Learning to Calculate Averages in Power BI While Excluding Zero Values

Authored by

Mohammed looti

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You can use the following syntax in DAX to calculate the average value in a column while ignoring any values equal to zero:

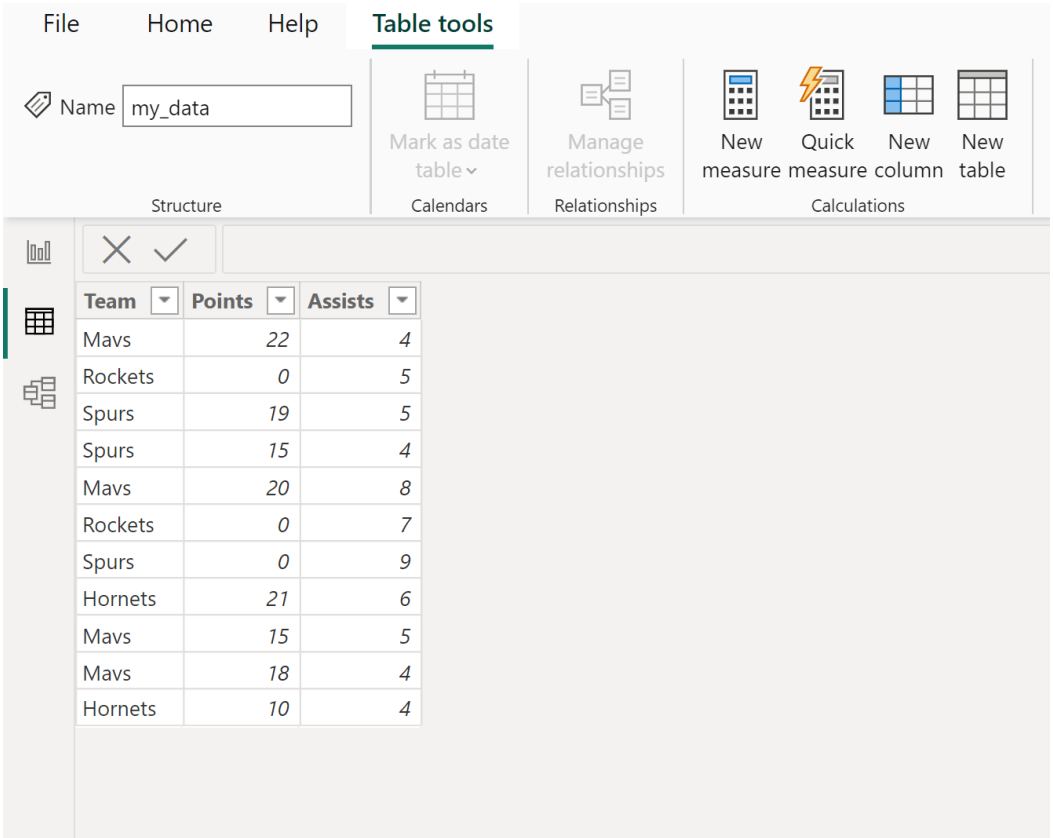
```
Avg Points =
CALCULATE (
AVERAGE ( 'my_data' ),
FILTER ( 'my_data', 'my_data' <> 0 )
)
```

This particular example creates a new measure named **Avg Points** that calculates the average value in the **Points** column of the table named **my_data** while ignoring any values equal to zero.

The following example shows how to calculate the average value of a column in Power BI in practice.

Example: How to Calculate Average and Ignore Zeros 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:

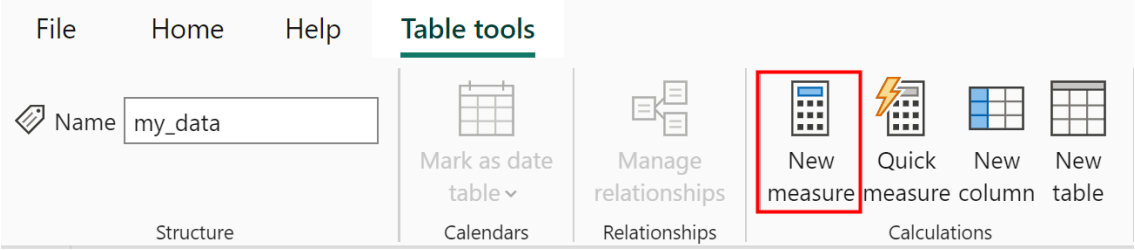


Team	Points	Assists
Mavs	22	4
Rockets	0	5
Spurs	19	5
Spurs	15	4
Mavs	20	8
Rockets	0	7
Spurs	0	9
Hornets	21	6
Mavs	15	5
Mavs	18	4
Hornets	10	4

Notice that there are several values equal to zero in the **Points** column.

