

How to Rearrange Columns in Power BI for Better Reporting

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Change Order of Columns in Power BI

Power BI is recognized globally as an exceptionally powerful platform for Business Intelligence and sophisticated data visualization. It provides users with the comprehensive tools necessary to transform raw datasets into visually compelling and interactive reports and dashboards. A fundamental aspect of effective data presentation and analysis involves controlling the arrangement of data elements, specifically the order of columns within a dataset.

The ability to manipulate column order is not merely a cosmetic adjustment; it is a critical function for enhancing data readability, improving narrative flow, and ensuring that key metrics are immediately visible to stakeholders. When analyzing complex data, the sequence in which columns appear can drastically affect how quickly and accurately insights are derived. Power BI offers flexibility in achieving this customization, allowing users to tailor their data presentation to specific analytical requirements, thereby making the information more meaningful and actionable.

In the context of data modeling and reporting, adjusting column order can be achieved through different methodologies depending on the desired scope of change. Users must understand whether they need a permanent structural modification at the data model level or a temporary visual rearrangement exclusively within a specific report visual. This distinction guides the selection of the appropriate method, ensuring efficient data management and analysis capabilities within the Power BI environment.

Understanding the Two Primary Scenarios for Column Reordering

In the workflow of developing a comprehensive Power BI solution, the need to reorder columns typically arises in two distinct operational contexts. These contexts dictate the methodology employed, ranging from data transformation techniques using Data Analysis Expressions (DAX) to simple drag-and-drop operations within the reporting interface. Understanding these scenarios is paramount for maintaining data integrity and optimizing performance.

The first scenario addresses foundational changes to the underlying data structure, typically managed through the Model or Table Views. This is necessary when the original column sequence inherited from the data source is suboptimal for subsequent modeling, calculating, or presentation across multiple reports. Such changes are often considered permanent alterations to the semantic model and affect all visuals drawing from that specific data structure.

Conversely, the second scenario focuses purely on the presentation layer. In this case, the user only wishes to modify the display order of fields within a single visual element, such as a Table or Matrix visual on the Report View. This visual adjustment does not impact the underlying data model structure, making it a highly flexible and quick method for report customization without

introducing new tables or modifying core data assets.

Scenario 1: Change Order of Columns in Table View: This involves permanent structural change, typically suitable for data modeling adjustments.

Scenario 2: Change Order of Columns in a Table in Report View: This involves temporary visual change, suitable only for report presentation within a single visual.

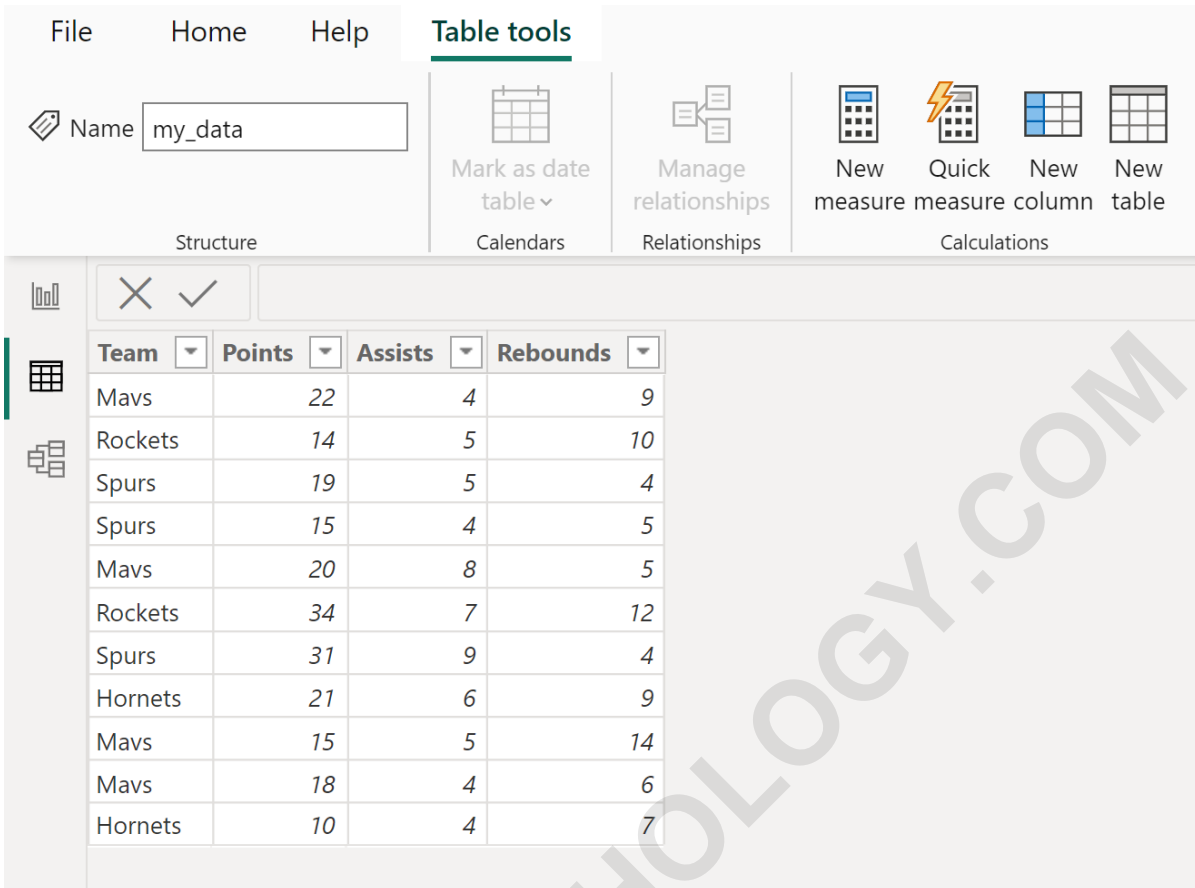
The following detailed examples illustrate the technical procedures required to achieve column reordering effectively in both of these critical scenarios, providing both flexibility and control over your data presentation and modeling.

