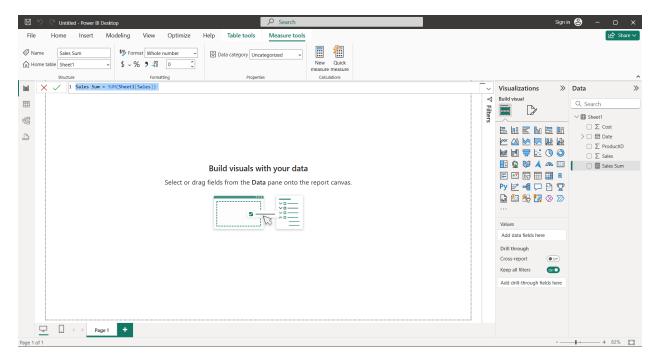
1. What does DAX stand for?

Data Analysis Expressions (DAX) is a formula expression language used in Analysis Services, Power BI, and Power Pivot in Excel.

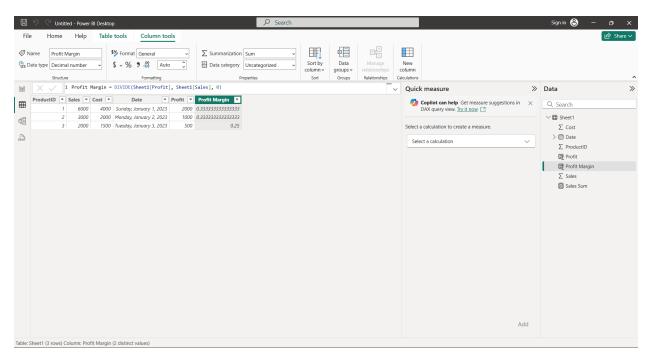
2. Write a DAX formula to sum the Sales column.



3. What is the difference between a calculated column and a measure?

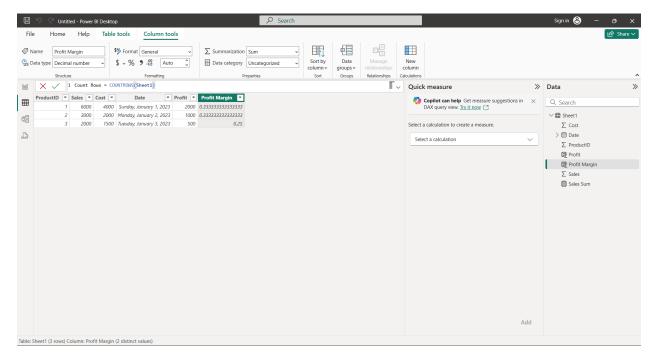
A calculated column is evaluated for each row and stored in the table. A measure is calculated only when used in a visual and summarizes data based on filters. Columns are row-level; measures are summary-level.

4. Use the DIVIDE function to calculate Profit Margin (Profit/Sales).

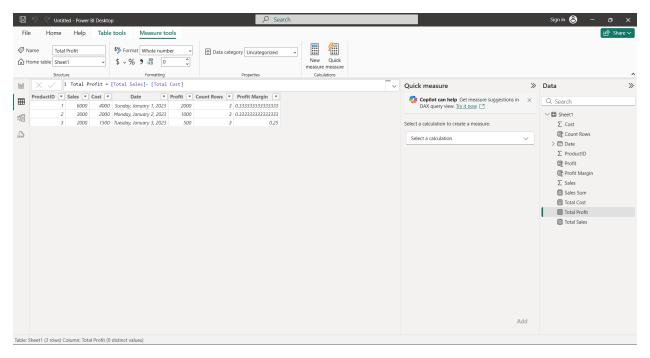


5. What does COUNTROWS() do in DAX?

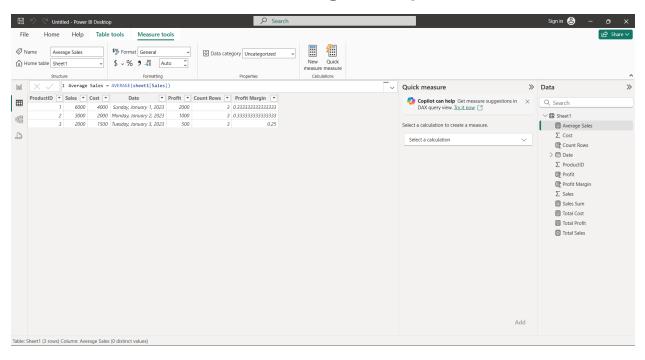
COUNTROWS in Power BI DAX returns the number of rows in a table.



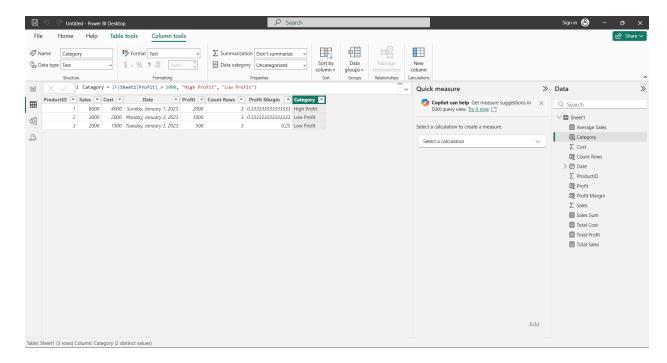
6. Create a measure: Total Profit that subtracts total cost from total sales



7. Write a measure to calculate Average Sales per Product.



8. Use IF() to tag products as "High Profit" if Profit > 1000.



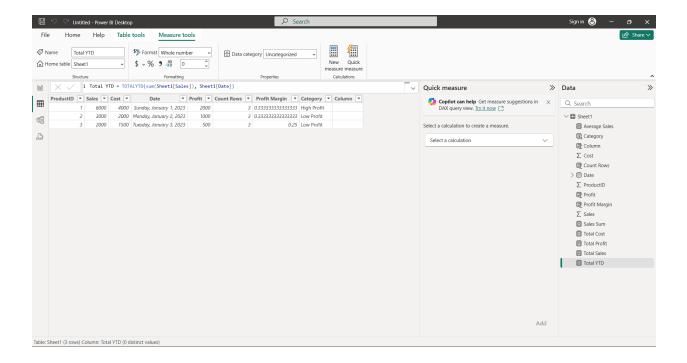
9. What is a circular dependency error in a calculated column?
In Power BI, a circular dependency error occurs when two or more calculated columns or measures in a table indirectly rely

more calculated columns or measures in a table indirectly rely on each other, creating a loop that prevents Power BI from resolving the calculation order.

10. Explain row context vs. filter context.

Row context refers to the current row being processed in a calculation, while filter context refers to the set of filters applied to the data before calculations occur.

11. Write a measure to calculate YTD Sales using TOTALYTD().



- 12. Create a dynamic measure that switches between Sales, Profit, and Margin.
- 13. Optimize a slow DAX measure using variables (VAR).
- 14. Use CALCULATE() to override a filter
- 15. Write a measure that returns the highest sales amount

