

How can I calculate the cumulative sum for each group in Excel?

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Calculating the cumulative sum for each group in Excel allows for the efficient and accurate tracking of total values for a given set of data. This process involves adding up the values in a column or row, starting from the first value and continuously adding the next value to the previous sum. By doing this for each group, the cumulative sum for that group is obtained. This method is particularly useful when analyzing data in categories or groups, as it provides a clear understanding of the overall trend and total values for each group. Excel offers various functions and formulas, such as SUM and SUMIF, that can be used to easily calculate the cumulative sum for each group in a spreadsheet. By using these tools, one can quickly and accurately obtain the cumulative sum for any given data set.

Excel: Calculate Cumulative Sum by Group

You can use the following formula to calculate a cumulative sum by group in Excel:

=SUMIF(A\$2:A2,A2,B\$2:B2)

This particular example assumes that the group values are in column A and the values to sum are in column B.

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

Example: Calculate Cumulative Sum by Group in Excel

Suppose we have the following dataset that shows the points scored by basketball players on various teams:

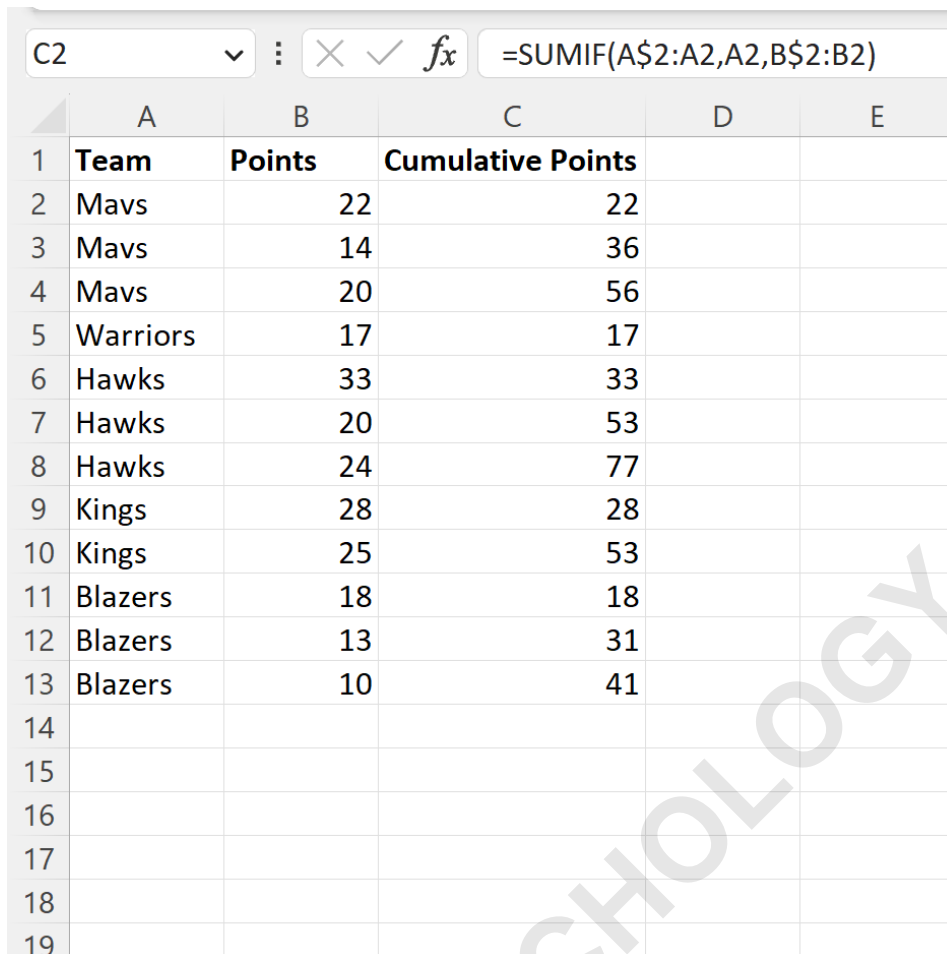
	A	B	C	D	E
1	Team	Points			
2	Mavs	22			
3	Mavs	14			
4	Mavs	20			
5	Warriors	17			
6	Hawks	33			
7	Hawks	20			
8	Hawks	24			
9	Kings	28			
10	Kings	25			
11	Blazers	18			
12	Blazers	13			
13	Blazers	10			
14					
15					
16					
17					
18					

Suppose we would like to calculate the cumulative points for each team.

We can type the following formula into cell C2 to do so:

`=SUMIF(A$2:A2,A2,B$2:B2)`

We can then click and drag this formula down to each remaining cell in column C:



	A	B	C	D	E
1	Team	Points	Cumulative Points		
2	Mavs	22	22		
3	Mavs	14	36		
4	Mavs	20	56		
5	Warriors	17	17		
6	Hawks	33	33		
7	Hawks	20	53		
8	Hawks	24	77		
9	Kings	28	28		
10	Kings	25	53		
11	Blazers	18	18		
12	Blazers	13	31		
13	Blazers	10	41		
14					
15					
16					
17					
18					
19					

Column C displays the cumulative points values for each team.

For example:

**The cumulative points for Mavs is: 22, 36, 56
The cumulative points for Warriors is: 17
The cumulative points for Hawks is: 33, 53, 77
The cumulative points for Kings is: 28, 53
The cumulative points for Blazers is: 18, 31, 41**

Notice that the values in the cumulative sum column restart for each new team name.

Note: This formula works even if each of the team names are not grouped together.

The following tutorials explain how to perform other common operations in Excel:

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