Scenario 1: Permanent Column Reordering Using DAX in Table View

When the objective is to establish a definitive and persistent column order for a dataset that will be used across numerous reports and analyses, the most robust approach often involves creating a new, structured table using powerful modeling functions. This method ensures that the desired order is embedded directly into the data model itself, accessible uniformly across the entire Power BI file. This level of structural modification is typically achieved using Data Analysis Expressions (DAX).

Consider a scenario where we have a source table named **my_data**, which contains essential statistics for various basketball players, including metrics like points, assists, rebounds, and team affiliations. The default column order inherited from the source system may place less important fields before the primary descriptive fields. For analytical clarity, we want to prioritize the descriptive columns first, followed by key performance indicators (KPIs) in a logical flow.

The initial structure might look disordered, as shown below. The original table contains columns arranged in a non-optimal sequence for immediate data consumption:



The screenshot shows the Power BI ribbon with the 'Table tools' tab selected. The ribbon includes the following options:

- Structure:** Name (my_data)
- Calendars:** Mark as date table
- Relationships:** Manage relationships
- Calculations:** New measure, Quick measure, New column, New table

Below the ribbon, a table is displayed with the following data:

Team	Points	Assists	Rebounds
Mavs	22	4	9
Rockets	14	5	10
Spurs	19	5	4
Spurs	15	4	5
Mavs	20	8	5
Rockets	34	7	12
Spurs	37	9	4
Hornets	21	6	9
Mavs	15	5	14
Mavs	18	4	6
Hornets	10	4	7

Our goal is to create a new, derived table structure that adheres to a specific, logical column order for improved analysis:

Team
Rebounds
Assists
Points

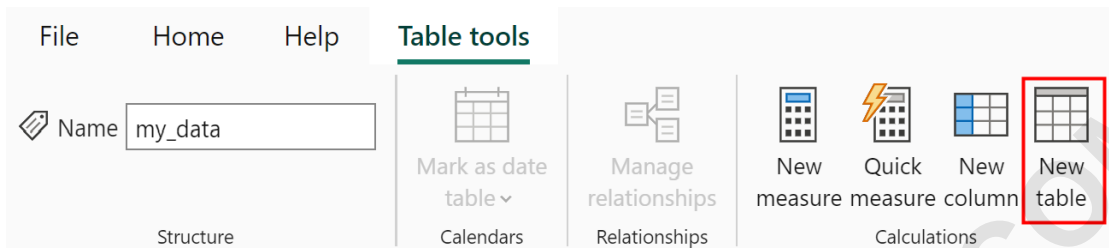
Implementing **SELECTCOLUMNS** for Data Model Reorganization

The most straightforward and efficient way to define a new column order at the data model level is by leveraging the **SELECTCOLUMNS** function within **DAX**. This powerful iterator function allows the developer to iterate over an existing table and define a new table structure by explicitly naming and ordering the output columns. This function is ideal because it allows precise control over column creation and sequence simultaneously.

