communicate_quiz

October 17, 2017

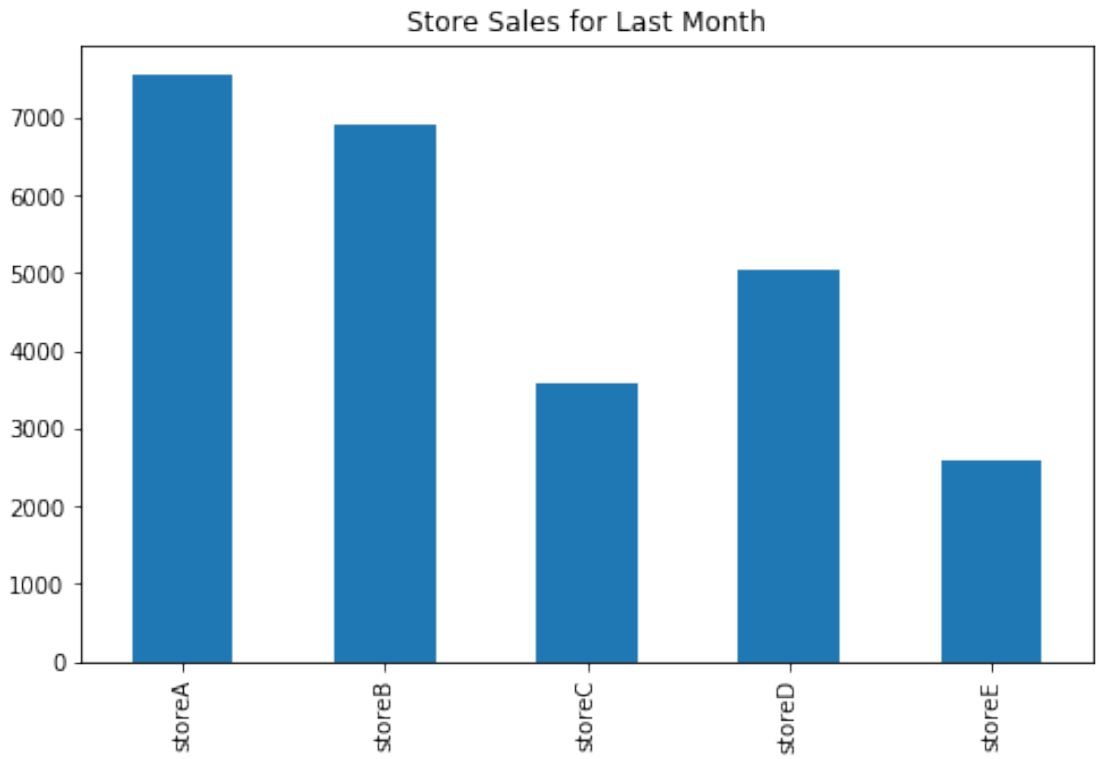
In [35]:
```
# imports and load data
import pandas as pd
% matplotlib inline
df = pd.read_csv('store_data.csv')
```

In [36]:
```
# explore data
#df.head()
df.describe()
```

Out[36]:

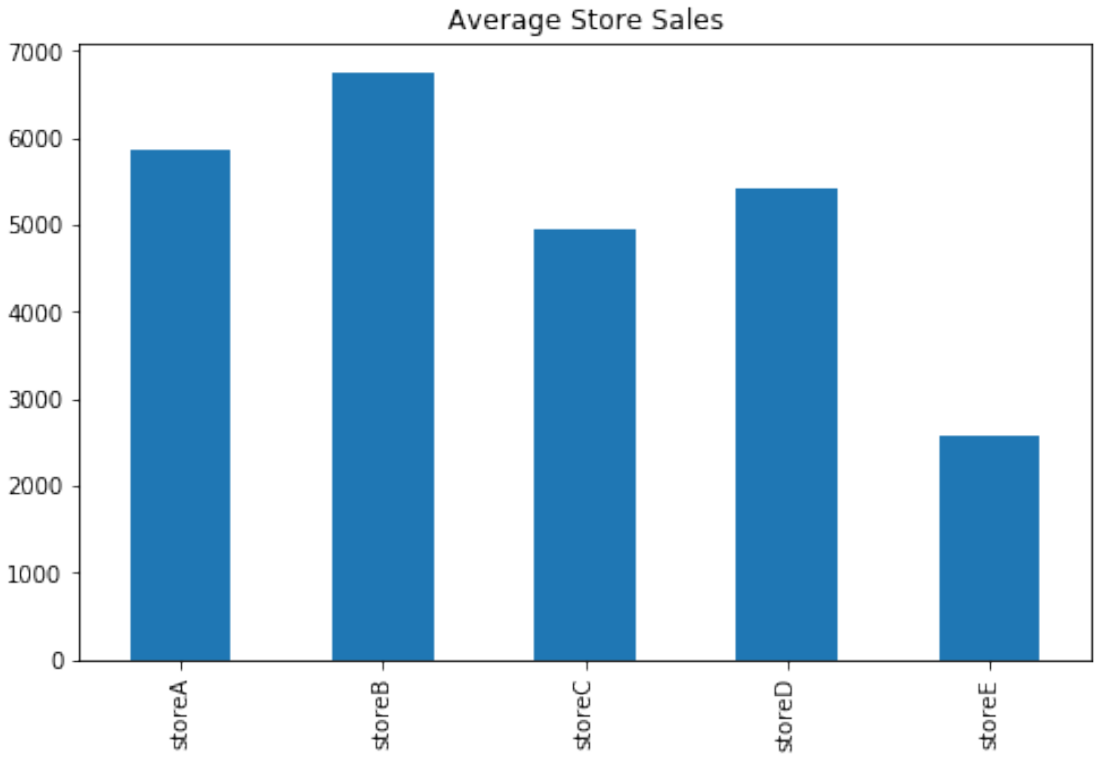
	storeA	storeB	storeC	storeD	storeE
count	200.000000	200.000000	200.000000	200.000000	200.000000
mean	5865.480000	6756.710000	4942.105000	5431.405000	2580.025000
std	2958.230318	3601.339489	1325.407768	1183.111323	1725.651381
min	137.000000	14.000000	927.000000	2276.000000	39.000000
25%	3812.250000	3884.500000	4053.500000	4717.000000	1235.000000
50%	5713.500000	6771.000000	4962.500000	5382.000000	2522.000000
75%	7662.250000	9350.500000	5801.750000	6243.750000	3574.250000
max	14403.000000	15841.000000	8293.000000	8190.000000	7553.000000

In [53]:
```
# sales for the last month
df.iloc[-1, 1:].plot(kind='bar', figsize=(8,5),
                     title='Store Sales for Last Month');
```



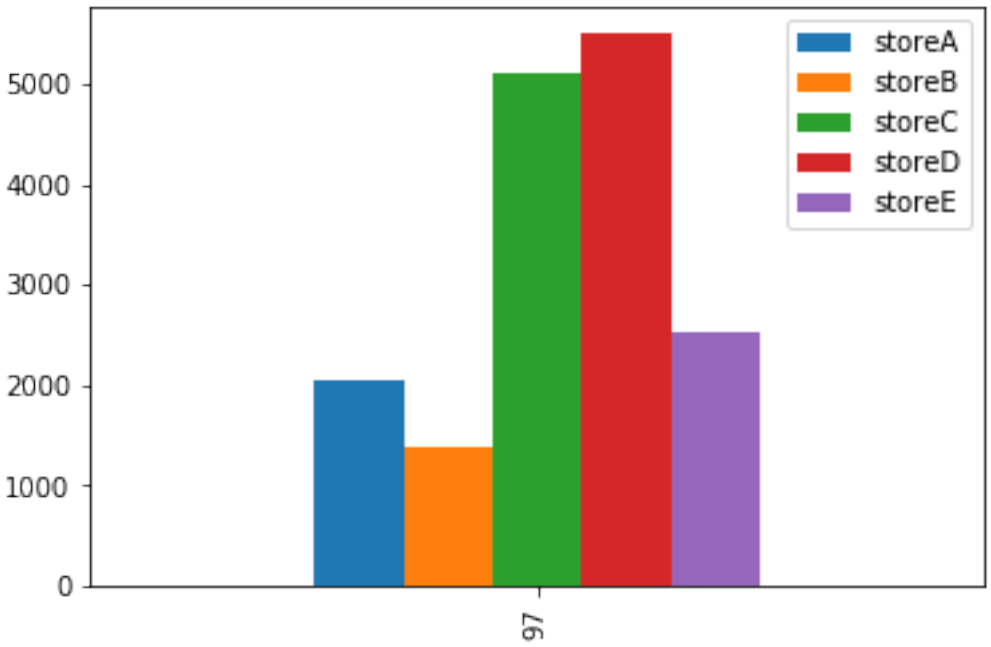

```
In [74]: # average sales
         df.iloc[:,1:].mean().plot(kind='bar', figsize=(8,5),
                                   title="Average Store Sales")
```

```
Out[74]: <matplotlib.axes._subplots.AxesSubplot at 0x7f9eb46d7278>
```



