the rank of a value in a list of values in a specified order. .
- It's useful for creating rank metrics, such as ranking salespeople or products.

Wanna See



Syntax with example

follow me





Syntax:



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

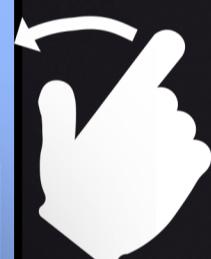
Example:

➡ To rank products based on their sales amount:



```
ProductRank = RANKX(  
    ALL(Products),  
    SUM(Products[SalesAmount]))
```

➡ This assigns a rank to each product based on the total sales amount.



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