To begin this process, the user must navigate to the modeling environment in Power BI Desktop. The structured steps are initiated by accessing the tools specifically designed for modifying or creating new tables within the data model. This is located under the **Table tools** tab in the ribbon

interface when you are in either the Table View or the Model View.

The procedure requires the creation of a new calculated table. By selecting the **New table** icon, Power BI prompts the user to input the DAX formula that will define the structure and content of this new derived table based on the source data.



The ability to utilize `SELECTCOLUMNS` ensures that the resulting structure is clean, containing only the columns necessary for the analysis, and ordered exactly as specified. This minimizes potential clutter and streamlines the data model for enhanced performance.

The DAX Formula and Execution Details

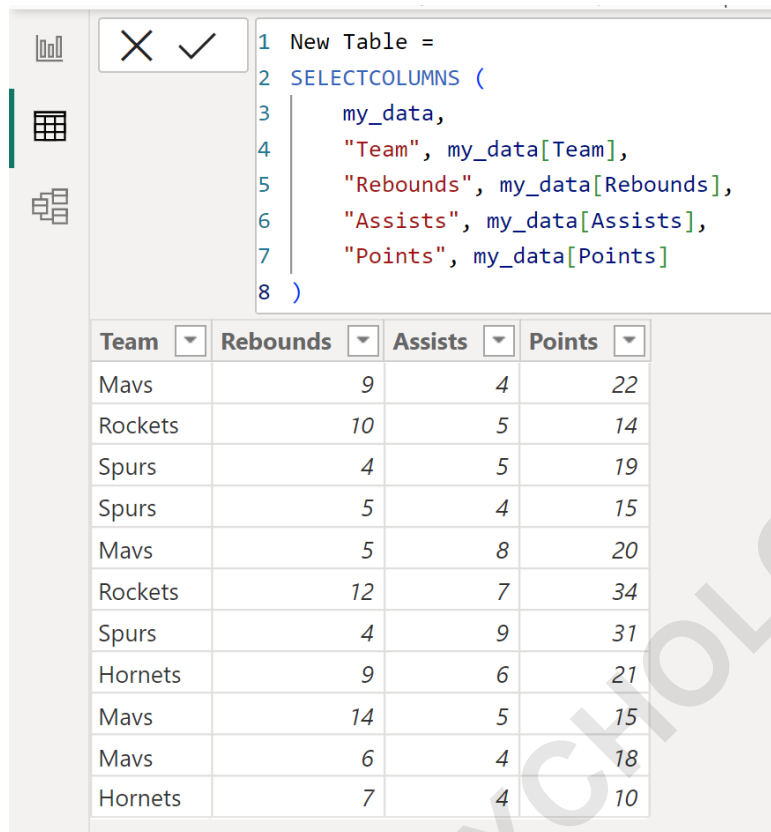
The core requirement is met by defining the formula using the `DAX` syntax, which takes the source table (`my_data`) and then lists the desired output columns in pairs of (New Column Name, Column Expression). The explicit sequence in which these pairs are listed dictates the final column order in the new table.

The precise formula to implement this structural change is as follows, ensuring that the defined columns reference the correct columns from the original `my_data` table:

```
New Table =  
SELECTCOLUMNS (  
my_data,  
"Team", my_data,  
"Rebounds", my_data,  
"Assists", my_data,  
"Points", my_data  
)
```

Upon execution, this formula generates a completely new, calculated table in the data model, distinct from the original `my_data` table. This new table, named **New Table**, now exhibits the desired, permanently established column sequence. This creation is robust and maintains its order across all subsequent interactions, provided the formula is not modified.

