

# Learning DAX: Formatting Dates as Month and Year in Power BI

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When constructing sophisticated analytical reports within [Power BI](#), the ability to expertly manage and manipulate temporal data is absolutely fundamental. Often, source date fields contain superfluous detail, such as specific day numbers or timestamp information, which can unnecessarily complicate and clutter key [data visualization](#) efforts. The most effective remedy for this issue involves harnessing the analytical power of [DAX](#) (Data Analysis Expressions) to transform these raw dates into standardized, highly readable Month and Year formats. This comprehensive guide details the essential formulas and procedural steps required to achieve these crucial date conversions, ensuring your reports are both accurate and easily digestible for any audience.

## The Strategic Importance of Date Formatting in Power BI

Robust [Power BI](#) dashboards depend critically on clear and organized temporal hierarchies. While maintaining the original detailed date columns is vital for granular analysis, summarizing data purely by the month and year provides the necessary context for effective trend analysis, standardized fiscal reporting, and high-level executive summaries. Without precise formatting tailored to reporting needs, attempts to sort or group visualizations based on time can lead to inconsistent outcomes, making the data challenging for end-users to correctly interpret. Therefore, establishing and applying specific, clean formatting rules is paramount for maintaining data integrity and significantly enhancing the overall user experience of your analytical assets.

The core difficulty when working with time series data frequently revolves around presentation rather than the underlying calculation complexity. For instance, a simple date field containing the full date (e.g., 01/15/2023) is incorrectly treated by visualization tools as 31 distinct data points within January, even if the reporting objective is strictly to aggregate monthly sales figures. By standardizing the temporal representation into a consistent Month/Year text string, you immediately simplify the process of aggregation and streamline overall reporting. This practice allows consumers of the report to concentrate exclusively on overarching monthly trends and patterns, eliminating the distraction of daily fluctuations.

## Deep Dive into the DAX FORMAT Function

To execute precise date transformations, analysts rely heavily on the specialized [FORMAT function](#) within [DAX](#). The fundamental role of the **FORMAT** function is to convert any given value--be it a date, a numerical quantity, or currency--into a custom-specified text string output. When applied to dates, the function requires two primary arguments: first, the column reference containing the source date value, and second, a meticulously defined format string that dictates the desired output pattern.

The intrinsic flexibility of this function enables the creation of highly customized formats, perfectly

aligned with complex reporting requirements, ranging from simple two-digit numerical representations to fully written-out textual month names. It is essential for all [DAX](#) practitioners to recognize that the output generated by the **FORMAT** function is exclusively a text string. While this text output is highly desirable for clean visual display, advanced analysts must often create an auxiliary numeric column (frequently referred to as a sort key) if the resulting Month/Year column must adhere to strict chronological sorting. This necessity arises because standard text sorting is performed alphabetically, which would incorrectly place "August 2023" before "January 2024," for example.

## Core Formatting Formulas for Month and Year

The following four foundational formulas demonstrate the immense versatility of the [FORMAT function](#), providing elegant solutions for the most common month and year display scenarios encountered in [Power BI](#) reporting. For these examples, we assume the source date column is universally named and resides within a table designated as 'my\_data'. Pay close attention to how the specific character codes utilized in the format string (e.g., `MM` versus `MMMM`) directly control the level of detail and textual representation provided in the final result.

### Formula 1: Converting Date to Month Number and Full Year (Result: 01/2022)

```
month_year = FORMAT('my_data', "MM/YYYY")
```

### Formula 2: Converting Date to Month Number and Last Two Digits of Year (Result: 01/22)

```
month_year = FORMAT('my_data', "MM/YY")
```

### Formula 3: Converting Date to Abbreviated Month and Full Year (Result: Jan. 2022)

```
month_year = FORMAT('my_data', "MMM. YYYY")
```

