How can I sum values by category in Excel?

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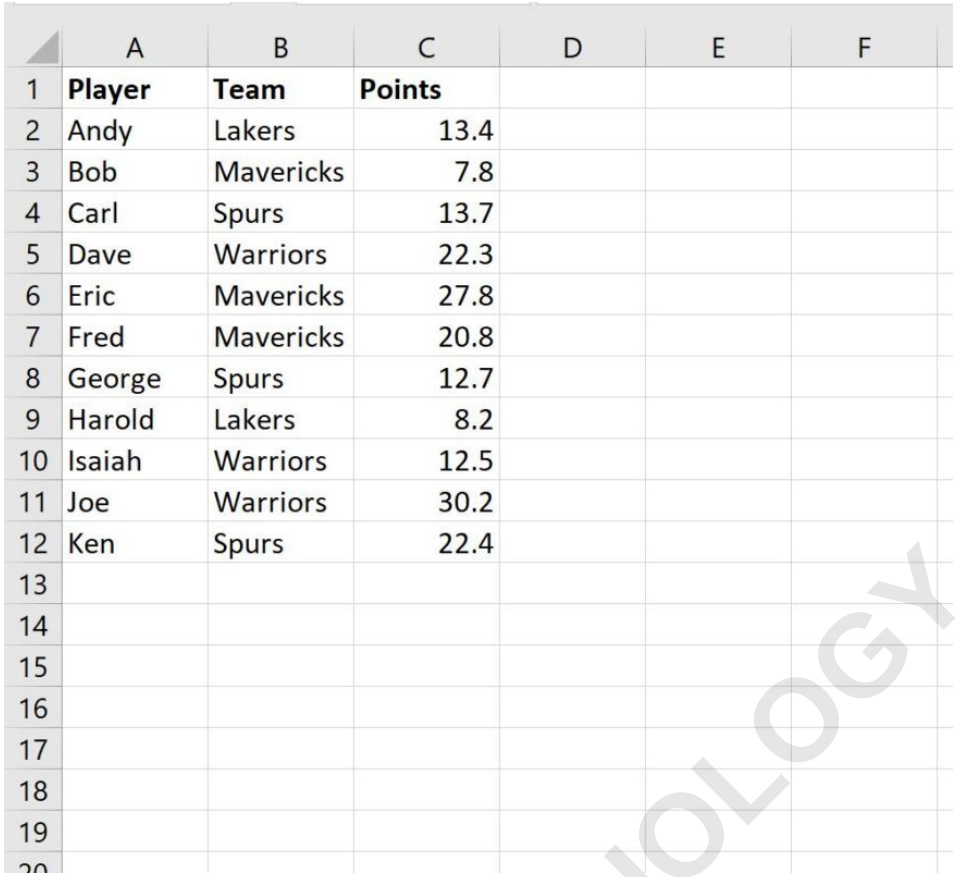
Summing values by category in Excel is a useful function that allows users to quickly and accurately calculate the total amount of data within a specific category. This can be achieved by using the SUMIF or SUMIFS function, which allows users to specify a certain criteria or conditions to be met in order for the values to be included in the calculation. By organizing data into categories and using these functions, users can efficiently analyze and understand the distribution of their data. This feature is particularly helpful in financial and statistical analysis, as well as in creating charts and graphs to visually represent the data.

Sum Values by Category in Excel

Often you may want to sum the values of some dataset in Excel based on a category or group.

For example, suppose we have the following dataset and we'd like to sum the total "points" by team:

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	A	B	C	D	E	F
1	**Player**	**Team**	**Points**			
2	Andy	Lakers	13.4			
3	Bob	Mavericks	7.8			
4	Carl	Spurs	13.7			
5	Dave	Warriors	22.3			
6	Eric	Mavericks	27.8			
7	Fred	Mavericks	20.8			
8	George	Spurs	12.7			
9	Harold	Lakers	8.2			
10	Isaiah	Warriors	12.5			
11	Joe	Warriors	30.2			
12	Ken	Spurs	22.4			
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The following step-by-step example shows how to do so.

Step 1: Enter the Data

First, enter the data values into Excel:

	A	B	C	D	E	F
1	**Player**	**Team**	**Points**			
2	Andy	Lakers	13.4			
3	Bob	Mavericks	7.8			
4	Carl	Spurs	13.7			
5	Dave	Warriors	22.3			
6	Eric	Mavericks	27.8			
7	Fred	Mavericks	20.8			
8	George	Spurs	12.7			
9	Harold	Lakers	8.2			
10	Isaiah	Warriors	12.5			
11	Joe	Warriors	30.2			
12	Ken	Spurs	22.4			
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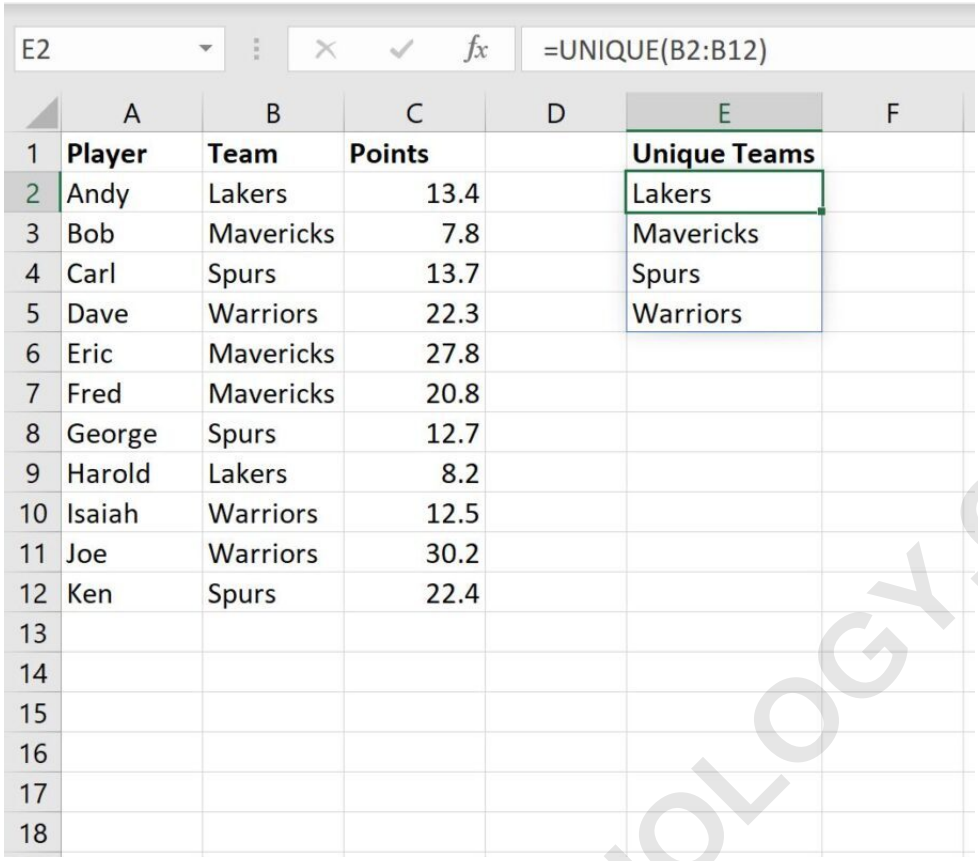
Step 2: Find the Unique Categories

Next, we need to use the =UNIQUE() function to produce a list of unique values in a certain range.

In our example, we'll type the following formula in cell E2:

=UNIQUE(B2:B12)

This will produce a list of unique teams:



