

Power BI DAX Cheat Sheet

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Date & Time Functions

TODAY(): Returns the current date

Example: TODAY() → 17-06-2025

NOW(): Returns the current date and time

Example: NOW() → 17-06-2025 17:22

YEAR(date): Extracts year from a date

Example: YEAR('Sales'[Order Date]) → 2025

MONTH(date): Extracts month number from a date

Example: MONTH('Sales'[Order Date]) → 6

DAY(date): Extracts day from a date

Example: DAY('Sales'[Order Date]) → 17

DATEDIFF(start_date, end_date, interval): Calculates difference between two dates

Example: DATEDIFF('Sales'[Order Date], 'Sales'[Delivery Date], DAY) → 5

EOMONTH(date, months): Returns end of month

Example: EOMONTH('Sales'[Order Date], 0) → 30-06-2025



Aggregation Functions

SUM(column): Adds up all values in a column

Example: SUM('Sales'[Amount]) → ₹1,00,000

AVERAGE(column): Returns average of values

Example: AVERAGE('Sales'[Profit]) → ₹2,350

MIN(column): Returns the minimum value

Example: MIN('Sales'[Quantity]) → 1

MAX(column): Returns the maximum value

Example: MAX('Sales'[Discount]) → 30

COUNT(column): Counts non-blank values

Example: COUNT('Customer'[Customer ID]) → 2300

COUNTA(column): Counts non-empty values (text + numbers)

Example: COUNTA('Customer'[Email]) → 2265

COUNTROWS(table): Counts rows in a table

Example: COUNTROWS('Orders') → 10,000



Text Functions

CONCATENATE(text1, text2): Joins two text values

Example: CONCATENATE('Customer'[First Name], " ", 'Customer'[Last Name]) → "Apoorva Iyer"

LEFT(text, num_chars): Returns first N characters

Example: LEFT('Product'[Product Code], 3) → "PRO"

RIGHT(text, num_chars): Returns last N characters

Example: RIGHT('Product'[Product Code], 4) → "1002"

LEN(text): Returns number of characters

Example: LEN('Customer'[Email]) → 22

SEARCH(find_text, within_text): Finds position of text

Example: SEARCH("Gold", 'Customer'[Membership]) → 1



Logical Functions

IF(condition, true, false): Returns different values based on condition

Example: IF('Sales'[Amount] > 1000, "High", "Low")

SWITCH(expression, value1, result1, ..., else): Replaces multiple IFs

Example: SWITCH('Sales'[Region], "East", 1, "West", 2, "Others")

AND(cond1, cond2): Returns TRUE if all conditions are true

Example: AND('Sales'[Amount] > 500, 'Sales'[Profit] > 0)

OR(cond1, cond2): Returns TRUE if any condition is true

Example: OR('Sales'[Discount] > 20, 'Sales'[Quantity] > 5)

NOT(condition): Reverses logic

Example: NOT('Sales'[Is Returned])



Time Intelligence Functions

CALCULATE(expression, filters): Changes context

Example: **CALCULATE(SUM('Sales'[Amount]),
'Region'[Name] = "South")**

FILTER(table, condition): Filters rows of a table

Example: **FILTER('Sales', 'Sales'[Profit] < 0)**

ALL(column/table): Removes all filters

Example: **CALCULATE(SUM('Sales'[Amount]),
ALL('Sales'))**

ALLEXCEPT(table, column): Removes filters except on one column

Example: **CALCULATE(SUM('Sales'[Amount]),
ALLEXCEPT('Sales', 'Sales'[Region]))**

SELECTEDVALUE(column): Returns selected value or blank

Example: **SELECTEDVALUE('Product'[Category])**

ALLSELECTED(column): Keeps only report-level filters

Example: **CALCULATE(SUM('Sales'[Amount]),
ALLSELECTED('Sales'[Region]))**



Ranking Functions

RANKX(table, expression): Rank values

**Example: RANKX(ALL('Sales'[Product]),
SUM('Sales'[Amount]), , DESC)**

TOPN(n, table, expression, order): Returns top N rows

Example: TOPN(5, 'Sales', 'Sales'[Amount], DESC)



Maths Functions

ROUND(number, digits): Rounds number

Example: ROUND('Sales'[Profit], 2) → 234.67

DIVIDE(numerator, denominator, alt): Safe division

Example: DIVIDE('Sales'[Profit], 'Sales'[Amount], 0)

ABS(number): Absolute value

Example: ABS('Sales'[Profit])

MOD(number, divisor): Remainder

Example: MOD('Product'[ID], 2)

POWER(number, power): Exponentiation

Example: POWER('Sales'[Quantity], 2)

