

# How to Extract the Hour from a Datetime in Power BI

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## RECOMMENDED CITATION

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Power BI can extract the hour from a datetime by using the `Hour` function, which allows users to specify the datetime column or expression from which they want to extract the hour. This function then returns the hour value as a number, ranging from 0 to 23, representing the hour of the day in the specified datetime. This allows for easy data analysis and visualization based on specific time periods, such as hourly trends or peak hours.

You can use the following syntax in DAX to extract the hour from a datetime in Power BI:

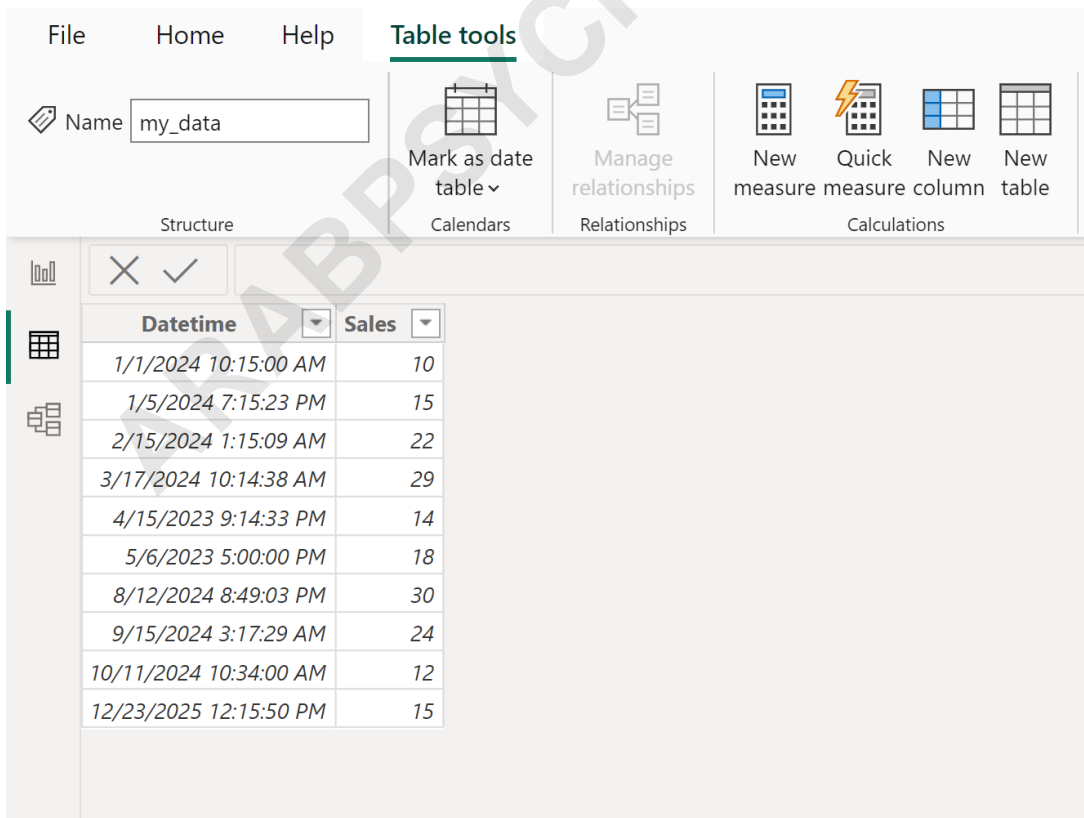
```
hour = HOUR('my_data')
```

This particular example creates a new column named **hour** that extracts only the hour from the column named **Datetime** in the table named **my\_data**.

