

## BILC Assignment 02

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## BILC Assignment 02

Select the Top 20 records for each class (three queries here) - Base the top 20 on your choice of any of the other fields - sepal length, sepal width, petal length, or petal width

Class Iris-setosa:

Showing rows 0 - 19 (20 total, Query took 0.0011 seconds.) [sepal\_length: 5.8... - 5.1...]

```
SELECT sepal_length, class FROM iris WHERE class='Iris-setosa' ORDER BY sepal_length DESC LIMIT 20;
```

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+ Options

sepal_length	class
5.8	Iris-setosa
5.7	Iris-setosa
5.7	Iris-setosa
5.5	Iris-setosa
5.5	Iris-setosa
5.4	Iris-setosa
5.4	Iris-setosa
5.4	Iris-setosa
5.4	Iris-setosa
5.4	Iris-setosa
5.3	Iris-setosa
5.2	Iris-setosa
5.2	Iris-setosa
5.2	Iris-setosa
5.1	Iris-setosa
5.1	Iris-setosa
5.1	Iris-setosa
5.1	Iris-setosa
5.1	Iris-setosa
5.1	Iris-setosa

Class Iris-

versicolor

Showing rows 0 - 19 (20 total, Query took 0.0010 seconds.) [sepal\_width: 3.4... - 2.9...]

```
SELECT sepal_width, class FROM iris WHERE class='Iris-versicolor' ORDER BY sepal_width DESC LIMIT 20;
```

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+ Options

sepal_width	class
3.4	Iris-versicolor
3.3	Iris-versicolor
3.2	Iris-versicolor
3.2	Iris-versicolor
3.2	Iris-versicolor
3.1	Iris-versicolor
3.1	Iris-versicolor
3.1	Iris-versicolor
3	Iris-versicolor
3	Iris-versicolor
3	Iris-versicolor
3	Iris-versicolor
3	Iris-versicolor
3	Iris-versicolor
3	Iris-versicolor
3	Iris-versicolor
2.9	Iris-versicolor
2.9	Iris-versicolor
2.9	Iris-versicolor
2.9	Iris-versicolor

# BILC Assignment 02

## Class Iris-virginica

Showing rows 0 - 19 (20 total, Query took 0.0010 seconds.) [petal\_width: 2.5... - 2.1...]

```
SELECT petal_width, class FROM iris WHERE class='Iris-virginica' ORDER BY petal_width DESC LIMIT 20;
```

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+ Options

petal_width	class
2.5	Iris-virginica
2.5	Iris-virginica
2.5	Iris-virginica
2.4	Iris-virginica
2.4	Iris-virginica
2.4	Iris-virginica
2.3	Iris-virginica
2.3	Iris-virginica
2.3	Iris-virginica
2.3	Iris-virginica
2.3	Iris-virginica
2.3	Iris-virginica
2.3	Iris-virginica
2.2	Iris-virginica
2.2	Iris-virginica
2.2	Iris-virginica
2.1	Iris-virginica
2.1	Iris-virginica
2.1	Iris-virginica

Query results operations

- Show the MIN and MAX for each class (three queries here) - Base MIN and MAX based on your choice of any of the other fields - sepal length, sepal width, petal length, or petal width

## Class Iris-setosa

Showing rows 0 - 0 (1 total, Query took 0.0017 seconds.)

```
SELECT MIN(sepal_length) as Minimum, MAX(sepal_length) as Maximum, class FROM iris WHERE class='Iris-setosa';
```

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☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

Minimum	Maximum	class
4.3	5.8	Iris-setosa

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

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Bookmark this SQL query

## BILC Assignment 02

### Class Iris-versicolor

✓ Showing rows 0 - 0 (1 total, Query took 0.0011 seconds.)

```
SELECT MIN(petal_width) as Minimum, MAX(petal_width) as Maximum, class FROM iris WHERE class='Iris-virginica';
```

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☐ Show all | Number of rows: 25 | Filter rows:

+ Options

Minimum	Maximum	class
1.4	2.5	Iris-virginica

☐ Show all | Number of rows: 25 | Filter rows:

Query results operations

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### Class Iris-virginica

✓ Showing rows 0 - 0 (1 total, Query took 0.0021 seconds.)

```
SELECT MIN(sepal_width) as Minimum, MAX(sepal_width) as Maximum, class FROM iris WHERE class='Iris-versicolor';
```

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☐ Show all | Number of rows: 25 | Filter rows:

+ Options

Minimum	Maximum	class
2	3.4	Iris-versicolor

☐ Show all | Number of rows: 25 | Filter rows:

Query results operations

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Show the AVG value for petal length and petal width for each class (three queries here)

### Class Iris-setosa

## BILC Assignment 02

✓ Showing rows 0 - 0 (1 total, Query took 0.0012 seconds.)

```
SELECT AVG(petal_length) as AVG_PL, AVG(petal_width)as AVG_PW, class FROM iris WHERE class='Iris-setosa';
```

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☐ Show all | Number of rows: 25 | Filter rows:

+ Options

AVG_PL	AVG_PW	class
1.464	0.2439999999999999	Iris-setosa

☐ Show all | Number of rows: 25 | Filter rows:

Query results operations

### Class Iris-versicolor

✓ Showing rows 0 - 0 (1 total, Query took 0.0011 seconds.)

```
SELECT AVG(petal_length) as AVG_PL, AVG(petal_width)as AVG_PW, class FROM iris WHERE class='Iris-versicolor';
```

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☐ Show all | Number of rows: 25 | Filter rows:

+ Options

AVG_PL	AVG_PW	class
4.26	1.3259999999999998	Iris-versicolor

☐ Show all | Number of rows: 25 | Filter rows:

Query results operations

### Class Iris-virginica

✓ Showing rows 0 - 0 (1 total, Query took 0.0011 seconds.)

```
SELECT AVG(petal_length) as AVG_PL, AVG(petal_width)as AVG_PW, class FROM iris WHERE class='Iris-virginica';
```

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☐ Show all | Number of rows: 25 | Filter rows:

+ Options

AVG_PL	AVG_PW	class
5.552	2.026	Iris-virginica

☐ Show all | Number of rows: 25 | Filter rows:

Query results operations

Show all values for sepal length and sepal height that are within +/- one Standard Deviation from the mean of those values

## BILC Assignment 02

I have used the query provided to try. The following is the result and interestingly enough there is not a numerical value returned.

My sql didn't like the uptiks for some reason so I replaced them with single quotes. And then it complained and I found it was due to the spaces.

Modified version below:

```
SELECT 'sepal-length', 'sepal-width'
FROM iris
WHERE 'sepal-length' BETWEEN
(
SELECT AVG('sepal-length') - STDDEV('sepal-length')
FROM iris
)
AND
(
SELECT AVG('sepal-length') + STDDEV('sepal-length')
FROM iris
)
AND 'sepal-width' BETWEEN
(
SELECT AVG('sepal-width') - STDDEV('sepal-width')
FROM iris
)
```

Results are below:

[illegible]