DAX Functions
in Power BI Desktop

❖ DAX functions can **supercharge your analytics game.** Every DAX function applies a specific operation to the values in an argument. In a DAX formula, you can specify several arguments.

Power BI

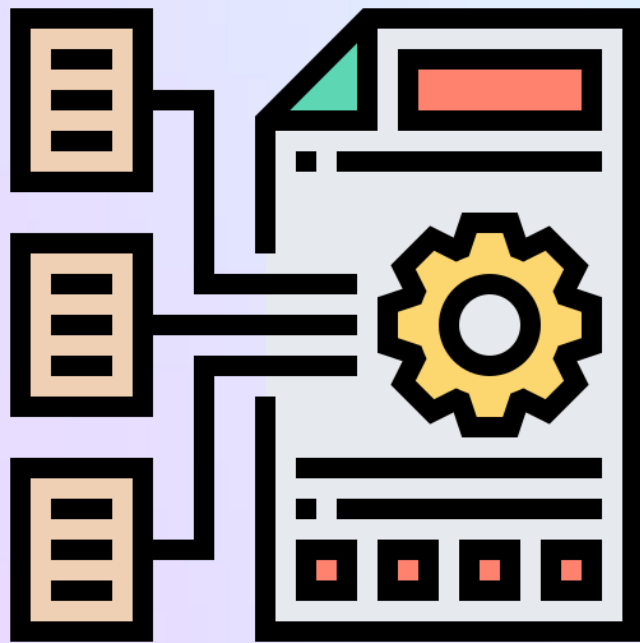|		
Aggregation functions	**Date & Time functions**	**Filter functions**
Financial functions	**Information functions**	**Logical functions**
Math & Trig functions	**Other functions**	**Parent & Child functions**
Relationship functions	**Statistical functions**	**Text functions**
Time intelligence functions	**Table manipulation functions**	**New DAX Functions**

Naveen Billa

»

Aggregation Functions

- SUM
- COUNT
- AVERAGE
- MIN
- MAX
- PRODUCT
- SUMX
- COUNTA
- COUNTROWS
- DISTINCTCOUNT

➢ These functions perform calculations on columns or expressions to summarize data.

Date & Time Functions

- TODAY
- YEAR
- QUARTER
- DATE
- DATEDIFF
- EOMONTH
- UTCNOW
- WEEKDAY
- DATEDIFF
- CALENDARAUTO

➤ These functions help you create calculations based on dates and time.

Naveen Billa

Filter Functions

- FILTER
- ALL
- ALLSELECTED
- ALLEXCEPT
- SELECTEDVALUE
- KEEPFILTERS
- CALCULATE
- INDEX
- LOOKUPVALUE
- RANK
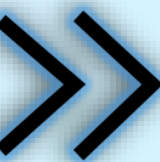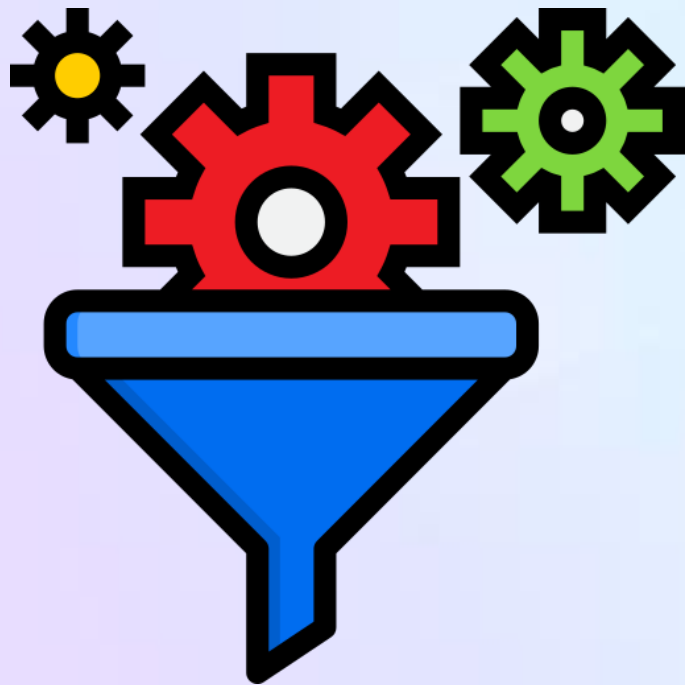
➢ These functions allow you to filter and manipulate tables or columns based on specific conditions.

Financial Functions

- DURATION
- MDURATION
- RATE
- PRICE
- YIELD
- DISC
- EFFECT
- INTRATE
- ISPMT
- NOMINAL
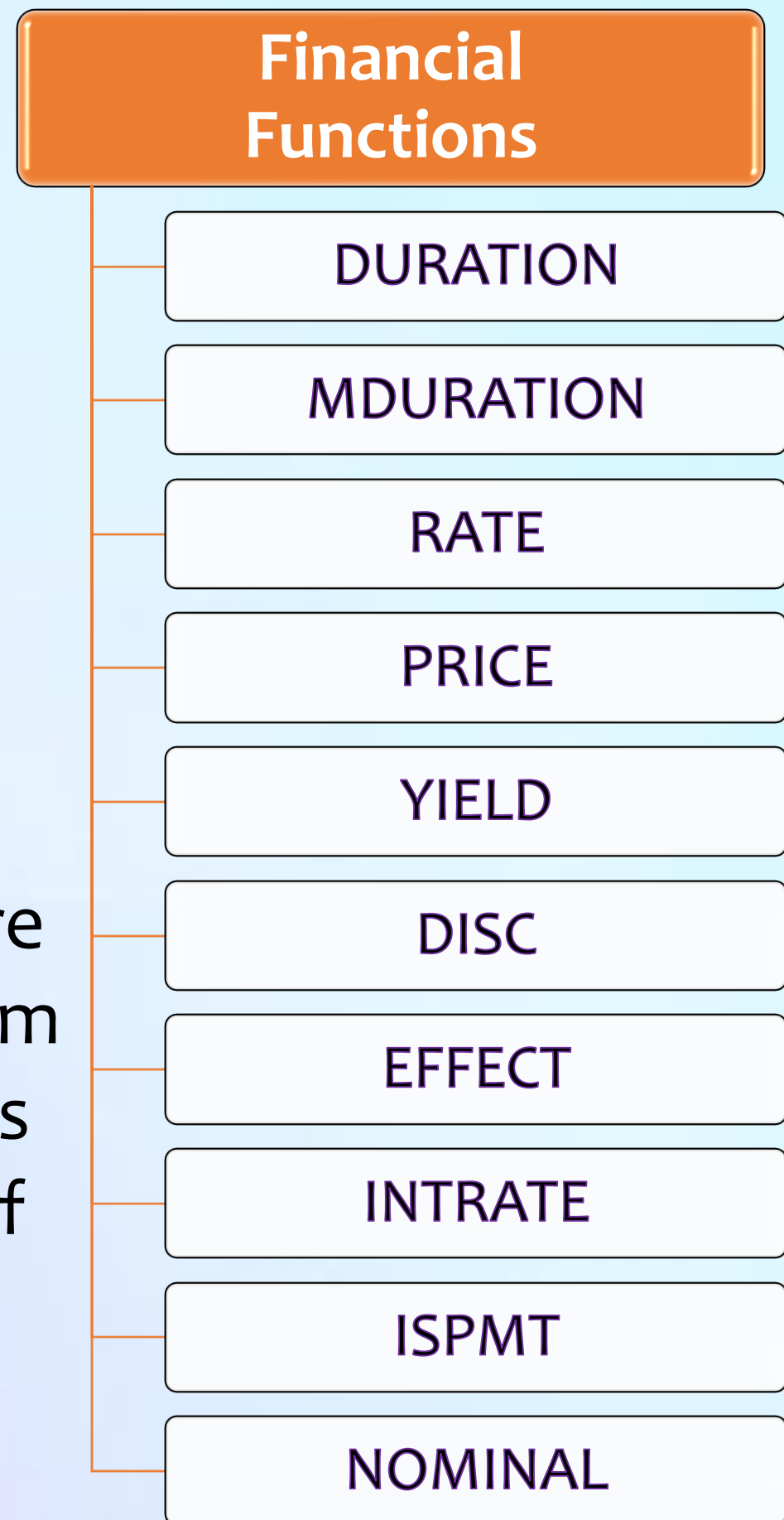
➤ Financial functions in DAX are used in formulas that perform financial calculations, such as net present value and rate of return.

Naveen Billa

Information Functions

- ISBLANK
- CONTAINS
- ISFILTERED
- ISONORAFTER
- HASONEVALUE
- USERPRINCIPALNAME
- USERNAME
- ISERROR
- ISTEXT
- HASONEFILTER

➢ These functions provide information about data and calculations.

Naveen Billa

Logical Functions

- IF
- SWITCH
- OR
- AND
- NOT
- IFERROR
- TRUE
- FALSE
- COALESCE
- IF.EAGER
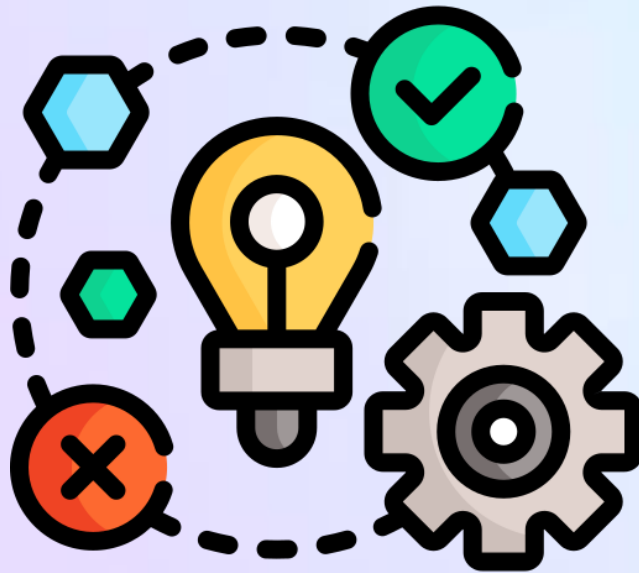
➤ Logical functions act upon an expression to return information about the values or sets in the expression.

Naveen Billa

Math & Trig Functions

- ABS
- ROUND
- CEILING
- DIVIDE
- CURRENCY
- FLOOR
- SQRT
- POWER
- CONVERT
- DEGREES

➤ Math and Trig DAX functions are used for performing a wide range of mathematical and trigonometric calculations.

Naveen Billa
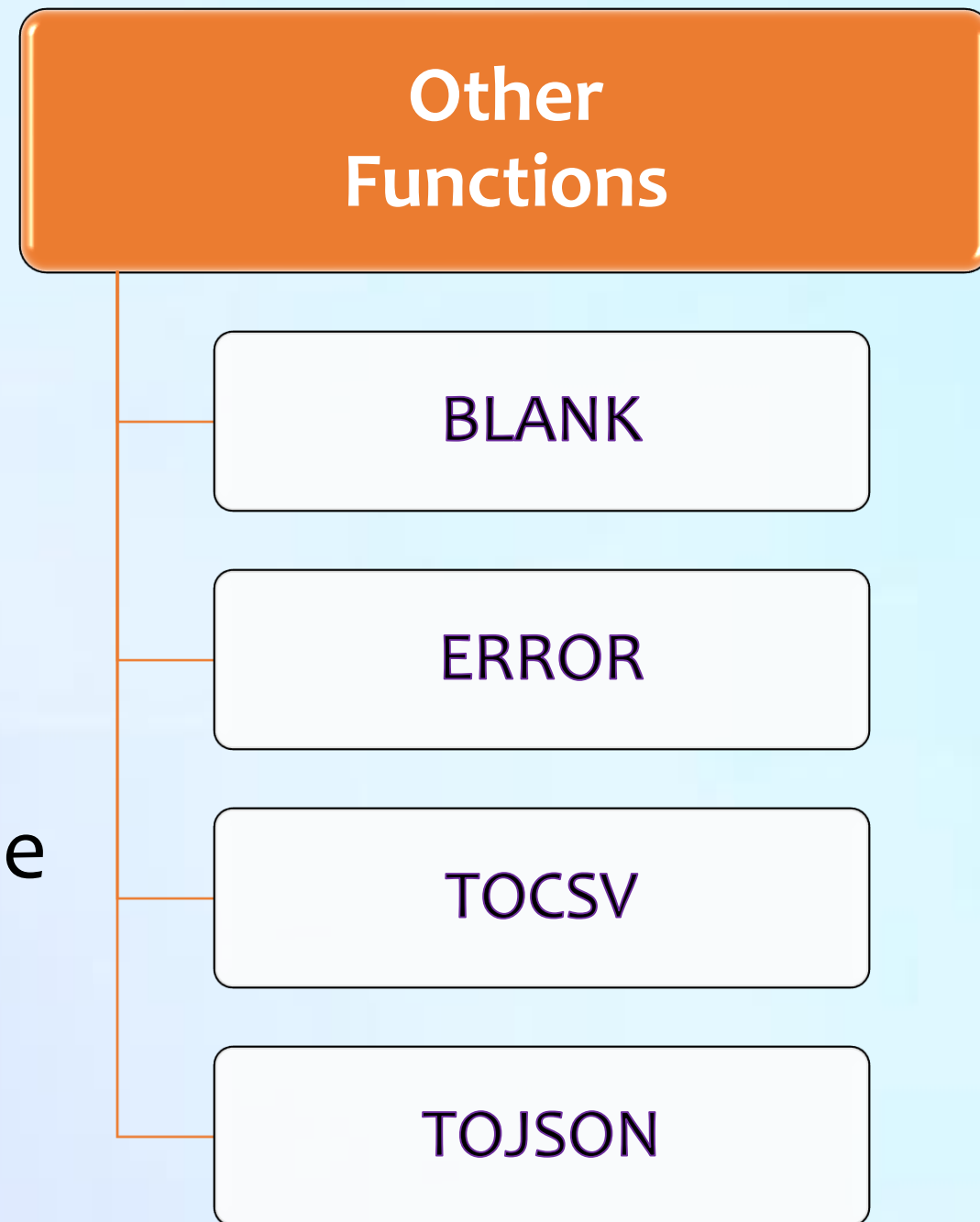
Other Functions
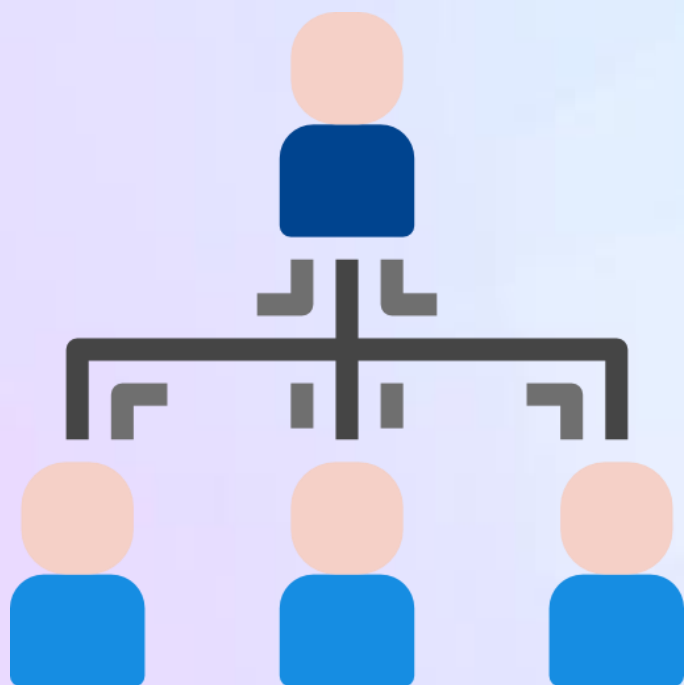
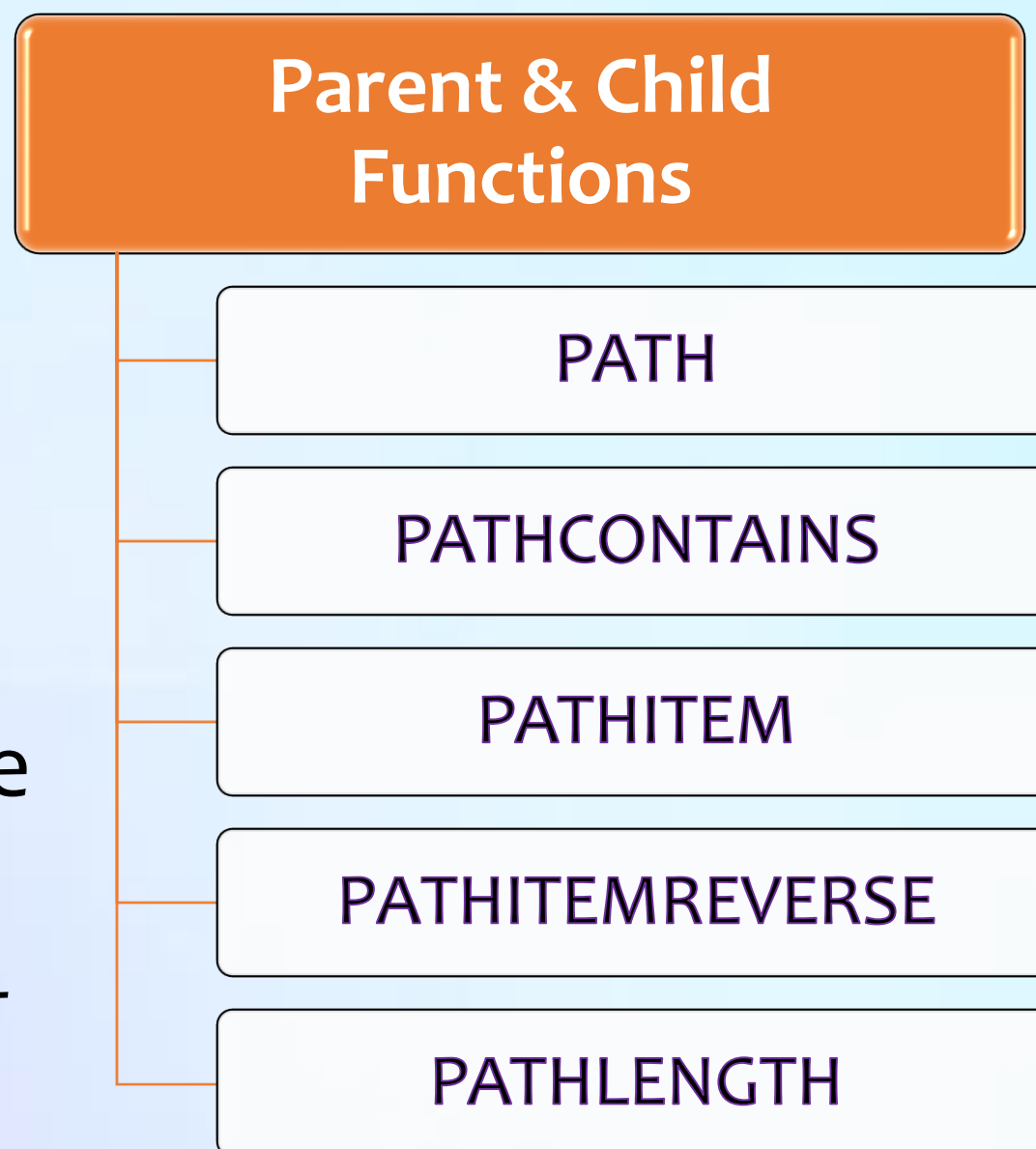- BLANK
- ERROR
- TOCSV
- TOJSON

➤ These functions perform unique actions that cannot be defined by any of the categories.

Naveen Billa

> Parent and Child functions are used in DAX to navigate and work with hierarchical data structures like parent-child hierarchies.

Parent & Child Functions

- PATH
- PATHCONTAINS
- PATHITEM
- PATHITEMREVERSE
- PATHLENGTH

Naveen Billa

Relationship Functions

- ➤ Functions in this category are for managing and utilizing relationships between tables.

CROSSFILTER

RELATED

RELATEDTABLE

USERELATIONSHIP

Statistical Functions

- RANKX
- STDEV.P
- VAR.S
- NORM.DIST
- COMBIN
- MEDIAN
- GEOMEAN
- CONFIDENCE.T
- EXPON.DIST
- LINEST

➢ These functions help you to calculate values related to statistical distributions and probability, such as standard deviation and number of permutations.

Naveen Billa

Table Manipulation Functions

- SUMMARIZE
- ADDCOLUMNS
- CROSSJOIN
- VALUES
- TOPN
- UNION
- TREATAS
- EXCEPT
- GROUPBY
- INTERSECT
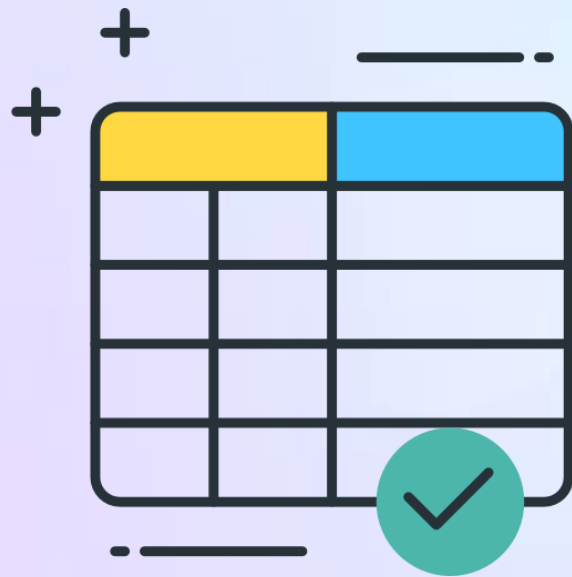
➢ These functions create, manipulate, or summarize tables.

Naveen Billa

Text Functions

- FORMAT
- CONCATENATEX
- LEFT
- SEARCH
- FIND
- EXACT
- REPLACE
- SUBSTITUTE
- TRIM
- UNICHAR
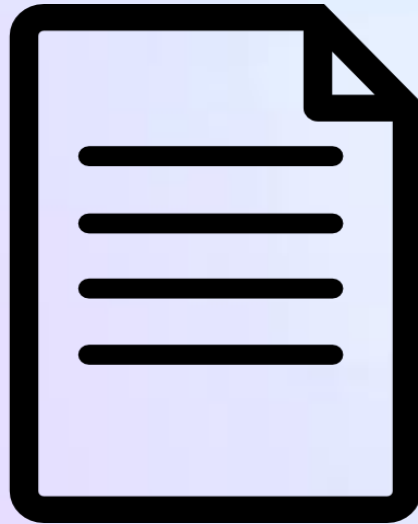
➤ These functions work with text data, such as manipulating strings.

Naveen Billa

Time Intelligence Functions
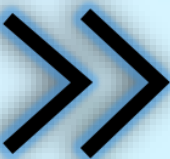
> These functions are used for analyzing and comparing data over time periods.

- TOTALYTD
- DATEADD
- SAMEPERIODLASTYEAR
- PARALLELPERIOD
- PREVIOUSYEAR
- DATEMTD
- DATESINPERIOD
- LASTDATE
- STARTOFMONTH
- ENDOFYEAR

New DAX Functions

- NETWORKDAYS
- MATCHBY
- RANK
- ROWNUMBER
- LINEST
- INDEX

➢ DAX is continuously being improved with new functions and functionality to support new features.

Naveen Billa

DATA ANALYTICS
NAVEEN BILLA
POWER BI