

PES UNIVERSITY, RR CAMPUS

DBMS LAB WEEK 1

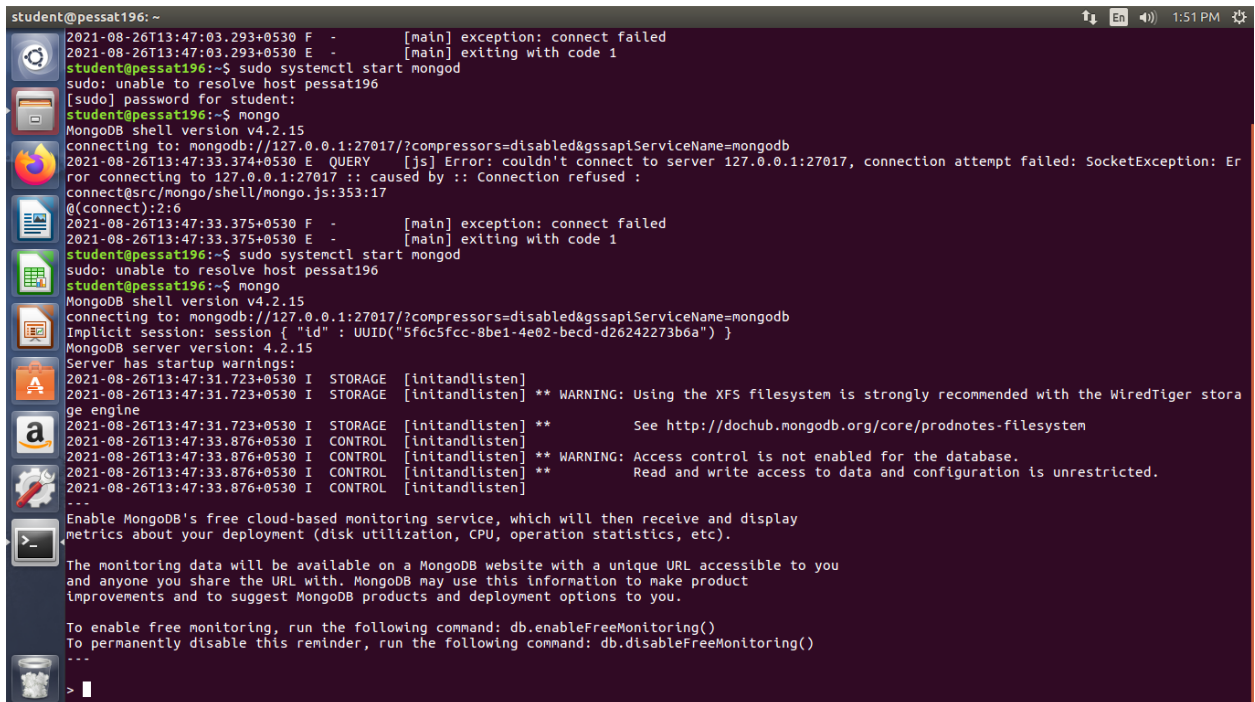
ANANYA UPPAL

PES1UG19CS058

SECTION: 'A'

