

Power BI DAX Functions Cheat Sheet

1. Aggregation & Statistical Functions

- **SUM(column)** — Sum of all values in a column
 - **SUMX(table, expression)** — Sum of evaluated expression across rows
 - **AVERAGE(column) / AVERAGEX(table, expression)** — Average value
 - **COUNT, COUNTA, COUNTROWS** — Count rows or non-blank entries
 - **MIN, MAX** — Minimum and maximum values
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2. Mathematical & Trigonometric Functions

Includes **ABS, ACOS, ASIN, ROUND, STDEV, VAR**, and more.

3. Date & Time / Time Intelligence

- **DATE, YEAR, MONTH, DAY, NOW, TODAY**
 - Time Intelligence: **DATESYTD, TOTALYTD, SAMEPERIODLASTYEAR, DATEADD, DATEDIFF**
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4. Logical, Information & Operators

- **IF, SWITCH, NOT** — Conditional logic
 - **ISTEXT, ISNUMBER, ISBLANK** — Data type checks
 - Operators: +, -, *, /, &&, ||, etc.
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5. Text Functions

- **CONCATENATE, UPPER, LOWER, PROPER, LEN, SUBSTITUTE, REPLACE**
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6. Lookup & Relationship Functions

- **LOOKUPVALUE** — Fetch values from another table
 - **RELATED** — Get values via table relationships
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7. Filter & Context Functions

- **FILTER(table, condition)** — Filter rows based on condition
 - **CALCULATE(expression, filters...)** — Modify filter context for calculations
 - **ALL, ALLEXCEPT, ALLSELECTED** — Control context removal or preservation
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8. Ranking & Iterators

- **RANKX(table, expression)** — Rank values in a table
 - **X functions (e.g., SUMX, AVERAGEX, COUNTX, MINX, MAXX)** — Row-wise evaluation across tables
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9. Advanced & Others

- **CALCULATETABLE** — Returns filtered table
 - **RELATEDTABLE, SUMMARIZE, ADDCOLUMNS** — Table manipulation and enrichment
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Top 10 Most Used DAX Functions

1. **CALCULATE**
 2. **SUM, SUMX**
 3. **CALCULATETABLE**
 4. **RANKX**
 5. **DATEDIFF**
 6. **DATEADD**
 7. **COUNT, COUNTROWS**
 8. **LOOKUPVALUE**
 9. **FILTER**
 10. **RELATED**
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Quick Reference Table

Category Key Functions	----- -----	Aggregation & Stats SUM, AVERAGE, COUNT*, MIN, MAX	Math & Stats ROUND, ABS, STDEV, VAR, ACOS...	Date/Time + Time Intelligence DATE, NOW, TODAY, DATESYTD, SAMEPERIODLASTYEAR, DATEADD	Logical / Info / Operators IF, SWITCH, ISTEXT, ISBLANK, +, -, &&,	Text CONCATENATE, UPPER, LEN, REPLACE	Lookup / Relationship LOOKUPVALUE, RELATED	Filter & Context FILTER, CALCULATE, ALL, ALLEXCEPT	Ranking & Iterators RANKX, SUMX, AVERAGEX, COUNTX, MINX, MAXX	Advanced & Table Manipulation CALCULATETABLE, ADDCOLUMNS, RELATEDTABLE, SUMMARIZE
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Resources

- Microsoft official DAX reference: <https://learn.microsoft.com/en-us/dax/dax-function-reference>
- Community resource: <https://dax.guide>
- Pragmatic Works Cheat Sheet: <https://pragmaticworks.com/resources/cheat-sheet/dax>