Display02

November 20, 2016

```
In [1]: import pandas as pd

In [2]: train = pd.read_csv('http://bit.ly/kaggletrain')

In [4]: train.head(2)
```

Out[4]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85	C

```
In [5]: pd.set_option('display.max_colwidth', 1000) # change column width to 1000 c

In [7]: train.head(4)
```

Out[7]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Thayer)	female	38.0	1	0	PC 17599	71.2833	C85	C
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	S

```
In [8]: pd.set_option('display.precision', 2) # set to two decimal points

In [9]: train.head(3) # only affects what is displayed, not underlying data

Out[9]:    PassengerId  Survived  Pclass  \
        0            1         0       3
        1            2         1       1
        2            3         1       3

                                                        Name     Sex   Age  SibSp
        0                            Braund, Mr. Owen Harris    male  22.0      1
        1  Cumings, Mrs. John Bradley (Florence Briggs Thayer)  female  38.0      1
        2                             Heikkinen, Miss. Laina  female  26.0      0

           Parch            Ticket   Fare Cabin Embarked
        0      0         A/5 21171   7.25   NaN        S
        1      0          PC 17599  71.28   C85        C
        2      0  STON/O2. 3101282   7.92   NaN        S

In [10]: drinks = pd.read_csv('http://bit.ly/drinksbycountry')

In [11]: drinks.head(3)

Out[11]:        country  beer_servings  spirit_servings  wine_servings  \
         0  Afghanistan              0                0              0
         1      Albania             89              132             54
         2      Algeria             25                0             14

            total_litres_of_pure_alcohol continent
         0                           0.0      Asia
         1                           4.9    Europe
         2                           0.7    Africa

In [12]: drinks['x'] = drinks.wine_servings * 1000

In [13]: drinks.head(3)

Out[13]:        country  beer_servings  spirit_servings  wine_servings  \
         0  Afghanistan              0                0              0
         1      Albania             89              132             54
         2      Algeria             25                0             14

            total_litres_of_pure_alcohol continent      x
         0                           0.0      Asia      0
         1                           4.9    Europe  54000
         2                           0.7    Africa  14000

In [14]: drinks['y'] = drinks.total_litres_of_pure_alcohol * 1000

In [15]: drinks.head(3)
```

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Out[15]:        country  beer_servings  spirit_servings  wine_servings  \
         0  Afghanistan              0                0              0
         1      Albania             89              132             54
         2      Algeria             25                0             14

            total_litres_of_pure_alcohol continent      x       y
         0                           0.0      Asia      0     0.0
         1                           4.9    Europe  54000  4900.0
         2                           0.7    Africa  14000   700.0

In [16]: pd.set_option('display.float_format', '{:,}'.format) # use commas as separ

In [17]: drinks.head(3) # affected y and not x

Out[17]:        country  beer_servings  spirit_servings  wine_servings  \
         0  Afghanistan              0                0              0
         1      Albania             89              132             54
         2      Algeria             25                0             14

            total_litres_of_pure_alcohol continent      x       y
         0                           0.0      Asia      0     0.0
         1                           4.9    Europe  54000 4,900.0
         2                           0.7    Africa  14000   700.0

In [18]: drinks.dtypes # x is an int, and y is a float

Out[18]: country                          object
         beer_servings                     int64
         spirit_servings                   int64
         wine_servings                     int64
         total_litres_of_pure_alcohol    float64
         continent                        object
         x                                 int64
         y                               float64
         dtype: object

In [19]: # shows options => pd.describe_option('rows') => searching names of optio
         # pd.reset_option('all') => resets all of options to default

In [ ]:
```