This structural modification is clearly visible when reviewing the data in the Table View, confirming that the new sequence--Team, Rebounds, Assists, Points--has been successfully implemented, demonstrating the power of DAX for data shaping:



The screenshot shows the DAX editor in Power BI. The DAX formula for a new table is as follows:

```
1 New Table =  
2 SELECTCOLUMNS (  
3     my_data,  
4     "Team", my_data[Team],  
5     "Rebounds", my_data[Rebounds],  
6     "Assists", my_data[Assists],  
7     "Points", my_data[Points]  
8 )
```

Below the DAX editor, a table visual displays the results of the DAX query. The table has four columns: Team, Rebounds, Assists, and Points. The data is as follows:

Team	Rebounds	Assists	Points
Mavs	9	4	22
Rockets	10	5	14
Spurs	4	5	19
Spurs	5	4	15
Mavs	5	8	20
Rockets	12	7	34
Spurs	4	9	31
Hornets	9	6	21
Mavs	14	5	15
Mavs	6	4	18
Hornets	7	4	10

It is important to remember that calculated tables, while flexible for modeling purposes, do increase the file size and refresh time slightly compared to source tables, as they must be re-evaluated during every data refresh operation. Therefore, this method should be reserved for scenarios where permanent, modeled reordering is absolutely necessary for reporting consistency.

Scenario 2: Visual Column Reordering in Report View

In contrast to permanent structural changes, many situations only require a temporary, visual adjustment to the column sequence within a specific report element. This approach is highly efficient because it modifies only the presentation layer without touching the underlying data structure or consuming additional memory for calculated tables. The focus here shifts from data modeling to pure visual design.

Suppose we have inserted a Table visual into the Report View canvas. This visual summarizes aggregated statistics--specifically, the sums of points, assists, and rebounds--for each unique team. The default arrangement of these aggregated fields might not be analytically optimal,

perhaps showing "Sum of Points" first when "Sum of Rebounds" is a more critical metric for immediate visual inspection.

The initial visual might present the columns in an order that is difficult for users to quickly digest, especially when dealing with multiple aggregated measures. Below shows an example of the visual before reordering, demonstrating the default sequence:

Team	Sum of Points	Sum of Assists	Sum of Rebounds
Hornets	31	10	16
Mavs	75	21	34
Rockets	48	12	22
Spurs	65	18	13
Total	219	61	85

Our reporting requirement dictates that the columns must be ordered logically, emphasizing defensive stats before offensive stats, immediately following the descriptive team column.

