

Pratice Problems on Pandas Database:

Iris Dataset

Problem 1: Count of Flowers

Find and print count of each kind of flower (separated by space)?

Print the count as Integer Value.

```
import pandas as pd

iris = pd.read_csv('https://archive.ics.uci.edu/ml/machine-learning-databases/iris/iris.data', header = None, names = ['sl', 'sw', 'pl', 'pw', 'species'])

[ ] df = iris.copy()

[ ] df = iris

[ ] df1 = df.groupby('species').count()['sl']
print(df1)

species
Iris-setosa      50
Iris-versicolor  50
Iris-virginica   50
Name: sl, dtype: int64

[ ] print(df1.values[0], df1.values[1], df1.values[2])

50 50 50
```

Problem 2: Iris Virginica

Find the data of flower “Iris-virginica” type where petal-length > 1.5?

Print the all the feature values.

```
[ ] df[(df.species == "Iris-virginica") & (df.pl > 1.5)]
```

	sl	sw	pl	pw	species
100	6.3	3.3	6.0	2.5	Iris-virginica
101	5.8	2.7	5.1	1.9	Iris-virginica
102	7.1	3.0	5.9	2.1	Iris-virginica
103	6.3	2.9	5.6	1.8	Iris-virginica
104	6.5	3.0	5.8	2.2	Iris-virginica
105	7.6	3.0	6.6	2.1	Iris-virginica
106	4.9	2.5	4.5	1.7	Iris-virginica
107	7.3	2.9	6.3	1.8	Iris-virginica
108	6.7	2.5	5.8	1.8	Iris-virginica
109	7.2	3.6	6.1	2.5	Iris-virginica
110	6.5	3.2	5.1	2.0	Iris-virginica
111	6.4	2.7	5.3	1.9	Iris-virginica

Pratice Problems on Pandas Database:

Iris Dataset

Problem 3: Iris Values

Find and print the minimum, maximum and average value of the feature for each kind of flower?

Print the value with two decimal places.

Note: Order for flower is Iris-setosa, Iris-versicolor and Iris-virginica.

+ Code

+ Text

```
df.groupby(df.species).agg(['mean', 'max', 'min']).round(2)
```

↗

	sl			sw			pl			pw		
	mean	max	min	mean	max	min	mean	max	min	mean	max	min
species												
Iris-setosa	5.01	5.8	4.3	3.42	4.4	2.3	1.46	1.9	1.0	0.24	0.6	0.1
Iris-versicolor	5.94	7.0	4.9	2.77	3.4	2.0	4.26	5.1	3.0	1.33	1.8	1.0
Iris-virginica	6.59	7.9	4.9	2.97	3.8	2.2	5.55	6.9	4.5	2.03	2.5	1.4

```
[1] from google.colab import drive
```