

Text Functions

These are operations performed on text data:

1. Concatenate (Joining Text):

- Formula: [Text1] & [Text2]
- Example: **Full Name** = 'Transaction' [First Name] & " " & 'Transaction' [Last Name]

Function	Purpose	DAX Example	Description
LEFT	Extracts a specific number of characters from the start of a text string.	LEFT('Transaction' [First Name], 1)	Extracts the first letter of the first name.
RIGHT	Extracts a specific number of characters from the end of a text string.	RIGHT('Transaction' [Last Name], 3)	Extracts the last three letters of the last name.
UPPER	Converts all letters in a text string to uppercase.	UPPER('Transaction' [Last Name])	Converts the last name to uppercase.
LOWER	Converts all letters in a text string to lowercase.	LOWER('Transaction' [First Name])	Converts the first name to lowercase.
TRIM	Removes all spaces from text except for single spaces between words.	TRIM('Transaction' [First Name]) & " " & TRIM('Transaction' [Last Name])	Remove any extra spaces around the first and last names and combine them into a full name.
LEN	Returns the number of characters in a text string.	LEN('Transaction' [ProductName])	Determines the length of each product name.
SUBSTITUTE	Replace existing text with new text in a text string.	SUBSTITUTE('Transaction' [ProductName], " ", "_")	Replaces spaces in product names with underscores, useful for creating IDs or file names.

Date/Time

Function	Purpose	Example	Description
TODAY()	Returns the current date.	Current Date = TODAY()	Used to get the current date without time.
NOW()	Returns the current date and time.	Current DateTime = NOW()	Useful for timestamping or calculating current times.
DATE()	Returns a date given the year, month, and day.	Specific Date = DATE(2024, 12, 31)	Creates a date from individual year, month, and day components.
DATEDIFF()	Returns the difference between two dates.	Days Between = DATEDIFF([StartDate], [EndDate], DAY) Ex: Days since Sale = DATEDIFF('Transaction'[SaleDate], [Current Date], DAY)	Commonly used to calculate age or duration between dates.
YEAR(), MONTH(), DAY()	Extracts the year, month, or day from a date.	Year = YEAR('Transaction' [SaleDate])	Useful for breaking down dates into their constituent parts.

Function	Purpose	DAX Example	Description
SUM	Adds up all the numbers in a column.	Sales = sum('Transaction' [Total Sales])	Calculates the total sales quantity.
AVERAGE	Calculates the average (arithmetic mean) of a column's values.	Average Unit Price = AVERAGE('Transaction' [UnitPrice])	Calculates the average unit price of sold items.
MIN	Returns the smallest numeric value in a column.	Min Unit Price = MIN('Transaction' [UnitPrice])	Finds the lowest unit price among all products.
MAX	Returns the largest numeric value in a column.	Max Unit Price = MAX('Transaction' [UnitPrice])	Finds the highest unit price among all products.
COUNT	Counts the number of rows that contain a number.	Transaction Count = COUNT('Transaction' [TransactionID])	Counts the number of transactions recorded.