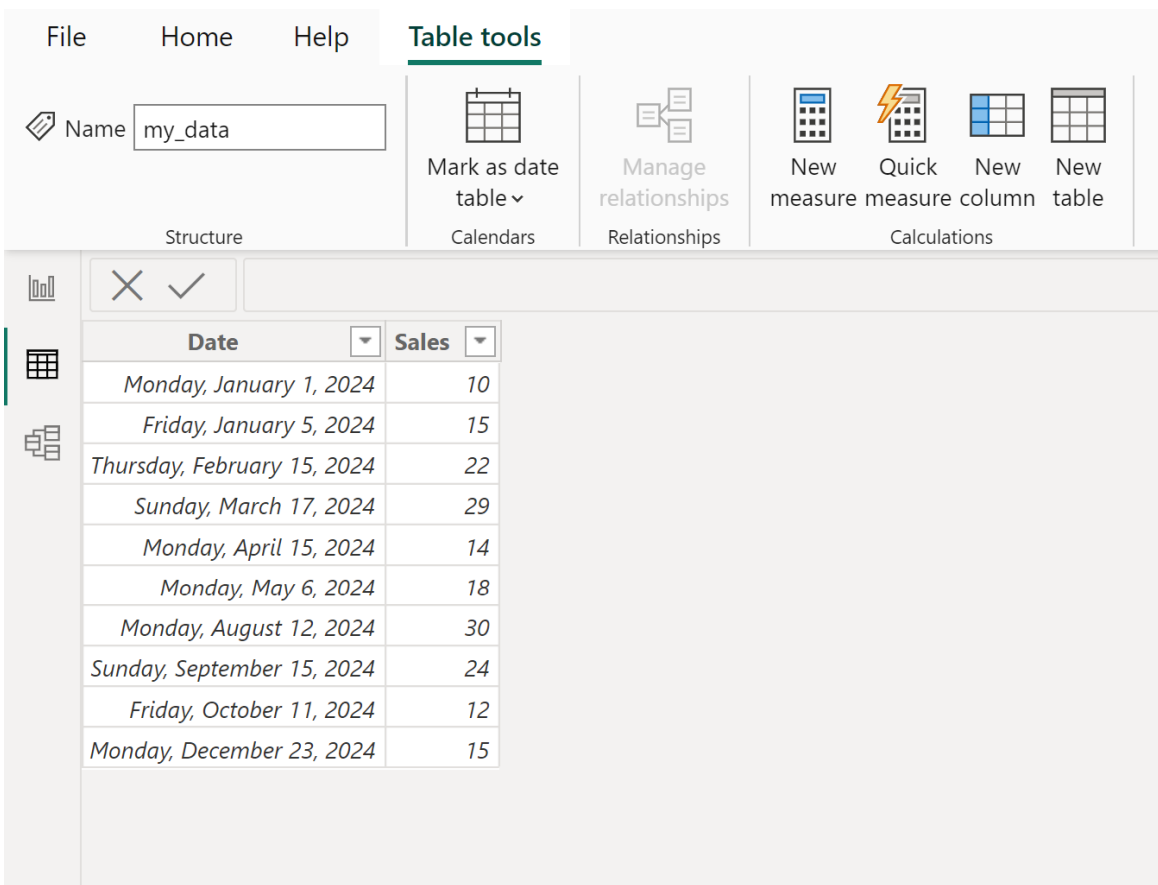
### Formula 4: Converting Date to Full Month Name and Full Year (Result: January 2022)

```
month_year = FORMAT('my_data', "MMMM YYYY")
```

