

How can I sum values in VBA based on a specific condition between two dates?

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In VBA, it is possible to sum values based on a specific condition between two dates by using the SUMIF function. This function allows the user to specify a range of cells, a condition, and a criteria for the condition to be met. By including the two dates as the criteria, the function will only sum the values that fall within that date range. This feature is useful for data analysis and financial calculations, as it allows for the precise selection and summation of data that meets a specific time frame. By mastering the use of the SUMIF function, users can efficiently and accurately sum values in VBA based on a specific condition between two dates.

VBA: Sum If Between Two Dates

You can use the following syntax in VBA to calculate the sum if cells are between two dates:

```
Sub SumifBetweenDates()  
Range("E3") =  
WorksheetFunction.Sumifs(Range("B2:B9"),  
Range("A2:A9"), ">=" & , _  
Range("A2:A9"), "<=" & )  
End Sub
```

This particular example will sum the values in the range B2:B9 only where the date in the range A2:A9 is between the start date in cell E1 and the end date in cell E2.

The sum will then be shown in cell E3.

The following example shows how to use this syntax in

practice.

Example: How to Sum If Between Two Dates in VBA

Suppose we would have the following dataset that contains information about the total products sold on various dates at some retail store:

	A	B	C	D	E	F
1	Date	Sales		Start Date	1/7/2023	
2	1/2/2023	4		End Date	1/26/2023	
3	1/5/2023	9		Sum of Sales		
4	1/6/2023	9				
5	1/13/2023	3				
6	1/15/2023	7				
7	1/25/2023	6				
8	1/27/2023	10				
9	2/19/2023	12				
10						
11						
12						
13						
14						
15						
16						
17						
18						

Suppose we would like to calculate the sum of sales only for the dates between 1/7/2023 and 1/26/2023.

We can create the following macro to do so:

Sub SumifBetweenDates()

```
Range("E3") =  
WorksheetFunction.Sumifs(Range("B2:B9"),  
Range("A2:A9"), ">=" & , _  
Range("A2:A9"), "<=" & )  
End Sub
```

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

	A	B	C	D	E	F
1	Date	Sales		Start Date	1/7/2023	
2	1/2/2023	4		End Date	1/26/2023	
3	1/5/2023	9		Sum of Sales	16	
4	1/6/2023	9				
5	1/13/2023	3				
6	1/15/2023	7				
7	1/25/2023	6				
8	1/27/2023	10				
9	2/19/2023	12				
10						
11						
12						
13						
14						
15						
16						
17						
18						

Notice that cell E3 contains a value of 16.

This represents the sum of values in the sales column where the date is between 1/7/2023 and 1/26/2023.

We can verify that this is correct by manually calculating the sum of values in the Sales column where the corresponding value in the Date column is between 1/7/2023 and 1/26/2023:

Sum of Sales: $3 + 7 + 6 = 16$.

Note that if you change the start and end date values in cells E1 and E2, respectively, and run the macro again that it will calculate the sum of sales for the new dates.

Note: It is assumed that the values in the date column are already formatted as dates in Excel.