

KEY_Practice11_Pandas-Reading

July 17, 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
```