

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

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Counting the number of rows in a specific range using VBA is a simple and efficient process. First, you need to identify the range for which you want to count the rows. This can be done by using the "Range" function, which specifies the starting and ending cells of the range. Once the range is identified, you can use the "Rows" property to determine the number of rows in the range. This property returns an integer value representing the total number of rows in the specified range. By using this method, you can easily and accurately count the number of rows in a range using VBA.

VBA: Count Number of Rows in Range

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

```
Sub CountRows()  
Range("E2") =  
Range("A:A").Cells.SpecialCells(xlCellTypeConstants).  
Count  
End Sub
```

This particular example counts the number of rows in column A and then assigns the result to cell E2.

If you would instead like to display the row count in a message box, you can use the following syntax:

```
Sub CountRows()  
'Create variable to store number of rows  
Dim row_count As Integer
```

```
'Calculate number of rows in range  
row_count =  
Range("A:A").Cells.SpecialCells(xlCellTypeConstants).  
Count
```

```
'Display the result  
MsgBox "Rows in Column A: " & row_countEnd Sub
```

The following examples shows how to use each of these methods in practice with the following dataset in Excel that contains the names of basketball players on three different teams:

	A	B	C	D	E	F
1	Team A	Team B	Team C			
2	Andy	Isaac	Mike			
3	Brad	John	Nate			
4	Chad	Ken	Oscar			
5	Derrick	Luke	Perry			
6	Ethan		Quincy			
7	Frank		Ron			
8	George		Steve			
9	Harry					
10						
11						
12						
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19						
20						
21						
22						

Example 1: Count Rows in Range Using VBA and Display Results in Cell

Suppose we would like to calculate the number of rows in column A and output the results in a specific cell.

We can create the following macro to do so:

Sub CountRows()

Range("E2")

=

Range("A:A").Cells.SpecialCells(xlCellTypeConstants).

Count

End Sub

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

	A	B	C	D	E	F
1	Team A	Team B	Team C			
2	Andy	Isaac	Mike		9	
3	Brad	John	Nate			
4	Chad	Ken	Oscar			
5	Derrick	Luke	Perry			
6	Ethan		Quincy			
7	Frank		Ron			
8	George		Steve			
9	Harry					
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						

Notice that cell E2 contains a value of 9.

This tells us that there are 9 rows in column A with values.

Example 2: Count Rows in Range Using VBA and Display Results

in Message Box

Suppose we would instead like to count the number of rows in column A and output the results in a message box.

Sub CountRows()

'Create variable to store number of rows

Dim row_count As Integer

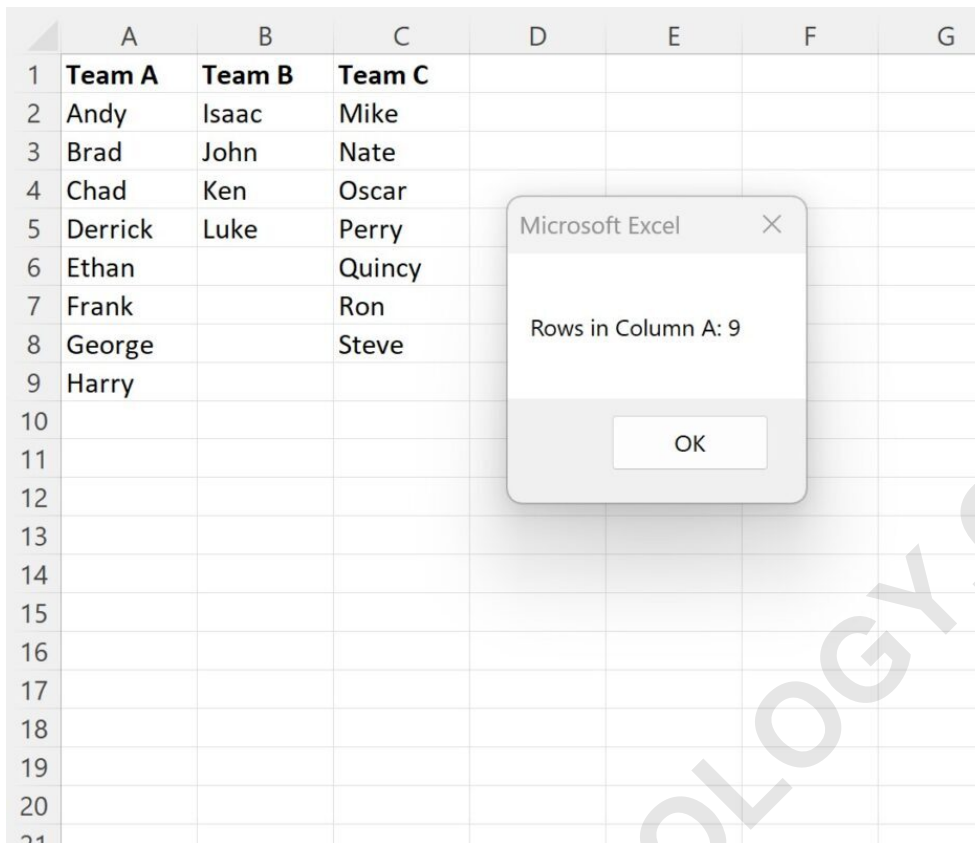
'Calculate number of rows in range

**row_count =
Range("A:A").Cells.SpecialCells(xlCellTypeConstants).
Count**

'Display the result

MsgBox "Rows in Column A: " & row_countEnd Sub

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



The screenshot shows an Excel spreadsheet with three columns: Team A, Team B, and Team C. The data is as follows:

	A	B	C	D	E	F	G
1	Team A	Team B	Team C				
2	Andy	Isaac	Mike				
3	Brad	John	Nate				
4	Chad	Ken	Oscar				
5	Derrick	Luke	Perry				
6	Ethan		Quincy				
7	Frank		Ron				
8	George		Steve				
9	Harry						
10							
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19							
20							
21							

A message box titled "Microsoft Excel" is overlaid on the spreadsheet, displaying the text "Rows in Column A: 9" and an "OK" button.

The message box tells us that there are 9 rows in column A with values.

Note that in this example we calculated the number of rows in all of column A using A:A as our range.

However, if you'd like to instead calculate the number of rows with values in a specific range, you could type A2:A9 (or whatever range you're interested in) instead.