

# How to Round Time to the Nearest Quarter Hour in Power BI

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## RECOMMENDED CITATION

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The process of rounding time to the nearest quarter hour in Power BI involves using the ROUND function in DAX (Data Analysis Expressions) formula to round up or down the time values to the nearest 15 minutes. This allows for more accurate time analysis and reporting in Power BI, ensuring that time data is presented in a clean and consistent manner. By following this method, time can be rounded to the nearest quarter hour in Power BI with ease.

## Power BI: Round Time to Nearest Quarter Hour

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

```
Rounded Time = MROUND('my_data', TIME(0, 15, 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 quarter hour.'

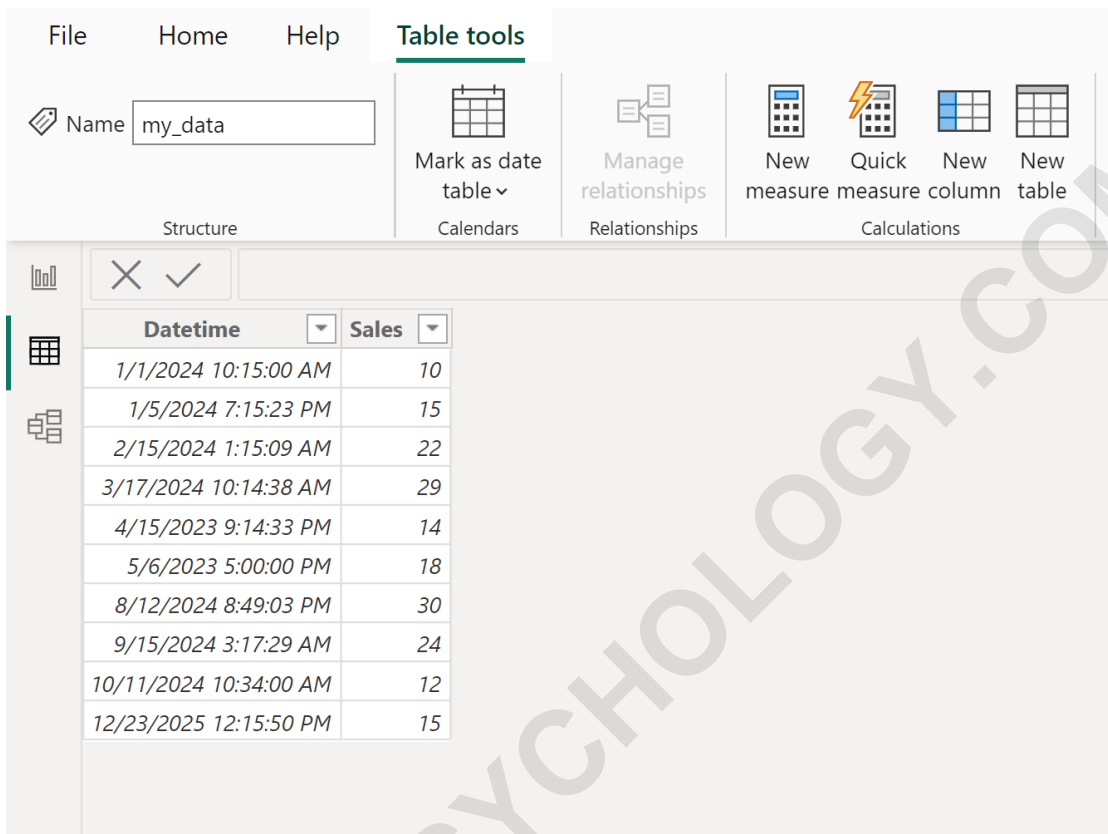
For example, this formula would round the time 8:49:03 PM to 8:45:00 PM.

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

**Example: How to Round Time to Nearest Quarter 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:**

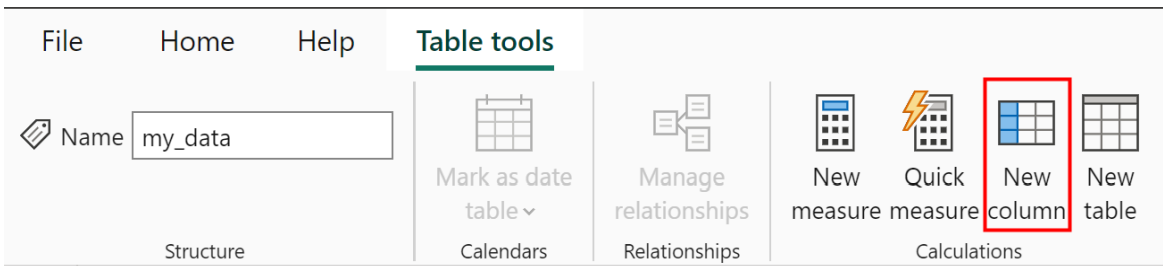


The screenshot shows the Power BI interface with the 'Table tools' ribbon selected. The ribbon includes options like 'Mark as date table', 'Manage relationships', and 'Calculations'. Below the ribbon, a table is displayed with two columns: 'Datetime' and 'Sales'. The table contains 11 rows of data, including timestamps and sales values.

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 quarter hour.**

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



Then type the following formula into the formula bar:

**Rounded Time = MROUND('my\_data', TIME(0, 15, 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 quarter hour:

The screenshot shows the Power BI data view with a table containing three columns: Datetime, Sales, and Rounded Time. The formula bar at the top displays the formula: `1 Rounded Time = MROUND('my_data'[Datetime], TIME(0, 15, 0 )) + TIME(0, 0, 0)`. The table data is as follows:

Datetime	Sales	Rounded Time
1/1/2024 10:15:00 AM	10	1/1/2024 10:15:00 AM
1/5/2024 7:15:23 PM	15	1/5/2024 7:15:00 PM
2/15/2024 1:15:09 AM	22	2/15/2024 1:15:00 AM
3/17/2024 10:14:38 AM	29	3/17/2024 10:15:00 AM
4/15/2023 9:14:33 PM	14	4/15/2023 9:15:00 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 8:45:00 PM
9/15/2024 3:17:29 AM	24	9/15/2024 3:15:00 AM
10/11/2024 10:34:00 AM	12	10/11/2024 10:30:00 AM
12/23/2025 12:15:50 PM	15	12/23/2025 12:15:00 PM

## For example:

The time 10:15:00 AM has been rounded to 10:15:00 AM. The time 7:15:23 PM has been rounded to 7:15:00 PM. The time 1:15:09 AM has been rounded to 1:15:00 AM.

## How This Formula Works

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

**Rounded Time = MROUND('my\_data', TIME(0, 15, 0 )) + TIME(0, 0, 0)**

This formula first uses the MROUND function to round the time in the Datetime column to the nearest 15 minutes, i.e. the nearest quarter 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:**

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