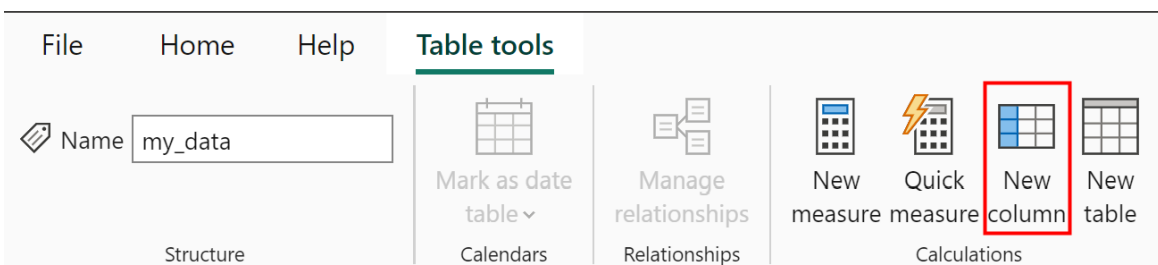
## Implementing Calculated Columns: A Step-by-Step Guide

Before proceeding with the practical application of these specific formulas, it is critical to first grasp the procedural steps required for integrating these [calculated columns](#) into your existing [Power BI](#) data model. All forthcoming practical demonstrations assume you begin with a structured table containing at least one standard date column that is ready for transformation, similar to the initial

data view illustrated below. This initial preparation ensures a consistent starting point for all subsequent formula executions.



The process of enrichment always commences by creating a new column within your data model environment. To initiate this, navigate to the **Table tools** tab, which is prominently featured within the Power BI interface ribbon. Locating and clicking the dedicated icon labeled **New column** serves two simultaneous purposes: it formally starts the column creation process and immediately opens the formula bar, enabling the analyst to input the desired DAX expression. This methodology represents the standard, non-destructive approach for extending your dataset with new values without making any permanent alterations to the original source data structure.

