

# Iris纸鸢花数据 - 删除数据

---



## 导入库

```
1 import numpy as np
2 import pandas as pd
```

## 加载数据

```
1 iris = pd.read_csv('data/iris.csv')
2 iris.head(3)
```

```
1 <tr style="text-align: right;">
2   <th></th>
3   <th>SepalLength(cm)</th>
4   <th>SepalWidth(cm)</th>
5   <th>PetalLength(cm)</th>
6   <th>PetalWidth(cm)</th>
7   <th>Class</th>
8 </tr>
```

```
1 <tr>
2   <th>0</th>
3   <td>5.1</td>
4   <td>3.5</td>
5   <td>1.4</td>
6   <td>0.2</td>
7   <td>Iris-setosa</td>
8 </tr>
9 <tr>
10  <th>1</th>
11  <td>4.9</td>
12  <td>3.0</td>
13  <td>1.4</td>
14  <td>0.2</td>
15  <td>Iris-setosa</td>
16 </tr>
17 <tr>
18  <th>2</th>
19  <td>4.7</td>
20  <td>3.2</td>
21  <td>1.3</td>
22  <td>0.2</td>
23  <td>Iris-setosa</td>
24 </tr>
```

## 创建数据框的列名称

```
1 iris.columns = ['sepal_length', 'sepal_width',  
  'petal_length', 'petal_width', 'class']  
2 iris.head(3)
```

```
1 <tr style="text-align: right;">  
2   <th></th>  
3   <th>sepal_length</th>  
4   <th>sepal_width</th>  
5   <th>petal_length</th>  
6   <th>petal_width</th>  
7   <th>class</th>  
8 </tr>
```

```
1 <tr>
2   <th>0</th>
3   <td>5.1</td>
4   <td>3.5</td>
5   <td>1.4</td>
6   <td>0.2</td>
7   <td>Iris-setosa</td>
8 </tr>
9 <tr>
10  <th>1</th>
11  <td>4.9</td>
12  <td>3.0</td>
13  <td>1.4</td>
14  <td>0.2</td>
15  <td>Iris-setosa</td>
16 </tr>
17 <tr>
18  <th>2</th>
19  <td>4.7</td>
20  <td>3.2</td>
21  <td>1.3</td>
22  <td>0.2</td>
23  <td>Iris-setosa</td>
24 </tr>
```

## 数据框中有缺失值吗？

```
1 pd.isnull(iris).sum()
```

```
1 sepal_length    0
2 sepal_width     0
3 petal_length    0
4 petal_width     0
5 class           0
6 dtype: int64
```

