How to Calculate Days in a Month with Power BI: A Step-by-Step Guide

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To calculate the number of days in a month using Power BI, you can use the DATEDIFF function. This function takes two dates as inputs and calculates the difference between them in days. By inputting the first day of the month and the first day of the following month, you can get the total number of days in that particular month. You can then use this result in your calculations and visualizations in Power BI.

You can use the following syntax in DAX to calculate the number of days in a month:

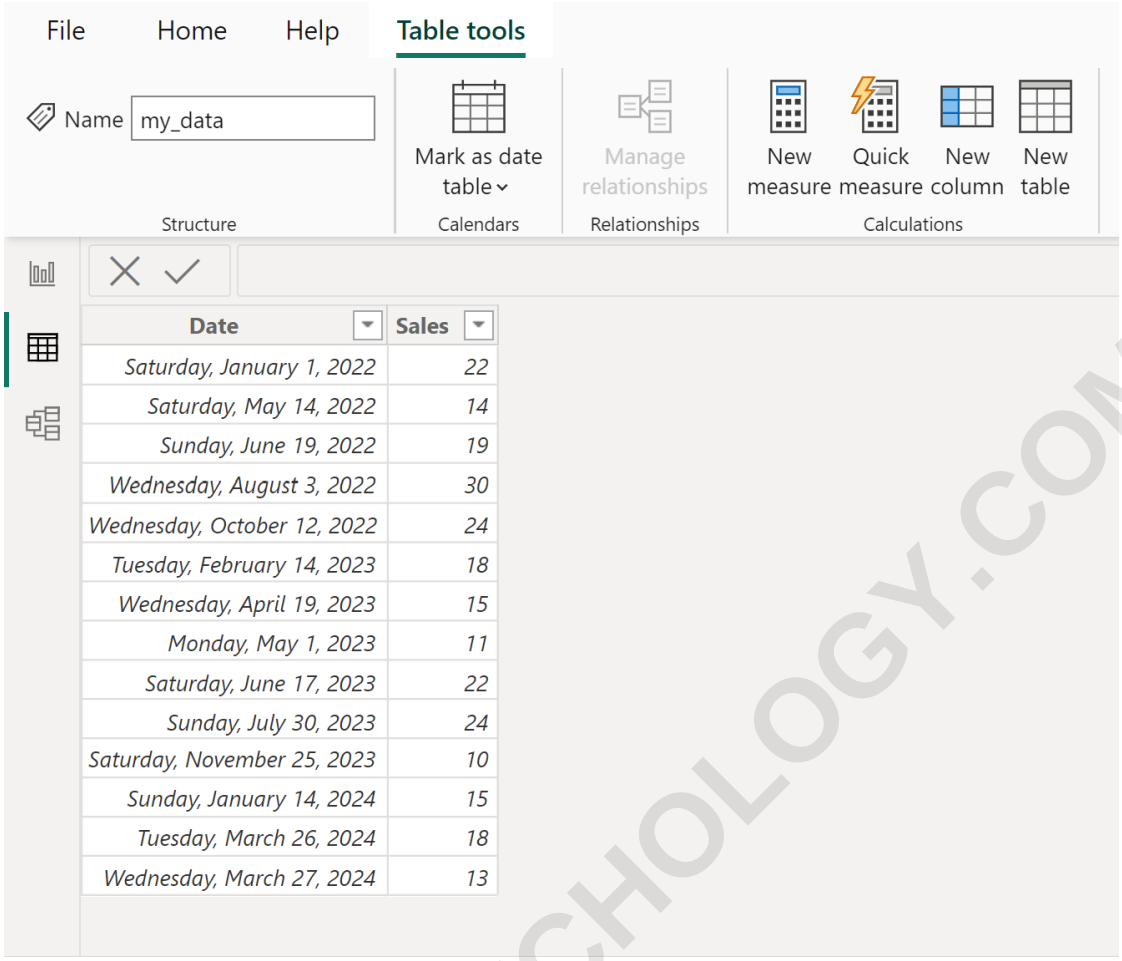
Days in Month = DAY(EOMONTH('my_data',0))

This particular formula creates a new column named **Days in Month** that contains the number of days in the month for the corresponding date in the **Date** column.

The following example shows how to use this syntax in practice.

Example: How to Calculate Number of Days in Month in Power BI

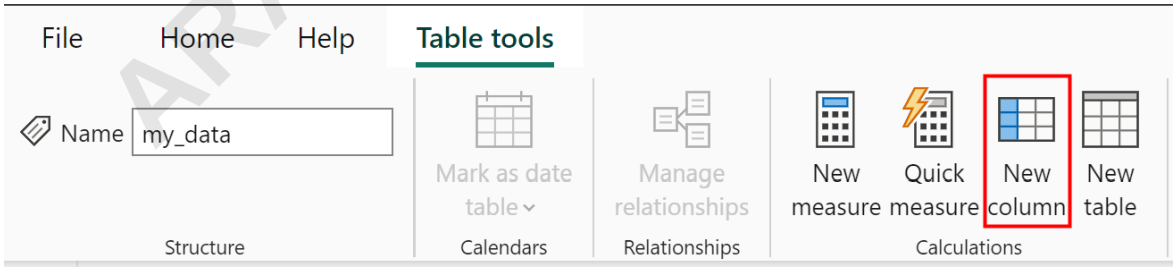
Suppose we have the following table named **my_data** that contains information about sales made on various dates by some company:



Date	Sales
Saturday, January 1, 2022	22
Saturday, May 14, 2022	14
Sunday, June 19, 2022	19
Wednesday, August 3, 2022	30
Wednesday, October 12, 2022	24
Tuesday, February 14, 2023	18
Wednesday, April 19, 2023	15
Monday, May 1, 2023	11
Saturday, June 17, 2023	22
Sunday, July 30, 2023	24
Saturday, November 25, 2023	10
Sunday, January 14, 2024	15
Tuesday, March 26, 2024	18
Wednesday, March 27, 2024	13

Suppose that we would like to create a new column that contains the number of days in the month associated with each date in the **Date** column.

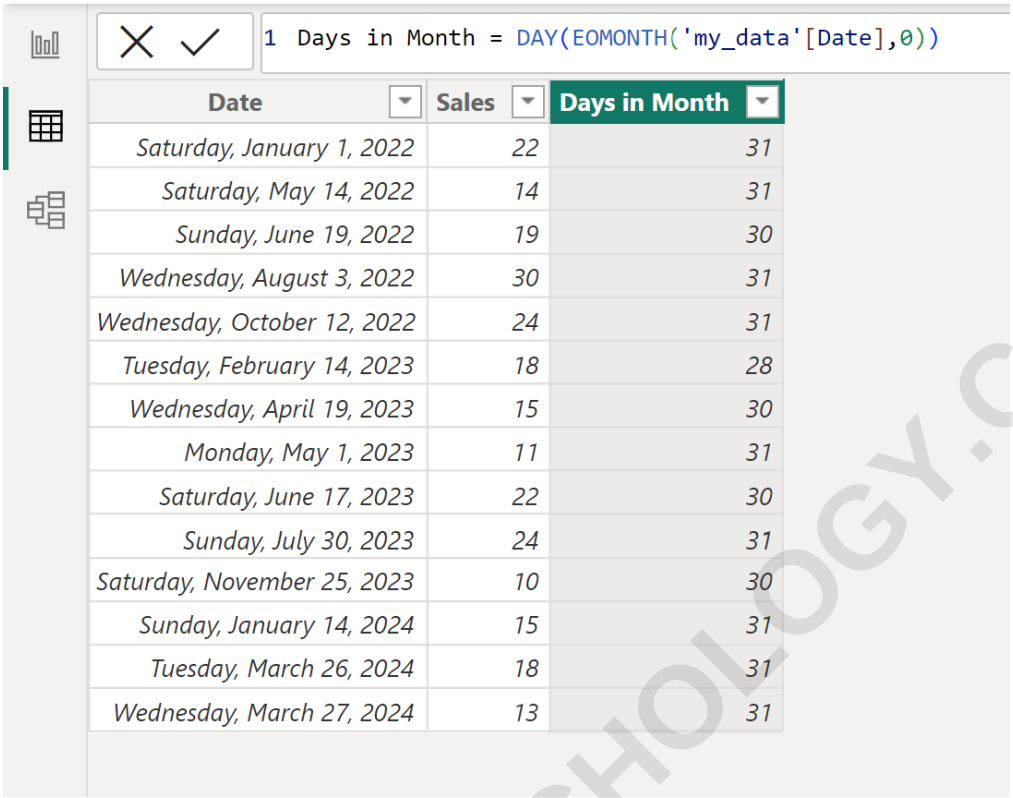
To do so, click the **Table tools** tab, then click the icon called **New column**:



Then type the following formula into the formula bar:

Days in Month = DAY(EOMONTH('my_data',0))

This will create a new column named **Days in Month** that displays the number of days in the month for each corresponding date in the **Date** column:



Date	Sales	Days in Month
Saturday, January 1, 2022	22	31
Saturday, May 14, 2022	14	31
Sunday, June 19, 2022	19	30
Wednesday, August 3, 2022	30	31
Wednesday, October 12, 2022	24	31
Tuesday, February 14, 2023	18	28
Wednesday, April 19, 2023	15	30
Monday, May 1, 2023	11	31
Saturday, June 17, 2023	22	30
Sunday, July 30, 2023	24	31
Saturday, November 25, 2023	10	30
Sunday, January 14, 2024	15	31
Tuesday, March 26, 2024	18	31
Wednesday, March 27, 2024	13	31

For example, we can see:

January 1, 2022 is in January, which has **31** days in the month.
May 14, 2022 is in May, which has **31** days in the month.
June 19, 2022 is in June, which has **30** days in the month.

And so on.

How This Formula Works

Recall the formula that we used to calculate the number of days in the month:

Days in Month = DAY(EOMONTH('my_data',0))

First, we used the **EOMONTH** function to extract the last day of the month from the **Date** column.

For example, for a date of January 1, 2022 this function would return **January 31, 2022**.

Then, we used the **DAY** function to convert this date to a day of the month.

For example, for January 31, 2022 this function would return **31**.

We repeat this process for each date in the **Date** column.

Note: You can find the complete documentation for the **EOMONTH** function in DAX .

The following tutorials explain how to perform other common tasks in Power BI: