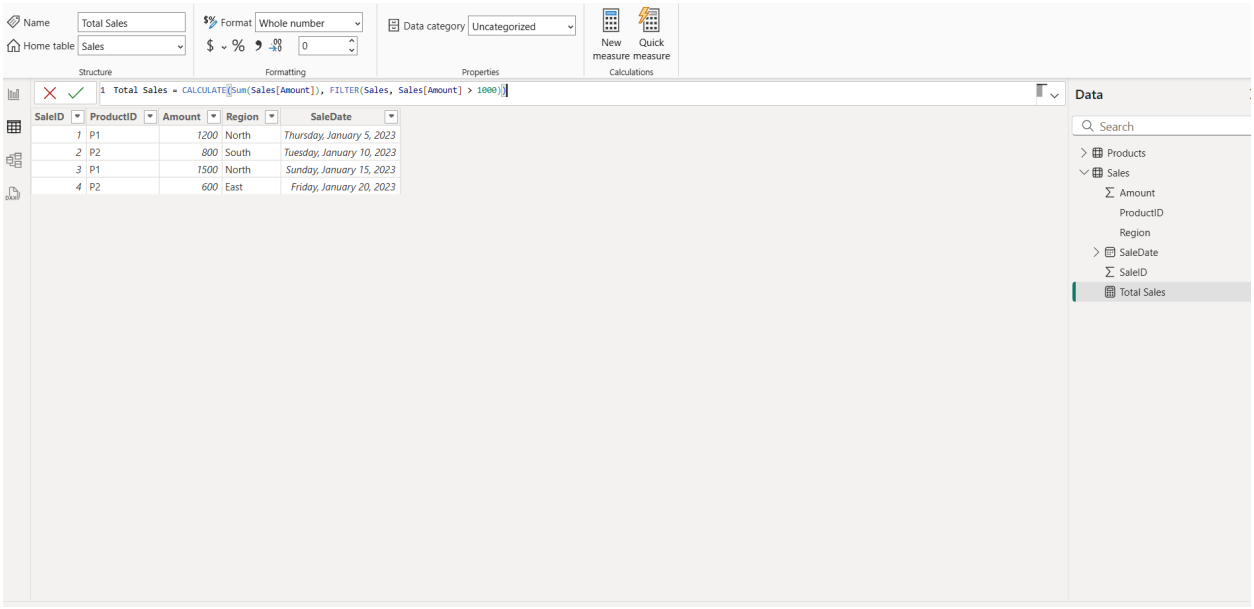
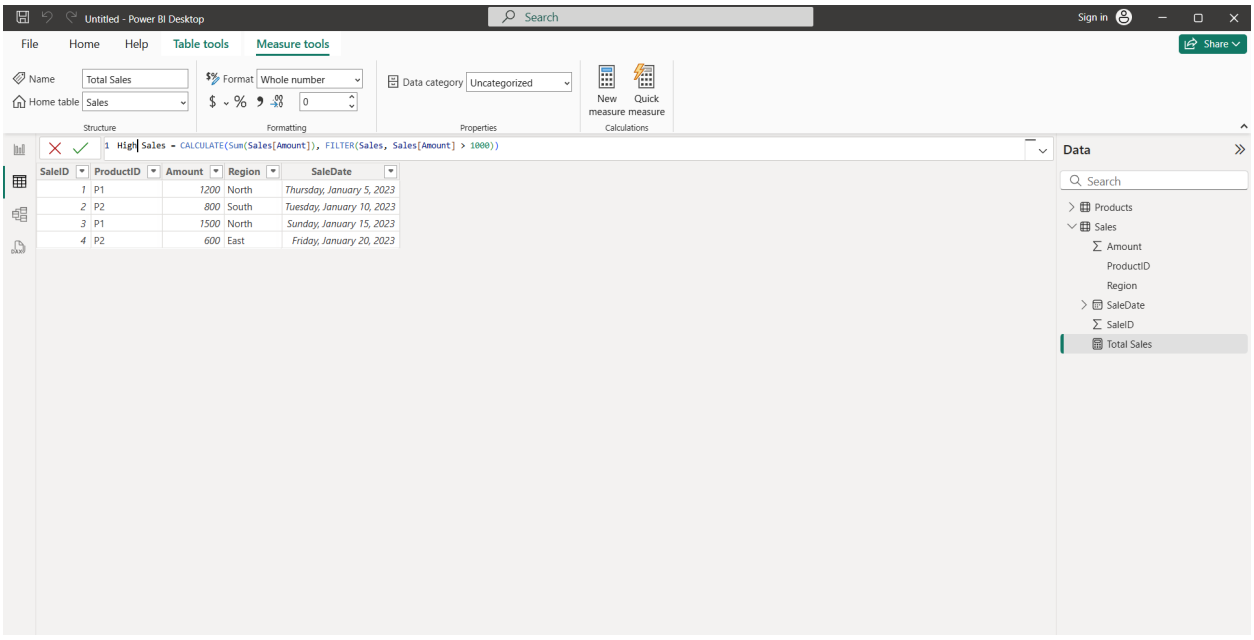
1. **What does FILTER(Sales, Sales[Amount] > 1000) return?**

