

Learning to Calculate Standard Deviation in Power BI with DAX: A Step-by-Step Guide

Authored by
Mohammed looti

November 12, 2025

RECOMMENDED CITATION

Mohammed looti (2025). *Learning to Calculate Standard Deviation in Power BI with DAX: A Step-by-Step Guide*. PSYCHOLOGICAL STATISTICS. Retrieved from <https://statistics.arabpsychology.com/?p=17519>

You can use the following syntax in DAX to calculate the standard deviation of values in a column:

Std Dev of Points = STDEV.P('my_data')

This particular example creates a new measure named **Std Dev of Points** that calculates the standard deviation of values in the **Points** column of the table named **my_data**.

Note that there are four different standard deviation functions you can use in DAX:

STDEV.P: Returns the population standard deviation of values in a column.

STDEV.S: Returns the sample standard deviation of values in a column.

STDEVX.P: Returns the population standard deviation for an expression evaluated row by row over a table.

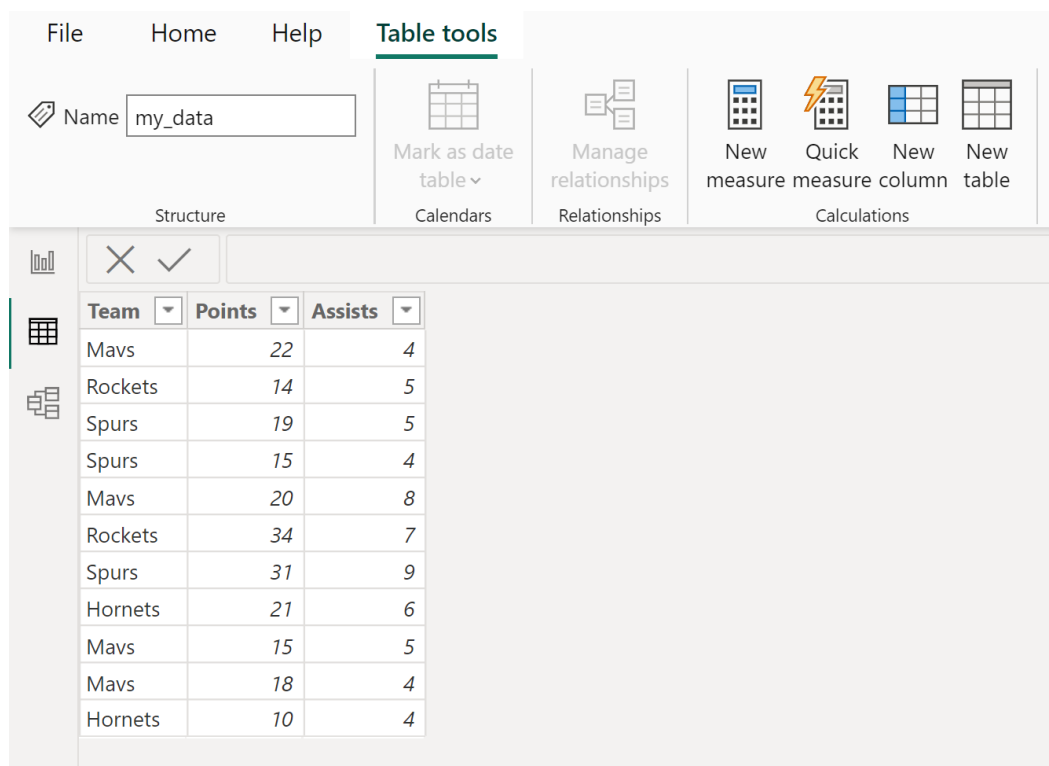
STDEVX.S: Returns the sample standard deviation for an expression evaluated row by row over a table.

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

Related:

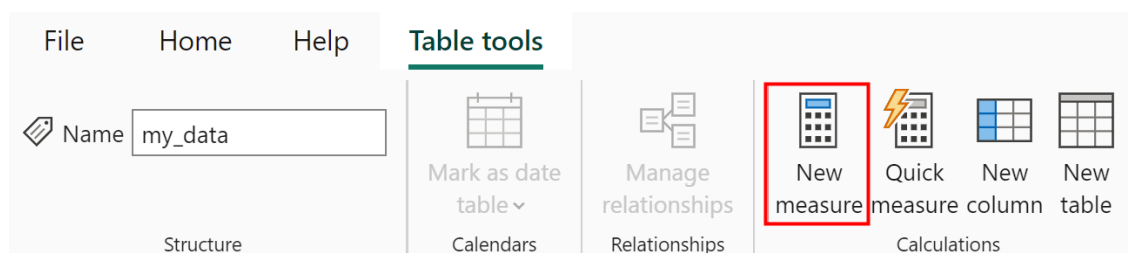
Example: How to Calculate Standard Deviation in Power BI

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



Suppose we would like to calculate the standard deviation of values in the **Points** column.

