In [1]:
```
import pandas as pd
df = pd.read_csv('IRIS.csv')
df.columns = ['Sepal_length', 'Sepal_width', 'Petal_length', 'Petal_width', 'Speci
summary_stats = df['Sepal_length'].groupby(df['Species']).describe()
```

In [2]:
```
print(summary_stats)
```

```
                 count   mean       std  min    25%  50%  75%  max
Species
Iris-setosa       50.0  5.006  0.352490  4.3  4.800  5.0  5.2  5.8
Iris-versicolor   50.0  5.936  0.516171  4.9  5.600  5.9  6.3  7.0
Iris-virginica    50.0  6.588  0.635880  4.9  6.225  6.5  6.9  7.9
```

In [5]:
```
import seaborn as sns
iris_df = sns.load_dataset('iris')

setosa_summary_stats = iris_df[iris_df.species == "setosa"].describe()
versicolor_summary_stats = iris_df[iris_df.species == "versicolor"].describe()
virginica_summary_stats = iris_df[iris_df.species == "virginica"].describe()

print("Iris-setosa statistics:\n", setosa_summary_stats)
print("Iris-versicolor statistics:\n", versicolor_summary_stats)
print("Iris-virginica statistics:\n", virginica_summary_stats)
```

```
Iris-setosa statistics:
        sepal_length  sepal_width  petal_length  petal_width
count      50.00000    50.000000     50.000000    50.000000
mean        5.00600     3.428000      1.462000     0.246000
std         0.35249     0.379064      0.173664     0.105386
min         4.30000     2.300000      1.000000     0.100000
25%         4.80000     3.200000      1.400000     0.200000
50%         5.00000     3.400000      1.500000     0.200000
75%         5.20000     3.675000      1.575000     0.300000
max         5.80000     4.400000      1.900000     0.600000
Iris-versicolor statistics:
        sepal_length  sepal_width  petal_length  petal_width
count     50.000000    50.000000     50.000000    50.000000
mean       5.936000     2.770000      4.260000     1.326000
std        0.516171     0.313798      0.469911     0.197753
min        4.900000     2.000000      3.000000     1.000000
25%        5.600000     2.525000      4.000000     1.200000
50%        5.900000     2.800000      4.350000     1.300000
75%        6.300000     3.000000      4.600000     1.500000
max        7.000000     3.400000      5.100000     1.800000
Iris-virginica statistics:
        sepal_length  sepal_width  petal_length  petal_width
count      50.00000    50.000000     50.000000     50.00000
mean        6.58800     2.974000      5.552000      2.02600
std         0.63588     0.322497      0.551895      0.27465
min         4.90000     2.200000      4.500000      1.40000
25%         6.22500     2.800000      5.100000      1.80000
50%         6.50000     3.000000      5.550000      2.00000
75%         6.90000     3.175000      5.875000      2.30000
max         7.90000     3.800000      6.900000      2.50000
```