Create subtotals for rows in pivot table for different columns



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I am creating a pivot table with Pandas but got stuck at the subtotals for rows within different columns (under the same Values) for a while, I've done some research on stackoverflow such as Pandas Pivot tables row subtotals and this Subtotals for Pandas pivot table index and column (actually this one is close to but some what also different from my case) but didn't find right hint for my case, so please for this topic, thanks.



Here I will provide a simplified DataFrame (original one is too big to show here, so their values really do not matter, the format is what I am looking for) of my case and the code I wrote to get my pivot table.

The df output looks like:

```
Co
  Op
       Qt Stk Tm
   NN
       Α
           100 1.1 07-01-2018
1
   NN
           200 1.2 08-01-2018
2
   NN
       Δ
           300 1.3 09-01-2018
   NN B
           100 1.1 07-01-2018
   NN A
           200 1.2 08-01-2018
           300 1.3 09-01-2018
```

Then I convert above df to my pivot table by:

```
df['Qt'] = df['Qt'].apply(pd.to_numeric)
df['Stk']=df['Stk'].apply(pd.to_numeric)
df['Co'] = df['Co'].astype(str)
tb=pd.pivot_table(df,index=["Tm"],columns=["Co","Op","Stk"],aggfunc=np.sum,values=
['Qt'], fill_value=0, margins=True, margins_name='All')
tb
```

The generated pivot table looks like:

```
Qt
Co NN All
Op A B
```

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```
09-01-2018 0 0 300 0 0 300 600
All 100 200 300 100 200 300 1200
```

The format which I really expect is:

Со	Qt NN								A11
Ор	Α			ATotal	В			BTotal	
Stk	1.1	1.2	1.3		1.1	1.2	1.3		
Tm									
07-01-2018	100	0	0	100	100	0	0	100	200
08-01-2018	0	200	0	200	0	200	0	200	400
09-01-2018	0	0	300	300	0	0	300	300	600
All	100	200	300	600	100	200	300	600	1200

I was trying to create this exact same format for a while and still can't get the same one (I tried something like creating two separate A and B pivot tables and union them together, but it will mess with the All margins). So help is really needed here. p.s. I am still new to stackoverflow community, so please pardon if my question is missing some aspects, thank you.

python pandas pivot-table

asked Jun 6 '18 at 22:27



1 Answer



pivot table doesn't support it, but you can compute it yourself and concatenate it later:



tb.groupby(level='Op', axis=1).sum().add_suffix('Total')



Ор	IOTAL	Alotal	віотат
Tm			
07-01-2018	200	100	100
08-01-2018	400	200	200
09-01-2018	600	300	300
A11	1200	600	600

answered Jun 6 '18 at 22:40



Thanks for the answer, I actually got sth similar as yours by concatenate two pivot tables (two pivot table with different columns).... So I'm exploring if there's any option to incorporate them inside the pivot table with the exactly same format (I am also new to Pandas though)... – Gin Jun 6 '18 at 23:07

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@Jay Can't have the cake and eat it too my friend. - cs95 Jun 6 '18 at 23:12

in Excel I know we can create a sub pivot table inside a major pivot table which is what I would expect, so you wouldn't believe the Pandas can do something similar? Thanks. — Gin Jun 6 '18 at 23:16

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