

How do you perform a SUMIF function in R?

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The SUMIF function in R is a useful tool for summing values in a specific range or criteria. To perform a SUMIF function in R, you first need to specify the range of cells you want to sum and the criteria that you want to use. This can be done by using the "sumif" command followed by the range and criteria arguments. The function will then calculate the sum of all the cells that meet the specified criteria. This function is particularly helpful for analyzing large datasets and can be easily customized to fit different needs.

Perform a SUMIF Function in R

Often you may be interested in *only* finding the sum of rows in an R data frame that meet some criteria. Fortunately this is easy to do using the following basic syntax:

```
aggregate(col_to_sum ~ col_to_group_by, data=df, sum)
```

The following examples show how to use this syntax on the following data frame:

```
#create data frame
```

```
df <- data.frame(team=c('a', 'a', 'b', 'b', 'b', 'c', 'c'),  
pts=c(5, 8, 14, 18, 5, 7, 7),  
rebs=c(8, 8, 9, 3, 8, 7, 4),  
blocks=c(1, 2, 2, 1, 0, 4, 1))
```

```
#view data frame
```

df

team pts rebs blocks

1 a 5 8 1

2 a 8 8 2

3 b 14 9 2

4 b 18 3 1

5 b 5 8 0

6 c 7 7 4

7 c 7 4 1

Example 1: Perform a SUMIF Function on One Column

The following code shows how to find the sum of points for each team:

```
aggregate(pts ~ team, data=df, sum)
```

team pts

1 a 13

2 b 37

3 c 14

Example 2: Perform a SUMIF Function on Multiple Columns

The following code shows how to find the sum of points

and rebounds for each team:

```
aggregate(cbind(pts, rebs) ~ team, data=df, sum)
```

```
team pts rebs
```

```
1 a 13 16
```

```
2 b 37 20
```

```
3 c 14 11
```

Example 3: Perform a SUMIF Function on All Columns

The following code shows how to find the sum of all columns in the data frame for each team:

```
aggregate(. ~ team, data=df, sum)
```

```
team pts rebs blocks
```

```
1 a 13 16 3
```

```
2 b 37 20 3
```

```
3 c 14 11 5
```

Note: The period (.) is used in R to represent "all" columns.