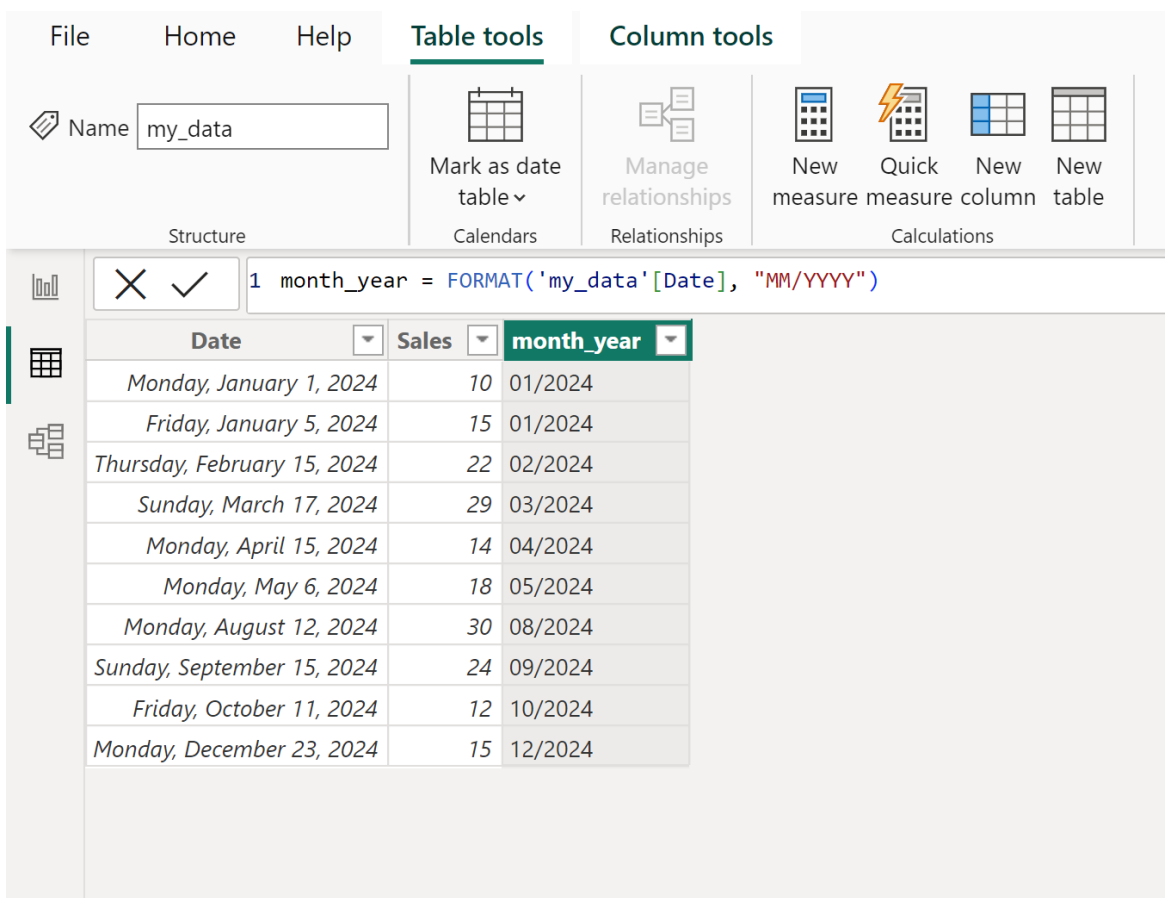


## Example 1: Numerical Month and Full Year (MM/YYYY)

This initial practical example utilizes the most prevalent numerical date format, which displays the two-digit month number followed by the complete four-digit year. This configuration is widely favored in environments dealing with extensive datasets where space efficiency is necessary, but maintaining the full context of the year is non-negotiable. Following the established procedure--clicking **New column** under **Table tools**--you will input the formula below into the editor to execute the transformation that generates the `MM/YYYY` pattern.

```
month_year = FORMAT('my_data', "MM/YYYY")
```

Upon successful execution, the system creates a new column named `month_year`. This column flawlessly transforms the source date values into the requested `MM/YYYY` textual format (e.g., 01/2022). Observe how this resulting text column is now perfectly aligned for grouping and chronological ordering within report visuals, provided that the necessary data category or an auxiliary sort column is correctly applied to manage the text-based sorting behavior.



The screenshot displays the Power BI Desktop interface. The top ribbon shows the **Table tools** and **Column tools** tabs. The **Table tools** ribbon includes options like **Mark as date table** and **Manage relationships**. The **Column tools** ribbon includes options like **New measure**, **Quick measure**, **New column**, and **New table**. The **Structure** pane on the left shows a table named `my_data`. The **Formula bar** contains the DAX formula: `1 month_year = FORMAT('my_data'[Date], "MM/YYYY")`. Below the formula bar, a data table is displayed with the following columns: **Date**, **Sales**, and **month\_year**. The **month\_year** column is highlighted in green. The data rows are as follows:

