

How can I use VBA to filter pivot tables? Can you provide examples?

Authored by
stats writer

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VBA (Visual Basic for Applications) is a programming language commonly used in Microsoft Excel to automate tasks and enhance functionality. One of its useful features is the ability to filter pivot tables.

To use VBA to filter pivot tables, you can first create a macro that records the steps taken to filter the pivot table manually. This macro can then be modified to include specific criteria for filtering, such as certain values or ranges.

For example, if you want to filter a pivot table to only show data for a specific month, you can use VBA to specify the month as the filter criteria. This will save time and effort compared to manually filtering the pivot table every time.

Furthermore, VBA can also be used to change the filter criteria dynamically. This means that the pivot table will update automatically whenever the data source is refreshed.

In summary, VBA provides a convenient and efficient way to filter pivot tables in Excel. With its flexibility and customization options, it can greatly improve the efficiency and accuracy of data analysis.

Filter Pivot Tables Using VBA (With Examples)

You can use the following methods to filter pivot tables in Excel using VBA:

Method 1: Filter Pivot Table Based on One Value

```
Sub FilterPivotTable()
```

```
Dim pf As PivotField
```

```
Dim myFilter As String
```

```
Set pf =
```

```
ActiveSheet.PivotTables("PivotTable1").PivotFields("Position")
```

```
myFilter =  
ActiveWorkbook.Sheets("Sheet1").Range("J2").Value  
pf.PivotFilters.Add2 xlCaptionEquals, , myFilter  
End Sub
```

This particular macro will filter the pivot table called PivotTable1 to only display rows where the value in the Position column of the pivot table is equal to the value in cell J2 of Sheet1.

Method 2: Filter Pivot Table Based on Multiple Values

```
Sub FilterPivotTableMultiple()  
Dim v As Variant  
Dim i As Integer, j As Integer  
Dim pf As PivotField  
Set pf =  
ActiveSheet.PivotTables("PivotTable1").PivotFields("Po  
sition")
```

'specify range with values to filter on

```
v = Range("J2:J3")
```

'clear existing filters

```
pf.ClearAllFilters
```

```
'apply filter to pivot table
With pf
For i = 1 To pf.PivotItems.Count
j = 1
Do While j <= UBound(v, 1) - LBound(v, 1) + 1
If pf.PivotItems(i).Name = v(j, 1) Then
pf.PivotItems(pf.PivotItems(i).Name).Visible = True
Exit Do
Else
pf.PivotItems(pf.PivotItems(i).Name).Visible = False
End If
j = j + 1
LoopNext i
End With
End Sub
```

This particular macro will filter the pivot table called PivotTable1 to only display rows where the value in the Position column of the pivot table is equal to one of the values in the cell range J2:J3.

Method 3: Clear Filters from Pivot Table

```
Sub ClearPivotTableFilter()
Dim pt As PivotTable
Set pt = ActiveSheet.PivotTables("PivotTable1")
```

pt.ClearAllFilters

End Sub

This particular macro will clear all filters from the pivot table called PivotTable1.

The following examples show how to use each of these methods in practice.

Example 1: Filter Pivot Table Based on One Value

Suppose we have created a pivot table from a dataset in Excel to summarize the points scored by basketball players on various teams and positions:

	A	B	C	D	E	F	G	H	I	J
1	Team	Position	Points		Sum of Points	Team ▼				Position Filter
2	A	Guard	20		Position ▼	A	B	Grand Total		Guard
3	A	Guard	25		Center	19	41	60		
4	A	Forward	31		Forward	45	13	58		
5	A	Forward	14		Guard	45	53	98		
6	A	Center	19		Grand Total	109	107	216		
7	B	Guard	25							
8	B	Guard	28							
9	B	Forward	13							
10	B	Center	19							
11	B	Center	22							
12										
13										
14										
15										
16										
17										
18										
19										
20										

Suppose we would like to filter the pivot table to only show the rows where the value in the Position column is Guard.

We can create the following macro to do so:

```
Sub FilterPivotTable()  
Dim pf As PivotField  
Dim myFilter As String  
Set pf =  
ActiveSheet.PivotTables("PivotTable1").PivotFields("Po  
sition")  
myFilter =  
ActiveWorkbook.Sheets("Sheet1").Range("J2").Value  
pf.PivotFilters.Add2 xlCaptionEquals, , myFilter  
End Sub
```

	A	B	C	D	E	F	G	H	I	J
1	Team	Position	Points		Sum of Points	Team				Position Filter
2	A	Guard	20		Position	A	B	Grand Total		Guard
3	A	Guard	25		Guard	45	53	98		
4	A	Forward	31		Grand Total	45	53	98		
5	A	Forward	14							
6	A	Center	19							
7	B	Guard	25							
8	B	Guard	28							
9	B	Forward	13							
10	B	Center	19							
11	B	Center	22							
12										
13										
14										
15										
16										
17										

The pivot table has been filtered to only show rows where the value in the Position column is Guard.

Example 2: Filter Pivot Table Based on Multiple Values

Suppose we would instead like to filter the pivot table to only show rows where the value in the Position column is Guard or Center.

We can create the following macro to do so:

```
Sub FilterPivotTableMultiple()
```

```
Dim v As Variant
```

```
Dim i As Integer, j As Integer
```

```
Dim pf As PivotField
```

```
Set pf = ActiveSheet.PivotTables("PivotTable1").PivotFields("Position")
```

```
'specify range with values to filter on  
v = Range("J2:J3")
```

```
'clear existing filters  
pf.ClearAllFilters
```

```
'apply filter to pivot table  
With pf  
For i = 1 To pf.PivotItems.Count  
j = 1  
Do While j <= UBound(v, 1) - LBound(v, 1) + 1  
If pf.PivotItems(i).Name = v(j, 1) Then  
pf.PivotItems(pf.PivotItems(i).Name).Visible = True  
Exit Do  
Else  
pf.PivotItems(pf.PivotItems(i).Name).Visible = False  
End If  
j = j + 1  
LoopNext i  
End With  
End Sub
```

When we run this macro, the pivot table is automatically

filtered to only show rows where the value in the Position column is Guard or Center:

	A	B	C	D	E	F	G	H	I	J
1	Team	Position	Points		Sum of Points	Team				Position Filter
2	A	Guard	20		Position	A	B	Grand Total		Guard
3	A	Guard	25		Center	19	41	60		Center
4	A	Forward	31		Guard	45	53	98		
5	A	Forward	14		Grand Total	64	94	158		
6	A	Center	19							
7	B	Guard	25							
8	B	Guard	28							
9	B	Forward	13							
10	B	Center	19							
11	B	Center	22							
12										
13										
14										
15										
16										
17										
18										

The pivot table has been filtered to only show rows where the value in the Position column is Guard or Center.