

POWER-BI SCENARIO BASED QUESTIONS

QUESTION 21 & 22

- EARLIER()
- Capgemini questions

- MAYURI .D.

QUESTION 21

Create index based on provided 2 columns

SAMPLE TABLES

Apple phone ▾	Supplier ▾
IPhone 13	India
IPhone 13	Mexico
IPhone 13	Spain
IPhone 14	Brazil
IPhone 14	China
IPhone 14	India
IPhone 14	Malaysia

Table sample



```
1 Index = CALCULATE(COUNT('Table sample'[Supplier]), FILTER('Table sample',  
2 EARLIER('Table sample'[Apple phone]) = 'Table sample'[Apple phone] &&  
3 EARLIER('Table sample'[Supplier]) >= 'Table sample'[Supplier]))
```

Apple phone ▾	Supplier ▾	Index ▾
iPhone 13	India	1
iPhone 13	Mexico	2
iPhone 13	Spain	3
iPhone 14	Brazil	1
iPhone 14	China	2
iPhone 14	India	3
iPhone 14	Malaysia	4

The `Index` column contains a count of how many rows have the same `[apple phone]` value and a `[supplier]` value less than or equal to the current row's `[supplier]` value.

This creates an index or ranking based on the `[supplier]` column within each group of `[apple phone]`.

QUESTION
22(1)

Get result as first non-blank value

SAMPLE TABLE

Firewall Name	First count	Last count	Hit count
FW 1	1		
FW 2			1
FW 3	1	1	1
FW 4		4	
FW 5			5

Table sample 2



```
1 Total count = COALESCE('Table sample 2'[First count],  
    'Table sample 2'[Last count], 'Table sample 2'[Hit count])
```

Firewall Name ▾	First count ▾	Last count ▾	Hit count ▾	Total count ▾
FW 1	1			1
FW 2			1	1
FW 3	1	1	1	1
FW 4		4		4
FW 5			5	5

QUESTION 22(2)

Create a dynamic title as per filter for a visual.

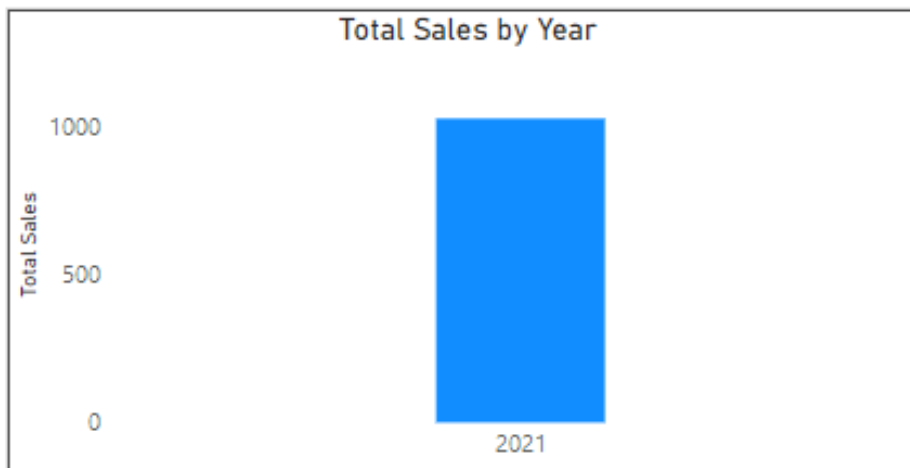
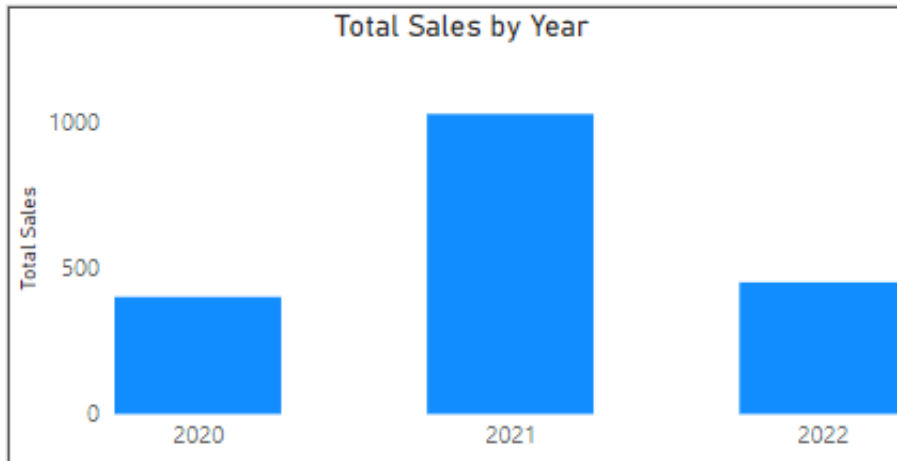
SAMPLE TABLE

Product ▾	order date ▾	Sales value ▾	Country ▾	Region ▾
A	02 July 2022	100	India	Asia
A	22 July 2022	150	Srilanka	Asia
B	10 June 2020	400	Frace	Europe
B	10 August 2021	600	Germany	Europe
B	10 June 2022	200	Bangladesh	Asia
D	12 August 2021	150	South Africa	Africa
E	10 October 2021	275	Nigeria	Africa

Sales Table

Calendar table

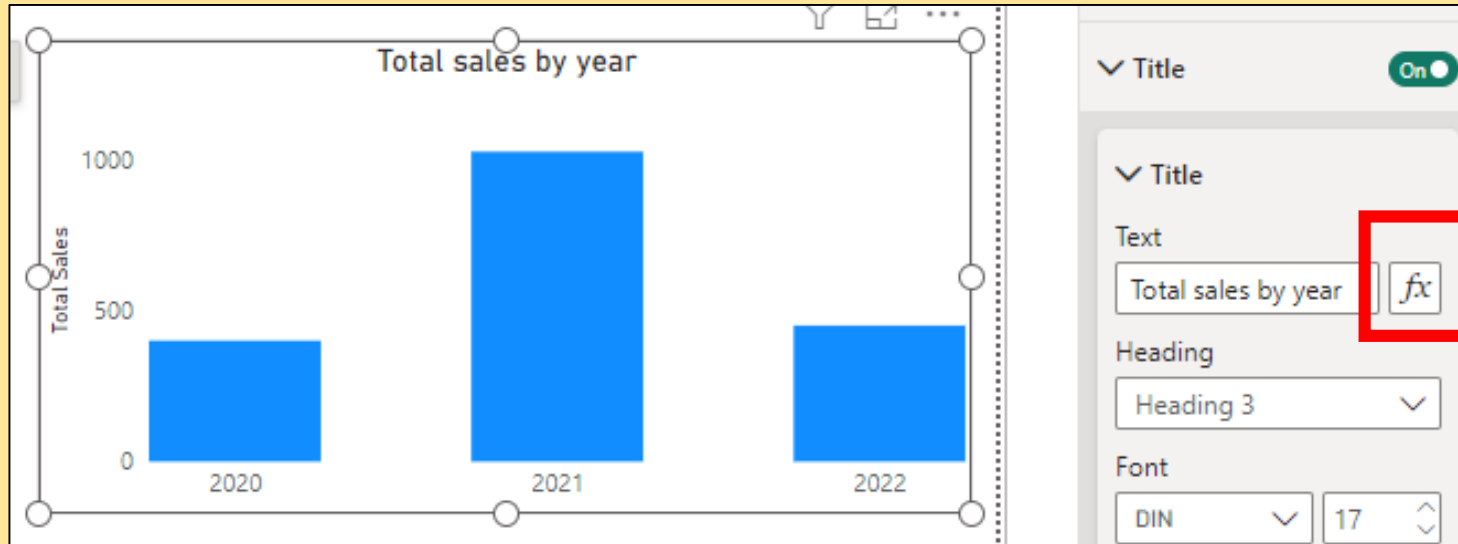
```
1 Calendar table =  
2 var a = CALENDAR(DATE(2020,01,01), DATE(YEAR(TODAY()),MONTH(TODAY()),DAY(TODAY())))  
3 RETURN  
4 GENERATE(a,  
5 var b = [Date]  
6 var c = YEAR([Date])  
7 var d = MONTH([Date])  
8 var e = DAY([Date])  
9 RETURN  
10 ROW("Year", c, "Month no", d, "Day", e))
```



Without any filter, title of visual is “Total sales by year”

On selecting any filter title should change as per filter like “Total sales by 2021”


```
1 Dynamic title = "Total sales in " & SELECTEDVALUE('Calendar table'[Year])
```