Team
Sum of Rebounds
Sum of Assists
Sum of Points

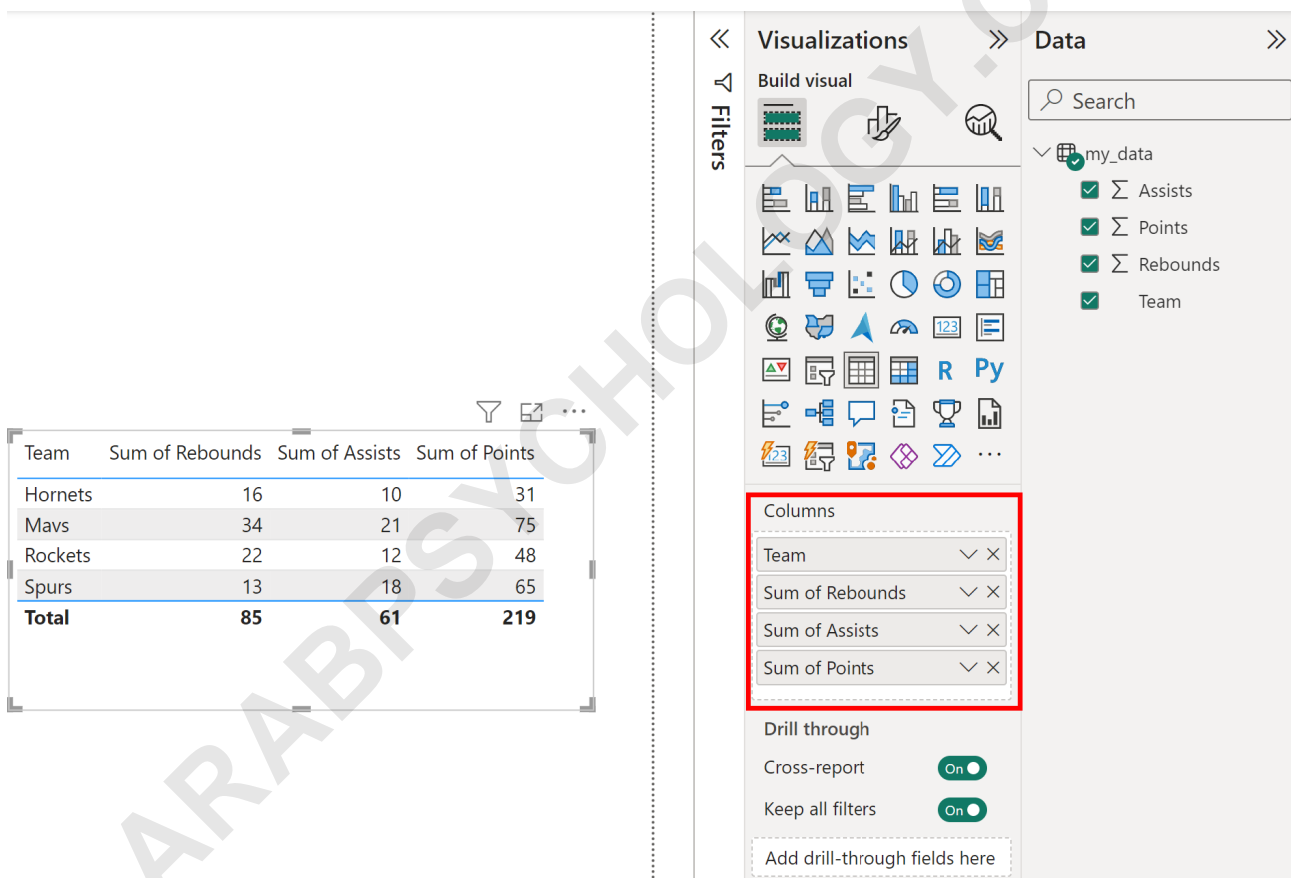
The Drag-and-Drop Method in the Visualizations Pane

The method for reordering columns within a visual is entirely intuitive and integrated directly into the Power BI interface. Unlike the DAX method, which requires formula writing and table creation, visual reordering utilizes the interactive capabilities of the **Visualizations** pane, specifically the

section dedicated to managing the fields included in the visual.

To initiate the visual reordering, first ensure that the target Table visual is selected on the Report View canvas. Once selected, the **Visualizations** pane will display the fields currently being used in the visual, typically listed under the "Columns" well for Table visuals.

Achieving the new order is accomplished simply by clicking and dragging the column names up or down within the **Columns** pane. The field list acts as a direct representation of the visual's display order. When a field is physically dragged to a new position in the list, the corresponding column in the visual immediately repositions itself, providing dynamic, real-time feedback to the report developer.



Team	Sum of Rebounds	Sum of Assists	Sum of Points
Hornets	16	10	31
Mavs	34	21	75
Rockets	22	12	48
Spurs	13	18	65
Total	85	61	219

This visual manipulation method is by far the easiest way to customize column display for report consumers. It requires no specialized coding and provides instant results, allowing for rapid prototyping and fine-tuning of report aesthetics. Notice that the columns in the table are now in the exact order that we specified: Team, Sum of Rebounds, Sum of Assists, Sum of Points.

Contrasting the Two Reordering Techniques for Optimal Workflow

It is crucial for Power BI developers to distinguish between these two column reordering

techniques, as they serve fundamentally different purposes and have varying impacts on the overall project performance and structure. Choosing the right method based on the analytical requirement ensures efficiency and maintainability.

The **DAX/SELECTCOLUMNS method** (Scenario 1) is a data modeling technique that should be employed when the desired order is a permanent, structural requirement for the semantic model. This method is slow, consumes resources, and increases file size, but it ensures consistency across all visuals and pages that reference the new calculated table. It is structural and foundational.

The **Visualizations Pane method** (Scenario 2) is purely a visual formatting technique. It is the preferred, lightweight solution when only a single visual requires a bespoke column sequence. It is instantaneous, has no impact on the data model, and should be the default choice for quick presentation adjustments. It is visual and aesthetic.

By understanding the scope and impact of each technique, developers can build robust models while maintaining maximum flexibility and control over the final presentation of their data insights.

The following tutorials explain how to perform other common tasks in [Power BI](#):