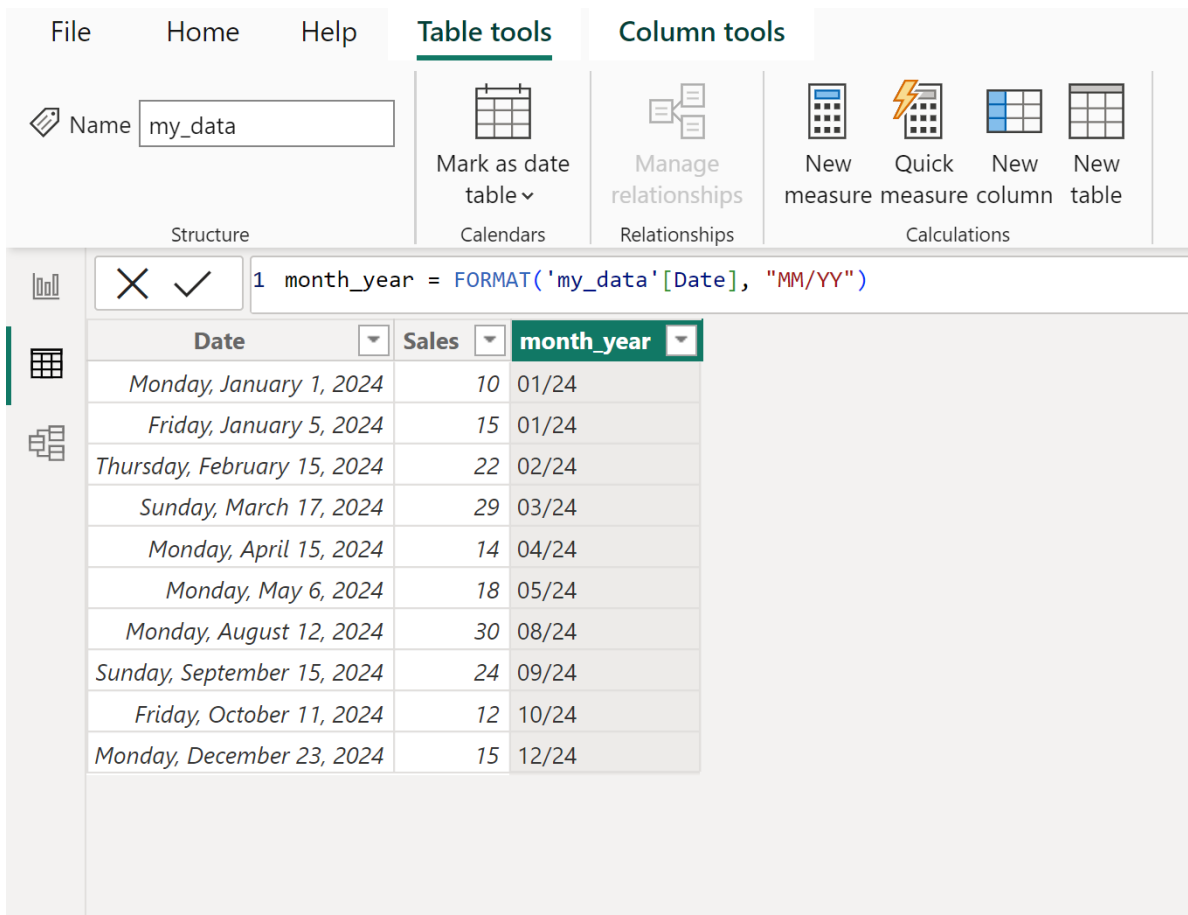
Date	Sales	month_year
Monday, January 1, 2024	10	01/2024
Friday, January 5, 2024	15	01/2024
Thursday, February 15, 2024	22	02/2024
Sunday, March 17, 2024	29	03/2024
Monday, April 15, 2024	14	04/2024
Monday, May 6, 2024	18	05/2024
Monday, August 12, 2024	30	08/2024
Sunday, September 15, 2024	24	09/2024
Friday, October 11, 2024	12	10/2024
Monday, December 23, 2024	15	12/2024

## Example 2: Compact Month and Two-Digit Year (MM/YY)

In reporting scenarios where visual space is severely constrained, or when the chronological context (the century) is implicitly understood--such as in ongoing internal quarterly reports--using only the last two digits of the year offers a highly efficient formatting alternative. This calculation follows the identical setup procedure, requiring the creation of a new column via the **Table tools** tab, but differentiates itself by specifying the concise format string (`MM/YY`) within the DAX formula definition.

**month\_year = FORMAT('my\_data', "MM/YY")**

Running this formula yields the `month_year` column, presenting dates in the compact `MM/YY` pattern (e.g., 01/22). This outcome clearly demonstrates how even minor modifications to the format string argument within the [FORMAT function](#) can dramatically alter the visual representation of your temporal data within the [Power BI](#) data model. This abbreviated format proves particularly valuable for dense visual elements, such as small multiples or complex scatter charts, where axis labels must remain concise and highly readable.



