

```

import pandas as pd

df = pd.read_csv('Iris.csv')

grouped = df.groupby('Species')

mean_values = grouped.mean()
median_values = grouped.median()
std_dev_values = grouped.std()
min_values = grouped.min()
max_values = grouped.max()
percentiles = grouped.quantile([0.25, 0.50, 0.75])

print("Mean Values:")
print(mean_values)

print("\nMedian Values:")
print(median_values)

print("\nStandard Deviation Values:")
print(std_dev_values)

print("\nMinimum Values:")
print(min_values)

print("\nMaximum Values:")
print(max_values)

print("\nPercentiles:")
print(percentiles)

```



Mean Values:

| | Id | SepalLengthCm | SepalWidthCm | PetalLengthCm | \ |
|-----------------|-------|---------------|--------------|---------------|---|
| Species | | | | | |
| Iris-setosa | 25.5 | 5.006 | 3.418 | 1.464 | |
| Iris-versicolor | 75.5 | 5.936 | 2.770 | 4.260 | |
| Iris-virginica | 125.5 | 6.588 | 2.974 | 5.552 | |

PetalWidthCm

| | |
|-----------------|-------|
| Species | |
| Iris-setosa | 0.244 |
| Iris-versicolor | 1.326 |
| Iris-virginica | 2.026 |

Median Values:

| | Id | SepalLengthCm | SepalWidthCm | PetalLengthCm | \ |
|-----------------|-------|---------------|--------------|---------------|---|
| Species | | | | | |
| Iris-setosa | 25.5 | 5.0 | 3.4 | 1.50 | |
| Iris-versicolor | 75.5 | 5.9 | 2.8 | 4.35 | |
| Iris-virginica | 125.5 | 6.5 | 3.0 | 5.55 | |

PetalWidthCm

| | |
|-----------------|-----|
| Species | |
| Iris-setosa | 0.2 |
| Iris-versicolor | 1.3 |
| Iris-virginica | 2.0 |

Standard Deviation Values:

| | Id | SepalLengthCm | SepalWidthCm | PetalLengthCm | \ |
|-----------------|----------|---------------|--------------|---------------|---|
| Species | | | | | |
| Iris-setosa | 14.57738 | 0.352490 | 0.381024 | 0.173511 | |
| Iris-versicolor | 14.57738 | 0.516171 | 0.313798 | 0.469911 | |
| Iris-virginica | 14.57738 | 0.635880 | 0.322497 | 0.551895 | |

PetalWidthCm

| | |
|-----------------|----------|
| Species | |
| Iris-setosa | 0.107210 |
| Iris-versicolor | 0.197753 |
| Iris-virginica | 0.274650 |

Minimum Values:

| | Id | SepalLengthCm | SepalWidthCm | PetalLengthCm | PetalWidthCm |
|---------|----|---------------|--------------|---------------|--------------|
| Species | | | | | |

| | | | | | |
|-----------------|-----|-----|-----|-----|-----|
| Iris-setosa | 1 | 4.3 | 2.3 | 1.0 | 0.1 |
| Iris-versicolor | 51 | 4.9 | 2.0 | 3.0 | 1.0 |
| Iris-virginica | 101 | 4.9 | 2.2 | 4.5 | 1.4 |

Maximum Values:

| | Id | SepalLengthCm | SepalWidthCm | PetalLengthCm | PetalWidthCm |
|-----------------|-----|---------------|--------------|---------------|--------------|
| Species | | | | | |
| Iris-setosa | 50 | 5.8 | 4.4 | 1.9 | 0.6 |
| Iris-versicolor | 100 | 7.0 | 3.4 | 5.1 | 1.8 |
| Iris-virginica | 150 | 7.9 | 3.8 | 6.9 | 2.5 |

Percentiles:

| | | Id | SepalLengthCm | SepalWidthCm | PetalLengthCm | \ |
|-------------|------|-------|---------------|--------------|---------------|---|
| Species | | | | | | |
| Iris-setosa | 0.25 | 13.25 | 4.800 | 3.125 | 1.400 | |
| | 0.50 | 25.50 | 5.000 | 3.400 | 1.500 | |