	A	B	C	D	E	F
1	**Player**	**Team**	**Points**		**Unique Teams**	
2	Andy	Lakers	13.4		Lakers	
3	Bob	Mavericks	7.8		Mavericks	
4	Carl	Spurs	13.7		Spurs	
5	Dave	Warriors	22.3		Warriors	
6	Eric	Mavericks	27.8			
7	Fred	Mavericks	20.8			
8	George	Spurs	12.7			
9	Harold	Lakers	8.2			
10	Isaiah	Warriors	12.5			
11	Joe	Warriors	30.2			
12	Ken	Spurs	22.4			
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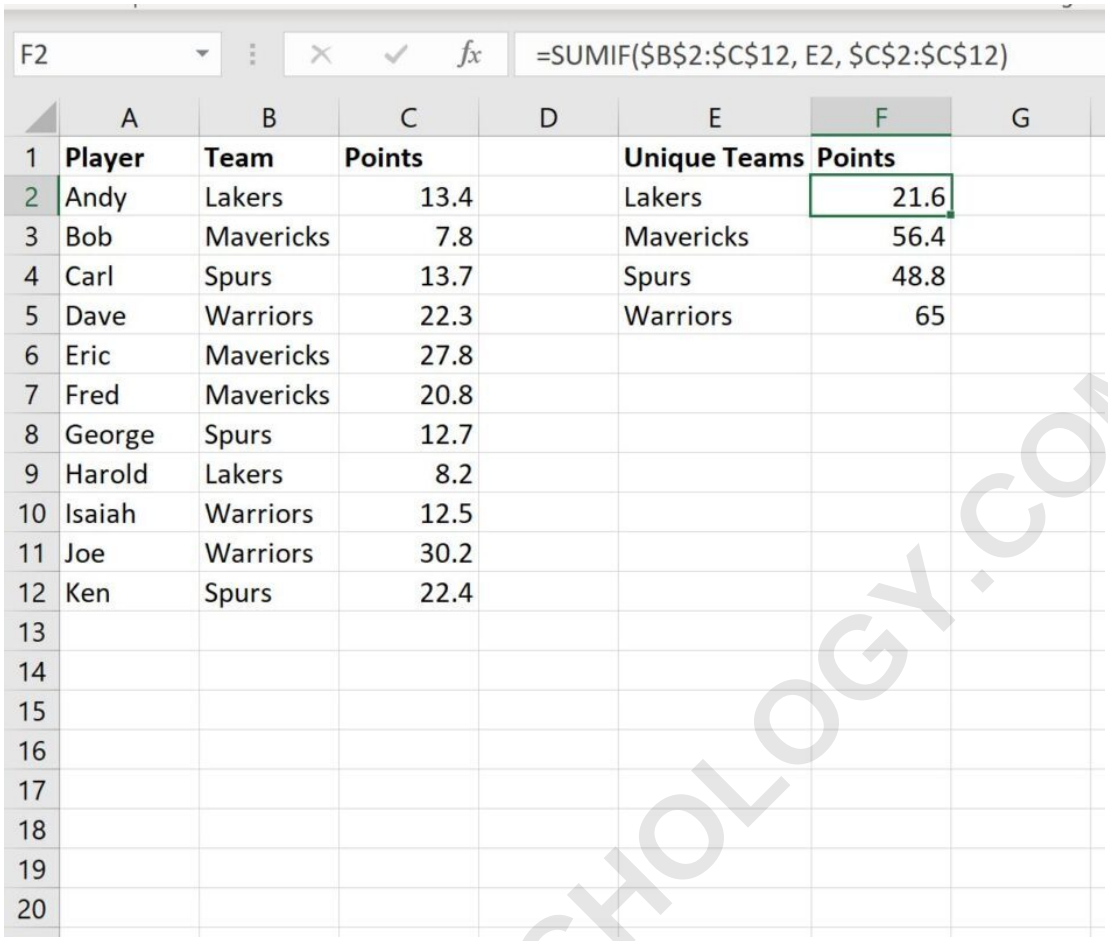
Step 3: Find the Sum by Category

Next, we will use the SUMIF(range, criterion, sum_range) function to find the sum of the points scored by each team.

In our example, we'll type the following formula in cell F2:

=SUMIF($B$2:$C$12, E2, $C$2:$C$12)

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F2 =SUMIF($B$2:$C$12, E2, $C$2:$C$12)

	A	B	C	D	E	F	G
1	**Player**	**Team**	**Points**		**Unique Teams**	**Points**	
2	Andy	Lakers	13.4		Lakers	21.6	
3	Bob	Mavericks	7.8		Mavericks	56.4	
4	Carl	Spurs	13.7		Spurs	48.8	
5	Dave	Warriors	22.3		Warriors	65	
6	Eric	Mavericks	27.8				
7	Fred	Mavericks	20.8				
8	George	Spurs	12.7				
9	Harold	Lakers	8.2				
10	Isaiah	Warriors	12.5				
11	Joe	Warriors	30.2				
12	Ken	Spurs	22.4				
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This tells us:

The total points scored by players on the Lakers is 21.6.The total points scored by players on the Mavericks is 56.4.The total points scored by players on the Spurs is 48.8.The total points scored by players on the Warriors is 65.

Additional Resources

The following tutorials explain how to perform other

common tasks in Excel:

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