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Group by Sum as new column name

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I am doing function where I am grouping by ID and summing the \$ value associated with those IDs with this code for python:

```
df = df.groupby([' Id'], as_index=False, sort=False)[["Amount"]].sum();
```

but it doesnt rename the column. As such I tried doing this :

```
`df = df.groupby([' Id'], as_index=False, sort=False)[["Amount"]].sum();.reset_index(name ='Total Amount')
```

but it gave me error that TypeError: reset_index() got an unexpected keyword argument 'name'

So I tried doing this finally following this post:[Python Pandas Create New Column with Groupby\(\).Sum\(\)](#)

```
df = df.groupby(['Id'])[["Amount"]].transform('sum');
```

but it still didnt work.

What am I doing wrong?

[python](#)[pandas](#)

asked Jul 16 '17 at 4:29



Adam

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1 Answer

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I think you need remove parameter `as_index=False` and use [Series.reset_index](#) , because this parameter return `df` and then [DataFrame.reset_index](#) with parameter `name` failed:

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Or rename column first:

```
d = {'Amount': 'Total Amount'}
df = df.rename(columns=d).groupby(
    Amount").sum()
```

Sample:

```
df = pd.DataFrame({'Id': [1, 2, 2], 'Amount': [10, 30, 50]})
print(df)
   Amount  Id
0      10   1
1      30   2
2      50   2
```

```
df1 = df.groupby('Id', sort=False)
df1 = df1.agg({'Amount': 'sum'})
print(df1)
   Id  Total Amount
0   1         10
1   2         80
```

```
d = {'Amount': 'Total Amount'}
df1 = df.rename(columns=d).groupby(
    Amount").sum()
print(df1)
   Id  Total Amount
0   1         10
1   2         80
```

But if need new column with `sum` in original `df` use [transform](#) and assign output to new column:

```
df['Total Amount'] = df.groupby('Id')['Amount'].transform('sum')
print(df)
   Amount  Id  Total Amount
0      10   1         10
1      30   2         80
2      50   2         80
```

edited Jul 16 '17 at 4:51

answered Jul 16 '17 at 4:31



jezrael

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