   FIlTER is used inside of functions: SUMX(), CALCULATE(), AVERAGEX() to filter the table in order to get the data we want with a specific condition



2. **Write a measure High Sales that sums Amount where Amount > 1000 using FILTER.**



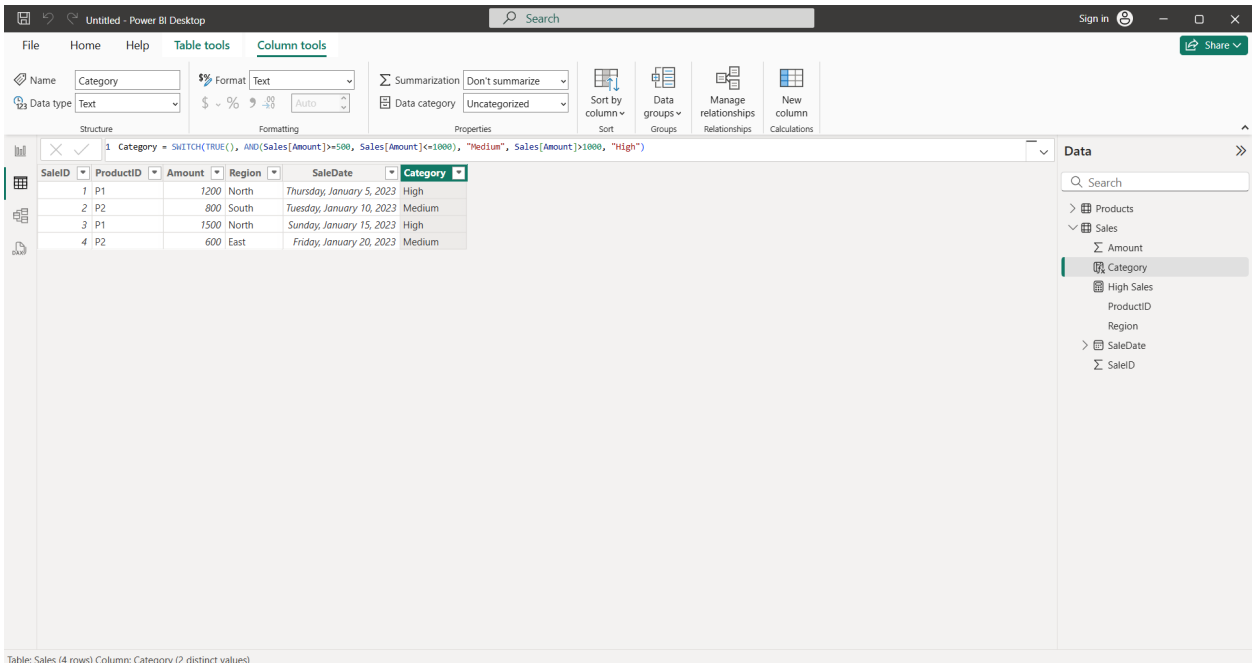
3. **How does ALLEXCEPT(Sales, Sales[Region]) differ from ALL(Sales)?**

ALL(Sales) ignores all filter of the original sales table and calculate the value accordingly. ALLEXCEPT(Sales, Sales[Region]) calculates with all filters except from Sales[Region] column, it mean that all filters can't affect the value in a visualization part except from Region column, and only slicer with Sales[Region] can give the value with filtering

