Lab 09

Name : Dev Soni

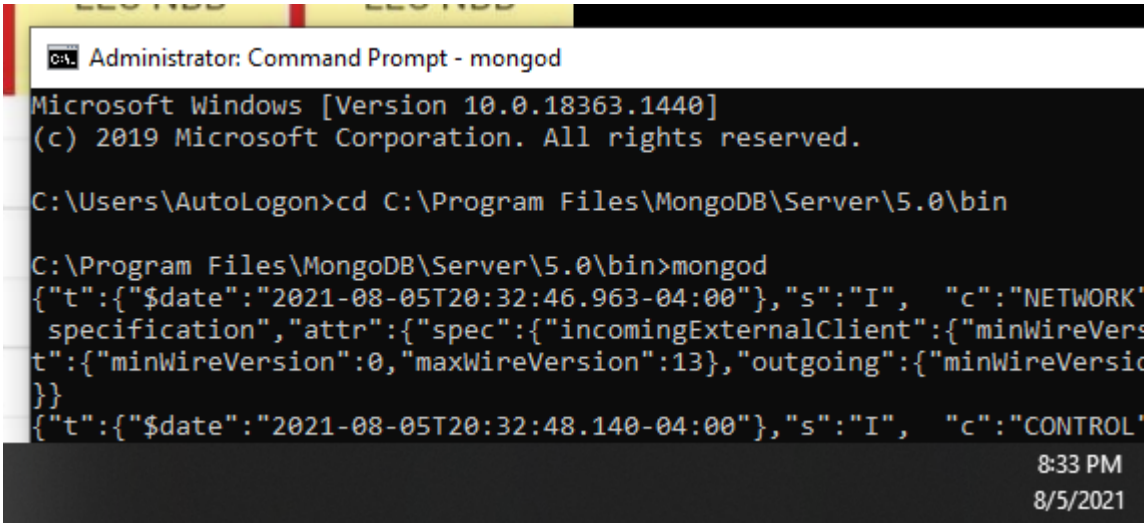
Seneca ID :130759210

Open your Windows command prompt and go the following directory where MongoDB is installed:

- cd C:\Program Files\MongoDB\Server\4.2**bin**

To run MongoDB, execute ***mongod***

- mongod

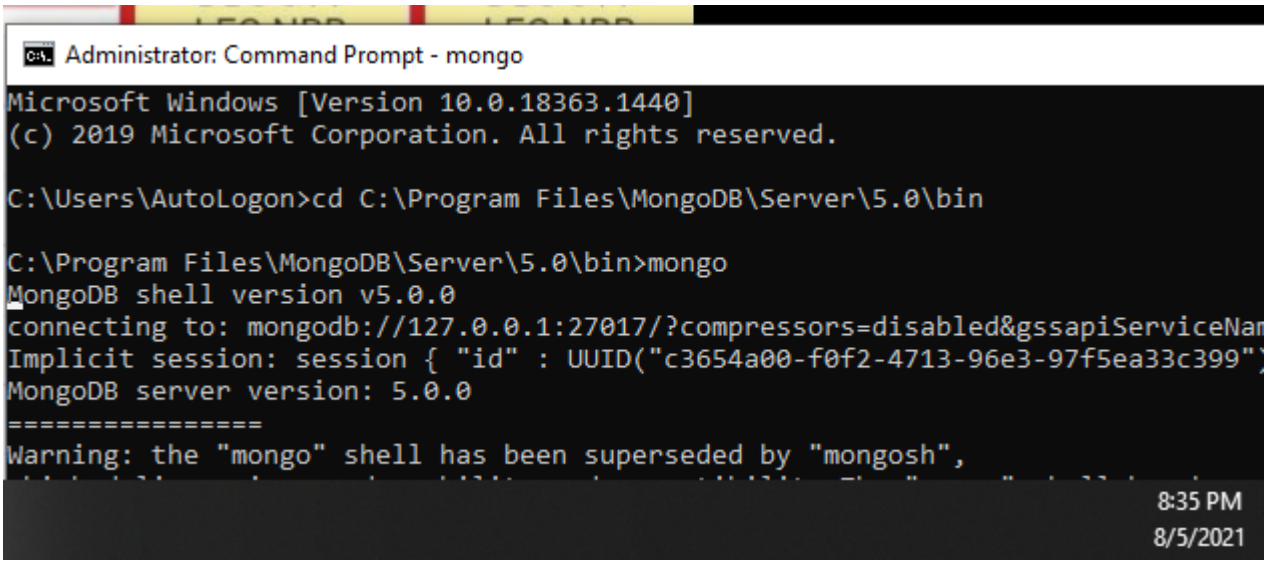


When MongoDB starts successfully, open another Windows command prompt and go the same *bin* directory:

