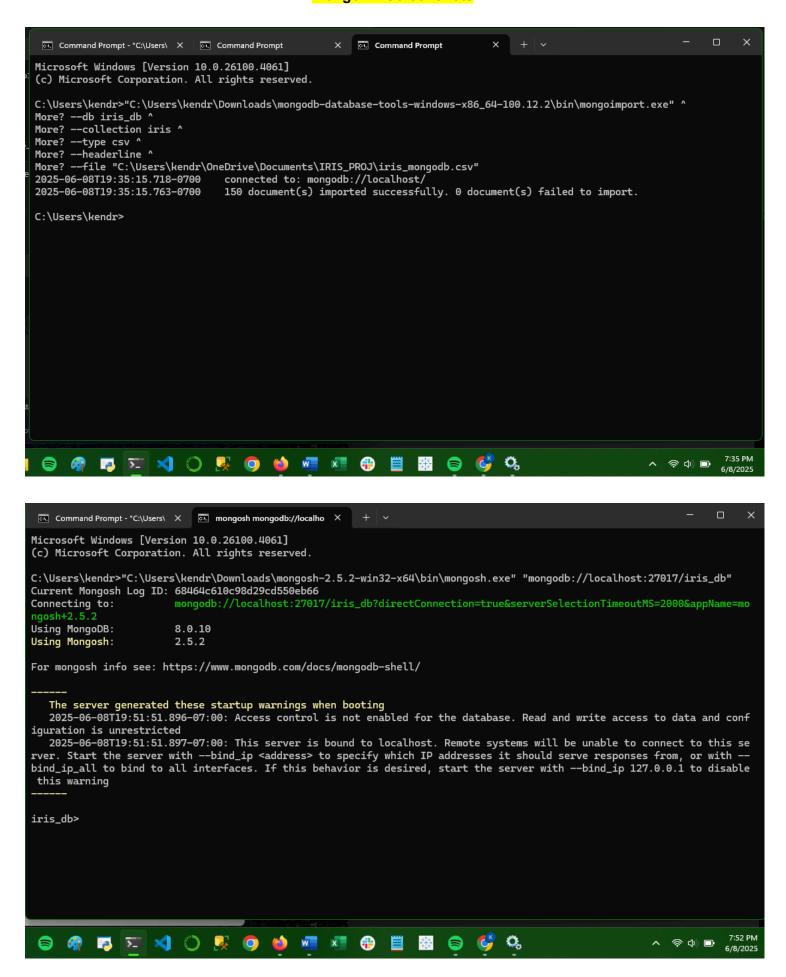
### **MongoDB Screenshots**



#### Confirm how many records/samples exist for each iris species

# Check for missing data

## Summary stats for the dataset

```
iris_db> db.iris.aggregate([
      {
         $group: {
. . .
           _id: null,
           avg_sepal_length: { $avg: "$sepal_length" },
. . .
           min_sepal_length: { $min: "$sepal_length" },
. . .
           max_sepal_length: { $max: "$sepal_length" },
           avg_sepal_width: { $avg: "$sepal_width" },
min_sepal_width: { $min: "$sepal_width" },
. . .
. . .
           max_sepal_width: { $max: "$sepal_width" },
           avg_petal_length: { $avg: "$petal_length"
. . .
           min_petal_length: { $min: "$petal_length"
           max_petal_length: { $max: "$petal_length" },
           avg_petal_width: { $avg: "$petal_width" },
min_petal_width: { $min: "$petal_width" },
. . .
           max_petal_width: { $max: "$petal_width"
. . .
    1)
<u>...</u>
  {
    _id: null,
    avg_sepal_length: 5.843333333333334,
    min_sepal_length: 4.3,
    max_sepal_length: 7.9,
avg_sepal_width: 3.0540000000000003,
    min_sepal_width: 2,
    max_sepal_width: 4.4,
    min_petal_length: 1,
    max_petal_length: 6.9,
    avg_petal_width: 1.1986666666666668,
    min_petal_width: 0.1,
    max_petal_width: 2.5
  }
iris_db>
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```

### Determine the average petal length of each species

## Determine the average sepal length of each species

## Top 5 largest record samples for petal width

```
iris_db> db.iris.find().sort({ petal_width: -1 }).limit(5)
 {
    _id: ObjectId('684648635923fb163ecc69aa'),
    sepal_length: 6.7,
    sepal_width: 3.3,
    petal_length: 5.7,
    species: 'virginica',
    petal_width: 2.5
    _id: ObjectId('684648635923fb163ecc6994'),
    sepal_length: 6.3,
    sepal_width: 3.3,
    petal_length: 6,
    species: 'virginica',
    petal_width: 2.5
    _id: ObjectId('684648635923fb163ecc6985'),
   sepal_length: 7.2,
    sepal_width: 3.6,
    petal_length: 6.1,
    species: 'virginica',
    petal_width: 2.5
    _id: ObjectId('684648635923fb163ecc69a5'),
    sepal_length: 6.7,
    sepal_width: 3.1,
    petal_length: 5.6,
    species: 'virginica',
    petal_width: 2.4
    _id: ObjectId('684648635923fb163ecc69a1'),
    sepal_length: 6.3,
    sepal_width: 3.4,
    petal_length: 5.6,
    species: 'virginica',
    petal_width: 2.4
iris_db>
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```

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```
iris_db> db.iris.find().sort({ petal_length: -1 }).limit(5)
    _id: ObjectId('684648635923fb163ecc6990'),
    sepal_length: 7.7,
    sepal_width: 2.6,
    petal_length: 6.9,
    species: 'virginica',
    petal_width: 2.3
    _id: ObjectId('684648635923fb163ecc69af'),
    sepal_length: 7.7,
    sepal_width: 2.8,
    petal_length: 6.7,
    species: 'virginica',
    petal_width: 2
    _id: ObjectId('684648635923fb163ecc698d'),
    sepal_length: 7.7,
    sepal_width: 3.8,
    petal_length: 6.7,
    species: 'virginica',
    petal_width: 2.2
    _id: ObjectId('684648635923fb163ecc6989'),
    sepal_length: 7.6,
    sepal_width: 3,
    petal_length: 6.6,
    species: 'virginica',
    petal_width: 2.1
    _id: ObjectId('684648635923fb163ecc699b'),
    sepal_length: 7.9,
    sepal_width: 3.8,
    petal_length: 6.4,
    species: 'virginica',
    petal_width: 2
iris_db>
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```