KEY_Practice15_Pandas-Reading

August 29, 2019

1 Practice: Reading Data with Pandas

First, we import pandas:

```python
[0]: import pandas as pd
```

Next, we'll mount Google Drive to the notebook:

```python
[2]: # mount Google Drive
     from google.colab import drive
     drive.mount('/content/gdrive')
     path = '/content/gdrive/My Drive/SummerExperience-master/'
```

Drive already mounted at /content/gdrive; to attempt to forcibly remount, call drive.mount("/content/gdrive", force_remount=True).

We have another dataset called `iris`. Let's load it into a DataFrame called `iris`:

```python
[0]: # this is where the file is located
     filename = path + 'SampleData/iris.csv'

     # load the iris dataset into a DataFrame
     iris = pd.read_csv(filename)
```

Explore the `DataFrame`; take a look at the beginning and end:

```python
[4]: # View the first few rows

     iris.head()
```

```
[4]:    sepal_length  sepal_width  petal_length  petal_width species
     0           5.1          3.5           1.4          0.2  setosa
     1           4.9          3.0           1.4          0.2  setosa
     2           4.7          3.2           1.3          0.2  setosa
     3           4.6          3.1           1.5          0.2  setosa
     4           5.0          3.6           1.4          0.2  setosa
```

```python
[5]: # View the last few rows
```

```
iris.tail()
```

[5]:

	sepal_length	sepal_width	petal_length	petal_width	species
145	6.7	3.0	5.2	2.3	virginica
146	6.3	2.5	5.0	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica

How many rows are in the `DataFrame`? Use `len` to find out:

[6]:
```
# number of rows

len(iris)
```

[6]: 150

How many columns are in the `DataFrame`? Use `columns` and `len` to find out:

[7]:
```
# number of columns

len(iris.columns)
```

[7]: 5

How many data points are in the `DataFrame`:

[8]:
```
# calculate the number of data points

len(iris)*len(iris.columns)
```

[8]: 750