

How to Calculate Percentage of Total by Category in Power BI

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To calculate the percentage of total by category in Power BI, you can use the "Quick Measures" feature. First, create a measure that calculates the total value for each category. Then, use the "Quick Measures" option to create a new measure that divides the total value by the grand total. This will give you the percentage of total for each category. You can then add this measure to a visual to display the percentage breakdown by category. Alternatively, you can use the "Group By" feature to group your data by category and create a calculated column that calculates the percentage of total for each category. This can also be added to a visual to display the percentage breakdown by category.

You can use the following syntax in DAX to create a new column that displays the percent of a column total by category:

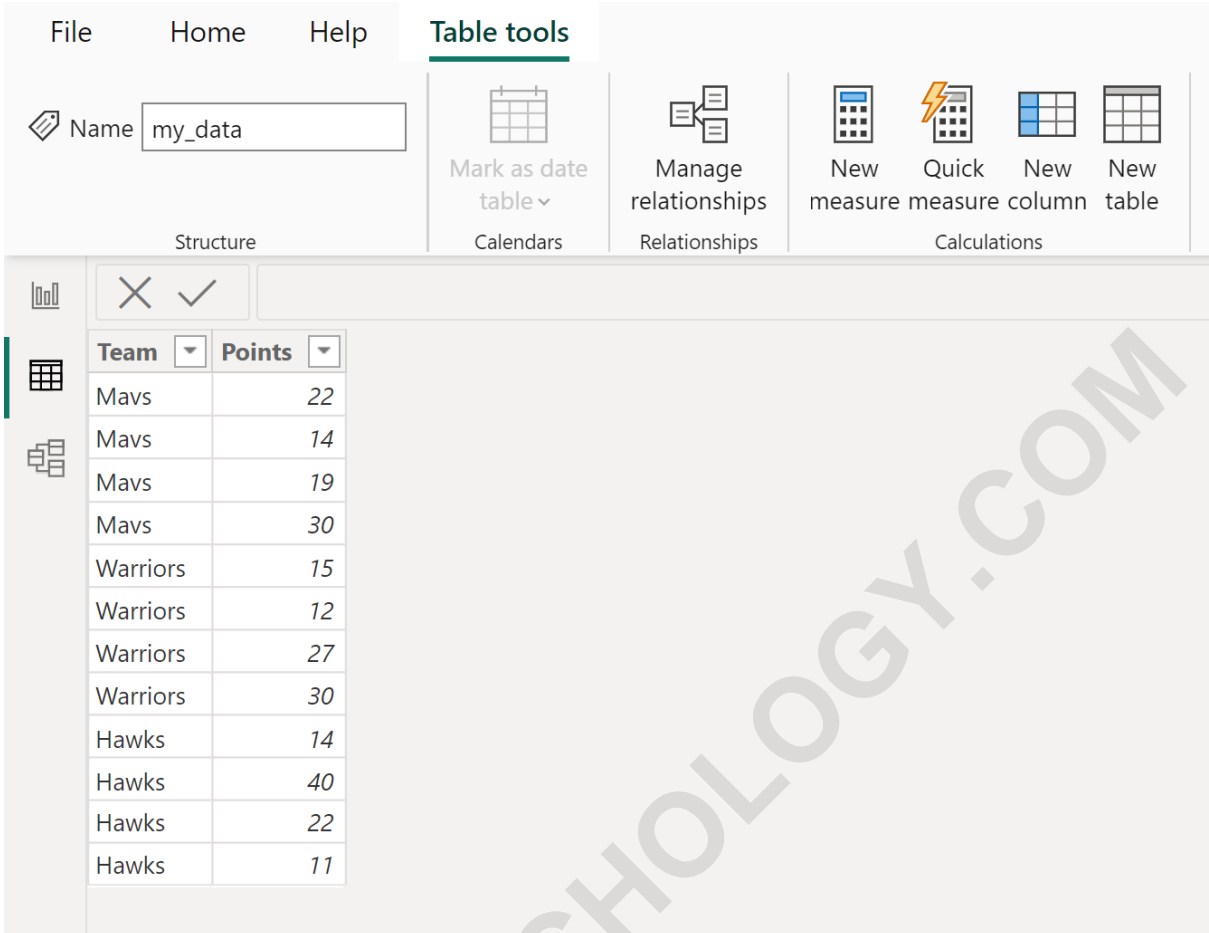
```
Percent of Team Total =  
'my_data'  
/ CALCULATE (  
SUM ( 'my_data' ),  
ALLEXCEPT ( 'my_data', 'my_data' )  
)
```

This particular example creates a new column named **Percent of Team Total** that displays the percent of the total of the **Points** column, grouped by the values in the **Team** column.

