

The image features a dark navy blue background. On the left side, there are two overlapping geometric shapes: a blue parallelogram and a light green parallelogram, both tilted at an angle. The text 'DAX CHALLENGE' is positioned to the right of these shapes.

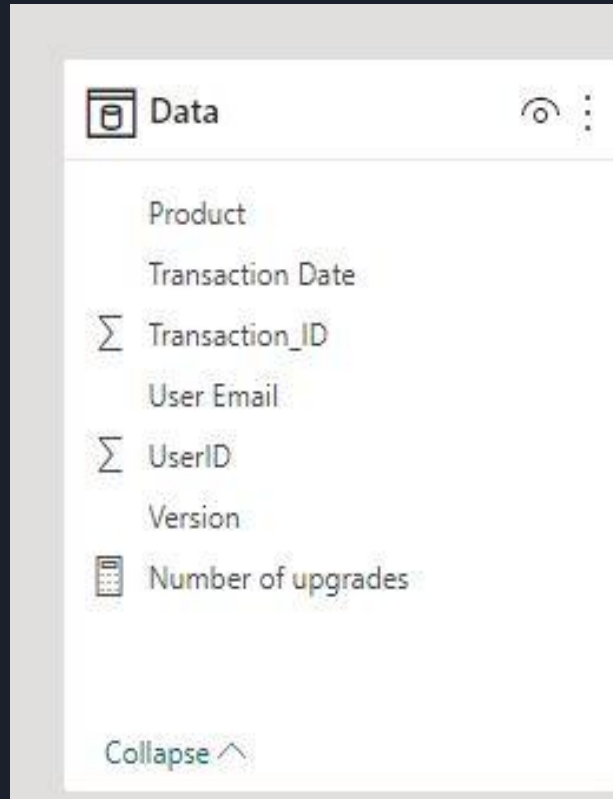
DAX CHALLENGE




Problem Statement

**Show total number of users who upgraded from
Basic to Professional Service by month & Year**


Given Transaction Table



Data	
	Product
	Transaction Date
Σ	Transaction_ID
	User Email
Σ	UserID
	Version
	Number of upgrades
Collapse ^	

Expected Output

Expected Output	
Month-Year	Upgrades
Aug-2019	1
Sep-2019	2
Oct-2019	4
Nov-2019	4
Dec-2019	6
Jan-2020	12
Feb-2020	2
Mar-2020	13
Apr-2020	16
May-2020	2
Jun-2020	8
Jul-2020	1
Total	71



```
Number of upgrades =  
VAR ItsBaseTablePM=  
    CALCULATETABLE(  
        SUMMARIZE(Data,  
            Data[Product],  
            Data[UserID]  
        ),  
        Data[Version]="Base Version",  
        PREVIOUSMONTH('Date'[Date])  
    )  
VAR PrfVersionTable=  
    CALCULATETABLE(  
        SUMMARIZE(Data,  
            Data[Product],  
            Data[UserID]  
        ),  
        Data[Version]="Professional Version"  
    )  
  
RETURN  
    COUNTROWS(PrfVersionTable)
```



Output using INTERSECT between two Tables

Date (bins)	Number of upgrades
August 2019	1
September 2019	2
October 2019	4
November 2019	4
December 2019	6
January 2020	12
February 2020	2
March 2020	13
April 2020	16
May 2020	2
June 2020	8
July 2020	1
Total	

```

1 Number of upgrades =
2 SUMX(
3     ADDCOLUMNS(
4         SUMMARIZE(Data,
5             'Date'[Date (bins)],
6             Data[Product],
7             Data[UserID]),
8         "Service upgraded",
9         VAR ItsBaseTablePM=
10             CALCULATETABLE(
11                 SUMMARIZE(Data,
12                     Data[Product],
13                     Data[UserID]
14                 ),
15                 Data[Version]="Base Version",
16                 PREVIOUSMONTH('Date'[Date])
17             )
18     VAR PrfVersionTable=
19         CALCULATETABLE(
20             SUMMARIZE(Data,
21                 Data[Product],
22                 Data[UserID]
23             ),
24             Data[Version]="Professional Version")
25     RETURN
26     COUNTROWS(INTERSECT(ItsBaseTablePM,PrfVersionTable)),[Service upgraded])

```

Calculated Result

Date	Number of upgrades
August 2019	1
September 2019	2
October 2019	4
November 2019	4
December 2019	6
January 2020	12
February 2020	2
March 2020	13
April 2020	16
May 2020	2
June 2020	8
July 2020	1
Total	71