The screenshot shows the Power BI Desktop interface. The ribbon is set to 'Table tools' and 'Column tools'. The 'Name' field is set to 'my\_data'. The DAX formula bar contains the formula: `1 month_year = FORMAT('my_data'[Date], "MM/YY")`. Below the formula bar, a table is displayed with the following data:

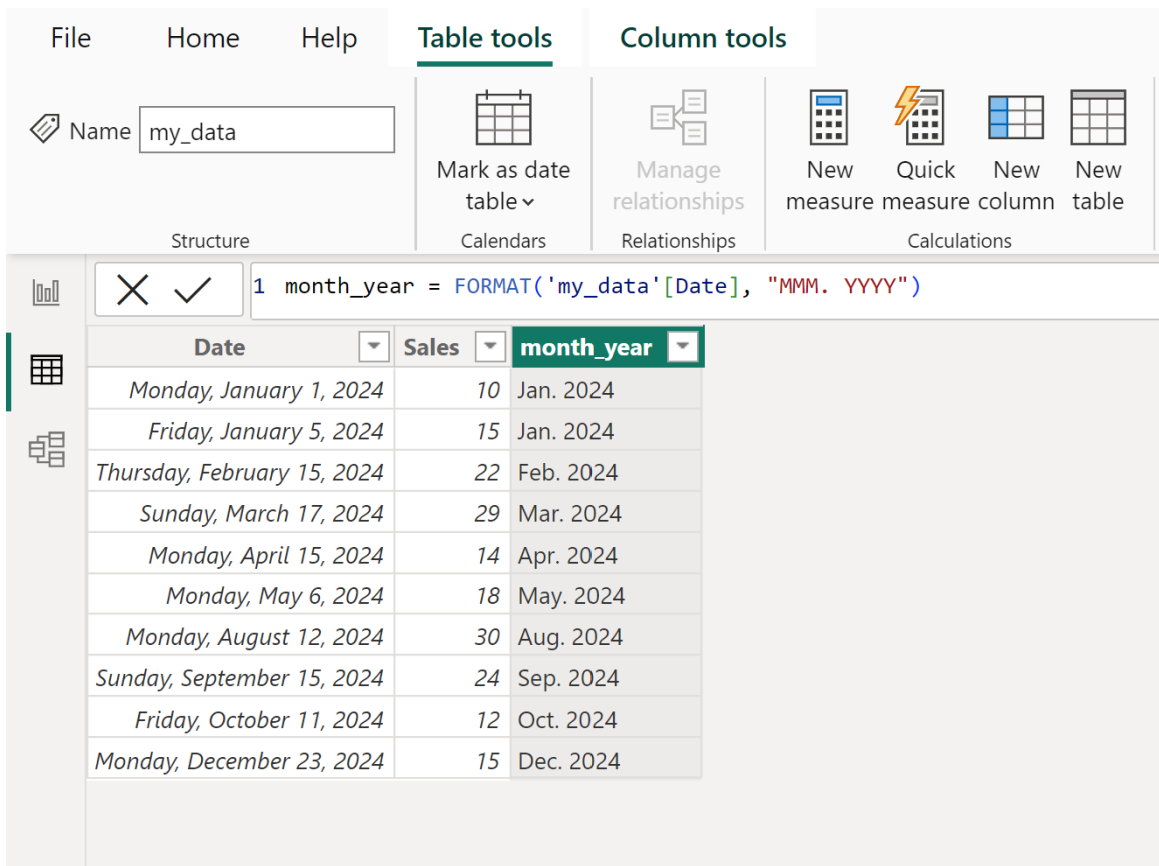
Date	Sales	month_year
Monday, January 1, 2024	10	01/24
Friday, January 5, 2024	15	01/24
Thursday, February 15, 2024	22	02/24
Sunday, March 17, 2024	29	03/24
Monday, April 15, 2024	14	04/24
Monday, May 6, 2024	18	05/24
Monday, August 12, 2024	30	08/24
Sunday, September 15, 2024	24	09/24
Friday, October 11, 2024	12	10/24
Monday, December 23, 2024	15	12/24

### Example 3: Abbreviated Month and Full Year (MMM. YYYY)

When the primary objective is to maximize immediate readability through the use of textual month identifiers, yet without consuming the visual real estate required by the full month name, the abbreviated month format is the preferred, balanced choice. This format often strikes the ideal compromise between clarity and conciseness, making it exceptionally popular for data tables and chart legends. To properly implement this format, we initiate the **New column** creation process and specify the `MMM` format parameter, which instructs Power BI to return the localized three-letter month name followed by the complete four-digit year.

