

# Cheatography

## Pandas Python Cheat Sheet by robeyjorgensen via cheatography.com/127240/cs/24745/

### pd.concat()

```
pd.concat([-  
df1,df2])           Stacks df1 and  
                           df2  
  
pd.concat([-  
df1,df2],keys=      Creates a label  
(key) for each df  
['1','2'])  
  
pd.concat([-  
df1,df2],  
join='inner')        Default join is "  
                           inner join"  
  
df1.append(df2)      Does the same  
                           thing as pd.co-  
                           ncat()
```

### Multi-indexing

```
pd.MultiIndex.from_arrays([['-  
a','a','b','b'],[1,2,1,2]])  
  
pd.MultiIndex.from_tuples([('a',1),('a',2),('b',1),('b',2)])  
  
pd.MultiIndex.from_product-  
([[['a','b'],[1,2]]])  
  
df.sort_index()  
               Orders index in  
               ascending order  
  
df.reset_index(name='')  
               Turn the index labels  
               into cols
```

All three methods of `pd.MultiIndex` give:

```
MultiIndex(  
[('a', 1),('a', 2),('b', 1),  
 ('b', 2)]  
)
```

### Joins

```
pd.merge(df1,df2)  
  
pd.merge(df-  
1,df2,lef_t_o-  
n="a",right-  
_on="b")  
  
pd.merge(df-  
1,df2,how='i-  
nner')  
  
pd.merge(df-  
1,df2, on="-  
a",suffixes=  
["_L","_R"])
```

### Aggregation and Grouping

```
df.mean(axis='c-  
olumns')          Calculates the  
                           mean across  
                           cols  
  
df.groupby('ke-  
y').sum()          Gives sum for  
                           each key  
  
df.groupby('ke-  
y')['a'].sum()    Gives sum for all  
                           rows in col "a"  
  
df.groupby('ke-  
y')['a'].descri-  
be()  
  
df.groupby('ke-  
y').transform(l-  
ambda x:x-x.me-  
an())  
  
df.groupby('ke-  
y').apply(func-  
tion)
```

### Pivot Tables

```
df.pivot_table(in-  
dex='a',columns-  
='col',aggfu-  
nc='sum')  
  
df.pivot_table(in-  
dex='a',columns-  
='col',aggfu-  
nc='sum').plot()
```

Pivot tables do the same thing as using `groupby` with aggregation functions. The main difference is that they are a cleaner way of using multiple aggregation functions at once for a single grouping



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