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PART-01

TIME-INTELLIGENCE FUNCTIONS IN POWER BI

Swipe —————→



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1. CALENDAR

Purpose: Creates a single-column table containing a contiguous set of dates within a specified range.

Syntax: CALENDAR(<startdate>, <enddate>)

Arguments:

startdate: The starting date for the calendar table (required).

enddate: The ending date for the calendar table (optional, defaults to current date).

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CALENDAR

Example:

**CalendarTable = CALENDAR(DATE(2023, 1, 1),
DATE(2023, 12, 31))**

This creates a table named CalendarTable containing dates from January 1, 2023, to December 31, 2023.

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2. CALENDARAUTO

Purpose: Similar to CALENDAR, but automatically expands the date range based on existing dates in your model.

Syntax: CALENDARAUTO()

Example:

CalendarAutoTable = CALENDARAUTO()

This creates a table containing all unique dates found in your entire data model.

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3. DATE

Purpose: Converts a string or numbers into a date value.

Syntax: DATE(<year>, <month>, <day>)

Arguments:

- **year:** The year (required).
- **month:** The month (required).
- **day:** The day (optional, defaults to 1).

Example:

SalesDate = DATE(2024, 2, 4)

This converts the string "2024-02-04" to a date value.

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4. SAMEPERIODLASTYEAR & SAMEPERIODLASTMONTH

Purpose: Compare values to the corresponding period in the previous year or month.

Syntax: SAMEPERIODLASTYEAR(<expression>),
SAMEPERIODLASTMONTH(<expression>)

Example:

```
PreviousYearSales =  
CALCULATE(SUM(SalesAmount),  
SAMEPERIODLASTYEAR('Sales'[Date]))
```

This calculates the total sales amount for the same month of the previous year for each row in the 'Sales' table.

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4. DATEADD & DATEDIFF

Purpose: Add or subtract a specified number of days, months, or years to a date value.

Syntax: **DATEADD(<date>, <interval>, <number>),**
DATEDIFF(<date1>, <date2>, <interval>)

Arguments:

interval: The interval to add/subtract (e.g., DAYS, MONTHS, YEARS).

number: The number of units to add/subtract (positive for adding, negative for subtracting).

Example:

NextWeekDate = DATEADD(SalesDate, 7, DAYS)

DaysSinceLaunch = DATEDIFF(LaunchDate, TODAY(), DAYS)

These formulas calculate the date of the next week based on SalesDate and the number of days since the LaunchDate, respectively.

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