

How can I count the number of rows in a table using VBA?

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June 23, 2024

RECOMMENDED CITATION

stats writer (2024). *How can I count the number of rows in a table using VBA?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=148721>

Counting the number of rows in a table is a common task in VBA programming. This can be achieved by using the "Rows.Count" property, which returns the total number of rows in a table. This property can be applied to a specific table or to the entire worksheet. By looping through the rows and incrementing a counter variable, the total number of rows can be easily calculated and displayed. This method is useful for creating automated processes and data analyses in VBA.

Count Rows in Table Using VBA (With Example)

You can use the following syntax to count the number of rows in a table in Excel using VBA:

```
Sub CountTableRow()
```

```
Dim tbl As ListObject
```

```
'specify table to count rows in
```

```
Set tbl = ActiveSheet.ListObjects("Table1")
```

```
'create message box that displays row count
```

```
MsgBox "Total Rows: " & tbl.Range.Rows.Count &  
vbNewLine & _
```

```
"Header Rows: " & tbl.HeaderRowRange.Rows.Count &  
vbNewLine & _
```

```
"Body Rows: " & tbl.ListRows.Count
```

```
'set tbl variable to Nothing
```

```
Set tbl = Nothing
```

End Sub

This particular example counts the following number of rows for the table in the active sheet called Table1:

**Total number of rows
Total number of header rows
Total number of body rows**

We use the MsgBox function to create a message box that displays each of these values in one message box.

Note: We use the vbNewLine statement to insert new lines and create a message box with multiple lines.

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

Example: How to Count Rows in Table Using VBA

Suppose we have the following table called Table1 that contains information about various basketball players:

1	Team	Points	Assists
2	Mavs	22	4
3	Heat	19	7
4	Kings	14	7
5	Nets	18	6
6	Warriors	29	9
7	Blazers	35	8
8	Spurs	34	8
9	Rockets	29	10
10	Hornets	24	22
11			
12			
13			
14			
15			

We can create the following macro to count the number of rows in this table:

Sub CountTableRow()

Dim tbl As ListObject

'specify table to count rows in

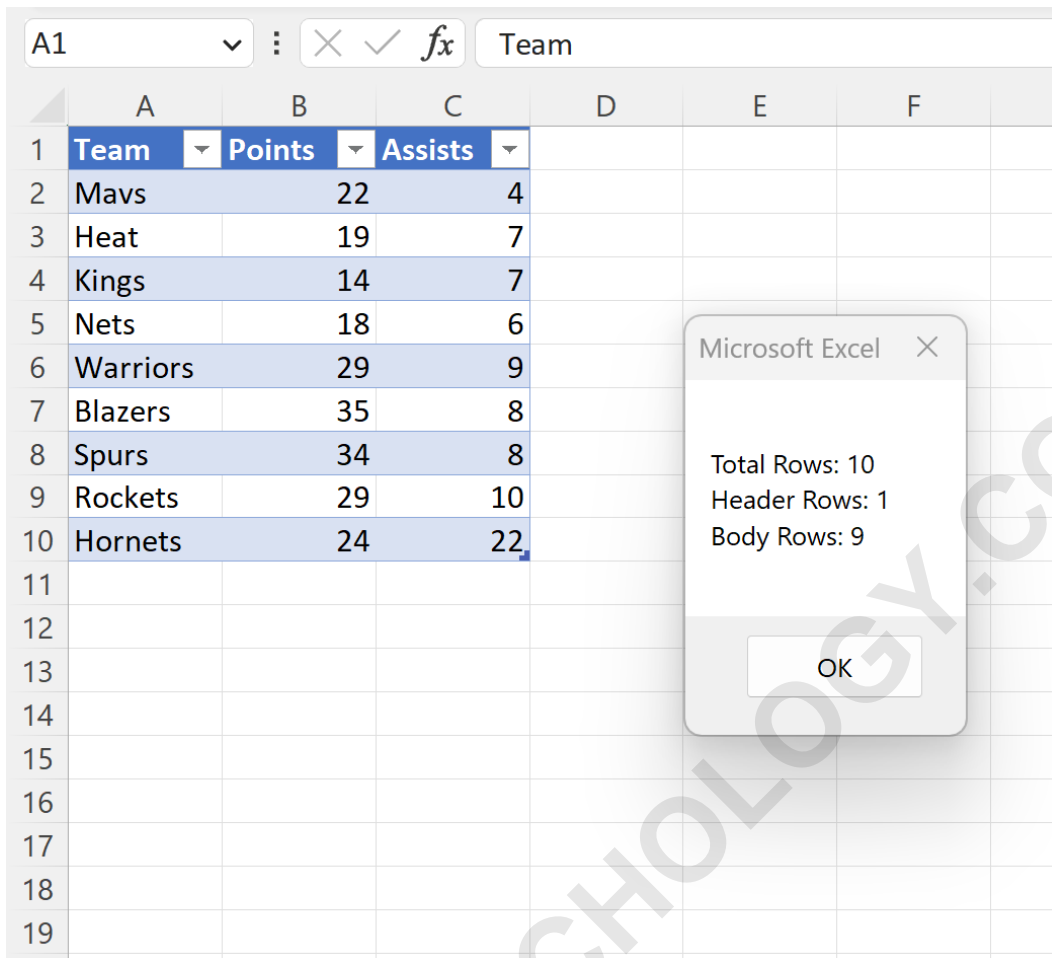
Set tbl = ActiveSheet.ListObjects("Table1")

```
'create message box that displays row count
MsgBox "Total Rows: " & tbl.Range.Rows.Count &
vbNewLine & _
"Header Rows: " & tbl.HeaderRowRange.Rows.Count &
vbNewLine & _
"Body Rows: " & tbl.ListRows.Count

'set tbl variable to Nothing
Set tbl = Nothing

End Sub
```

When we run this macro, we receive the following output:



The screenshot shows an Excel spreadsheet with a table containing 10 rows. The first row is a header row with columns 'Team', 'Points', and 'Assists'. The subsequent 9 rows are body rows containing team names and their corresponding points and assists. A message box is overlaid on the spreadsheet, displaying the following information:

Team	Points	Assists
Mavs	22	4
Heat	19	7
Kings	14	7
Nets	18	6
Warriors	29	9
Blazers	35	8
Spurs	34	8
Rockets	29	10
Hornets	24	22

Microsoft Excel

Total Rows: 10
Header Rows: 1
Body Rows: 9

OK

The message box tells us that there are 10 total rows in the table.

It also tells us that there is 1 header row and 9 body rows.