## 将列petal\_length的第10到19行设置为缺失值

```
1 iris.iloc[10:20,2:3] = np.nan
2 iris.head(20)
```

```
1 <tr style="text-align: right;">
2   <th></th>
3   <th>sepal_length</th>
4   <th>sepal_width</th>
5   <th>petal_length</th>
6   <th>petal_width</th>
7   <th>class</th>
8 </tr>
```

```
1 <tr>
2   <th>0</th>
3   <td>5.1</td>
4   <td>3.5</td>
5   <td>1.4</td>
6   <td>0.2</td>
7   <td>Iris-setosa</td>
8 </tr>
9 <tr>
10  <th>1</th>
11  <td>4.9</td>
12  <td>3.0</td>
13  <td>1.4</td>
14  <td>0.2</td>
15  <td>Iris-setosa</td>
16 </tr>
17 <tr>
18  <th>2</th>
19  <td>4.7</td>
20  <td>3.2</td>
21  <td>1.3</td>
22  <td>0.2</td>
23  <td>Iris-setosa</td>
24 </tr>
25 <tr>
26  <th>3</th>
27  <td>4.6</td>
28  <td>3.1</td>
29  <td>1.5</td>
30  <td>0.2</td>
31  <td>Iris-setosa</td>
32 </tr>
33 <tr>
34  <th>4</th>
```

```
35     <td>5.0</td>
36     <td>3.6</td>
37     <td>1.4</td>
38     <td>0.2</td>
39     <td>Iris-setosa</td>
40 </tr>
41 <tr>
42     <th>5</th>
43     <td>5.4</td>
44     <td>3.9</td>
45     <td>1.7</td>
46     <td>0.4</td>
47     <td>Iris-setosa</td>
48 </tr>
49 <tr>
50     <th>6</th>
51     <td>4.6</td>
52     <td>3.4</td>
53     <td>1.4</td>
54     <td>0.3</td>
55     <td>Iris-setosa</td>
56 </tr>
57 <tr>
58     <th>7</th>
59     <td>5.0</td>
60     <td>3.4</td>
61     <td>1.5</td>
62     <td>0.2</td>
63     <td>Iris-setosa</td>
64 </tr>
65 <tr>
66     <th>8</th>
67     <td>4.4</td>
68     <td>2.9</td>
```

```
69     <td>1.4</td>
70     <td>0.2</td>
71     <td>Iris-setosa</td>
72 </tr>
73 <tr>
74     <th>9</th>
75     <td>4.9</td>
76     <td>3.1</td>
77     <td>1.5</td>
78     <td>0.1</td>
79     <td>Iris-setosa</td>
80 </tr>
81 <tr>
82     <th>10</th>
83     <td>5.4</td>
84     <td>3.7</td>
85     <td>NaN</td>
86     <td>0.2</td>
87     <td>Iris-setosa</td>
88 </tr>
89 <tr>
90     <th>11</th>
91     <td>4.8</td>
92     <td>3.4</td>
93     <td>NaN</td>
94     <td>0.2</td>
95     <td>Iris-setosa</td>
96 </tr>
97 <tr>
98     <th>12</th>
99     <td>4.8</td>
100    <td>3.0</td>
101    <td>NaN</td>
102    <td>0.1</td>
```



```
103     <td>Iris-setosa</td>
104 </tr>
105 <tr>
106     <th>13</th>
107     <td>4.3</td>
108     <td>3.0</td>
109     <td>NaN</td>
110     <td>0.1</td>
111     <td>Iris-setosa</td>
112 </tr>
113 <tr>
114     <th>14</th>
115     <td>5.8</td>
116     <td>4.0</td>
117     <td>NaN</td>
118     <td>0.2</td>
119     <td>Iris-setosa</td>
120 </tr>
121 <tr>
122     <th>15</th>
123     <td>5.7</td>
124     <td>4.4</td>
125     <td>NaN</td>
126     <td>0.4</td>
127     <td>Iris-setosa</td>
128 </tr>
129 <tr>
130     <th>16</th>
131     <td>5.4</td>
132     <td>3.9</td>
133     <td>NaN</td>
134     <td>0.4</td>
135     <td>Iris-setosa</td>
136 </tr>
```

```
137 <tr>
138   <th>17</th>
139   <td>5.1</td>
140   <td>3.5</td>
141   <td>NaN</td>
142   <td>0.3</td>
143   <td>Iris-setosa</td>
144 </tr>
145 <tr>
146   <th>18</th>
147   <td>5.7</td>
148   <td>3.8</td>
149   <td>NaN</td>
150   <td>0.3</td>
151   <td>Iris-setosa</td>
152 </tr>
153 <tr>
154   <th>19</th>
155   <td>5.1</td>
156   <td>3.8</td>
157   <td>NaN</td>
158   <td>0.3</td>
159   <td>Iris-setosa</td>
160 </tr>
```