**month\_year = FORMAT('my\_data', "MMM. YYYY")**

The resulting **month\_year** column will display highly readable values such as "Jan. 2022." This powerful transformation is achieved simply by utilizing three 'M' characters in the format string, which directs DAX to retrieve the localized three-letter abbreviation for the corresponding month. This textual format is notably more intuitive and accessible for general audience consumption compared to purely numerical month representations.



The screenshot shows the Power BI Desktop interface. The ribbon includes 'Table tools' and 'Column tools'. The 'Table tools' ribbon has 'Mark as date table' and 'Manage relationships'. The 'Column tools' ribbon has 'New measure', 'Quick measure', 'New column', and 'New table'. The formula bar shows the DAX formula: `1 month_year = FORMAT('my_data'[Date], "MMM. YYYY")`. Below the formula bar, a table is displayed with the following data:

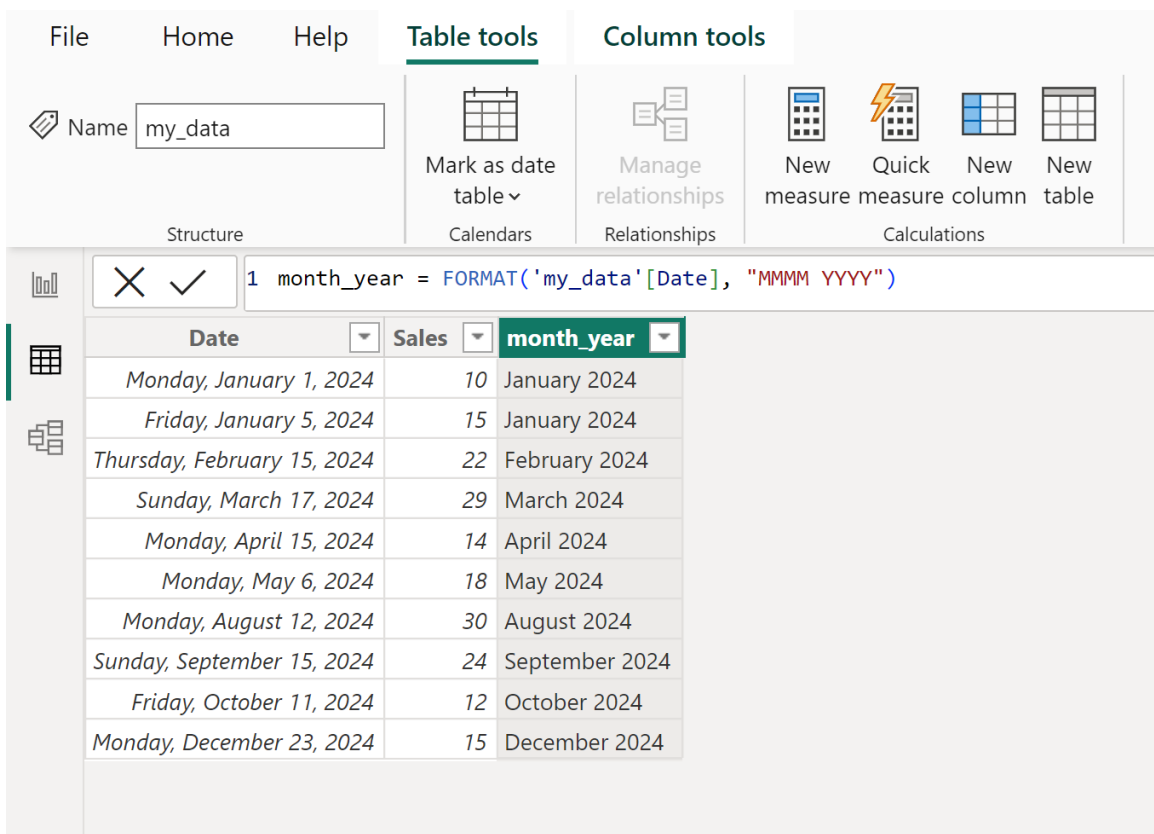
Date	Sales	month_year
Monday, January 1, 2024	10	Jan. 2024
Friday, January 5, 2024	15	Jan. 2024
Thursday, February 15, 2024	22	Feb. 2024
Sunday, March 17, 2024	29	Mar. 2024
Monday, April 15, 2024	14	Apr. 2024
Monday, May 6, 2024	18	May. 2024
Monday, August 12, 2024	30	Aug. 2024
Sunday, September 15, 2024	24	Sep. 2024
Friday, October 11, 2024	12	Oct. 2024
Monday, December 23, 2024	15	Dec. 2024