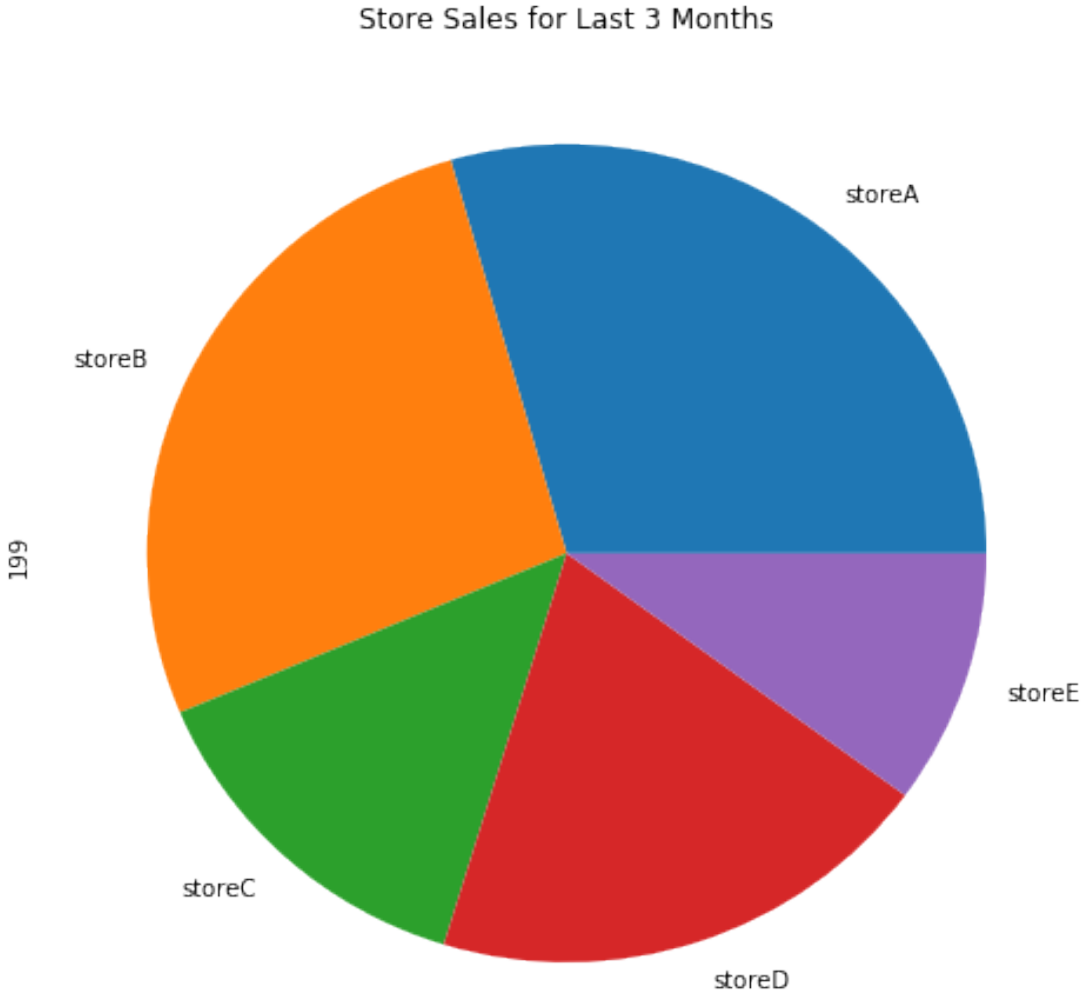
In [92]:
```
# sales for the week of March 13th, 2016
df[df['week'] == '2016-03-13'].plot(kind='bar')
```

Out[92]: <matplotlib.axes._subplots.AxesSubplot at 0x7f9eb4a41860>



In [106]:
```
# sales for the lastest 3-month periods
df.iloc[-1, 1:6].plot(kind='pie', figsize=(8,8),
                      title = 'Store Sales for Last 3 Months')
```

Out[106]: <matplotlib.axes._subplots.AxesSubplot at 0x7f9eb449c6a0>



In [ ]: