

Intermediate DAX in Power BI

IF(): A DAX logical function that evaluates a condition and returns one of two values depending on whether the condition is true or false.

SWITCH(): A DAX function that evaluates an expression against a list of values and returns one of multiple result expressions, often used to replace nested IF() statements.

AND(): A DAX function that returns TRUE only if both logical conditions evaluate to TRUE, equivalent to the && operator.

OR(): A DAX function that returns TRUE if at least one of two logical conditions evaluates to TRUE, equivalent to the || operator.

NOT(): A DAX function that reverses a Boolean value, turning TRUE into FALSE and vice versa.

Row-Level Security (RLS): A Power BI feature that restricts the rows of data visible to a given user, defined by DAX filter rules and enforced in Power BI Service.

Dynamic RLS: A row-level security implementation that automatically filters data based on the identity of the logged-in user, typically using USERPRINCIPALNAME().

USERPRINCIPALNAME(): A DAX function that returns the email address of the currently authenticated user, enabling user-specific row-level security.

ADDCOLUMNS(): A DAX table function that returns the input table with one or more additional computed columns appended.

SELECTCOLUMNS(): A DAX table function that returns a new table containing only specified columns, computed from an input table.

SUMMARIZE(): A DAX function that creates a grouped summary table, similar to a GROUP BY operation, for calculating totals across defined dimensions.

DISTINCT(): A DAX function that returns a table or column with duplicate rows removed, retaining only unique values.

Time Intelligence Function: A category of DAX functions that operate on date columns to support period-based comparisons, such as SAMEPERIODLASTYEAR and TOTALYTD.

SAMEPERIODLASTYEAR(): A DAX function that returns a set of dates shifted back exactly one year, enabling year-over-year comparison.

DATESBETWEEN(): A DAX function that filters a date table to include only dates falling within a specified start and end date.

TOTALYTD(): A DAX function that calculates the year-to-date cumulative value of an expression as of the last date in the current filter context.

Date Dimension Table: A dedicated table in a data model containing date attributes such as day, month, quarter, and year, recommended as a best practice for time intelligence.

DAX (Data Analysis Expressions): The formula and expression language used in Power BI to create calculated columns, measures, tables, and security rules.