4. **Use SWITCH to categorize Amount:**

   "Medium" if 500–1000

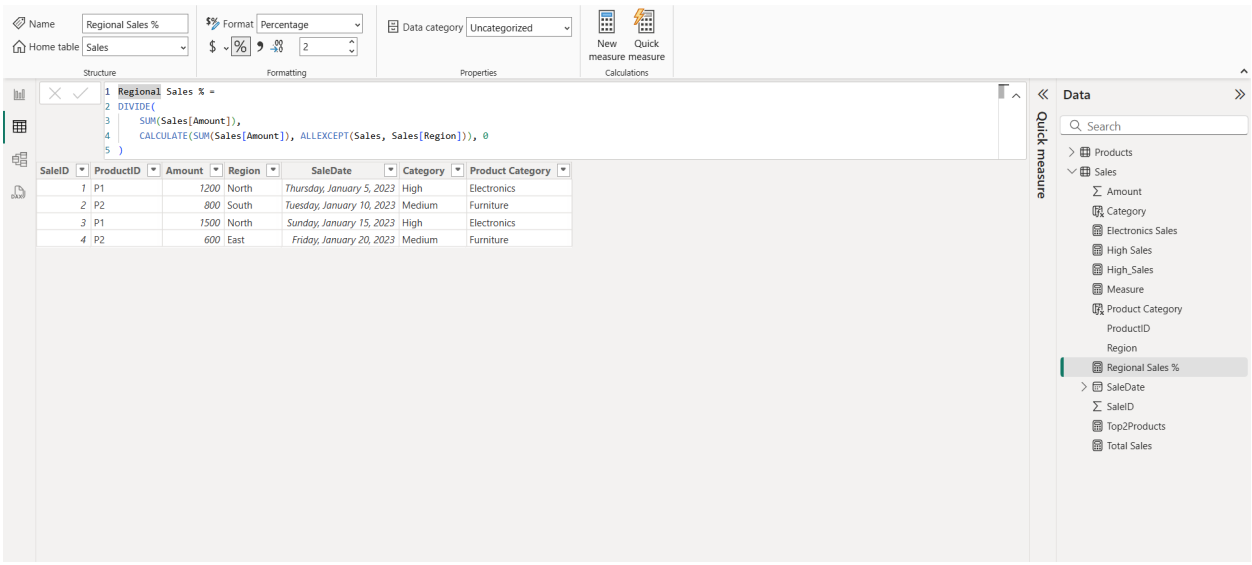
   "High" if > 1000 ```



5. **What is the purpose of ALLSELECTED?**

   The purpose of ALLSELECTED is to keep the values the user selected using slicers or visuals, even from outside the current visual.

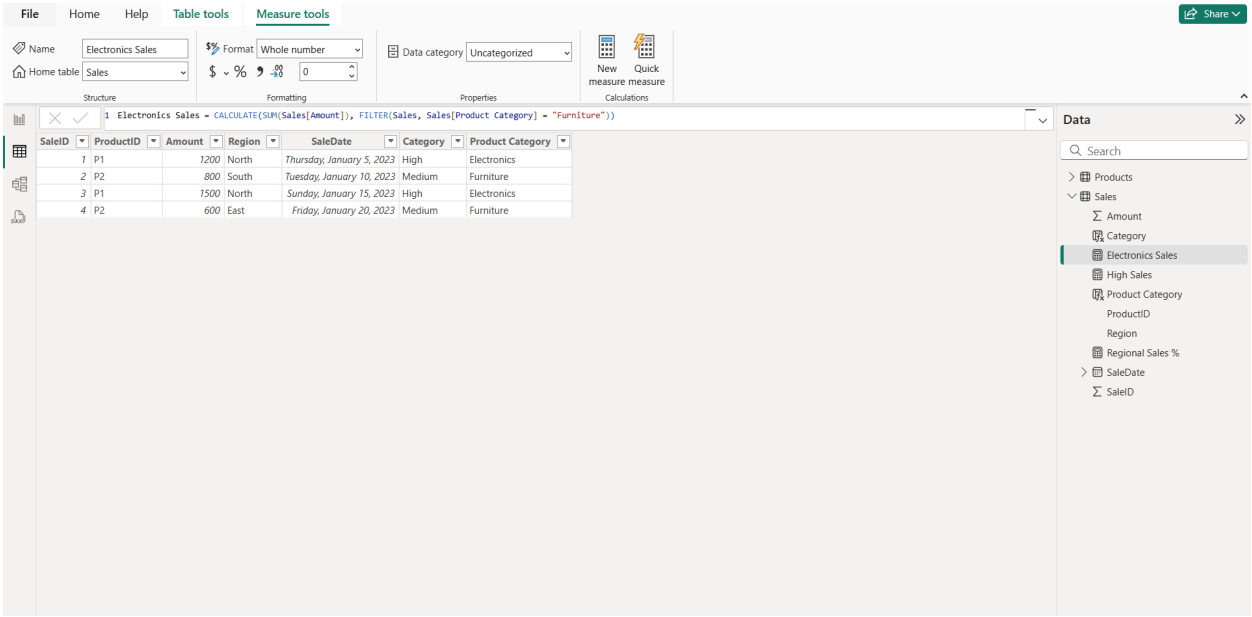
6. **Write a measure Regional Sales % showing each sale's contribution to its region's total (use ALLEXCEPT).**



7. Create a dynamic measure using SWITCH to toggle between SUM, AVERAGE, and COUNT of Amount.

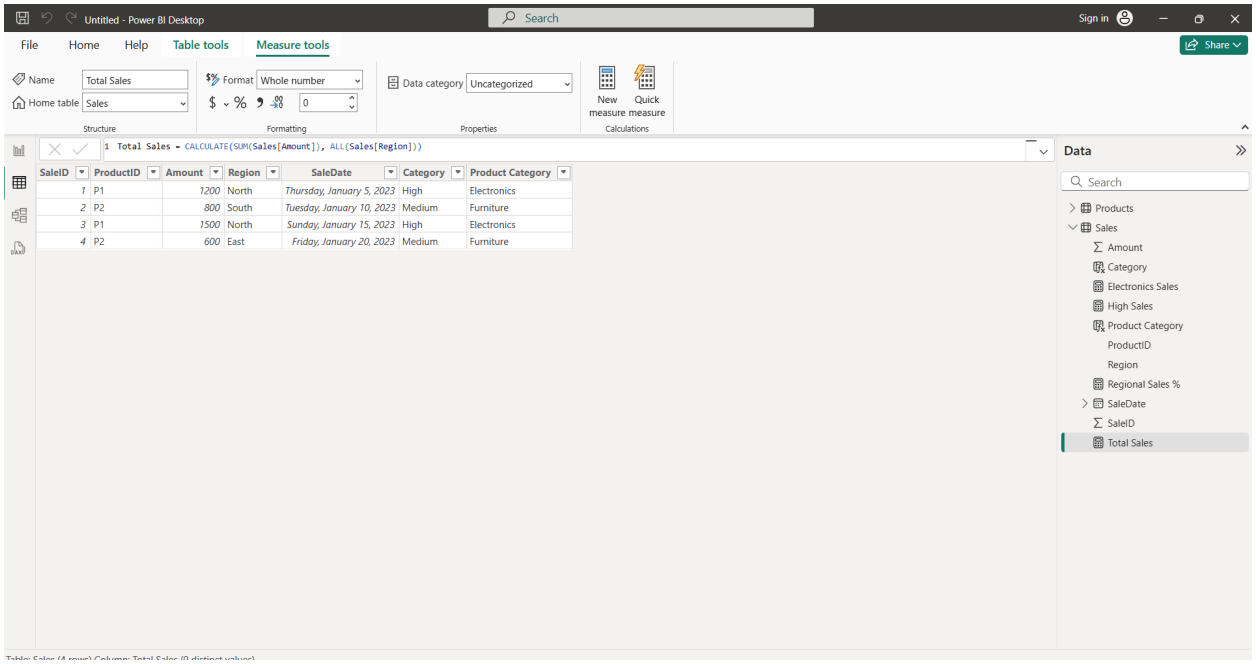
-

8. Use FILTER inside CALCULATE to exclude "Furniture" sales (Products[Category] = "Furniture").



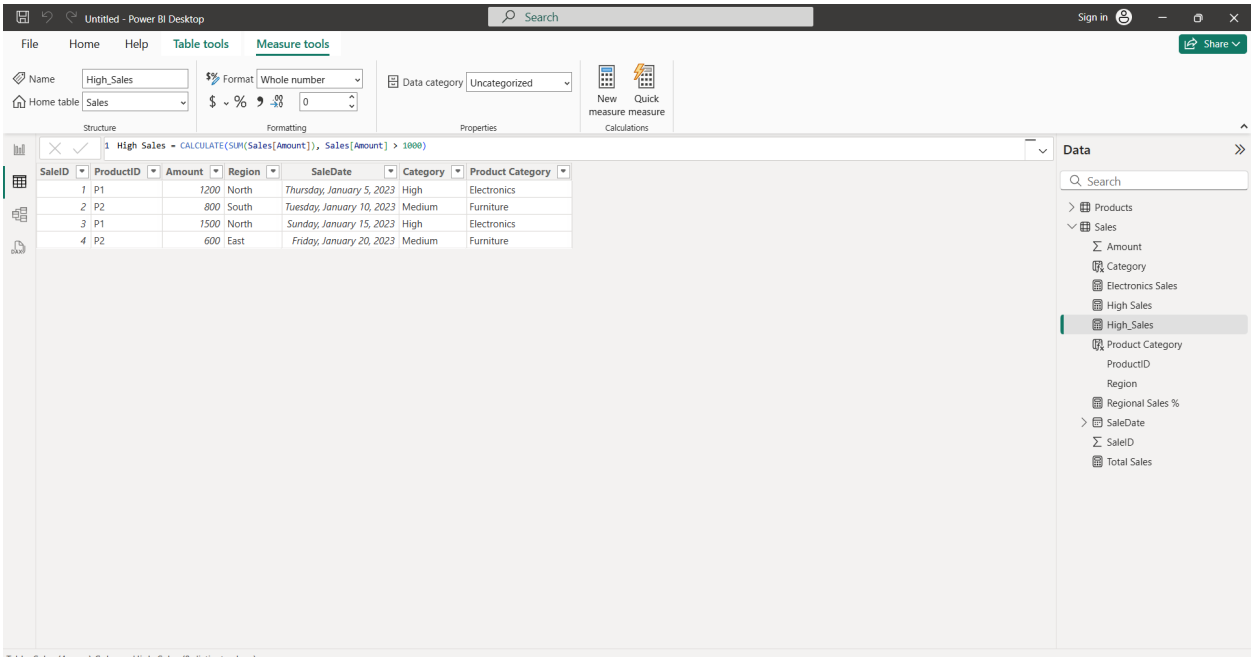
9. Why might ALLSELECTED behave unexpectedly in a pivot table?

