

How to Round Time to the Nearest Hour in Power BI

Authored by
stats writer

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In order to round time to the nearest hour in Power BI, you can use the ROUND function with the appropriate time format. This function allows you to specify the number of decimal places to round to, with zero being the nearest hour. By applying this function to your time data, you can easily round it to the nearest hour for more accurate and concise data analysis. Additionally, you can also use the FLOOR or CEILING functions to round down or up to the nearest hour respectively. With these tools, Power BI provides a simple and efficient solution for rounding time data to the nearest hour.

Power BI: Round Time to the Nearest Hour

You can use the following syntax in DAX to round time to the nearest hour:

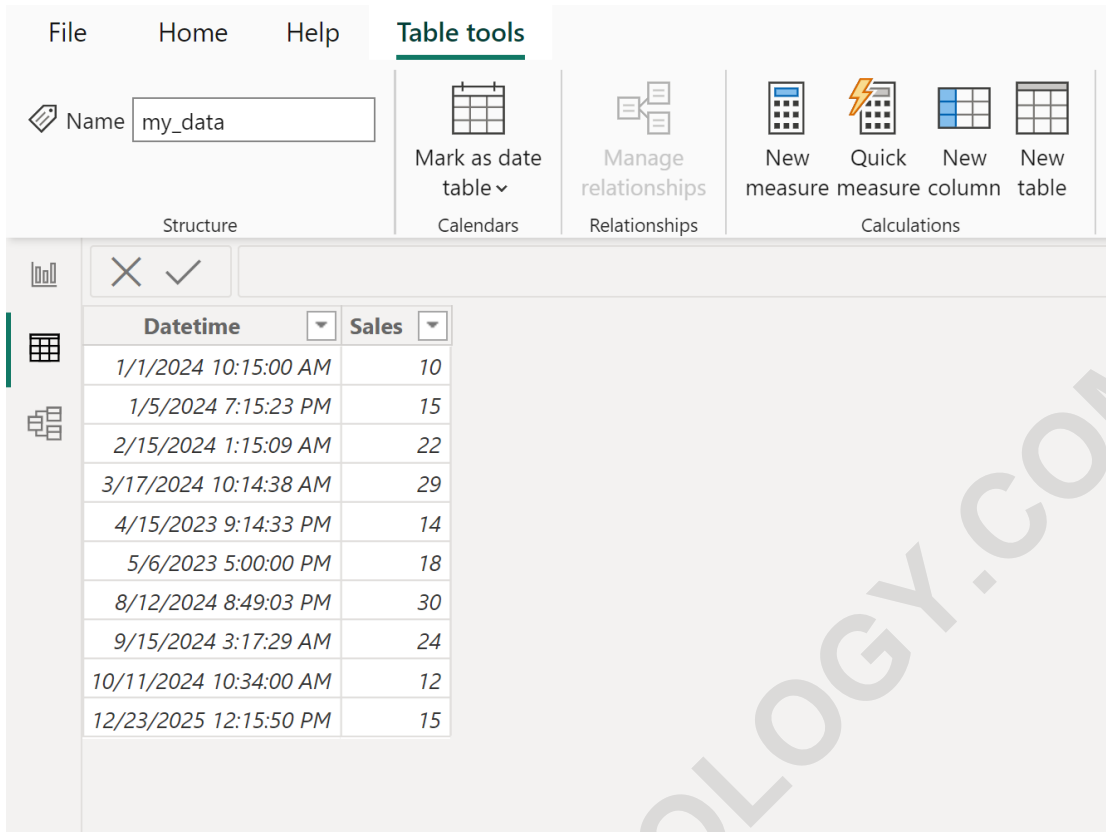
```
Rounded Time = MROUND('my_data', TIME(1, 0, 0 )) +  
TIME(0, 0, 0)
```

This particular example creates a new column named Rounded Time that rounds the time in the Datetime column of the table named my_data to the nearest hour.

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

Example: How to Round Time to Nearest Hour in Power BI

Suppose we have the following table named my_data in Power BI that contains information about total sales made by some company at specific times:

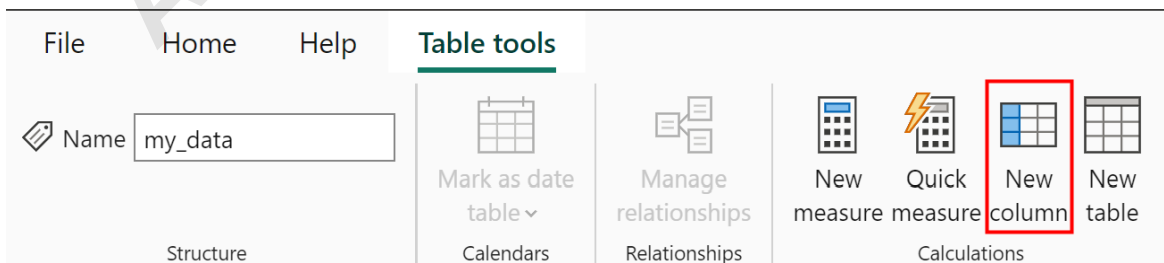


The screenshot shows the Power BI interface with the 'Table tools' ribbon selected. The ribbon includes options for 'Mark as date table', 'Manage relationships', and 'Calculations'. Under 'Calculations', there are four icons: 'New measure', 'Quick measure', 'New column', and 'New table'. The 'New column' icon is highlighted with a red box. Below the ribbon, a table is visible with two columns: 'Datetime' and 'Sales'.

Datetime	Sales
1/1/2024 10:15:00 AM	10
1/5/2024 7:15:23 PM	15
2/15/2024 1:15:09 AM	22
3/17/2024 10:14:38 AM	29
4/15/2023 9:14:33 PM	14
5/6/2023 5:00:00 PM	18
8/12/2024 8:49:03 PM	30
9/15/2024 3:17:29 AM	24
10/11/2024 10:34:00 AM	12
12/23/2025 12:15:50 PM	15

Suppose that we would like to round each time in the Datetime column to the nearest hour.

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

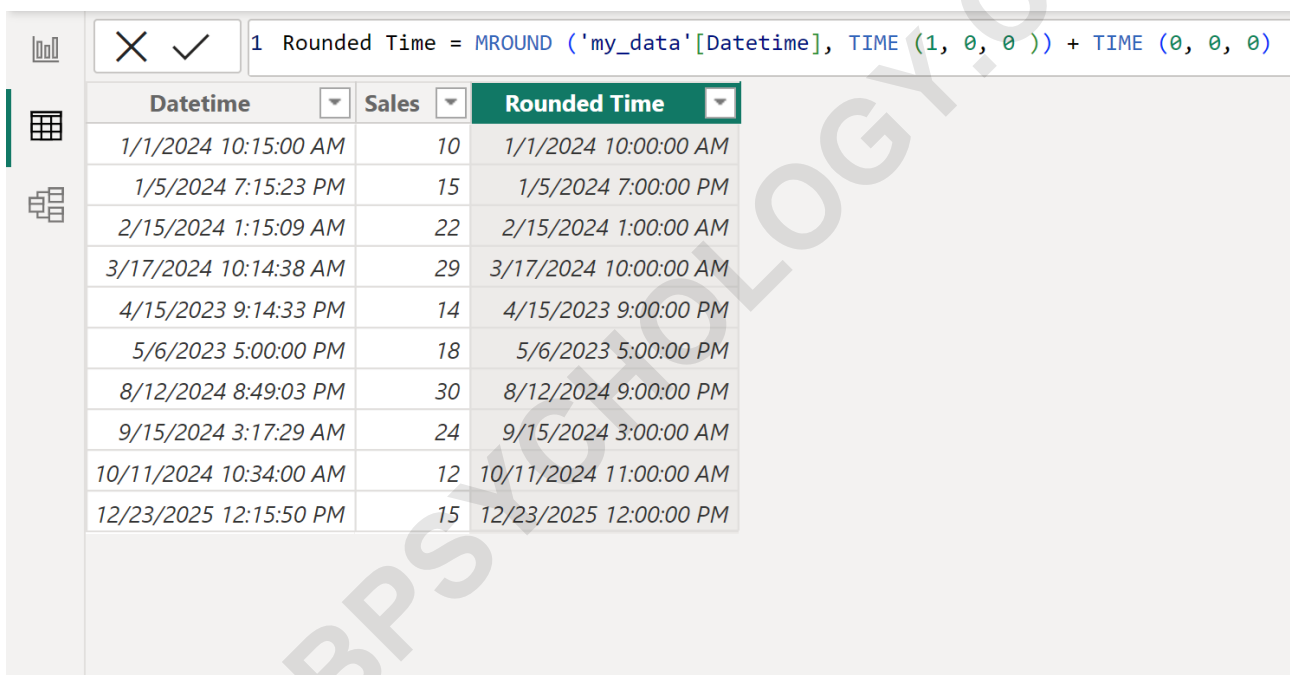


This is a close-up view of the 'Table tools' ribbon. The 'New column' icon, which is a grid with a blue square in the top-left corner, is highlighted with a red box. The other icons in the ribbon are 'Mark as date table', 'Manage relationships', 'New measure', 'Quick measure', and 'New table'.

Then type the following formula into the formula bar:

Rounded Time = MROUND('my_data', TIME(1, 0, 0)) + TIME(0, 0, 0)

This will create a new column named Rounded Time that contains the time from the Datetime column rounded to the nearest hour:



The screenshot shows the DAX formula bar with the following formula: `1 Rounded Time = MROUND ('my_data'[Datetime], TIME (1, 0, 0)) + TIME (0, 0, 0)`. Below the formula bar is a table with three columns: Datetime, Sales, and Rounded Time. The table contains 11 rows of data, where the 'Rounded Time' column shows the result of the MROUND function applied to the 'Datetime' column.

Datetime	Sales	Rounded Time
1/1/2024 10:15:00 AM	10	1/1/2024 10:00:00 AM
1/5/2024 7:15:23 PM	15	1/5/2024 7:00:00 PM
2/15/2024 1:15:09 AM	22	2/15/2024 1:00:00 AM
3/17/2024 10:14:38 AM	29	3/17/2024 10:00:00 AM
4/15/2023 9:14:33 PM	14	4/15/2023 9:00:00 PM
5/6/2023 5:00:00 PM	18	5/6/2023 5:00:00 PM
8/12/2024 8:49:03 PM	30	8/12/2024 9:00:00 PM
9/15/2024 3:17:29 AM	24	9/15/2024 3:00:00 AM
10/11/2024 10:34:00 AM	12	10/11/2024 11:00:00 AM
12/23/2025 12:15:50 PM	15	12/23/2025 12:00:00 PM

For example:

The time 10:15:00 AM has been rounded to 10:00:00 AM.

The time 7:15:23 PM has been rounded to 7:00:00 PM.

The time 1:15:09 AM has been rounded to 1:00:00 AM.

And so on.

How This Formula Works

Recall the formula that we used to round each time to the nearest hour:

Rounded Time = MROUND('my_data', TIME(1, 0, 0)) + TIME(0, 0, 0)

This formula first uses the MROUND function to round the time in the Datetime column to the nearest 1 hour.

Then, we add TIME(0, 0, 0) which adds zero time to the rounded time, but it ensures that the final result is shown as a time instead of a numeric value.

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

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