inspect_datatypes

October 25, 2017

1 Inspecting Data Types

Use the space below to explore `data_08.csv` and `data_18.csv` to answer the quiz questions below regarding datatypes.

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

```
In [4]: df_08 = pd.read_csv('data_08.csv')
        df_08.head(1)
```

```
Out[4]:        model  displ      cyl    trans drive      fuel veh_class  \
        0  ACURA MDX    3.7  (6 cyl)  Auto-S5   4WD  Gasoline       SUV

          air_pollution_score city_mpg hwy_mpg cmb_mpg greenhouse_gas_score smartway
        0                   7       15      20      17                    4       no
```

```
In [5]: df_18 = pd.read_csv('data_18.csv')
        df_18.head(1)
```

```
Out[5]:        model  displ  cyl       trans drive      fuel  veh_class  \
        0  ACURA RDX    3.5  6.0  SemiAuto-6   2WD  Gasoline  small SUV

           air_pollution_score city_mpg hwy_mpg cmb_mpg  greenhouse_gas_score smartway
        0                    3       20      28      23                     5       No
```

```
In [6]: df_08['cyl'].unique()
```

```
Out[6]: array(['(6 cyl)', '(4 cyl)', '(12 cyl)', '(8 cyl)', '(10 cyl)', '(16 cyl)',
               '(5 cyl)', '(2 cyl)'], dtype=object)
```

```
In [7]: df_18['cyl'].unique()
```

```
Out[7]: array([  6.,   4.,   5.,  12.,  16.,   8.,   3.])
```

```
In [8]: df_08['air_pollution_score'].unique()
```

```
Out[8]: array(['7', '6', '9.5', '9', '6/4'], dtype=object)
```

```
In [9]: df_18['air_pollution_score'].unique()
```

```
Out[9]: array([3, 1, 7, 5, 6])

In [13]: type(df_08['city_mpg'][0])
         type(df_18['city_mpg'][0])

Out[13]: str

In [14]: df_08['greenhouse_gas_score'].unique()

Out[14]: array(['4', '5', '6', '7', '0', '1', '3', '2', '8', '9', '10', '7/6'], dtype=object)

In [15]: df_18['greenhouse_gas_score'].unique()

Out[15]: array([ 5,  4,  6,  7,  2,  1, 10,  3,  9,  8])

In [ ]:
```