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



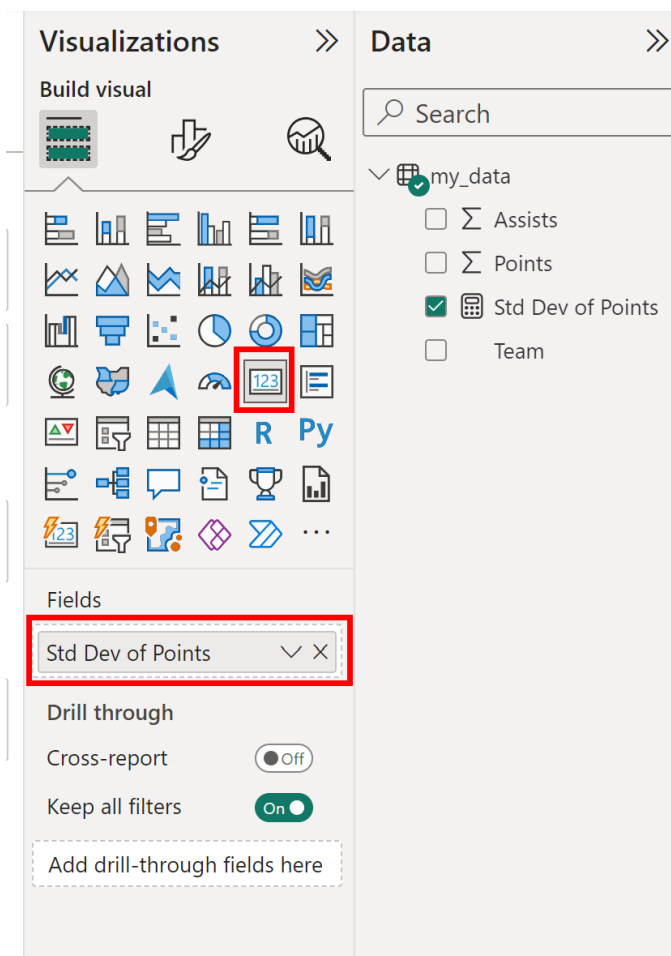
Then type in the following formula into the formula bar:

Std Dev of Points = STDEV.P('my_data')

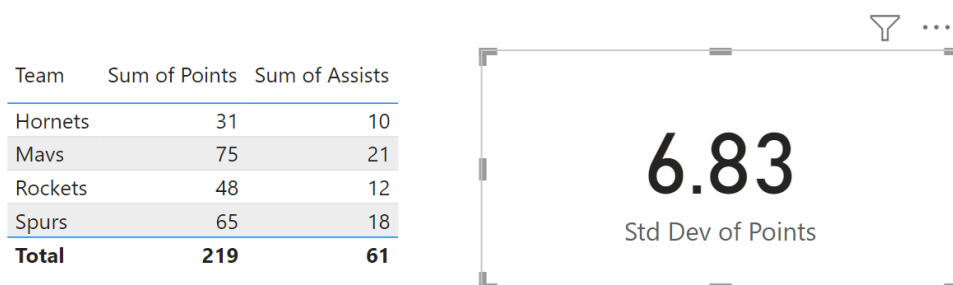
This will create a new measure named **Std Dev of Points** that contains the standard deviation of values in the **Points** column of the table:

1 Std Dev of Points = `STDEV.P('my_data'[Points])`

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



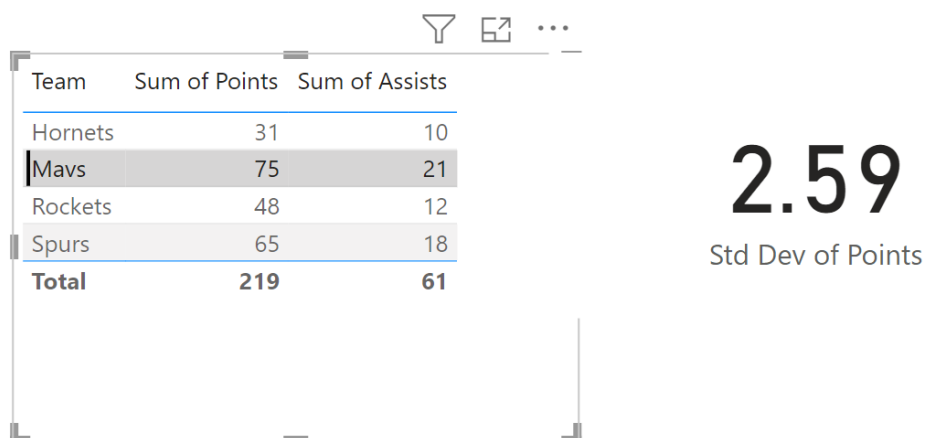
This will produce the following card that displays the standard deviation of values in the **Points** column of the table:



We can see that the standard deviation of values in the **Points** column is **6.83**.

If we click on any of the individual names in the **Team** column of the table in the report, then the card will automatically update to show the standard deviation of points for that particular team.

For example, suppose we click the **Mavs** team name in the table:



The card automatically updates to show that the standard deviation of values in the **Points** column for the **Mavs** is **2.59**.

Additional Resources

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