conclusions_quiz

October 16, 2017

1 Drawing Conclusions Quiz

Use the space below to explore `store_data.csv` to answer the quiz questions below.

```
In [47]:  # imports and load data
          import pandas as pd
          % matplotlib inline

          df = pd.read_csv('store_data.csv')

In [151]: # explore data
          df.head()
          #df.info()
          #df.describe()
```

```
Out[151]:         week  storeA  storeB  storeC  storeD  storeE
          0  2014-05-04    2643    8257    3893    6231    1294
          1  2014-05-11    6444    5736    5634    7092    2907
          2  2014-05-18    9646    2552    4253    5447    4736
          3  2014-05-25    5960   10740    8264    6063     949
          4  2014-06-01    7412    7374    3208    3985    3023
```

```
In [140]: # total sales for the last month
          df_total_sales = df.loc[:,'storeA' : 'storeE']
          print(sum(df_total_sales.sum()))

5115145
```

```
In [148]: # average sales
          df_average_sales = df.loc[:,'storeA' : 'storeE']
          print(df_average_sales.mean().mean())

5115.145
```

```
In [142]: # sales on march 13, 2016
          df[df['week'] == '2016-03-13']
```

1

```
Out[142]:           week  storeA  storeB  storeC  storeD  storeE
         97  2016-03-13    2054    1390    5112    5513    2536

In [143]: # worst week for store C
          storeC_min = df['storeC'].min()
          df[df['storeC'] == storeC_min]

Out[143]:          week  storeA  storeB  storeC  storeD  storeE
          9  2014-07-06    8567    3228     927    3277     168

In [145]: # total sales during most recent 3 month period
          recent_sales = df.tail(3)
          sales = recent_sales.loc[:,"storeA" : "storeE"]
          print(sales)
          print(sum(sales.sum()))

     storeA  storeB  storeC  storeD  storeE
197    9202    3677    4540    6186     243
198    3512    7511    4151    5596    3501
199    7560    6904    3569    5045    2585
73782


In [157]: #Question 1
          last_month_sales = df.tail(1)
          last_month_sales.loc[:,"storeA" : "storeE"]

          #Question 2
          df.describe()

          #Question 3
          df[df['week'] == '2016-03-13']

          #Question 5
          recent_sales.sum()

Out[157]: week      2018-02-112018-02-182018-02-25
          storeA                            20274
          storeB                            18092
          storeC                            12260
          storeD                            16827
          storeE                             6329
          dtype: object

In [ ]:
```