- cd C:\Program Files\MongoDB\Server\4.2**bin**

and execute ***mongo***

- mongo



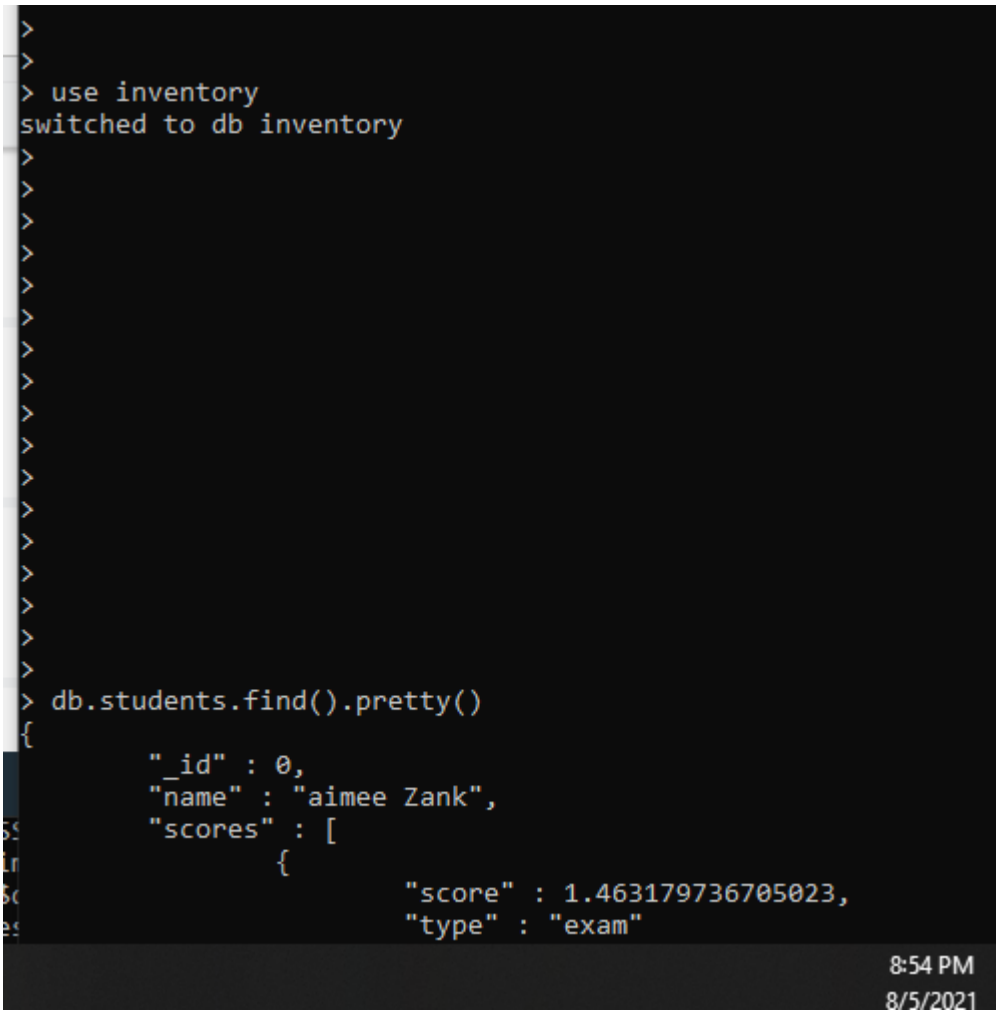
- show dbs

You should see the database *college* added to the list of your databases. To see the documents inside the database:

- use college
- db.students.find().forEach(printjson)

