```
1) What does FILTER(Sales, Sales[Amount] > 1000) return?
A table expression containing only rows from Sales where Amount > 1000,
honoring the current filter context.
2) Measure: sum Amount where Amount > 1000 (using FILTER)
DAX
Копировать
Редактировать
High Sales =
CALCULATE( SUM(Sales[Amount]),
  FILTER (Sales, Sales[Amount] > 1000)
)
3) How does ALLEXCEPT(Sales, Sales[Region]) differ from ALL(Sales)?
ALLEXCEPT(Sales, Sales[Region]) removes all filters on Sales except the filter
on Region.
ALL(Sales) removes all filters on every column of Sales (including Region).
4) Categorize Amount with SWITCH
(calculated column or measure)
DAX
Копировать
Редактировать
Amount Band =
SWITCH (TRUE(),
  Sales[Amount] > 1000, "High",
  Sales[Amount] >= 500, "Medium",
  "Low"
)
5) Purpose of ALLSELECTED
```

Returns the rows selected by slicers/outer visuals while ignoring filters applied only by the current visual. Great for "% of total (respect slicers)" calculations.

```
6) Measure: Regional Sales % (each point vs its region total; uses ALLEXCEPT)
DAX
Копировать
Редактировать
Total Sales = SUM(Sales[Amount])
Regional Sales % =
DIVIDE(
  [Total Sales],
  CALCULATE ([Total Sales], ALLEXCEPT(Sales, Sales[Region]))
)
7) Dynamic measure toggling between SUM / AVERAGE / COUNT
Create a disconnected table Metric with rows: SUM, AVERAGE, COUNT.
DAX
Копировать
Редактировать
Selected Metric Value =
VAR m = SELECTEDVALUE (Metric[Name], "SUM")
RETURN
  SWITCH (m,
    "AVERAGE", AVERAGE(Sales[Amount]),
    "COUNT", COUNT(Sales[Amount]),
    [Total Sales]
                    -- SUM (default)
  )
8) Use FILTER inside CALCULATE to exclude Furniture
(assumes Products table related by ProductID)
```

```
DAX
Копировать
Редактировать
Sales (No Furniture) =
CALCULATE (
  [Total Sales],
  FILTER ( ALL ( Products[Category] ), Products[Category] <> "Furniture" )
)
9) Why might ALLSELECTED behave unexpectedly in a pivot/matrix?
ALLSELECTED depends on the current selection level. In a matrix, row/column
totals have a broader filter context than detail rows, so the denominator can
change, producing different results at totals vs. rows.
10) Measure: total sales ignoring Region
DAX
Копировать
Редактировать
Total Sales (Ignore Region) =
CALCULATE ( [Total Sales], ALL ( Sales[Region] ) )
-- or: CALCULATE([Total Sales], REMOVEFILTERS(Sales[Region]))
11) Optimize this:
High Sales = CALCULATE(SUM(Sales[Amount]), FILTER(Sales,
Sales[Amount] > 1000)
Better (boolean filter inside CALCULATE):
DAX
Копировать
Редактировать
High Sales (Optimized) =
CALCULATE ([Total Sales], Sales[Amount] > 1000)
```

12) Measure: Top 2 Products by sales (within current filters) DAX Копировать Редактировать Top 2 Products Sales = VAR byProd = SUMMARIZE ( Sales, Sales[ProductID], "Amt", [Total Sales] ) VAR top2 = TOPN (2, byProd, [Amt], DESC)RETURN SUMX (top2, [Amt]) 13) Use ALLSELECTED() (no params) to respect slicers but ignore the visual's filters DAX Копировать Редактировать Total (AllSelected) = CALCULATE ([Total Sales], ALLSELECTED()) % of AllSelected = DIVIDE([Total Sales], CALCULATE([Total Sales], ALLSELECTED())) 14) Debug: a SWITCH measure returns wrong values after adding fields to a matrix Likely cause: the selector uses SELECTEDVALUE which becomes blank (or ambiguous) at totals/multiple members; or the measure wasn't scoped for totals. Fix: supply a default and handle scope: DAX Копировать Редактировать Selected Metric Value = VAR m = SELECTEDVALUE ( Metric[Name], "SUM" ) **RETURN** 

```
SWITCH ( m,

"AVERAGE", AVERAGE(Sales[Amount]),

"COUNT", COUNT(Sales[Amount]),

[Total Sales] -- default for totals/ambiguous context
)

For complex matrices, use ISINSCOPE()/HASONEVALUE() to branch logic, or a Calculation Group.

15) Simulate a "reset filters" button with ALL

DAX

Копировать

Редактировать

Total Sales (Reset) =

CALCULATE ( [Total Sales], ALL ( Sales ) )

-- Equivalent: CALCULATE([Total Sales], REMOVEFILTERS(Sales))
```