Suppose we would like to calculate the average value in the **Points** column while ignoring these zero values.

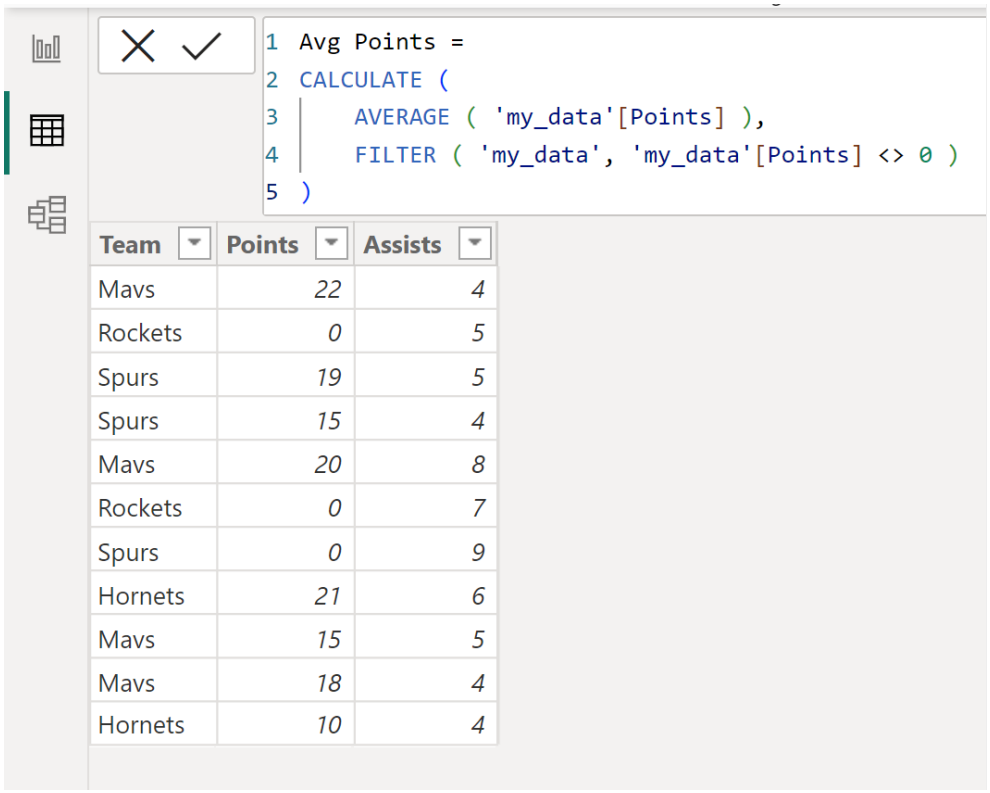
To do so, click the **Table tools** tab along the top ribbon, then click the **New measure** icon:



Then type in the following formula into the formula bar:

```
Avg Points =
CALCULATE (
AVERAGE ( 'my_data' ),
FILTER ( 'my_data', 'my_data' <> 0 )
)
```

