1. Analyzing the Original Code

The original DAX measure was designed to:

- Use DATESINPERIOD to filter the last 12 months from a date table.
- Group sales data by year and month using SUMMARIZE.
- Calculate total sales for each month with ADDCOLUMNS.
- Identify the top month using TOPN. However, issues arose in how the results were processed and returned.

2. Identifying the Problems

Two key issues were found:

- **Incorrect Use of SELECTCOLUMNS**: This function referenced columns from the 'Date' table instead of the summarized table (MaxSalesMonth), leading to errors.
- **Ambiguity in the RETURN Statement**: The code treated columns (MonthYear[Month] and MonthYear[Year]) as single values (scalars), which caused incorrect results or failures.

3. Fixing the Code

The solution involved:

- Replacing SELECTCOLUMNS with MAXX to correctly extract single values for the month and year from the MaxSalesMonth table (which TOPN reduced to one row).
- Creating a date variable, MaxDate, using DATE(MaxYear, MaxMonth, 1) to combine the year and month into a valid date.
- Applying FORMAT(MaxDate, "MMMM yyyy") to output the result as a string, such as "January 2023".

4. Considering an Alternative

An alternative approach was explored:

- Use SELECTCOLUMNS to properly define a table with "Month" and "Year" columns from MaxSalesMonth.
- Then use MAXX to retrieve scalar values. However, the direct MAXX method was preferred for its simplicity, avoiding extra steps.

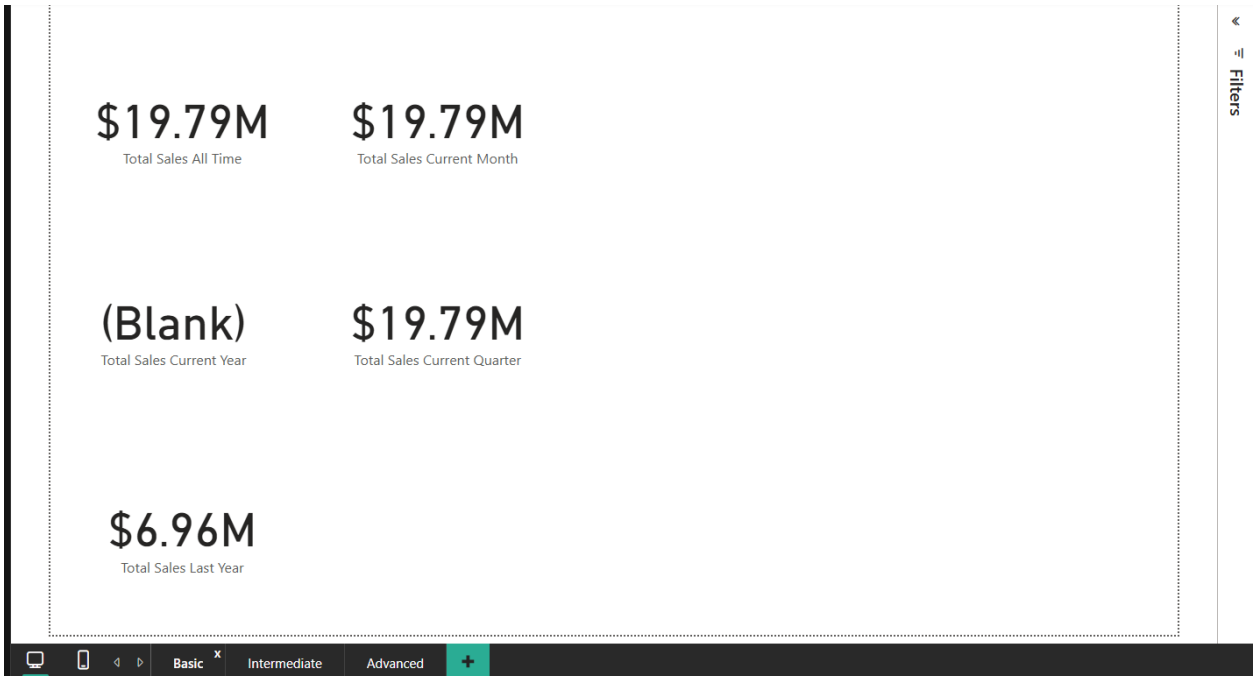
5. Final Verification

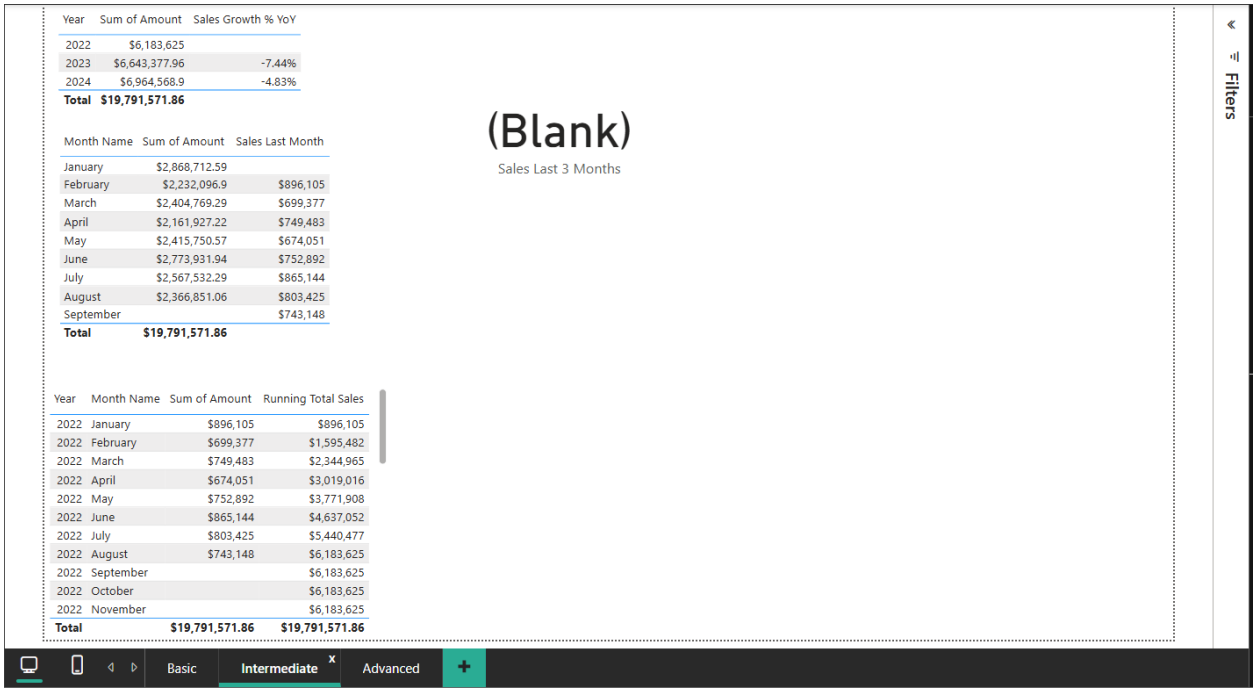
The corrected code:

- Assumes a standard date table with numeric year and month columns.
- Successfully returns a formatted string (e.g., "January 2023") for the month with the highest sales over the last 12 months.

Conclusion

The measure was fixed by ensuring proper extraction of single values from the summarized data and formatting them into the desired "Month Year" output, resolving the original errors and meeting the intended goal efficiently.





Year	Sum of Amount	Sales Growth % YoY
2022	$6,183,625	
2023	$6,643,377.96	-7.44%
2024	$6,964,568.9	-4.83%
Total	**$19,791,571.86**	

Month Name	Sum of Amount	Sales Last Month
January	$2,868,712.59	
February	$2,232,096.9	$896,105
March	$2,404,769.29	$699,377
April	$2,161,927.22	$749,483
May	$2,415,750.57	$674,051
June	$2,773,931.94	$752,892
July	$2,567,532.29	$865,144
August	$2,366,851.06	$803,425
September		$743,148
Total	**$19,791,571.86**	

Year	Month Name	Sum of Amount	Running Total Sales
2022	January	$896,105	$896,105
2022	February	$699,377	$1,595,482
2022	March	$749,483	$2,344,965
2022	April	$674,051	$3,019,016
2022	May	$752,892	$3,771,908
2022	June	$865,144	$4,637,052
2022	July	$803,425	$5,440,477
2022	August	$743,148	$6,183,625
2022	September		$6,183,625
2022	October		$6,183,625
2022	November		$6,183,625
Total		**$19,791,571.86**	**$19,791,571.86**

Year	Quarter	Sum of Amount	Q1 Sales by Year
2022	1	$2,344,965	$2,344,965
2022	2	$2,292,087	$2,344,965
2022	3	$1,546,573	$2,344,965
2022	4		$2,344,965
2023	1	$2,516,097.56	$2,516,097.56
2023	2	$2,472,320.67	$2,516,097.56
2023	3	$1,654,959.73	$2,516,097.56
2023	4		$2,516,097.56
2024	1	$2,644,516.22	$2,644,516.22
2024	2	$2,587,202.06	$2,644,516.22
2024	3	$1,732,850.62	$2,644,516.22
2024	4		$2,644,516.22
Total		**$19,791,571.86**	**$7,505,578.78**

Year	Month Name	Sum of Amount	YoY Difference December
2022	January	$896,105	
2022	February	$699,377	
2022	March	$749,483	
2022	April	$674,051	
2022	May	$752,892	
2022	June	$865,144	
2022	July	$803,425	
2022	August	$743,148	
2023	January	$958,985.77	
2023	February	$749,617.46	
2023	March	$807,494.33	
2023	April	$727,743.72	
2023	May	$811,951.78	
2023	June	$932,625.17	
Total		**$19,791,571.86**	

Year	Month Name	Sum of Amount	Sales Last 12 Months
2022	January	$896,105	$896,105
2022	February	$699,377	$1,595,482
2022	March	$749,483	$2,344,965
2022	April	$674,051	$3,019,016
2022	May	$752,892	$3,771,908
2022	June	$865,144	$4,637,052
2022	July	$803,425	$5,440,477
2022	August	$743,148	$6,183,625
2022	September		$6,183,625
2022	October		$6,183,625
2022	November		$6,183,625
2022	December		$6,183,625
2023	January	$958,985.77	$6,246,505.77
2023	February	$749,617.46	$6,296,746.23
Total		**$19,791,571.86**	**$6,964,568.9**

Year	Quarter	Sum of Amount	Sales Dif Current vs Previous Quarter
2022	1	$2,344,965	$2,344,965
2022	2	$2,292,087	($52,878)
2022	3	$1,546,573	($745,514)
2022	4		($1,546,573)
2023	1	$2,516,097.56	$2,516,097.56
2023	2	$2,472,320.67	($43,776.89)
2023	3	$1,654,959.73	($817,360.9399999999)
2023	4		($1,654,959.73)
2024	1	$2,644,516.22	$2,644,516.22
2024	2	$2,587,202.06	($57,314.16)
2024	3	$1,732,850.62	($854,351.4399999999)
2024	4		($1,732,850.62)
Total		**$19,791,571.86**	**$19,791,571.86**

Year	Month Name	Sum of Amount	Flag Sales Exceed 10% YoY
2022	January	$896,105	1
2022	February	$699,377	1
2022	March	$749,483	1
2022	April	$674,051	1
2022	May	$752,892	1
2022	June	$865,144	1
2022	July	$803,425	1
2022	August	$743,148	1
2022	September		0
2022	October		0
2022	November		0
2022	December		0
2023	January	$958,985.77	0
2023	February	$749,617.46	0
Total		**$19,791,571.86**	**1**

Filters

Basic | Intermediate | Advanced