

KEY_Practice11_Pandas-Reading

August 28, 2019

1 Practice: Reading Data with Pandas

First, we import pandas:

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

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

```
[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:

```
[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:

```
[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 |

```
[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
```