## 将缺失值全部替换为1.0

```
1 iris.petal_length.fillna(1, inplace=True)
```

```
1 iris
```

```
1 <tr style="text-align: right;">
2   <th></th>
3   <th>sepal_length</th>
4   <th>sepal_width</th>
5   <th>petal_length</th>
6   <th>petal_width</th>
7   <th>class</th>
8 </tr>
```

```
1 <tr>
2   <th>0</th>
3   <td>5.1</td>
4   <td>3.5</td>
5   <td>1.4</td>
6   <td>0.2</td>
7   <td>Iris-setosa</td>
8 </tr>
9 <tr>
10  <th>1</th>
11  <td>4.9</td>
12  <td>3.0</td>
13  <td>1.4</td>
14  <td>0.2</td>
15  <td>Iris-setosa</td>
16 </tr>
17 <tr>
18  <th>2</th>
19  <td>4.7</td>
20  <td>3.2</td>
21  <td>1.3</td>
22  <td>0.2</td>
23  <td>Iris-setosa</td>
24 </tr>
25 <tr>
26  <th>3</th>
27  <td>4.6</td>
28  <td>3.1</td>
29  <td>1.5</td>
30  <td>0.2</td>
31  <td>Iris-setosa</td>
32 </tr>
33 <tr>
34  <th>4</th>
```

```
35     <td>5.0</td>
36     <td>3.6</td>
37     <td>1.4</td>
38     <td>0.2</td>
39     <td>Iris-setosa</td>
40 </tr>
41 <tr>
42     <th>5</th>
43     <td>5.4</td>
44     <td>3.9</td>
45     <td>1.7</td>
46     <td>0.4</td>
47     <td>Iris-setosa</td>
48 </tr>
49 <tr>
50     <th>6</th>
51     <td>4.6</td>
52     <td>3.4</td>
53     <td>1.4</td>
54     <td>0.3</td>
55     <td>Iris-setosa</td>
56 </tr>
57 <tr>
58     <th>7</th>
59     <td>5.0</td>
60     <td>3.4</td>
61     <td>1.5</td>
62     <td>0.2</td>
63     <td>Iris-setosa</td>
64 </tr>
65 <tr>
66     <th>8</th>
67     <td>4.4</td>
68     <td>2.9</td>
```

```
69     <td>1.4</td>
70     <td>0.2</td>
71     <td>Iris-setosa</td>
72 </tr>
73 <tr>
74     <th>9</th>
75     <td>4.9</td>
76     <td>3.1</td>
77     <td>1.5</td>
78     <td>0.1</td>
79     <td>Iris-setosa</td>
80 </tr>
81 <tr>
82     <th>10</th>
83     <td>5.4</td>
84     <td>3.7</td>
85     <td>1.0</td>
86     <td>0.2</td>
87     <td>Iris-setosa</td>
88 </tr>
89 <tr>
90     <th>11</th>
91     <td>4.8</td>
92     <td>3.4</td>
93     <td>1.0</td>
94     <td>0.2</td>
95     <td>Iris-setosa</td>
96 </tr>
97 <tr>
98     <th>12</th>
99     <td>4.8</td>
100    <td>3.0</td>
101    <td>1.0</td>
102    <td>0.1</td>
```

```
103     <td>Iris-setosa</td>
104 </tr>
105 <tr>
106     <th>13</th>
107     <td>4.3</td>
108     <td>3.0</td>
109     <td>1.0</td>
110     <td>0.1</td>
111     <td>Iris-setosa</td>
112 </tr>
113 <tr>
114     <th>14</th>
115     <td>5.8</td>
116     <td>4.0</td>
117     <td>1.0</td>
118     <td>0.2</td>
119     <td>Iris-setosa</td>
120 </tr>
121 <tr>
122     <th>15</th>
123     <td>5.7</td>
124     <td>4.4</td>
125     <td>1.0</td>
126     <td>0.4</td>
127     <td>Iris-setosa</td>
128 </tr>
129 <tr>
130     <th>16</th>
131     <td>5.4</td>
132     <td>3.9</td>
133     <td>1.0</td>
134     <td>0.4</td>
135     <td>Iris-setosa</td>
136 </tr>
```

```
137 <tr>
138   <th>17</th>
139   <td>5.1</td>
140   <td>3.5</td>
141   <td>1.0</td>
142   <td>0.3</td>
143   <td>Iris-setosa</td>
144 </tr>
145 <tr>
146   <th>18</th>
147   <td>5.7</td>
148   <td>3.8</td>
149   <td>1.0</td>
150   <td>0.3</td>
151   <td>Iris-setosa</td>
152 </tr>
153 <tr>
154   <th>19</th>
155   <td>5.1</td>
156   <td>3.8</td>
157   <td>1.0</td>
158   <td>0.3</td>
159   <td>Iris-setosa</td>
160 </tr>
161 <tr>
162   <th>20</th>
163   <td>5.4</td>
164   <td>3.4</td>
165   <td>1.7</td>
166   <td>0.2</td>
167   <td>Iris-setosa</td>
168 </tr>
169 <tr>
170   <th>21</th>
```