Title: CRUD Operations in Mongo DB

1. Log in and create database



```
student@pessat196:~$ sudo systemctl start mongod
2021-08-26T13:47:03.293+0530 F - [main] exception: connect failed
2021-08-26T13:47:03.293+0530 E - [main] exiting with code 1
student@pessat196:~$ sudo systemctl start mongod
sudo: unable to resolve host pessat196
[sudo] password for student:
student@pessat196:~$ mongo
MongoDB shell version v4.2.15
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongod
2021-08-26T13:47:33.374+0530 E QUERY [js] Error: couldn't connect to server 127.0.0.1:27017, connection attempt failed: SocketException: Er
ror connecting to 127.0.0.1:27017 :: caused by :: Connection refused :
connect@src/mongo/shell/mongo.js:353:17
@(<connect>):2:6
2021-08-26T13:47:33.375+0530 F - [main] exception: connect failed
2021-08-26T13:47:33.375+0530 E - [main] exiting with code 1
student@pessat196:~$ sudo systemctl start mongod
sudo: unable to resolve host pessat196
student@pessat196:~$ mongo
MongoDB shell version v4.2.15
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongod
Implicit session: session { "id" : UUID("5f6c5fcc-8be1-4e02-becd-d26242273b6a") }
MongoDB server version: 4.2.15
Server has startup warnings:
2021-08-26T13:47:31.723+0530 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger stora
ge engine
2021-08-26T13:47:31.723+0530 I STORAGE [initandlisten] ** See http://dochub.mongodb.org/core/prodnotes-filesystem
2021-08-26T13:47:33.876+0530 I CONTROL [initandlisten] **
2021-08-26T13:47:33.876+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2021-08-26T13:47:33.876+0530 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.
2021-08-26T13:47:33.876+0530 I CONTROL [initandlisten] **
***
Enable MongoDB's free cloud-based monitoring service, which will then receive and display
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
***
> |
```

2. Insert One record and then Multiple Records and then read the database

```
student@pessat196: ~
2021-08-26T13:47:33.876+0530 I CONTROL [initandlisten]
---
Enable MongoDB's free cloud-based monitoring service, which will then receive and display
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
---
> show collections
PES1UG19CS434
Stu1923
Student
Student2
Studentdb
> db.anana.insertOne({item:"canvas",qty:100,tags:["cotton"],size:{h:28,w:35.5,uom:"cm"}})
{
  "acknowledged" : true,
  "insertedId" : ObjectId("6127504d84a85bd92207217f")
}
> db.anana.insertMany([{{item:"journal",qty:25,tags:["blank","red"],size:{h:14,w:21,uom:"cm"}},{item:"mat",qty:85,tags:["gray"],size:{size:27.9,w:35.5,uom:"cm"}},{item:"mousepad",qty:25,tags:["gel","blue"],size:{h:19,w:22.85,uom:"cm"}}]})
2021-08-26T14:04:03.252+0530 E QUERY [js] uncaught exception: SyntaxError: "" literal not terminated before end of script :
@(:shell):1:233
> db.anana.insertMany([{{item:"journal",qty:25,tags:["blank","red"],size:{h:14,w:21,uom:"cm"}},{item:"mat",qty:85,tags:["gray"],size:{size:27.9,w:35.5,uom:"cm"}},{item:"mousepad",qty:25,tags:["gel","blue"],size:{h:19,w:22.85,uom:"cm"}}]})
2021-08-26T14:04:48.812+0530 E QUERY [js] uncaught exception: SyntaxError: missing : after property id :
@(:shell):1:142
> db.anana.insertMany([{{item:"journal",qty:25,tags:["blank","red"],size:{h:14,w:21,uom:"cm"}},{item:"mat",qty:85,tags:["gray"],size:{h:27.9,w:35.5,uom:"cm"}},{item:"mousepad",qty:25,tags:["gel","blue"],size:{h:19,w:22.85,uom:"cm"}}]})
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("6127528984a85bd922072180"),
    ObjectId("6127528984a85bd922072181"),
    ObjectId("6127528984a85bd922072182")
  ]
}
>
```

3. Update a Record

```
student@pessat196: ~
> db.anana.update({item:"canvas"},{item:"canvas",qty:80,tags:["cotton"],size:{h:28,w:35.5,uom:"cm"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

4. Delete a Record

```
student@pessat196: ~
> db.anana.insertOne({item:"pen",qty:1000,tags:["blue"],size:{h:7,w:1,uom:"cm"}})
{
  "acknowledged" : true,
  "insertedId" : ObjectId("612754bb84a85bd922072183")
}
> db.anana.deleteOne({item:"pen"})
{ "acknowledged" : true, "deletedCount" : 1 }
>
```