✓ 1. What is row context? Give an example in a calculated column.

Answer:

Row context means that DAX evaluates one row at a time. In a calculated column, you can use values from the same row.

Example:

dax

TotalPrice = Sales[Quantity] * Sales[UnitPrice]

Each row of the Sales table calculates its own TotalPrice.

2. Write a measure that finds total sales

dax

Total Sales = SUM(Sales[Amount])

✓ 3. Use RELATED to fetch the Name from the Customers table into the Sales table

dax

Customer Name = RELATED(Customers[Name])

Requires a relationship between Sales[CustomerID] and Customers[CustomerID].

✓ 4. What does this return?

dax

CALCULATE(SUM(Sales[Quantity]), Sales[Category] = "Electronics")

Answer:

It calculates the sum of quantity sold for only Electronics category.

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⚠ But technically you should use:

dax

Electronics Quantity =

CALCULATE(SUM(Sales[Quantity]), Sales[Category] = "Electronics")

5. Explain the difference between VAR and RETURN in DAX

- VAR lets you define intermediate variables.
- RETURN outputs the final result.

Example:

dax

Sales After Discount =

VAR Discounted = SUM(Sales[Amount]) * 0.9

RETURN Discounted

✓ 6. Create a calculated column TotalPrice = Quantity * UnitPrice

dax

TotalPrice = Sales[Quantity] * Sales[UnitPrice]

✓ 7. Measure: Electronics Sales using CALCULATE

dax

Electronics Sales =

CALCULATE(SUM(Sales[Amount]), Sales[Category] = "Electronics")

☑ 8. Use ALL(Sales[Category]) to ignore filters in a measure

dax

Total Sales Ignoring Category =

CALCULATE(SUM(Sales[Amount]), ALL(Sales[Category]))

✓ 9. Fix this error: RELATED(Customers[Region]) returns blanks.

Cause: There's likely **no active relationship** between Sales and Customers, or values are mismatched.

Fix:

- 1. Check that the relationship exists and is active.
- 2. Make sure keys like CustomerID match in both tables.

10. Why does CALCULATE override filters?

Answer:

CALCULATE modifies the filter context. It can **add, replace, or remove filters**, which allows you to analyze data differently from what's selected in slicers or visuals.

11. Measure: Average Unit Price

dax

Average Unit Price = AVERAGE(Sales[UnitPrice])

12. Use VAR to store a table and count high-quantity rows

dax

High Quantity Count =

VAR HighSales = FILTER(Sales, Sales[Quantity] > 2)

RETURN COUNTROWS(HighSales)

✓ 13. Measure: % of Category Sales

dax

% of Category Sales =

DIVIDE(

Sales[Amount],

CALCULATE(SUM(Sales[Amount]), ALLEXCEPT(Sales, Sales[Category]))

)

✓ 14. Simulate "Remove Filters" using ALL

dax

Sales Without Filters =

CALCULATE(SUM(Sales[Amount]), ALL(Sales))

✓ 15. Troubleshoot: CALCULATE ignores slicer

Cause:

You probably used ALL() or REMOVEFILTERS() inside CALCULATE, which explicitly removes slicer filters.