171	<td>5.1</td>
172	<td>3.7</td>
173	<td>1.5</td>
174	<td>0.4</td>
175	<td>Iris-setosa</td>
176	</tr>
177	<tr>
178	<th>22</th>
179	<td>4.6</td>
180	<td>3.6</td>
181	<td>1.0</td>
182	<td>0.2</td>
183	<td>Iris-setosa</td>
184	</tr>
185	<tr>
186	<th>23</th>
187	<td>5.1</td>
188	<td>3.3</td>
189	<td>1.7</td>
190	<td>0.5</td>
191	<td>Iris-setosa</td>
192	</tr>
193	<tr>
194	<th>24</th>
195	<td>4.8</td>
196	<td>3.4</td>
197	<td>1.9</td>
198	<td>0.2</td>
199	<td>Iris-setosa</td>
200	</tr>
201	<tr>
202	<th>25</th>
203	<td>5.0</td>
204	<td>3.0</td>

```
205     <td>1.6</td>
206     <td>0.2</td>
207     <td>Iris-setosa</td>
208 </tr>
209 <tr>
210     <th>26</th>
211     <td>5.0</td>
212     <td>3.4</td>
213     <td>1.6</td>
214     <td>0.4</td>
215     <td>Iris-setosa</td>
216 </tr>
217 <tr>
218     <th>27</th>
219     <td>5.2</td>
220     <td>3.5</td>
221     <td>1.5</td>
222     <td>0.2</td>
223     <td>Iris-setosa</td>
224 </tr>
225 <tr>
226     <th>28</th>
227     <td>5.2</td>
228     <td>3.4</td>
229     <td>1.4</td>
230     <td>0.2</td>
231     <td>Iris-setosa</td>
232 </tr>
233 <tr>
234     <th>29</th>
235     <td>4.7</td>
236     <td>3.2</td>
237     <td>1.6</td>
238     <td>0.2</td>
```

```
239     <td>Iris-setosa</td>
240 </tr>
241 <tr>
242     <th>...</th>
243     <td>...</td>
244     <td>...</td>
245     <td>...</td>
246     <td>...</td>
247     <td>...</td>
248 </tr>
249 <tr>
250     <th>120</th>
251     <td>6.9</td>
252     <td>3.2</td>
253     <td>5.7</td>
254     <td>2.3</td>
255     <td>Iris-virginica</td>
256 </tr>
257 <tr>
258     <th>121</th>
259     <td>5.6</td>
260     <td>2.8</td>
261     <td>4.9</td>
262     <td>2.0</td>
263     <td>Iris-virginica</td>
264 </tr>
265 <tr>
266     <th>122</th>
267     <td>7.7</td>
268     <td>2.8</td>
269     <td>6.7</td>
270     <td>2.0</td>
271     <td>Iris-virginica</td>
272 </tr>
```

```
273 <tr>
274   <th>123</th>
275   <td>6.3</td>
276   <td>2.7</td>
277   <td>4.9</td>
278   <td>1.8</td>
279   <td>Iris-virginica</td>
280 </tr>
281 <tr>
282   <th>124</th>
283   <td>6.7</td>
284   <td>3.3</td>
285   <td>5.7</td>
286   <td>2.1</td>
287   <td>Iris-virginica</td>
288 </tr>
289 <tr>
290   <th>125</th>
291   <td>7.2</td>
292   <td>3.2</td>
293   <td>6.0</td>
294   <td>1.8</td>
295   <td>Iris-virginica</td>
296 </tr>
297 <tr>
298   <th>126</th>
299   <td>6.2</td>
300   <td>2.8</td>
301   <td>4.8</td>
302   <td>1.8</td>
303   <td>Iris-virginica</td>
304 </tr>
305 <tr>
306   <th>127</th>
```

```
307     <td>6.1</td>
308     <td>3.0</td>
309     <td>4.9</td>
310     <td>1.8</td>
311     <td>Iris-virginica</td>
312 </tr>
313 <tr>
314     <th>128</th>
315     <td>6.4</td>
316     <td>2.8</td>
317     <td>5.6</td>
318     <td>2.1</td>
319     <td>Iris-virginica</td>
320 </tr>
321 <tr>
322     <th>129</th>
323     <td>7.2</td>
324     <td>3.0</td>
325     <td>5.8</td>
326     <td>1.6</td>
327     <td>Iris-virginica</td>
328 </tr>
329 <tr>
330     <th>130</th>
331     <td>7.4</td>
332     <td>2.8</td>
333     <td>6.1</td>
334     <td>1.9</td>
335     <td>Iris-virginica</td>
336 </tr>
337 <tr>
338     <th>131</th>
339     <td>7.9</td>
340     <td>3.8</td>
```

```
341     <td>6.4</td>
342     <td>2.0</td>
343     <td>Iris-virginica</td>
344 </tr>
345 <tr>
346     <th>132</th>
347     <td>6.4</td>
348     <td>2.8</td>
349     <td>5.6</td>
350     <td>2.2</td>
351     <td>Iris-virginica</td>
352 </tr>
353 <tr>
354     <th>133</th>
355     <td>6.3</td>
356     <td>2.8</td>
357     <td>5.1</td>
358     <td>1.5</td>
359     <td>Iris-virginica</td>
360 </tr>
361 <tr>
362     <th>134</th>
363     <td>6.1</td>
364     <td>2.6</td>
365     <td>5.6</td>
366     <td>1.4</td>
367     <td>Iris-virginica</td>
368 </tr>
369 <tr>
370     <th>135</th>
371     <td>7.7</td>
372     <td>3.0</td>
373     <td>6.1</td>
374     <td>2.3</td>
```

```
375     <td>Iris-virginica</td>
376 </tr>
377 <tr>
378     <th>136</th>
379     <td>6.3</td>
380     <td>3.4</td>
381     <td>5.6</td>
382     <td>2.4</td>
383     <td>Iris-virginica</td>
384 </tr>
385 <tr>
386     <th>137</th>
387     <td>6.4</td>
388     <td>3.1</td>
389     <td>5.5</td>
390     <td>1.8</td>
391     <td>Iris-virginica</td>
392 </tr>
393 <tr>
394     <th>138</th>
395     <td>6.0</td>
396     <td>3.0</td>
397     <td>4.8</td>
398     <td>1.8</td>
399     <td>Iris-virginica</td>
400 </tr>
401 <tr>
402     <th>139</th>
403     <td>6.9</td>
404     <td>3.1</td>
405     <td>5.4</td>
406     <td>2.1</td>
407     <td>Iris-virginica</td>
408 </tr>
```

```
409 <tr>
410   <th>140</th>
411   <td>6.7</td>
412   <td>3.1</td>
413   <td>5.6</td>
414   <td>2.4</td>
415   <td>Iris-virginica</td>
416 </tr>
417 <tr>
418   <th>141</th>
419   <td>6.9</td>
420   <td>3.1</td>
421   <td>5.1</td>
422   <td>2.3</td>
423   <td>Iris-virginica</td>
424 </tr>
425 <tr>
426   <th>142</th>
427   <td>5.8</td>
428   <td>2.7</td>
429   <td>5.1</td>
430   <td>1.9</td>
431   <td>Iris-virginica</td>
432 </tr>
433 <tr>
434   <th>143</th>
435   <td>6.8</td>
436   <td>3.2</td>
437   <td>5.9</td>
438   <td>2.3</td>
439   <td>Iris-virginica</td>
440 </tr>
441 <tr>
442   <th>144</th>
```



```
443     <td>6.7</td>
444     <td>3.3</td>
445     <td>5.7</td>
446     <td>2.5</td>
447     <td>Iris-virginica</td>
448 </tr>
449 <tr>
450     <th>145</th>
451     <td>6.7</td>
452     <td>3.0</td>
453     <td>5.2</td>
454     <td>2.3</td>
455     <td>Iris-virginica</td>
456 </tr>
457 <tr>
458     <th>146</th>
459     <td>6.3</td>
460     <td>2.5</td>
461     <td>5.0</td>
462     <td>1.9</td>
463     <td>Iris-virginica</td>
464 </tr>
465 <tr>
466     <th>147</th>
467     <td>6.5</td>
468     <td>3.0</td>
469     <td>5.2</td>
470     <td>2.0</td>
471     <td>Iris-virginica</td>
472 </tr>
473 <tr>
474     <th>148</th>
475     <td>6.2</td>
476     <td>3.4</td>
```

```
477     <td>5.4</td>
478     <td>2.3</td>
479     <td>Iris-virginica</td>
480 </tr>
481 <tr>
482     <th>149</th>
483     <td>5.9</td>
484     <td>3.0</td>
485     <td>5.1</td>
486     <td>1.8</td>
487     <td>Iris-virginica</td>
488 </tr>
```

