

DAX Functions in Power BI

ALL: A DAX filter function that removes filters from specified columns or tables, often used to ignore slicers or override query context for totals or comparisons

CALCULATE: A core DAX function that evaluates an expression in a modified filter context by applying or overriding filters specified as additional arguments

Calculated column: A column added to a table in the data model where a DAX expression is evaluated row-by-row at data refresh and stored as part of the table

Calculated table: A table created by a DAX expression that generates rows and columns at data refresh, useful for derived tables like calendars or lookup subsets

CALENDAR: A DAX table function that generates a contiguous range of dates between two specified start and end dates, commonly used to create a date dimension table

Counting functions: A family of DAX functions for counting values, including COUNT (non-blank numeric/string values), COUNTA (non-blank including booleans), COUNTBLANKS (blank values), COUNTROWS (rows in a table), and DISTINCTCOUNT (distinct values in a column)

CROSSFILTER: A DAX function that temporarily changes the cross-filtering direction of a relationship (one or both) for the evaluation of a measure

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Filter context: The set of filters applied to a calculation, coming from visuals, filters, or explicit filter arguments in DAX, and applied on top of query and row context

FILTER: A DAX function that returns a table consisting of rows from an input table that meet a Boolean expression, often used inside CALCULATE or iterators

Implicit measure: An aggregation automatically created by Power BI when a numeric field is placed in a visual, using default aggregations like Sum, Count, or Average

Iterating function: A category of DAX functions that iterate over table rows to evaluate an expression for each row (commonly suffixed with X), enabling row-level calculations without storing intermediate columns

Measure: A DAX expression that returns a scalar value computed at query time, typically used for aggregations and dynamic calculations in visuals

Query context: The subset of data returned by a visual or query, determined by slicers, filters, rows, and columns in visuals, which affects how measures are evaluated

Quick measure: A Power BI feature that auto-generates DAX for common calculations (like time intelligence or growth), useful for learning patterns or creating complex measures quickly

RANKX: An iterating function that ranks rows in a table according to a given expression, optionally controlling ties and the evaluation context for comparisons

RELATED: A DAX function that retrieves a value from a related table based on an existing relationship, enabling lookups without joins in the query

Row context: The evaluation context that applies to a single row, used when DAX expressions are computed row-by-row, as in calculated columns or iterating functions

SUBSTITUTE: A DAX text function that replaces occurrences of specified text within a string, useful for cleaning or transforming text columns in calculated columns

SUMX: An iterating function that evaluates an expression for each row of a table and returns the sum of those results, combining filtering and row-level calculations in one step

Variable (VAR / RETURN): A DAX construct to store the result of an intermediate expression under a name (VAR) and then use it in the final expression returned by RETURN, improving readability and performance