## Example 4: Full Month Name and Full Year (MMMM YYYY)

For reports demanding the absolute maximum level of clarity--such as external documentation or dashboards intended for non-technical or executive audiences--displaying the complete, full month name is paramount. This format guarantees that there is zero ambiguity concerning the precise time period being analyzed. Consistent with the previous steps, the procedure mandates adding a new column, but the format string now uses four 'M' characters (MMMM) to accurately retrieve the full, localized month name.

**month\_year = FORMAT('my\_data', "MMMM YYYY")**

Once this final calculation is processed, the **month\_year** column presents the dates using the full textual month name combined with the full year (e.g., "January 2022"). This specific formatting style significantly enhances the professional quality and polish of your final visualizations in [Power BI](#), offering the clearest and most intuitive labeling for the time dimension.



The screenshot displays the Power BI Desktop interface. The ribbon shows 'Table tools' and 'Column tools'. The 'Table tools' ribbon includes 'Mark as date table', 'Calendars', and 'Relationships'. The 'Column tools' ribbon includes 'New measure', 'Quick measure', 'New column', and 'New table'. The 'Calculations' group is active. The formula bar shows the DAX formula: `1 month_year = FORMAT('my_data'[Date], "MMMM YYYY")`. Below the formula bar, a table is displayed with the following data:

Date	Sales	month_year
Monday, January 1, 2024	10	January 2024
Friday, January 5, 2024	15	January 2024
Thursday, February 15, 2024	22	February 2024
Sunday, March 17, 2024	29	March 2024
Monday, April 15, 2024	14	April 2024
Monday, May 6, 2024	18	May 2024
Monday, August 12, 2024	30	August 2024
Sunday, September 15, 2024	24	September 2024
Friday, October 11, 2024	12	October 2024
Monday, December 23, 2024	15	December 2024

## Conclusion and Advanced Considerations

Mastering the effective formatting of dates using the [FORMAT function](#) is an indispensable skill for every analyst engaged in working with time-series data within Power BI. By expertly customizing

the format string--whether electing to use `MM/YYYY`, `MM/YY`, `MMM. YYYY`, or `MMMM YYYY`--you gain precise, granular control over the presentation of temporal data, resulting in dramatically cleaner data models and vastly more insightful reports. It is crucial to internalize that because these converted columns are based on text strings, you may often need to implement an auxiliary numeric column (such as calculating `Year * 100 + Month Number`) if strict, chronological sorting is required above and beyond the standard alphabetical text sort. This is a common and necessary step in advanced data modeling practices.

For professionals keen to explore the complete capabilities of date, time, numeric, and currency formatting options, the official Microsoft documentation provides extensive and authoritative detail. We highly recommend consulting the comprehensive documentation for the **FORMAT** function in DAX, which thoroughly covers all available date and time format codes, along with important considerations regarding localization and regional settings.

## **Additional Resources for Power BI Mastery**

To continue advancing your data analysis and modeling expertise, the following related tutorials offer practical guidance on executing other common and complex tasks within Power BI: