

How can a total row be added to a Pandas DataFrame?

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A total row can be added to a Pandas DataFrame by using the "sum" function and specifying the axis as "index". This will add a new row at the bottom of the DataFrame, displaying the sum of each column's values. This can be useful for calculating overall totals or subtotals within a DataFrame. Additionally, the "append" function can be used to add a new row to the DataFrame, which can then be filled with the desired values. This allows for more flexibility in creating custom total rows for specific needs.

Add a Total Row to Pandas DataFrame

You can use the following basic syntax to add a 'total' row to the bottom of a pandas DataFrame:

```
df.loc= df.sum()
```

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

Example: Add a Total Row to Pandas DataFrame

Suppose we have the following pandas DataFrame:

```
import pandas as pd

#create DataFrame
df = pd.DataFrame({'team': ,
'assists': ,
'rebounds': ,
'blocks': })
```

```
#view DataFrame
```

```
print(df)
```

```
team assists rebounds blocks
```

```
0 A 5 11 6
```

```
1 B 7 8 6
```

```
2 C 7 10 3
```

```
3 D 9 6 2
```

```
4 E 12 6 7
```

```
5 F 9 5 9
```

We can use the following syntax to add a 'total' row at the bottom of the DataFrame that shows the sum of values in each column:

```
#add total row
```

```
df.loc= df.sum()
```

```
#view updated DataFrame
```

```
print(df)
```

```
team assists rebounds blocks
```

```
0 A 5 11 6
```

```
1 B 7 8 6
```

```
2 C 7 10 3
```

```
3 D 9 6 2
4 E 12 6 7
5 F 9 5 9
total ABCDEF 49 46 33
```

A new row has been added to the bottom of the DataFrame that shows the sum of values in each column.

Note that for character columns, the 'total' is simply the concatenation of every character in the column.

If you'd like, you can set the 'total' value in the team column to simply be blank:

```
#set last value in team column to be blank
df.loc, 'team'] = ""

#view updated DataFrame
print(df)
```

```
team assists rebounds blocks
0 A 5 11 6
1 B 7 8 6
2 C 7 10 3
```

```
3 D 9 6 2
4 E 12 6 7
5 F 9 5 9
total 49 46 33
```

The last value in the team column is now blank, as opposed to being a concatenation of every character in the column.

The following tutorials explain how to perform other common tasks in pandas: