

# How to Create a Table in Power BI with DAX: A Step-by-Step Guide

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## RECOMMENDED CITATION

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Creating a table in Power BI using DAX (Data Analysis Expressions) involves using a combination of DAX functions and expressions to define the structure and data of the table. This can be done by first creating a measure or calculated column, then using the ADDCOLUMNS function to add additional columns and their respective calculations. The final step is to use the SUMMARIZE function to group the data and display it in a table format. This process allows for the creation of dynamic and customizable tables within Power BI.

## Power BI: Create a Table Using DAX

You can use the following syntax in DAX to create a table from scratch in Power BI:

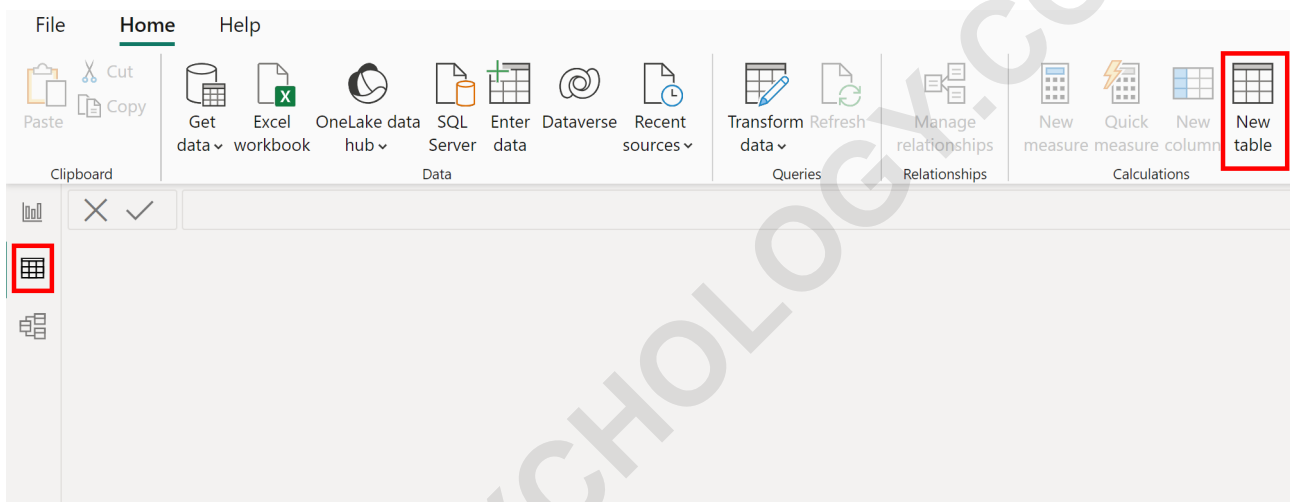
```
My_Table = {  
("Mavs", 22, 5),  
("Spurs", 30, 8),  
("Kings", 13, 4),  
("Warriors", 25, 12),  
("Nuggets", 11, 4),  
("Rockets", 40, 11)  
}
```

This particular syntax creates a new table named **My\_Table** that contains 3 columns and 6 rows.

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

## Example: Create Table in Power BI by Using DAX

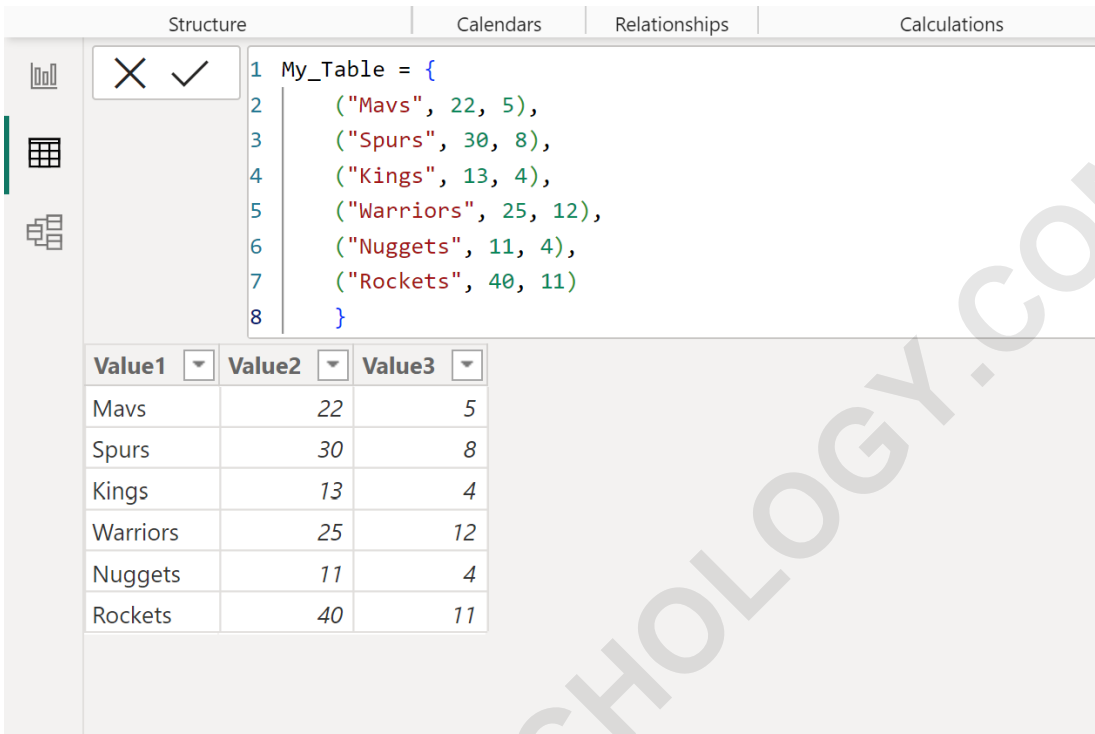
To create a table from scratch in Power BI, you must first click the Table View icon on the left side of the screen, then click the New Table icon along the top ribbon:



Next, type the following formula into the formula bar:

```
My_Table = {  
("Mavs", 22, 5),  
("Spurs", 30, 8),  
("Kings", 13, 4),  
("Warriors", 25, 12),  
("Nuggets", 11, 4),  
("Rockets", 40, 11)  
}
```

Once you press Enter, a table named **My\_Table** will be created with **3 columns and 6 rows**:



The screenshot shows the Power BI DAX editor interface. The top navigation bar includes 'Structure', 'Calendars', 'Relationships', and 'Calculations'. The main editor area displays the following DAX code:

```
1 My_Table = {  
2     ("Mavs", 22, 5),  
3     ("Spurs", 30, 8),  
4     ("Kings", 13, 4),  
5     ("Warriors", 25, 12),  
6     ("Nuggets", 11, 4),  
7     ("Rockets", 40, 11)  
8 }
```

Below the code, a preview table is shown with the following data:

Value1	Value2	Value3
Mavs	22	5
Spurs	30	8
Kings	13	4
Warriors	25	12
Nuggets	11	4
Rockets	40	11

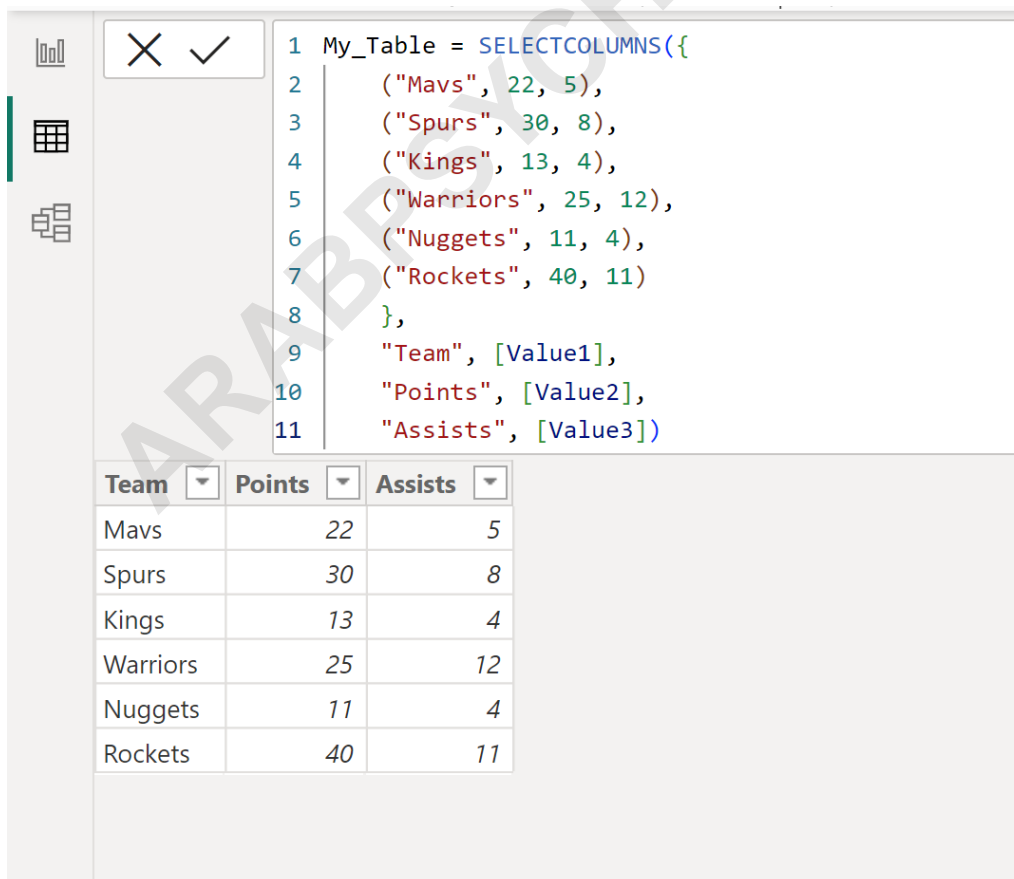
By default, DAX uses Value1, Value2 and Value3 as the column names.

If you would like to specify the column names to use when creating the table, you can use the following syntax with the **SELECTCOLUMNS** function:

```
My_Table = SELECTCOLUMNS({  
("Mavs", 22, 5),  
("Spurs", 30, 8),
```

```
("Kings", 13, 4),  
("Warriors", 25, 12),  
("Nuggets", 11, 4),  
("Rockets", 40, 11)  
},  
"Team", ,  
"Points", ,  
"Assists", )
```

This will create the following table with column names "Team", "Points" and "Assists":



The screenshot shows the DAX editor in Power BI. The formula bar contains the following DAX code:

```
1 My_Table = SELECTCOLUMNS({  
2     ("Mavs", 22, 5),  
3     ("Spurs", 30, 8),  
4     ("Kings", 13, 4),  
5     ("Warriors", 25, 12),  
6     ("Nuggets", 11, 4),  
7     ("Rockets", 40, 11)  
8 },  
9     "Team", [Value1],  
10    "Points", [Value2],  
11    "Assists", [Value3])
```

Below the formula bar, a table is displayed with the following data:

Team	Points	Assists
Mavs	22	5
Spurs	30	8
Kings	13	4
Warriors	25	12
Nuggets	11	4
Rockets	40	11

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

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

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