```
In [1]:
        import pandas as pd
        df = pd.read_csv("Iris.csv")
In [2]:
In [3]: print(df)
                  SepalLengthCm
                                  SepalWidthCm PetalLengthCm PetalWidthCm \
              Ιd
       0
                             5.1
                                            3.5
                                                             1.4
                                                                            0.2
       1
               2
                             4.9
                                            3.0
                                                             1.4
                                                                            0.2
       2
               3
                             4.7
                                            3.2
                                                             1.3
                                                                            0.2
       3
                                            3.1
                                                                            0.2
               4
                             4.6
                                                             1.5
       4
               5
                             5.0
                                            3.6
                                                             1.4
                                                                            0.2
                                                                            . . .
       145
            146
                             6.7
                                            3.0
                                                             5.2
                                                                            2.3
       146
            147
                             6.3
                                            2.5
                                                             5.0
                                                                            1.9
       147
            148
                             6.5
                                            3.0
                                                             5.2
                                                                            2.0
            149
                             6.2
                                                             5.4
                                                                            2.3
       148
                                            3.4
       149
            150
                             5.9
                                            3.0
                                                             5.1
                                                                            1.8
                    Species
       0
                Iris-setosa
       1
                Iris-setosa
       2
                Iris-setosa
       3
                Iris-setosa
       4
                Iris-setosa
       . .
       145 Iris-virginica
       146 Iris-virginica
            Iris-virginica
       148 Iris-virginica
       149 Iris-virginica
       [150 rows x 6 columns]
In [4]: df.describe()
Out[4]:
                             SepalLengthCm SepalWidthCm PetalLengthCm
                                                                            PetalWidthCm
                         ld
         count 150.000000
                                                 150.000000
                                                                                 150.000000
                                 150.000000
                                                                 150.000000
         mean
                 75.500000
                                   5.843333
                                                   3.054000
                                                                   3.758667
                                                                                   1.198667
            std
                 43.445368
                                   0.828066
                                                   0.433594
                                                                   1.764420
                                                                                   0.763161
                  1.000000
                                   4.300000
                                                   2.000000
                                                                   1.000000
                                                                                   0.100000
           min
          25%
                  38.250000
                                   5.100000
                                                   2.800000
                                                                   1.600000
                                                                                   0.300000
           50%
                  75.500000
                                   5.800000
                                                   3.000000
                                                                   4.350000
                                                                                   1.300000
          75%
                112.750000
                                   6.400000
                                                   3.300000
                                                                                   1.800000
                                                                   5.100000
               150.000000
                                   7.900000
                                                   4.400000
                                                                   6.900000
                                                                                   2.500000
```

Out[5]:		ld	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
	0	1	5.1	3.5	1.4	0.2	Iris-setosa
	1	2	4.9	3.0	1.4	0.2	Iris-setosa
	2	3	4.7	3.2	1.3	0.2	Iris-setosa
	3	4	4.6	3.1	1.5	0.2	Iris-setosa
	4	5	5.0	3.6	1.4	0.2	Iris-setosa

In [6]: df.tail()

Out[6]: SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm **Species** 146 Iris-virginica 145 3.0 2.3 6.7 5.2 Iris-virginica 146 147 6.3 2.5 5.0 Iris-virginica 147 148 6.5 3.0 5.2

3.4

3.0

5.4

5.1

Iris-virginica

Iris-virginica

In [7]: df.shape

6.2

5.9

Out[7]: (150, 6)

148

149

149 150

In [8]: df.size

Out[8]: 900

In [9]: df.isnull()

	False	False	False	False	False	
False False False False False False False False Species"].dtype	False False False False False False False False	False False False False False False False	False False False False False False False False	False False False False False False False False	False False False False False False False	
False False False False False False False Species"].dtype	False False False False False False False	False False False False False False	False False False False False False	False False False False False False False	False False False False False False	
False False False False False False ws × 6 columns dim Species"].dtype	False False False False False	False False False False False				
False False False False False sws × 6 columns dim Species"].dtype	False False False False	False False False False				
False False False False False ws × 6 columns dim Species"].dtype	False False False False	False False False	False False False	False False False	False False False	
False False False False False ws × 6 columns dim Species"].dtype	False False False False	False False False	False False False	False False False	False False False	
False False False ws × 6 columns im Species"].dtype	False False	False False False	False False	False False	False False	
False False False ws × 6 columns dim Species"].dtype	False False	False False	False False	False False	False False	
False False www. 6 columns dim Species"].dtype	False	False	False	False	False	
False ws × 6 columns dim Species"].dtype						
ws × 6 columns dim Species"].dtype		. 3.30	1 0.30		. 4.50	
dim Species"].dtype						
Species"].dtype						
e('0')						
e('0')						
e('0')						
oc - nd got du	dtype('0')					
<pre>dummies = pd.get_dummies(df.Species)</pre>						
(dummies)						
		Iris-vir	_			
	0		0			
1	0		0			
1	0		0			
•••	•••					
	1 1 1	1 0 1 0 1 0 1 0 1 0 1 0 0	1 0 1 0 1 0 1 0 1 0 1 0 0 0 0 0 0 0	1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1	1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1	

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	ld	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species	Iris- setosa
0	1	5.1	3.5	1.4	0.2	Iris- setosa	1
1	2	4.9	3.0	1.4	0.2	Iris- setosa	1
2	3	4.7	3.2	1.3	0.2	Iris- setosa	1
3	4	4.6	3.1	1.5	0.2	Iris- setosa	1
4	5	5.0	3.6	1.4	0.2	Iris- setosa	1
•••							
145	146	6.7	3.0	5.2	2.3	lris- virginica	0
146	147	6.3	2.5	5.0	1.9	lris- virginica	0
147	148	6.5	3.0	5.2	2.0	lris- virginica	0
148	149	6.2	3.4	5.4	2.3	lris- virginica	0
149	150	5.9	3.0	5.1	1.8	lris- virginica	0

150 rows × 9 columns

In []: