

WHAT IS DAX

Dax is a collection of functions , operators and constant that can be used in a formula or expression , to calculate and return one or more values

Stated more simply ,DAX helps create new information from data already in your model

HOW DAX DIFFERS FROM EXCEL FORMULA

Excel formulas typically operates on cells, while dax formula work with entire table or columns, enabling more complex and dynamic calculation

Excel formulas are more used in excel sheets and spread sheets whereas DAX are used more in power bi, power pivot tables

In short excel are used in more day to day functions while dad are used in power bi

WHAT ARE THE BASIC DAX FUNCTIONS

SUM: adds up all the number in columns, for example

SUM (Sales [AMOUNT])

It will sum all the sales amount together

AVERAGE (Sales [Amount])

It will provide average sales amount as a result

COUNT:

Count the number of items

COUNT [Sales [order id]]

COUNTA: count all the non-empty cells in columns, including text and numbers

COUNTA (Sales [Customer Name])

MAX: finds the highest number in columns

Min: find the lowest

MAX (Sales [Amount])

MIN (Sales [Amount])

IF: checks if the condition is true or false and returns based on that

CALCULATE: CALCULATE (SUM (SALES [AMOUNT]).SALES [REGIONS]

FILTER: filter (Sales, Sales [Amount]>500)

RELATED: gets data from another table that is related to this table

WHAT ARE OPERATORS USED IN DAX

There are three types of operators used in DAX those are

- Arithmetic Operators
- Logical
- Relational

WHAT IS DIFFERENCE BETWEEN ROW CONTEXT AND FILTER CONTEXT

Row context is like focusing on single row in a table whereas performing calculation on that specific row

FILTER CONTEXT: filter context is like applying filter to a set of data and then performing calculation based on the filtered subset

ALL: all helps us to showcase data regardless of any filter that have been applied

Consider that you have sales table and on the sales table you have applied filter that will showcase information related to sales of northern region now you want to see the information of all the region hence you will use the ALL keywords

ALLEXCEPT : it will showcase all the information but will remove the information mentioned in except and not showcase it

REMOVEFILTER : remove filter will remove the filters

What are the three relationship present

- One to one
- One to many
- Many to one