150 rows × 5 columns

## 删除列class

```
1 del iris['class']
2 iris.head(3)
```

```
1 <tr style="text-align: right;">
2   <th></th>
3   <th>sepal_length</th>
4   <th>sepal_width</th>
5   <th>petal_length</th>
6   <th>petal_width</th>
7 </tr>
```

```
1 <tr>
2   <th>0</th>
3   <td>5.1</td>
4   <td>3.5</td>
5   <td>1.4</td>
6   <td>0.2</td>
7 </tr>
8 <tr>
9   <th>1</th>
10  <td>4.9</td>
11  <td>3.0</td>
12  <td>1.4</td>
13  <td>0.2</td>
14 </tr>
15 <tr>
16  <th>2</th>
17  <td>4.7</td>
18  <td>3.2</td>
19  <td>1.3</td>
20  <td>0.2</td>
21 </tr>
```

**将数据框前三行设置为缺失值**

```
1 iris.iloc[0:3, :] = np.nan
2 iris.head()
```

```
1 <tr style="text-align: right;">
2   <th></th>
3   <th>sepal_length</th>
4   <th>sepal_width</th>
5   <th>petal_length</th>
6   <th>petal_width</th>
7 </tr>
```

```
1 <tr>
2   <th>0</th>
3   <td>NaN</td>
4   <td>NaN</td>
5   <td>NaN</td>
6   <td>NaN</td>
7 </tr>
8 <tr>
9   <th>1</th>
10  <td>NaN</td>
11  <td>NaN</td>
12  <td>NaN</td>
13  <td>NaN</td>
14 </tr>
15 <tr>
16  <th>2</th>
17  <td>NaN</td>
18  <td>NaN</td>
19  <td>NaN</td>
20  <td>NaN</td>
21 </tr>
22 <tr>
23  <th>3</th>
24  <td>4.6</td>
25  <td>3.1</td>
26  <td>1.5</td>
27  <td>0.2</td>
28 </tr>
29 <tr>
30  <th>4</th>
31  <td>5.0</td>
32  <td>3.6</td>
33  <td>1.4</td>
34  <td>0.2</td>
```

```
35 | </tr>
```

## 删除有缺失值的行

```
1 | iris = iris.dropna(how='any')
2 | iris
```

```
1 | <tr style="text-align: right;">
2 |   <th></th>
3 |   <th>sepal_length</th>
4 |   <th>sepal_width</th>
5 |   <th>petal_length</th>
6 |   <th>petal_width</th>
7 | </tr>
```

```
1 <tr>
2   <th>3</th>
3   <td>4.6</td>
4   <td>3.1</td>
5   <td>1.5</td>
6   <td>0.2</td>
7 </tr>
8 <tr>
9   <th>4</th>
10  <td>5.0</td>
11  <td>3.6</td>
12  <td>1.4</td>
13  <td>0.2</td>
14 </tr>
15 <tr>
16  <th>5</th>
17  <td>5.4</td>
18  <td>3.9</td>
19  <td>1.7</td>
20  <td>0.4</td>
21 </tr>
22 <tr>
23  <th>6</th>
24  <td>4.6</td>
25  <td>3.4</td>
26  <td>1.4</td>
27  <td>0.3</td>
28 </tr>
29 <tr>
30  <th>7</th>
31  <td>5.0</td>
32  <td>3.4</td>
33  <td>1.5</td>
34  <td>0.2</td>
```

```
35 </tr>
36 <tr>
37   <th>8</th>
38   <td>4.4</td>
39   <td>2.9</td>
40   <td>1.4</td>
41   <td>0.2</td>
42 </tr>
43 <tr>
44   <th>9</th>
45   <td>4.9</td>
46   <td>3.1</td>
47   <td>1.5</td>
48   <td>0.1</td>
49 </tr>
50 <tr>
51   <th>10</th>
52   <td>5.4</td>
53   <td>3.7</td>
54   <td>1.0</td>
55   <td>0.2</td>
56 </tr>
57 <tr>
58   <th>11</th>
59   <td>4.8</td>
60   <td>3.4</td>
61   <td>1.0</td>
62   <td>0.2</td>
63 </tr>
64 <tr>
65   <th>12</th>
66   <td>4.8</td>
67   <td>3.0</td>
68   <td>1.0</td>
```



```
69      <td>0.1</td>
70 </tr>
71 <tr>
72     <th>13</th>
73     <td>4.3</td>
74     <td>3.0</td>
75     <td>1.0</td>
76     <td>0.1</td>
77 </tr>
78 <tr>
79     <th>14</th>
80     <td>5.8</td>
81     <td>4.0</td>
82     <td>1.0</td>
83     <td>0.2</td>
84 </tr>
85 <tr>
86     <th>15</th>
87     <td>5.7</td>
88     <td>4.4</td>
89     <td>1.0</td>
90     <td>0.4</td>
91 </tr>
92 <tr>
93     <th>16</th>
94     <td>5.4</td>
95     <td>3.9</td>
96     <td>1.0</td>
97     <td>0.4</td>
98 </tr>
99 <tr>
100    <th>17</th>
101    <td>5.1</td>
102    <td>3.5</td>
```

```
103     <td>1.0</td>
104     <td>0.3</td>
105 </tr>
106 <tr>
107     <th>18</th>
108     <td>5.7</td>
109     <td>3.8</td>
110     <td>1.0</td>
111     <td>0.3</td>
112 </tr>
113 <tr>
114     <th>19</th>
115     <td>5.1</td>
116     <td>3.8</td>
117     <td>1.0</td>
118     <td>0.3</td>
119 </tr>
120 <tr>
121     <th>20</th>
122     <td>5.4</td>
123     <td>3.4</td>
124     <td>1.7</td>
125     <td>0.2</td>
126 </tr>
127 <tr>
128     <th>21</th>
129     <td>5.1</td>
130     <td>3.7</td>
131     <td>1.5</td>
132     <td>0.4</td>
133 </tr>
134 <tr>
135     <th>22</th>
136     <td>4.6</td>
```

```
137     <td>3.6</td>
138     <td>1.0</td>
139     <td>0.2</td>
140 </tr>
141 <tr>
142     <th>23</th>
143     <td>5.1</td>
144     <td>3.3</td>
145     <td>1.7</td>
146     <td>0.5</td>
147 </tr>
148 <tr>
149     <th>24</th>
150     <td>4.8</td>
151     <td>3.4</td>
152     <td>1.9</td>
153     <td>0.2</td>
154 </tr>
155 <tr>
156     <th>25</th>
157     <td>5.0</td>
158     <td>3.0</td>
159     <td>1.6</td>
160     <td>0.2</td>
161 </tr>
162 <tr>
163     <th>26</th>
164     <td>5.0</td>
165     <td>3.4</td>
166     <td>1.6</td>
167     <td>0.4</td>
168 </tr>
169 <tr>
170     <th>27</th>
```

```
171      <td>5.2</td>
172      <td>3.5</td>
173      <td>1.5</td>
174      <td>0.2</td>
175 </tr>
176 <tr>
177     <th>28</th>
178     <td>5.2</td>
179     <td>3.4</td>
180     <td>1.4</td>
181     <td>0.2</td>
182 </tr>
183 <tr>
184     <th>29</th>
185     <td>4.7</td>
186     <td>3.2</td>
187     <td>1.6</td>
188     <td>0.2</td>
189 </tr>
190 <tr>
191     <th>30</th>
192     <td>4.8</td>
193     <td>3.1</td>
194     <td>1.6</td>
195     <td>0.2</td>
196 </tr>
197 <tr>
198     <th>31</th>
199     <td>5.4</td>
200     <td>3.4</td>
201     <td>1.5</td>
202     <td>0.4</td>
203 </tr>
204 <tr>
```

```
205     <th>32</th>
206     <td>5.2</td>
207     <td>4.1</td>
208     <td>1.5</td>
209     <td>0.1</td>
210 </tr>
211 <tr>
212     <th>...</th>
213     <td>...</td>
214     <td>...</td>
215     <td>...</td>
216     <td>...</td>
217 </tr>
218 <tr>
219     <th>120</th>
220     <td>6.9</td>
221     <td>3.2</td>
222     <td>5.7</td>
223     <td>2.3</td>
224 </tr>
225 <tr>
226     <th>121</th>
227     <td>5.6</td>
228     <td>2.8</td>
229     <td>4.9</td>
230     <td>2.0</td>
231 </tr>
232 <tr>
233     <th>122</th>
234     <td>7.7</td>
235     <td>2.8</td>
236     <td>6.7</td>
237     <td>2.0</td>
238 </tr>
```

```
239 <tr>
240   <th>123</th>
241   <td>6.3</td>
242   <td>2.7</td>
243   <td>4.9</td>
244   <td>1.8</td>
245 </tr>
246 <tr>
247   <th>124</th>
248   <td>6.7</td>
249   <td>3.3</td>
250   <td>5.7</td>
251   <td>2.1</td>
252 </tr>
253 <tr>
254   <th>125</th>
255   <td>7.2</td>
256   <td>3.2</td>
257   <td>6.0</td>
258   <td>1.8</td>
259 </tr>
260 <tr>
261   <th>126</th>
262   <td>6.2</td>
263   <td>2.8</td>
264   <td>4.8</td>
265   <td>1.8</td>
266 </tr>
267 <tr>
268   <th>127</th>
269   <td>6.1</td>
270   <td>3.0</td>
271   <td>4.9</td>
272   <td>1.8</td>
```

```
273 </tr>
274 <tr>
275   <th>128</th>
276   <td>6.4</td>
277   <td>2.8</td>
278   <td>5.6</td>
279   <td>2.1</td>
280 </tr>
281 <tr>
282   <th>129</th>
283   <td>7.2</td>
284   <td>3.0</td>
285   <td>5.8</td>
286   <td>1.6</td>
287 </tr>
288 <tr>
289   <th>130</th>
290   <td>7.4</td>
291   <td>2.8</td>
292   <td>6.1</td>
293   <td>1.9</td>
294 </tr>
295 <tr>
296   <th>131</th>
297   <td>7.9</td>
298   <td>3.8</td>
299   <td>6.4</td>
300   <td>2.0</td>
301 </tr>
302 <tr>
303   <th>132</th>
304   <td>6.4</td>
305   <td>2.8</td>
306   <td>5.6</td>
```

```
307      <td>2.2</td>
308 </tr>
309 <tr>
310     <th>133</th>
311     <td>6.3</td>
312     <td>2.8</td>
313     <td>5.1</td>
314     <td>1.5</td>
315 </tr>
316 <tr>
317     <th>134</th>
318     <td>6.1</td>
319     <td>2.6</td>
320     <td>5.6</td>
321     <td>1.4</td>
322 </tr>
323 <tr>
324     <th>135</th>
325     <td>7.7</td>
326     <td>3.0</td>
327     <td>6.1</td>
328     <td>2.3</td>
329 </tr>
330 <tr>
331     <th>136</th>
332     <td>6.3</td>
333     <td>3.4</td>
334     <td>5.6</td>
335     <td>2.4</td>
336 </tr>
337 <tr>
338     <th>137</th>
339     <td>6.4</td>
340     <td>3.1</td>
```



```
341     <td>5.5</td>
342     <td>1.8</td>
343 </tr>
344 <tr>
345     <th>138</th>
346     <td>6.0</td>
347     <td>3.0</td>
348     <td>4.8</td>
349     <td>1.8</td>
350 </tr>
351 <tr>
352     <th>139</th>
353     <td>6.9</td>
354     <td>3.1</td>
355     <td>5.4</td>
356     <td>2.1</td>
357 </tr>
358 <tr>
359     <th>140</th>
360     <td>6.7</td>
361     <td>3.1</td>
362     <td>5.6</td>
363     <td>2.4</td>
364 </tr>
365 <tr>
366     <th>141</th>
367     <td>6.9</td>
368     <td>3.1</td>
369     <td>5.1</td>
370     <td>2.3</td>
371 </tr>
372 <tr>
373     <th>142</th>
374     <td>5.8</td>
```

