

How can I delete rows in VBA based on a specific cell value?

Authored by
stats writer

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This process involves using Visual Basic for Applications (VBA) to delete rows in a spreadsheet based on a specific cell value. VBA is a programming language used in Microsoft Office applications, including Excel. By using VBA, users can automate tasks and manipulate data in a more efficient manner. To delete rows based on a specific cell value, the VBA code will first need to identify the cell or range of cells that contain the value. Then, it will loop through the rows and delete any row that contains the specified value. This method can be useful for quickly removing unwanted data or duplicate entries from a large dataset. It can also be customized to fit the specific needs of the user, making it a versatile and powerful tool for data management in Excel.

VBA: Delete Rows Based on Cell Value

You can use the following syntax in VBA to delete rows based on a cell value:

```
Sub DeleteRowsByValue()
```

```
Dim ws As Worksheet
```

```
Set ws = ActiveSheet
```

```
'clear existing filters On Error Resume Next
```

```
ws.ShowAllData
```

```
On Error GoTo 0'filter range where column 2 in range is  
equal to "East"
```

```
ws.Range("A1:C10").AutoFilter           Field:=2,  
Criteria1:="East"
```

```
'delete rows that are visible
```

```
Application.DisplayAlerts = False
```

```
ws.Range("A2:C10").SpecialCells(xlCellTypeVisible).Delete
```

```
Application.DisplayAlerts = True
```

```
'remove filter On Error Resume Next
```

```
ws.ShowAllData
```

```
On Error GoTo 0 End Sub
```

This particular macro deletes all rows in the range A1:C10 where the value in column B is equal to "East."

This macro uses the following steps:

Apply a filter to A1:C10 to only show rows where the value in column B is "East." Then delete all visible cells. Then remove the filter.

This has the effect of deleting all rows in the range A1:C10 where the value in column B is equal to "East."

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

Example: Use VBA to Delete Rows Based on Cell Value

Suppose we have the following dataset that contains

information about various basketball players:

	A	B	C	D	E	F
1	Team	Conference	Points			
2	Mavericks	West	22			
3	Spurs	West	29			
4	Celtics	East	35			
5	Rockets	West	40			
6	Warriors	West	38			
7	Nets	East	22			
8	Magic	East	19			
9	Nuggets	West	20			
10	Raptors	East	16			
11						
12						
13						
14						
15						
16						
17						
18						

Suppose that we would like to delete each row in the dataset where the Conference column is equal to "East."

We can create the following macro to do so:

```
Sub DeleteRowsByValue()
```

```
Dim ws As Worksheet
```

```
Set ws = ActiveSheet
```

```
'clear existing filters
On Error Resume Next
ws.ShowAllData
On Error GoTo 0
'filter range where column 2 in range is
equal to "East"
ws.Range("A1:C10").AutoFilter      Field:=2,
Criteria1:="East"
```

```
'delete rows that are visible
Application.DisplayAlerts = False
ws.Range("A2:C10").SpecialCells(xlCellTypeVisible).Delete
Application.DisplayAlerts = True
```

```
'remove filter
On Error Resume Next
ws.ShowAllData
On Error GoTo 0
End Sub
```

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

	A	B	C	D	E	F
1	Team	Conferen	Points			
2	Mavericks	West	22			
3	Spurs	West	29			
4	Rockets	West	40			
5	Warriors	West	38			
6	Nuggets	West	20			
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

Notice that all rows where the value in the Conference column was "East" have been deleted.

Note: The line `Application.DisplayAlerts=False` tells VBA not to display the process of deleting the visible rows, which speeds up the process.