INT(number): Converts to integer

Example: INT('Sales'[Amount])



Relationship Functions

RELATED(column): Fetches value from related table
Example: RELATED('Customer'[Customer Name])

RELATEDTABLE(table): Returns related rows
Example:
COUNTROWS(RELATEDTABLE('Orders'))



Context & Evaluation Functions

HASONEVALUE(column): Checks if one value is selected

Example: HASONEVALUE('Product'[Category])

ISFILTERED(column): Returns TRUE if filtered

Example: ISFILTERED('Sales'[Region])

ISCROSSFILTERED(column): Cross-filter check

Example: ISCROSSFILTERED('Product'[Category])

ISINSCOPE(column): Grouping or hierarchy check

Example: ISINSCOPE('Date'[Month])

VALUES(column): Unique values

Example: VALUES('Customer'[Region])



Statistical & Counting Functions

DISTINCTCOUNT(column): Unique value count

Example: DISTINCTCOUNT('Sales'[Customer ID]) → 1024

COUNTBLANK(column): Blank count

Example: COUNTBLANK('Orders'[Ship Date]) → 78

PERCENTILE.INC(column, k): Inclusive percentile

Example: PERCENTILE.INC('Sales'[Amount], 0.90) → ₹9800

PERCENTILE.EXC(column, k): Exclusive percentile

Example: PERCENTILE.EXC('Sales'[Amount], 0.90) → ₹9600

MEDIAN(column): Middle value

Example: MEDIAN('Sales'[Discount]) → 10

GEOMEAN(column): Geometric mean

Example: GEOMEAN('Sales'[Growth Rate])



Information Functions

ISBLANK(value): Checks if blank

Example: ISBLANK([Profit Margin]) → TRUE

ISNUMBER(value): Checks if number

Example: ISNUMBER('Sales'[Quantity])

ISTEXT(value): Checks if text

Example: ISTEXT('Customer'[Name])

ISEVEN(number): Even number check

Example: ISEVEN('Sales'[Order ID])

ISODD(number): Odd number check

Example: ISODD('Sales'[Order ID])



Advanced Filtering & Context

REMOVEFILTERS(column): Removes filters

Example: **CALCULATE(SUM('Sales'[Amount]), REMOVEFILTERS('Sales'[Region]))**

KEEPFILTERS(filter): Keeps existing filters

Example: **CALCULATE(SUM('Sales'[Amount]), KEEPFILTERS('Sales'[Category] = "Furniture"))**

CROSSFILTER(col1, col2, direction): Sets filter direction

Example: **CROSSFILTER('Customer'[Customer ID], 'Sales'[Customer ID], None)**

TREATAS(table, column): Applies values as filters

Example:

TREATAS(VALUES('Region_Filter'[Region]), 'Sales'[Region])

USERELATIONSHIP(col1, col2): Enables inactive relationship

Example: **CALCULATE(SUM('Sales'[Amount]), USERELATIONSHIP('Date'[Date], 'Sales'[Ship Date]))**



Iterator Functions

SUMX(table, expression): Row-wise sum

Example: **SUMX('Sales', 'Sales'[Quantity] * 'Sales'[Unit Price])**

AVERAGEX(table, expression): Row-wise average

Example: **AVERAGEX('Sales', 'Sales'[Amount])**

MAXX(table, expression): Row-wise maximum

Example: **MAXX('Products', 'Products'[Discount])**

MINX(table, expression): Row-wise minimum

Example: **MINX('Products', 'Products'[Discount])**

COUNTX(table, expression): Row-wise count

Example: **COUNTX('Sales', 'Sales'[Profit])**



Table Functions

SUMMARIZE(table, groupBy_column, ...): Groups table

Example: SUMMARIZE('Sales', 'Sales'[Region], 'Total', SUM('Sales'[Amount]))

ADDCOLUMNS(table, name, expression): Adds calculated column

Example: ADDCOLUMNS('Sales', 'Profit%', DIVIDE('Sales'[Profit], 'Sales'[Amount]))

CROSSJOIN(table1, table2): Cartesian join

Example: CROSSJOIN('Product', 'Region')

UNION(table1, table2): Appends tables

Example: UNION('Returns2024', 'Returns2025')

EXCEPT(table1, table2): Table difference

Example: EXCEPT('FullList', 'BlockedList')



Financial Functions

XIRR(values, dates): Internal rate of return

Example: XIRR('CashFlow'[Amount], 'CashFlow'[Date])

XNPV(rate, values, dates): Net present value

Example: XNPV(0.1, 'CashFlow'[Amount], 'CashFlow'[Date])



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