

Lab 09

Name : Dev Soni

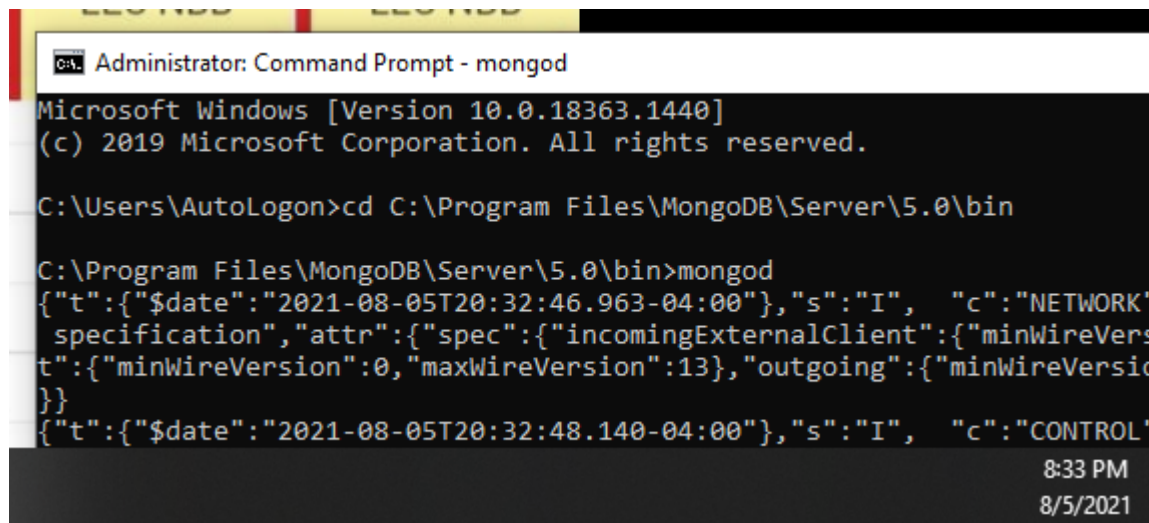
Seneca ID :130759210

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`



```
Administrator: Command Prompt - mongod
Microsoft Windows [Version 10.0.18363.1440]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\AutoLogin>cd C:\Program Files\MongoDB\Server\5.0\bin

C:\Program Files\MongoDB\Server\5.0\bin>mongod
{"t":{"$date":"2021-08-05T20:32:46.963-04:00"},"s":"I",  "c":"NETWORK"
specification","attr":{"spec":{"incomingExternalClient":{"minWireVers
t":{"minWireVersion":0,"maxWireVersion":13},"outgoing":{"minWireVersio
}}}
{"t":{"$date":"2021-08-05T20:32:48.140-04:00"},"s":"I",  "c":"CONTROL"
8:33 PM
8/5/2021
```

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`

```
Administrator: Command Prompt - mongo
Microsoft Windows [Version 10.0.18363.1440]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\AutoLogon>cd C:\Program Files\MongoDB\Server\5.0\bin

C:\Program Files\MongoDB\Server\5.0\bin>mongo
MongoDB shell version v5.0.0
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("c3654a00-f0f2-4713-96e3-97f5ea33c399") }
MongoDB server version: 5.0.0
=====
Warning: the "mongo" shell has been superseded by "mongosh",
which is the recommended way to interact with MongoDB.

8:35 PM
8/5/2021
```

- 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()

8:54 PM
8/5/2021

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

```
Administrator: Command Prompt - mongo
>
>
>
>
>
>
>
> db.students.updateMany({}, {"$set" : {"program" : "CPA", "term" : 1}})
{ "acknowledged" : true, "matchedCount" : 27, "modifiedCount" : 27 }
>
```

8:58 PM  
8/5/2021

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"}})
```

```
>
> db.students.updateMany({}, {"$set" : {"program" : "BTM"}})
{ "acknowledged" : true, "matchedCount" : 27, "modifiedCount" : 27 }
>
```

9:00 PM  
8/5/2021

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 field *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* field is 3.

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

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