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

Example: Calculate Percent of Total by Category in Power BI

Suppose we have the following table in Power BI named **my_data** that contains information about points scored by basketball players on various teams:



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

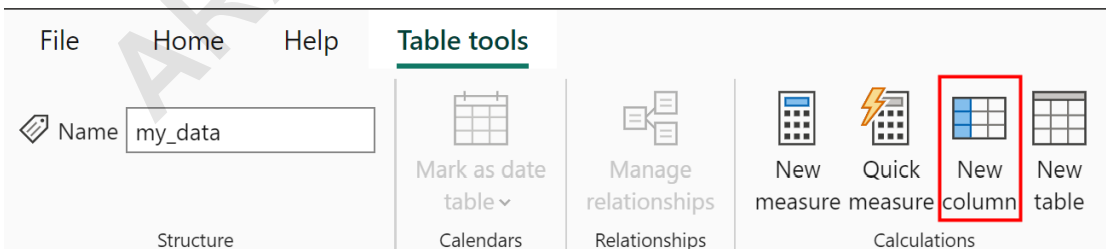
- Name:** my_data
- Structure:** Mark as date table (Calendars)
- Relationships:** Manage relationships
- Calculations:** New measure, Quick measure, New column, New table

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

Team	Points
Mavs	22
Mavs	14
Mavs	19
Mavs	30
Warriors	15
Warriors	12
Warriors	27
Warriors	30
Hawks	14
Hawks	40
Hawks	22
Hawks	11

Suppose we would like to add a new column that shows how much each individual value in the **Points** column represents as a percentage of the total values in the **Points** column, grouped by **Team**.

To do so, click the **Table tools** tab along the top ribbon, then click the **New column** icon:



The screenshot shows a close-up of the 'Table tools' tab on the Power BI ribbon. The 'New column' icon, which is a grid with a blue header row, is highlighted with a red box. Other icons visible include 'New measure', 'Quick measure', and 'New table'.

Then type in the following formula into the formula bar:

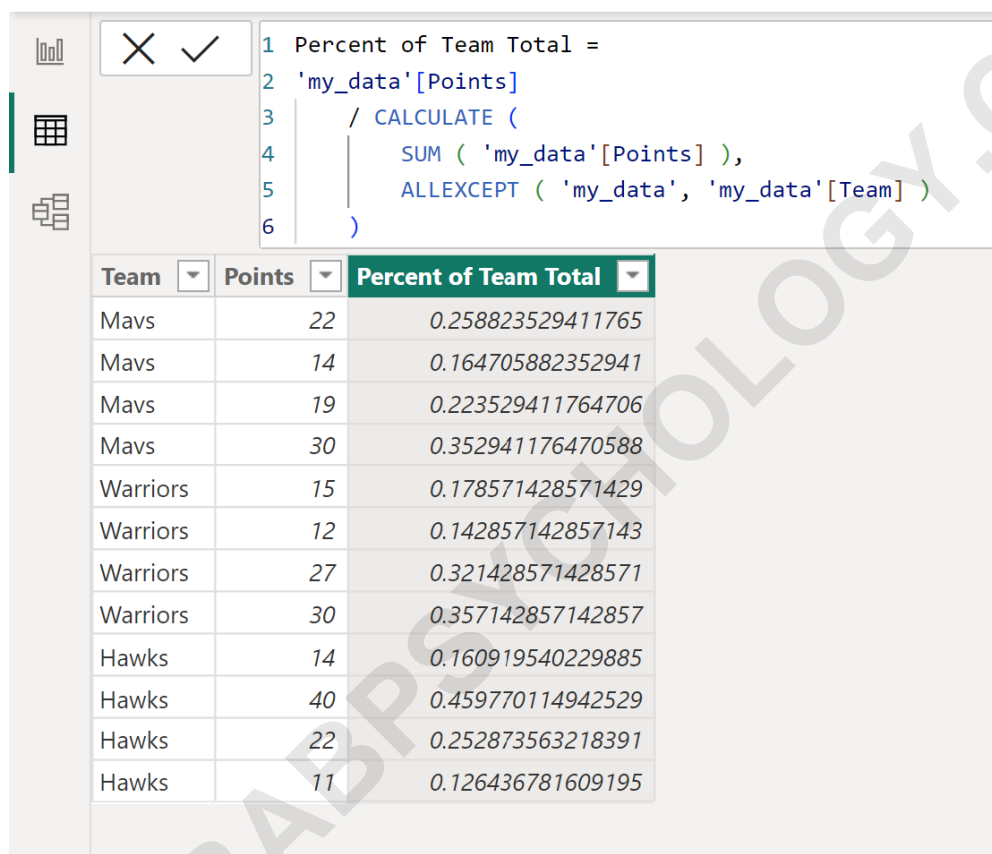
Percent of Team Total =
'my_data'

```

/ CALCULATE (
SUM ( 'my_data' ),
ALLEXCEPT ( 'my_data', 'my_data' )
)

```

This will create a new column named **Percent of Team Total** that shows how much each individual value in the **Points** column represents as a percentage of the total values in the **Points** column for each team:



The screenshot shows the Power BI interface with a DAX formula bar and a data table. The formula bar contains the following DAX code:

```

1 Percent of Team Total =
2 'my_data'[Points]
3 / CALCULATE (
4     SUM ( 'my_data'[Points] ),
5     ALLEXCEPT ( 'my_data', 'my_data'[Team] )
6 )

```

The data table below shows the results of the calculation:

Team	Points	Percent of Team Total
Mavs	22	0.258823529411765
Mavs	14	0.164705882352941
Mavs	19	0.223529411764706
Mavs	30	0.352941176470588
Warriors	15	0.178571428571429
Warriors	12	0.142857142857143
Warriors	27	0.321428571428571
Warriors	30	0.357142857142857
Hawks	14	0.160919540229885
Hawks	40	0.459770114942529
Hawks	22	0.252873563218391
Hawks	11	0.126436781609195

If you'd like to display the values as percentages, then click the dropdown arrow next to **Format** and then click **Percentage**:

Each of the values in the **Percent of Team Total** column will now be displayed as percentages:

The screenshot shows the Power BI interface with the 'Table tools' and 'Column tools' tabs. The 'Name' field is set to 'Percent of Team To...' and the 'Format' is set to 'Percentage'. The 'Data type' is 'Decimal number'. The DAX formula is:

```

1 Percent of Team Total =
2 'my_data'[Points]
3 / CALCULATE (
4     SUM ( 'my_data'[Points] ),
5     ALLEXCEPT ( 'my_data', 'my_data'[Team] )
6 )

```

The resulting table is:

Team	Points	Percent of Team Total
Mavs	22	25.88%
Mavs	14	16.47%
Mavs	19	22.35%
Mavs	30	35.29%
Warriors	15	17.86%
Warriors	12	14.29%
Warriors	27	32.14%
Warriors	30	35.71%
Hawks	14	16.09%
Hawks	40	45.98%
Hawks	22	25.29%
Hawks	11	12.64%

The first Mavs player accounts for **25.88%** of all points scored by the Mavs.

The second Mavs player accounts for **16.47%** of all points scored by the Mavs.

The third Mavs player accounts for **22.35%** of all points scored by the Mavs.

The fourth Mavs player accounts for **35.29%** of all points scored by the Mavs.

If we add up each of these percentages, we'll find that the total is 100%:

Total Mavs Points: $25.88\% + 16.47\% + 22.35\% + 35.29\% = 100\%$.

The same is true for every other team in the table.

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