10. Write a measure that calculates total sales and ignores filters from region

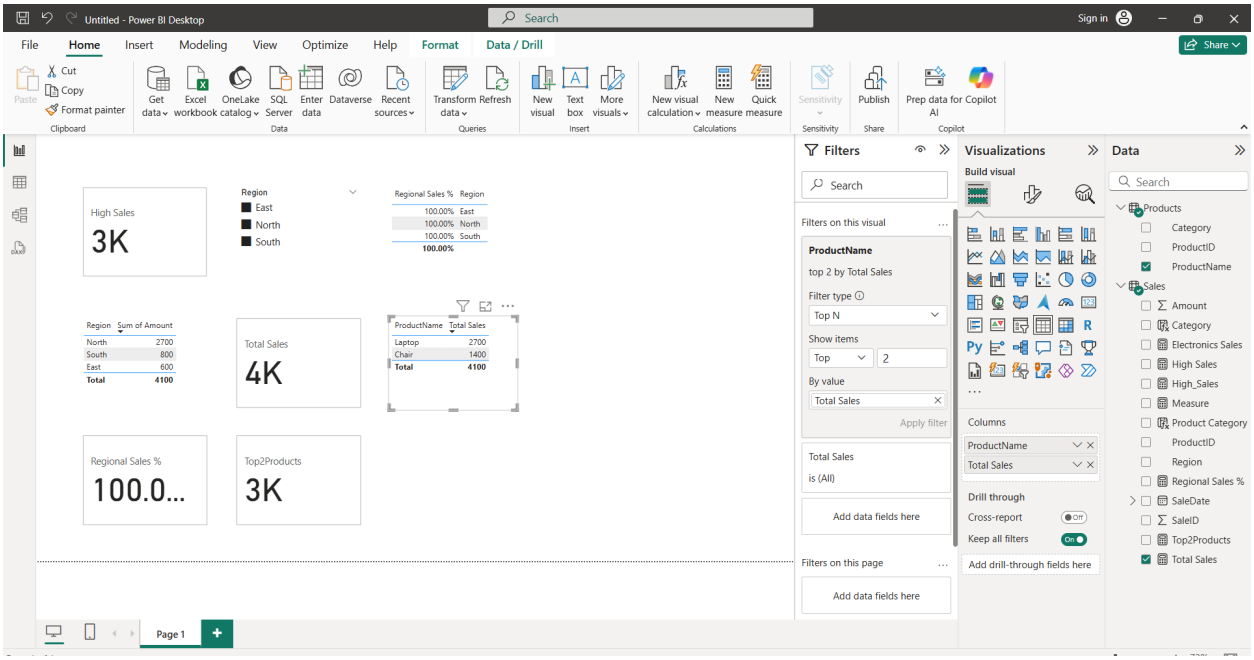


11. Optimize this measure:

High Sales = CALCULATE(SUM(Sales\[Amount]), FILTER(Sales, Sales\[Amount] > 1000)) (Hint: Replace FILTER with a Boolean filter inside CALCULATE.)



12. Write a measure Top 2 Products using TOPN and FILTER to show the highest-grossing products.



13. Use ALLSELECTED with no parameters to respect slicers but ignore visual-level filters.

14. Debug: A SWITCH measure returns incorrect values when fields are added to a matrix visual.

15. Simulate a "reset filters" button using ALL in a measure.