

How can I count unique values based on multiple criteria in Excel?

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The process of counting unique values based on multiple criteria in Excel involves using the COUNTIFS function. This function allows for the selection of specific criteria that must be met in order for a value to be counted. By specifying the criteria for each column, the COUNTIFS function can accurately determine the number of unique values that meet all of the specified criteria. This method is useful for analyzing and organizing data in a spreadsheet, as it provides a way to easily identify and track specific data points that meet certain conditions.

Excel: Count Unique Values Based on Multiple Criteria

You can use the following basic formula in Excel to count unique values based on multiple criteria:

```
=SUM(--  
(LEN(UNIQUE(FILTER(A:A,(Criteria1)*(Criteria2)*(Criteria3),""))))>0))
```

This particular formula counts the number of unique values in column A based on three criteria being met.

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

Example: Count Unique Values Based on Multiple Criteria in Excel

Suppose we have the following dataset in Excel that shows the conference and points scored for various basketball players:

	A	B	C	D	E	F
1	Name	Conference	Points			
2	John	East	20			
3	Bob	West	7			
4	Greg	West	22			
5	Sean	West	24			
6	Jake	East	31			
7	John	East	19			
8	Martin	West	16			
9	Max	East	22			
10	Bob	East	14			
11	Greg	West	23			
12	Dan	East	8			
13	Austin	East	36			
14	Mike	West	30			
15						
16						
17						
18						
19						
20						
21						

Now suppose we'd like to count the number of unique player names who meet the following criteria:

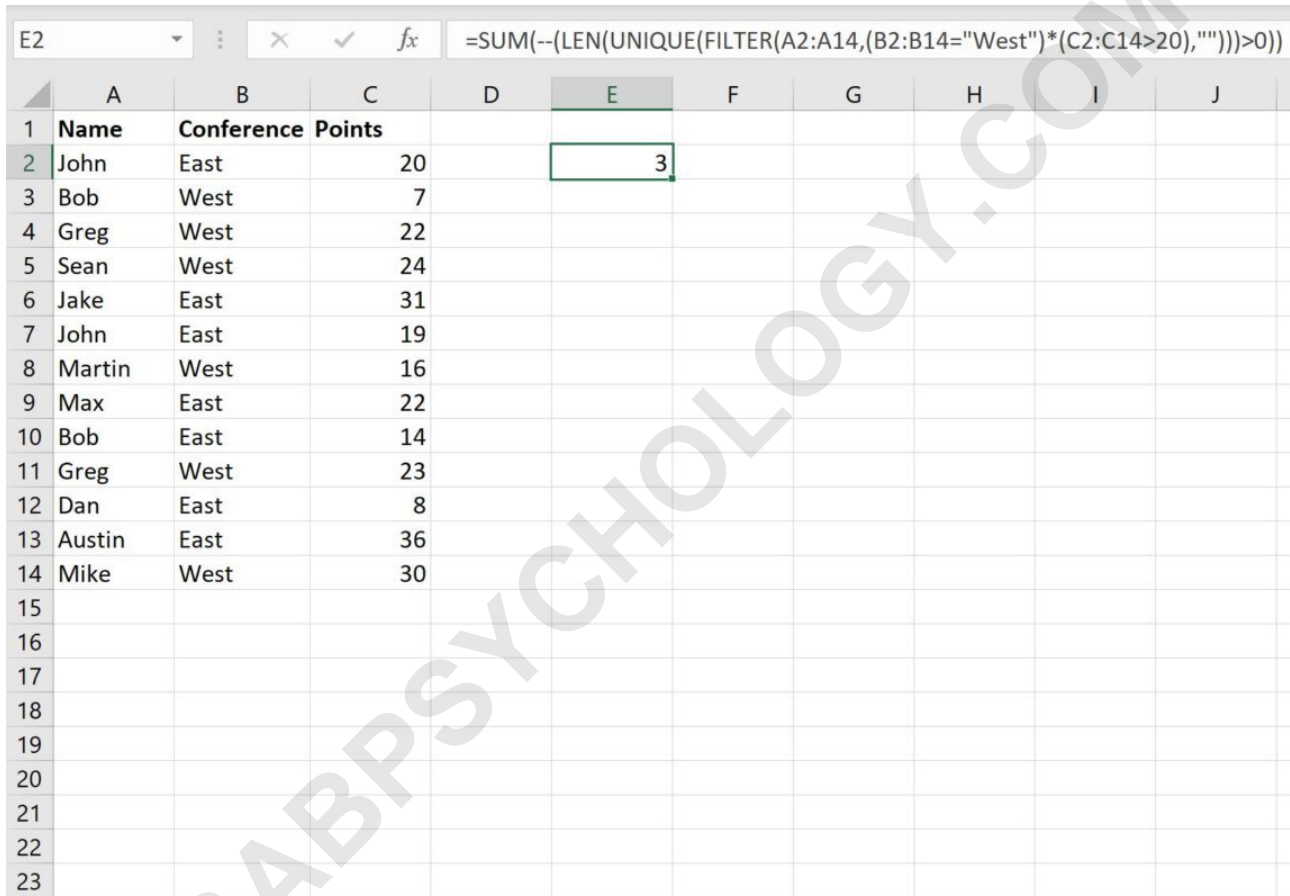
The player is in the West conference. The player has greater than 20 points.

We can use the following formula to count the number of unique player names who meet this criteria:

=SUM(--
(LEN(UNIQUE(FILTER(A2:A14,(B2:B14="West"))*(C2:C14

>20),""))>0))

We can type this formula into cell E2 of our spreadsheet:



	A	B	C	D	E	F	G	H	I	J
1	Name	Conference	Points							
2	John	East	20		3					
3	Bob	West	7							
4	Greg	West	22							
5	Sean	West	24							
6	Jake	East	31							
7	John	East	19							
8	Martin	West	16							
9	Max	East	22							
10	Bob	East	14							
11	Greg	West	23							
12	Dan	East	8							
13	Austin	East	36							
14	Mike	West	30							
15										
16										
17										
18										
19										
20										
21										
22										
23										

From the output we can see there are 3 unique player names that are in the West conference and have more than 20 points.

We can verify this is correct by manually identifying each player who meets both criteria:

	A	B	C	D	E	F
1	Name	Conference	Points			
2	John	East	20		3	
3	Bob	West	7			
4	Greg	West	22			
5	Sean	West	24			
6	Jake	East	31			
7	John	East	19			
8	Martin	West	16			
9	Max	East	22			
10	Bob	East	14			
11	Greg	West	23			
12	Dan	East	8			
13	Austin	East	36			
14	Mike	West	30			
15						
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Out of the four players who meet both criteria, there are three unique player names:

GregSeanMike

Note that in this example we performed a count unique using two criteria, but we can use similar syntax to use as many criteria as we'd like.

Additional Resources

The following tutorials explain how to perform other

common tasks in Excel:

ARABPSYCHOLOGY.COM