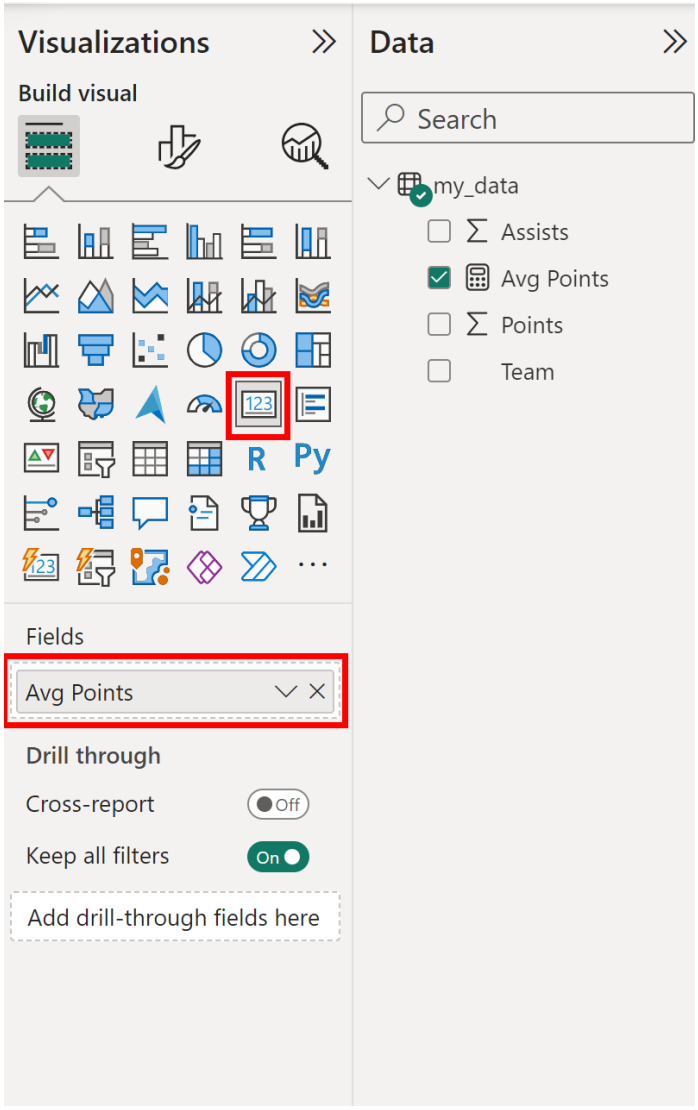
This will create a new measure named **Avg Points** that contains the average of values in the **Points** column of the table while ignoring the zeros:



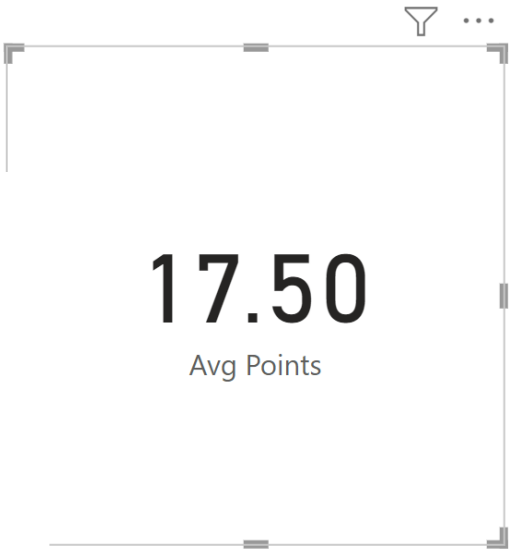
```
Avg Points =
CALCULATE (
    AVERAGE ( 'my_data'[Points] ),
    FILTER ( 'my_data', 'my_data'[Points] <> 0 )
)
```

Team	Points	Assists
Mavs	22	4
Rockets	0	5
Spurs	19	5
Spurs	15	4
Mavs	20	8
Rockets	0	7
Spurs	0	9
Hornets	21	6
Mavs	15	5
Mavs	18	4
Hornets	10	4

If we'd like, we can display this value by going to the **Report View** in Power BI, then by clicking the **Card** icon under the **Visualizations** tab, then by dragging the **Avg Points** measure under the **Fields** label:


Visualizations
Build visual
Fields
Avg Points
Drill through
Cross-report
Off
Keep all filters
On
Add drill-through fields here
Data
Search
my_data
Assists
Avg Points
Points
Team

Team	Sum of Points	Sum of Assists
Hornets	31	10
Mavs	75	21
Rockets	0	12
Spurs	34	18
Total	**140**	**61**



We can see that the average value in the **Points** column, ignoring all zeros, is **17.5**.

We can verify this is correct by manually calculating the average of the values in the **Points** column while ignoring all zeros:

Average of Points while Ignoring Zeros: (22+19+15+20+21+15+18+10) / 8 = **17.5**

This matches the value calculated by our formula.

Additional Resources

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