Title text - Title - Title

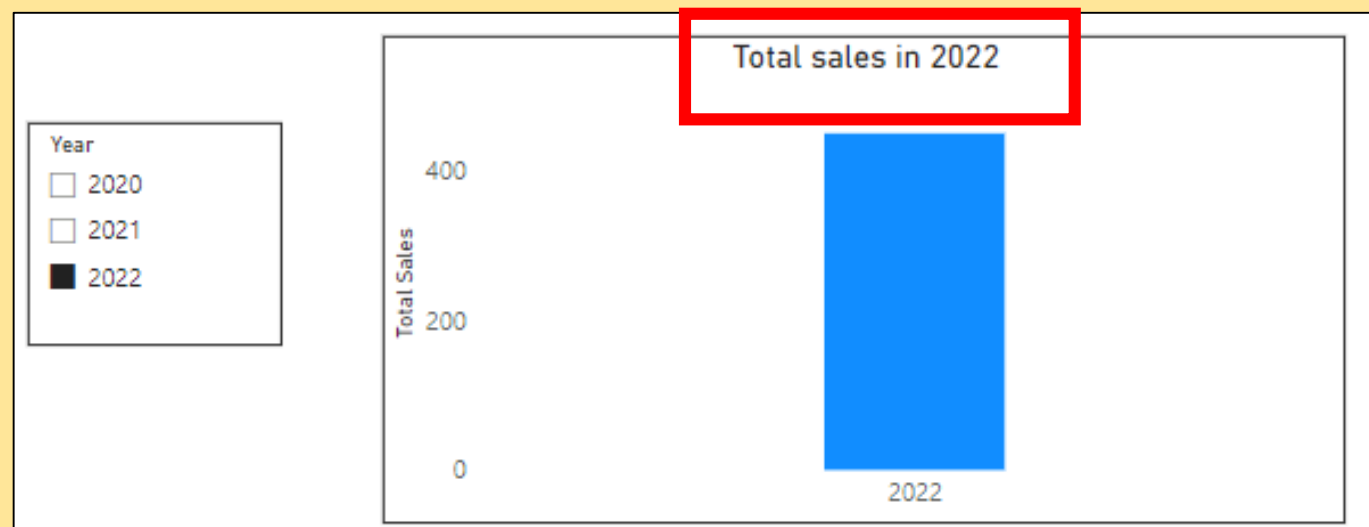
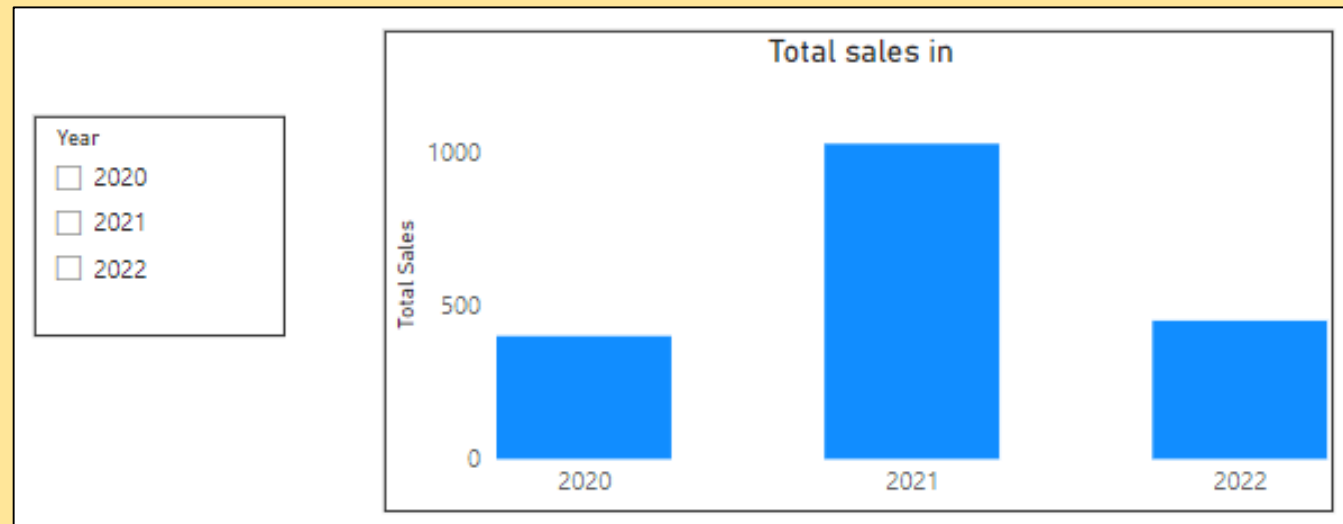
Format style

Field value ▼

What field should we base this on?

Dynamic title ▼

Select visual → format → title
→ function → select your
measure → OK



EARLIER

Returns the current value of the specified column in an outer evaluation pass of the mentioned column.

EARLIER is useful for nested calculations where you want to use a certain value as an input and produce calculations based on that input. In Microsoft Excel, you can do such calculations only within the context of the current row; however, in DAX you can store the value of the input and then make calculation using data from the entire table.

EARLIER is mostly used in the context of calculated columns.

Syntax

DAX

```
EARLIER(<column>, <number>)
```

COALESCE

Returns the first expression that does not evaluate to BLANK. If all expressions evaluate to BLANK, BLANK is returned.

Syntax

DAX

```
COALESCE(<expression>, <expression>[, <expression>]...)
```

THANK YOU

- MAYURI .D.