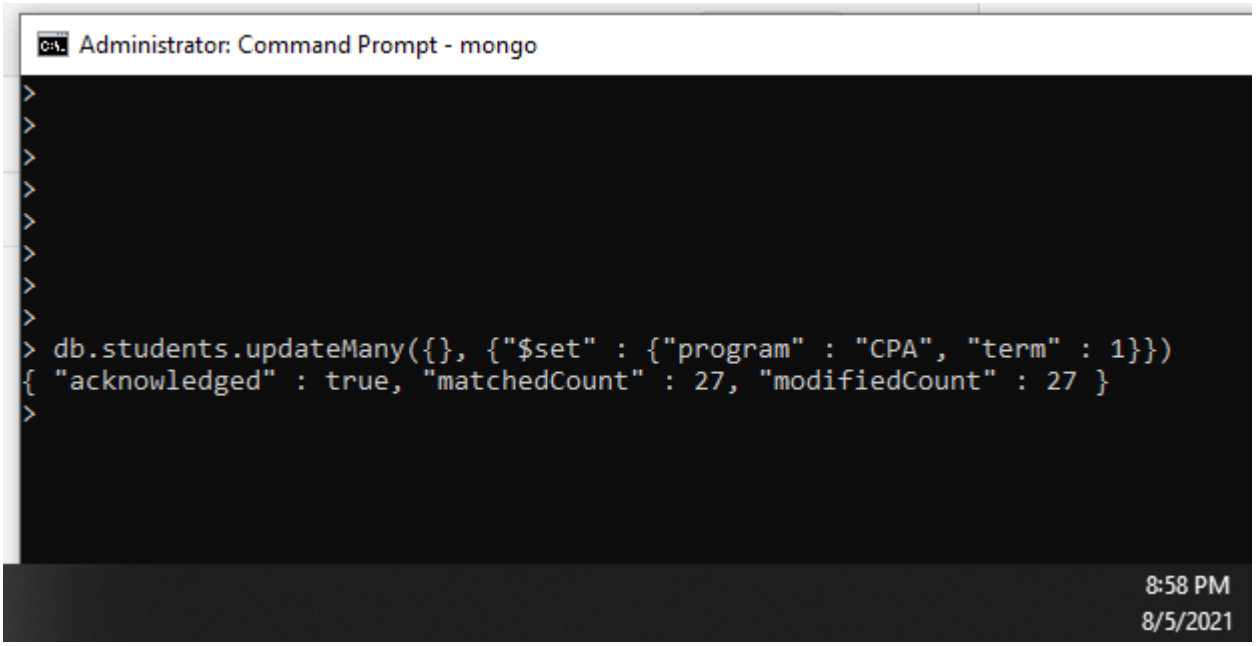
or

- db.students.find().pretty()



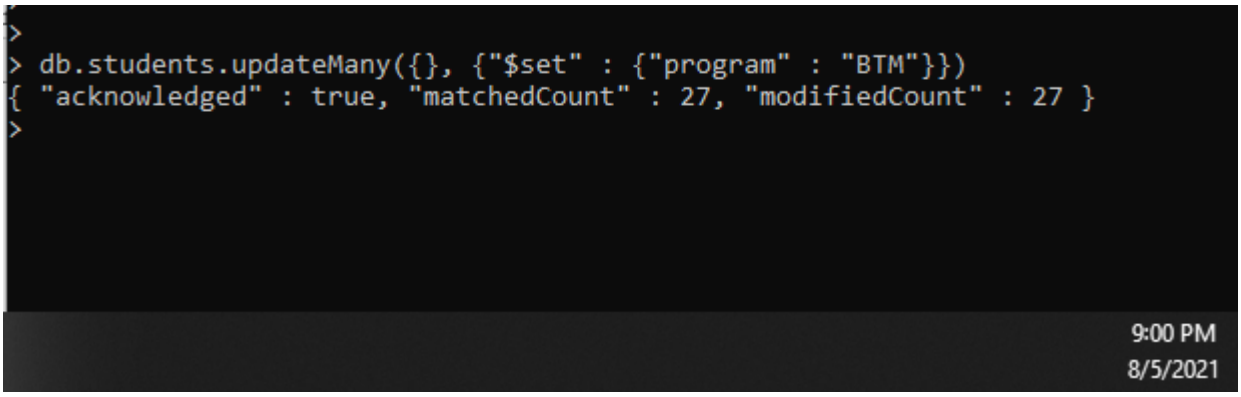
1. Write an update statement to add new fields *program* and *term* to all documents in the *students* collection and set them to values "*CPA*" and *1*.

```
db.students.updateMany({}, {"$set" : {"program" : "CPA", "term" :
1}})
```



2. Write an update statement to modify the value of the *program* field to *"BTM"* for all documents in the *students* collection.

```
db.students.updateMany({}, {"$set" : {"program" : "BTM"}})
```



3. Write an update statement to modify the value of the program field to *"CPA"* for the student named *Jonie Raby*.
   Before executing an update statement or a delete statement, you can use the *find()* method with the update or delete criteria, to see how many documents will be affected. Write the update statement in the box below.

```
db.students.updateMany({"name" : "Jonie Raby"}, {"$set" : {"program"
: "CPA"}}
```

```
>
> db.students.updateMany({"name" : "Jonie Raby"}, {"$set" : {"program" : "CPA"}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
>
```

How many documents are there with the value *Jonie Raby* for the *name* field? __1_____
How many documents were updated? ___1_____

4. Write a query to show only the *program* field for the document that the value of the filed *name* is *Jonie Raby*.

```
db.students.find({"name" : "Jonie Raby"}, {"program" : 1, "_id" : 0})
```

```
>
> db.students.find({"name" : "Jonie Raby"}, {"program" : 1, "_id" : 0})
{ "program" : "CPA" }
>
```

5. Write an update statement to increase the value of the *term* field by 2 for documents with *_id* 20, 22, and 24.

```
db.students.updateMany({"_id" : {"$in" : [20,22,24]}}, {"$inc" : {"term" : 2}})
```

```
>
> db.students.updateMany({"_id" : {"$in" : [20,22,24]}}, {"$inc" : {"term" : 2}})
{ "acknowledged" : true, "matchedCount" : 3, "modifiedCount" : 3 }
>
```

6. Write an update statement to remove the *term* field from documents that the value of the *term* filed is 3.

```
db.students.updateMany({"term" : 3}, {"$unset" : {"term" : 1}})
```

```
>
>
> db.students.updateMany({"term" : 3}, {"$unset" : {"term" : 1}})
{ "acknowledged" : true, "matchedCount" : 3, "modifiedCount" : 3 }
>
```