

10 DAX Functions in Power BI

Every Analyst Should Master

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1. CALCULATE()

What it does: Changes or overrides filters to calculate a new result.

Example:

```
Sales_2024 = CALCULATE  
(  
    SUM(Sales[Amount]),  
    YEAR(Sales[Date]) = 2024  
)
```



2. FILTER()

What it does: Returns a filtered version of a table.

Example:

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



3. SUMX()

What it does: Iterates row-by-row, then sums the result.

Example:

```
Total_Revenue =  
SUMX(  
    Sales,  
    Sales[Quantity] *  
    Sales[Price]  
)
```



4. RELATED()

What it does: Fetches a value from a related table (one-to-many direction).

Example:

Category =
RELATED(Products[Category])



5. CALENDAR()

What it does: Creates a date table between two dates.

Example:

```
DateTable =  
CALENDAR(DATE(2020, 1, 1),  
DATE(2025, 12, 31))
```



6. DISTINCT()

What it does: Returns a table with unique values.

Example:

```
Unique_Customers =  
DISTINCT(Sales[CustomerID])
```



7. ALL()

What it does: Removes filters from a table or column.

Example:

```
Percent_of_Total =  
DIVIDE(  
    SUM(Sales[Amount]),  
    CALCULATE(SUM(Sales[Amount]),  
    ALL(Sales)))  
)
```



8. VAR() / RETURN

What it does: Stores intermediate results to make DAX cleaner.

Example:

Profit_Margin =

VAR Revenue = SUM(Sales[Revenue])

VAR Cost = SUM(Sales[Cost])

RETURN

DIVIDE(Revenue - Cost, Revenue)



9. DIVIDE()

What it does: Safe division
(avoids divide-by-zero errors).

Example:

```
Units_Per_Order =  
DIVIDE(  
    SUM(Sales[Units]),  
    DISTINCTCOUNT(Sales[OrderID])  
)
```



10. IF()

What it does: Basic conditional logic.

Example:

```
Order_Type =  
IF(Sales[Amount] > 5000, "High  
Value", "Low Value")
```



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- SQL
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