1. What does DAX stand for?

DAX stands for "Data Analysis Expression"

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

TotalSales = SUM(Sales[SaleAmount])

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

Calculated column is a column with multiple row, while a measure is a calculation with a scalar output

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

Profit Margin = DIVIDE(Profit, Sales)

5. What does COUNTROWS() do in DAX?

It counts the rows in a given table. It accepts a table as an argument and returns the number of rows that table has

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

Total Profit = SUMX(Sales, Sales[sales] – Sales[cost])

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

Average Sales = AVERAGE(Sales, Sales[SaleAmount])

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

IsHighProfit = IF(Profit > 1000, "High Profit")

9. What is a circular dependency error in a calculated column?

10. Explain row context vs. filter context.

Row context is calculations done row by row where output depends on the values from that row. Whereas **filter context** is about applying filter before doing calculations

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

YTD = TOTALYTD(SUM(Sales[SalesAmount]), TODAY())

12. Create a dynamic measure that switches between Sales, Profit, and Margin.

Idk how

13. Optimize a slow DAX measure using variables (VAR).

OK

14. Use CALCULATE() to override a filter

OK

15. Write a measure that returns the highest sales amount

OK