

Advanced Filtering in DAX - Lesson 10

1. What does ***FILTER(Sales, Sales[Amount] > 1000)*** return?

Returns a table containing only rows from Sales where Amount > 1000. Must be used inside a function like CALCULATE, SUMX, etc.

2. High Sales (sum of Amount > 1000) [Measure]

High Sales = CALCULATE(SUM(Sales[Amount]), FILTER(Sales, Sales[Amount] > 1000))

3. Difference between ***ALLEXCEPT*** and ***ALL***

ALL removes all filters. ALLEXCEPT removes all filters except the specified columns (e.g., Region).

4. Categorize Amount with ***SWITCH [Calculated Column]***

Amount Category = SWITCH(TRUE(), Sales[Amount] > 1000, "High", Sales[Amount] >= 500, "Medium", "Low")

5. Purpose of ***ALLSELECTED***

Returns all values respecting slicers but ignoring visual-level filters.

6. Regional Sales % [Measure]

Regional Sales % = DIVIDE(SUM(Sales[Amount]), CALCULATE(SUM(Sales[Amount]), ALLEXCEPT(Sales, Sales[Region])))

7. Dynamic Measure using ***SWITCH [Measure]***

Dynamic Sales = SWITCH(SELECTEDVALUE(Metrics[MetricName]), "SUM", SUM(Sales[Amount]), "AVERAGE", AVERAGE(Sales[Amount]), "COUNT", COUNT(Sales[Amount]))

8. Exclude 'Furniture' Sales [Measure]

Non-Furniture Sales = CALCULATE(SUM(Sales[Amount]), Products[Category] <> "Furniture")

9. Why ***ALLSELECTED*** may behave unexpectedly in Pivot Tables

Pivot tables add hidden filters for row/column headers that ALLSELECTED may still respect.

10. Total Sales ignoring Region [Measure]

Total Sales Ignore Region = CALCULATE(SUM(Sales[Amount]), ALL(Sales[Region]))

11. Optimized High Sales [Measure]

High Sales Optimized = CALCULATE(SUM(Sales[Amount]), Sales[Amount] > 1000)

12. Top 2 Products [Measure]

Top 2 Products Sales = CALCULATE(SUM(Sales[Amount]), TOPN(2, SUMMARIZE(Sales, Sales[ProductID], "TotalAmt", SUM(Sales[Amount])), [TotalAmt], DESC))

13. ALLSELECTED with no parameters

Ignores visual-level filters but respects slicers.

14. Debugging SWITCH in a Matrix Visual

Wrap fields in aggregation functions (SUM, AVERAGE, etc.) inside SWITCH to avoid unexpected results.

15. Simulate 'Reset Filters' Button [Measure]

Reset Filters Sales = CALCULATE(SUM(Sales[Amount]), ALL(Sales))