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

## Example: How to Extract Hour from Datetime 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 datetimes:

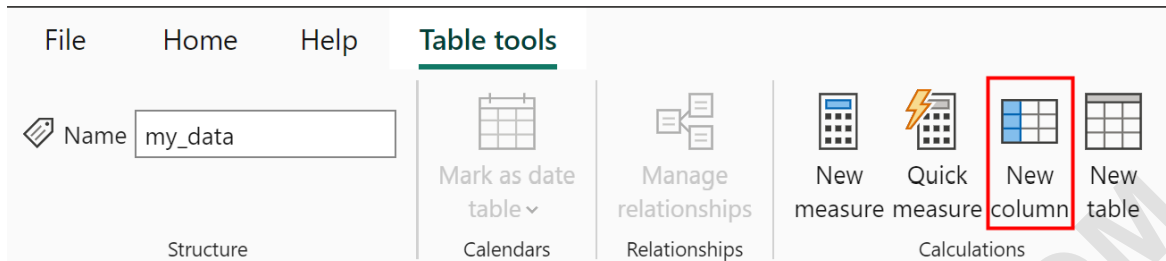


The screenshot shows the Power BI interface with the 'Table tools' ribbon active. The ribbon includes options for 'Mark as date table', 'Manage relationships', and 'Calculations' (New measure, Quick measure, New column, New table). Below the ribbon, a table named 'my\_data' is displayed with two columns: '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 extract the hour from each datetime in the **Datetime** column.

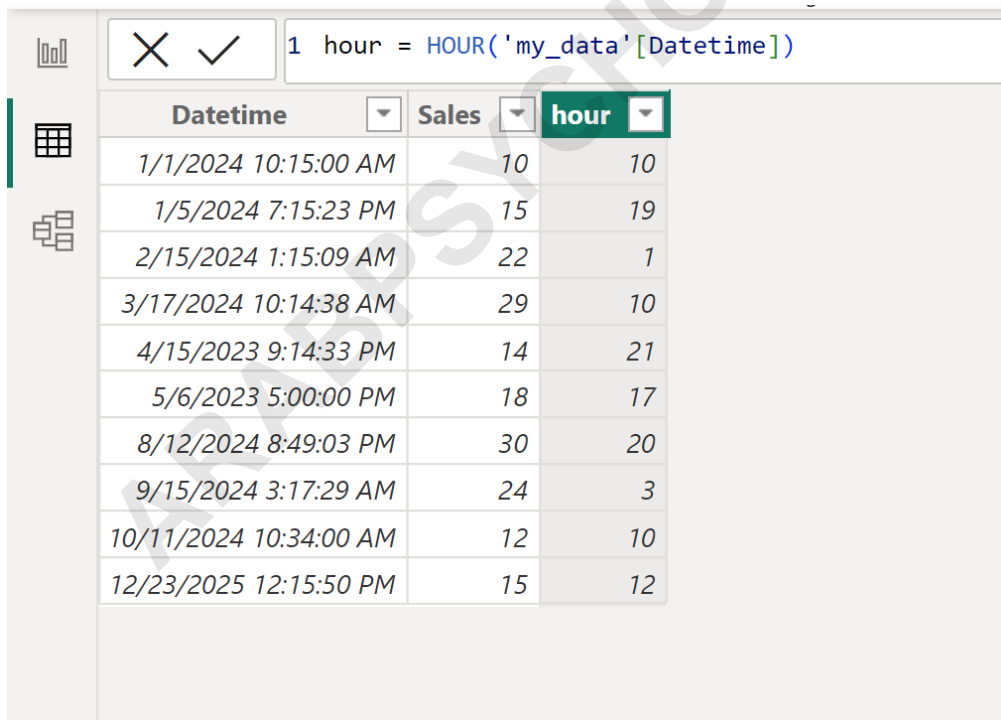
To do so, click the **Table tools** tab, then click the icon called **New column**:



Then type the following formula into the formula bar:

**hour = HOUR('my\_data')**

This will create a new column named **hour** that contains only the hour from the the corresponding datetime in the **Datetime** column:



The screenshot shows the Power BI interface with the formula bar containing the formula: `1 hour = HOUR('my_data'[Datetime])`. Below the formula bar, a table is displayed with three columns: 'Datetime', 'Sales', and 'hour'. The 'hour' column is highlighted in green. The table contains the following data:

Datetime	Sales	hour
1/1/2024 10:15:00 AM	10	10
1/5/2024 7:15:23 PM	15	19
2/15/2024 1:15:09 AM	22	1
3/17/2024 10:14:38 AM	29	10
4/15/2023 9:14:33 PM	14	21
5/6/2023 5:00:00 PM	18	17
8/12/2024 8:49:03 PM	30	20
9/15/2024 3:17:29 AM	24	3
10/11/2024 10:34:00 AM	12	10
12/23/2025 12:15:50 PM	15	12

For example:

The formula extracts **10** from 1/1/2024 10:15:00 AM.

The formula extracts **19** from 1/5/2024 7:15:23 PM.

The formula extracts **1** from 2/15/2024 1:15:09 AM.

And so on.

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

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