KEY_Practice12_Pandas-Subsetting

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1 Practice: Subsetting Pandas DataFrames

For this practice, let's use the iris dataset:

[]: # mount Google Drive

```
from google.colab import drive
   drive.mount('/content/gdrive')
   path = '/content/gdrive/My Drive/SummerExperience-master/'
[]: # import pandas package
   import pandas as pd
[]: # this is where the file is located
   filename = path + 'Lessons/SampleData/iris.csv'
   # load the iris dataset into a DataFrame
   iris = pd.read_csv(path)
      Refamiliarize yourself with the dataset:
[]: # take a look at the beginning
   iris.head()
      Try subsetting on columns:
[]: # subset the species column
   iris['species']
[]: # subset the sepal_length and sepal_width columns
   iris[ ['sepal_length', 'sepal_width']]
      Try subsetting on rows:
[]: # subset the 2nd row
   iris[iris.columns[1]]
[]: # subset the first 5 rows
   iris.loc[:4]
```

```
[]: # subset rows 10 through 20
   iris.loc[10:20]
[]: # subset rows 6, 9, and 12
   iris.loc[[6,9,12]]
     Now do both!
[]: # subset the first 3 rows and the first 3 columns
   iris.loc[:2][iris.columns[:3]]
[]: # subset row 20 and the species column
   iris.loc[20]['species']
     Now let's subset using query:
[]: # subset rows where sepal_width is greater than 4
   iris.query('sepal_width > 4')
[]: # subset rows where sepal_width is less than 3.5 and the species is `virginica`.
   iris.query('sepal_width < 3.5 and species=="virginica"')</pre>
[]: # subset rows where the pedal width is 0.3 or the species is `versicolor`.
   iris.query( 'petal_width==0.3 or species=="versicolor"' )
[]:
```