375	<td>2.7</td>
376	<td>5.1</td>
377	<td>1.9</td>
378	</tr>
379	<tr>
380	<th>143</th>
381	<td>6.8</td>
382	<td>3.2</td>
383	<td>5.9</td>
384	<td>2.3</td>
385	</tr>
386	<tr>
387	<th>144</th>
388	<td>6.7</td>
389	<td>3.3</td>
390	<td>5.7</td>
391	<td>2.5</td>
392	</tr>
393	<tr>
394	<th>145</th>
395	<td>6.7</td>
396	<td>3.0</td>
397	<td>5.2</td>
398	<td>2.3</td>
399	</tr>
400	<tr>
401	<th>146</th>
402	<td>6.3</td>
403	<td>2.5</td>
404	<td>5.0</td>
405	<td>1.9</td>
406	</tr>
407	<tr>
408	<th>147</th>

```
409     <td>6.5</td>
410     <td>3.0</td>
411     <td>5.2</td>
412     <td>2.0</td>
413 </tr>
414 <tr>
415     <th>148</th>
416     <td>6.2</td>
417     <td>3.4</td>
418     <td>5.4</td>
419     <td>2.3</td>
420 </tr>
421 <tr>
422     <th>149</th>
423     <td>5.9</td>
424     <td>3.0</td>
425     <td>5.1</td>
426     <td>1.8</td>
427 </tr>
```

147 rows × 4 columns

## 重新设置索引

```
1 iris = iris.reset_index(drop = True)
2 iris.head()
```

```
1 <tr style="text-align: right;">
2   <th></th>
3   <th>sepal_length</th>
4   <th>sepal_width</th>
5   <th>petal_length</th>
6   <th>petal_width</th>
7 </tr>
```

```
1 <tr>
2   <th>0</th>
3   <td>4.6</td>
4   <td>3.1</td>
5   <td>1.5</td>
6   <td>0.2</td>
7 </tr>
8 <tr>
9   <th>1</th>
10  <td>5.0</td>
11  <td>3.6</td>
12  <td>1.4</td>
13  <td>0.2</td>
14 </tr>
15 <tr>
16  <th>2</th>
17  <td>5.4</td>
18  <td>3.9</td>
19  <td>1.7</td>
20  <td>0.4</td>
21 </tr>
22 <tr>
23  <th>3</th>
24  <td>4.6</td>
25  <td>3.4</td>
26  <td>1.4</td>
27  <td>0.3</td>
28 </tr>
29 <tr>
30  <th>4</th>
31  <td>5.0</td>
32  <td>3.4</td>
33  <td>1.5</td>
34  <td>0.2</td>
```

