

How can we refresh pivot tables in VBA? Can you provide some examples?

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Pivot tables are a powerful tool in Microsoft Excel that allows users to summarize and analyze large amounts of data. However, as the underlying data changes, it is necessary to refresh pivot tables to reflect the updated information. This can be done manually, but in cases where there are multiple pivot tables or frequent updates, it is more efficient to use VBA code. This involves using the "RefreshTable" method to update the pivot table's data source and "Update" method to recalculate and display the new data. Examples of VBA code for refreshing pivot tables include using a button or a timer to automatically refresh the tables at specified intervals, or using a macro to refresh all pivot tables in a workbook. These methods provide a streamlined and efficient way to keep pivot tables up to date with the latest data changes.

Refresh Pivot Tables in VBA (With Examples)

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

Method 1: Refresh One Specific Pivot Table

```
Sub RefreshPivotTable()
```

```
Sheet1.PivotTables("PivotTable1").RefreshTable
```

```
End Sub
```

This particular macro will refresh only the values in the pivot table called PivotTable1 in Sheet1 of the workbook.

Method 2: Refresh All Pivot Tables in Workbook

```
Sub RefreshAllPivotTables()
```

```
ThisWorkbook.RefreshAll
```

End Sub

This particular macro will refresh the values in every pivot table in the entire workbook.

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

Example 1: Refresh One Specific Pivot Table

Suppose we have created one pivot table from a dataset in Excel:

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Team	Position	Points	Sum of Points	Column Labels	Row Labels	Forward	Guard	Grand Total	
A	Guard	20			A		64	45	109
A	Forward	31			B		41	66	107
A	Forward	14			Grand Total		105	111	216
A	Forward	19							
B	Guard	25							
B	Guard	28							
B	Guard	13							
B	Forward	19							
B	Forward	22							

When we are on the PivotTable Analyze tab along the top ribbon in Excel, we can see in the top left corner that this pivot table is named PivotTable1.

Suppose we change the last value in the points column of the dataset from 22 to 200:

	A	B	C	D	E	F	G	H
1	Team	Position	Points		Sum of Points	Column Labels ▼		
2	A	Guard	20		Row Labels ▼	Forward	Guard	Grand Total
3	A	Guard	25		A		64	45
4	A	Forward	31		B		41	66
5	A	Forward	14		Grand Total		105	111
6	A	Forward	19					
7	B	Guard	25					
8	B	Guard	28					
9	B	Guard	13					
10	B	Forward	19					
11	B	Forward	200					
12								
13								
14								
15								
16								
17								
18								

We can create the following macro to refresh the values in this specific pivot table:

```
Sub RefreshPivotTable()
```

```
Sheet1.PivotTables("PivotTable1").RefreshTable
```

```
End Sub
```

When we run this macro, the values in the pivot table are automatically updated:

	A	B	C	D	E	F	G	H
1	Team	Position	Points		Sum of Points	Column Labels ▼		
2	A	Guard	20		Row Labels ▼	Forward	Guard	Grand Total
3	A	Guard	25		A	64	45	109
4	A	Forward	31		B	219	66	285
5	A	Forward	14		Grand Total	283	111	394
6	A	Forward	19					
7	B	Guard	25					
8	B	Guard	28					
9	B	Guard	13					
10	B	Forward	19					
11	B	Forward	200					
12								
13								
14								
15								
16								
17								
18								

Example 2: Refresh All Pivot Tables in Workbook

Suppose we have created two pivot tables from a dataset in Excel:

	A	B	C	D	E	F	G	H
1	Team	Position	Points		Sum of Points	Column Labels ▼		
2	A	Guard	20		Row Labels ▼	Forward	Guard	Grand Total
3	A	Guard	25		A		64	45
4	A	Forward	31		B		41	66
5	A	Forward	14		Grand Total		105	111
6	A	Forward	19					
7	B	Guard	25					
8	B	Guard	28		Average of Points	Column Labels ▼		
9	B	Guard	13		Row Labels ▼	Forward	Guard	Grand Total
10	B	Forward	19		A		21.33333333	22.5
11	B	Forward	22		B		20.5	22
12					Grand Total		21	22.2
13								
14								
15								
16								
17								
18								

The first pivot table shows the sum of points by team and position.

The second pivot table shows the average of points by team and position.

Suppose we change the last value in the points column of the dataset from 22 to 200.

We can create the following macro to refresh the values in all pivot tables in the entire workbook:

Sub RefreshAllPivotTables()

ThisWorkbook.RefreshAll

End Sub

When we run this macro, the values in both pivot tables are automatically updated:

	A	B	C	D	E	F	G	H
1	Team	Position	Points		Sum of Points	Column Labels ▼		
2	A	Guard	20		Row Labels ▼	Forward	Guard	Grand Total
3	A	Guard	25		A	64	45	109
4	A	Forward	31		B	219	66	285
5	A	Forward	14		Grand Total	283	111	394
6	A	Forward	19					
7	B	Guard	25					
8	B	Guard	28		Average of Points	Column Labels ▼		
9	B	Guard	13		Row Labels ▼	Forward	Guard	Grand Total
10	B	Forward	19		A	21.33333333	22.5	21.8
11	B	Forward	200		B	109.5	22	57
12					Grand Total	56.6	22.2	39.4
13								
14								
15								
16								
17								
18								
19								