# ASSESSMENT - 7

# MySql and Mongo

# Mongodb

1. **Install latest version of MongoDB from apt-get repository.**

```
garima@garima:~$ sudo apt-get install -y mongodb-org
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  mongodb-org-mongos mongodb-org-server mongodb-org-shell mongodb-org-tools
The following NEW packages will be installed:
  mongodb-org mongodb-org-mongos mongodb-org-server mongodb-org-shell
  mongodb-org-tools
0 upgraded, 5 newly installed, 0 to remove and 26 not upgraded.
Need to get 97.4 MB of archives.
```

2. **Create a database student**

```
garima@garima:~$ mongo
MongoDB shell version v4.2.3
```

```
> use STUDENT;
switched to db STUDENT
>
```

3. **Insert operation : 5 students data (Name, Contact, City, Roll No, Branch)**

```
> db.STUDENT.insert({name:"garima",contact:9999999999,city:"dun",roll_no:24,bran
ch:"cs"})
WriteResult({ "nInserted" : 1 })
> db.STUDENT.insert({name:"dabral",contact:8888888888,city:"dun",roll_no:18,bran
ch:"cs"})
WriteResult({ "nInserted" : 1 })
> db.STUDENT.insert({name:"alen",contact:7777777777,city:"delhi",roll_no:34,bran
ch:"ec"})
WriteResult({ "nInserted" : 1 })
> db.STUDENT.insert({name:"alex",contact:6666666666,city:"mumbai",roll_no:78,bra
nch:"mech"})
WriteResult({ "nInserted" : 1 })
> db.STUDENT.insert({name:"sam",contact:5555555555,city:"dubai",roll_no:74,branc
h:"ee"})
WriteResult({ "nInserted" : 1 })
>
```

4. **Read operation : All the students belong to a particular city**

```
> use STUDENT;
switched to db STUDENT
```

```
> db.STUDENT.find();
{ "_id" : ObjectId("5e4998720371d452eb42c360"), "name" : "garima", "contact" : 9
999999999, "city" : "dun", "roll_no" : 24, "branch" : "cs" }
{ "_id" : ObjectId("5e4998900371d452eb42c361"), "name" : "dabral", "contact" : 8
888888888, "city" : "dun", "roll_no" : 18, "branch" : "cs" }
{ "_id" : ObjectId("5e4998e00371d452eb42c362"), "name" : "alen", "contact" : 777
7777777, "city" : "delhi", "roll_no" : 34, "branch" : "ec" }
{ "_id" : ObjectId("5e4999400371d452eb42c363"), "name" : "alex", "contact" : 666
6666666, "city" : "mumbai", "roll_no" : 78, "branch" : "mech" }
{ "_id" : ObjectId("5e4999720371d452eb42c364"), "name" : "sam", "contact" : 5555
555555, "city" : "dubai", "roll_no" : 74, "branch" : "ee" }
```

```
> db.STUDENT.find({city:{$eq:"dun"}});
{ "_id" : ObjectId("5e4998720371d452eb42c360"), "name" : "garima", "contact" : 9
999999999, "city" : "dun", "roll_no" : 24, "branch" : "cs" }
{ "_id" : ObjectId("5e4998900371d452eb42c361"), "name" : "dabral", "contact" : 8
888888888, "city" : "dun", "roll_no" : 18, "branch" : "cs" }
>
```

5. **Update operation : Update the branch of all the students to CSE**

```
> db.STUDENT.find();
{ "_id" : ObjectId("5e4998720371d452eb42c360"), "name" : "garima", "contact" : 9
999999999, "city" : "dun", "roll_no" : 24, "branch" : "cs" }
{ "_id" : ObjectId("5e4998900371d452eb42c361"), "name" : "dabral", "contact" : 8
888888888, "city" : "dun", "roll_no" : 18, "branch" : "cs" }
{ "_id" : ObjectId("5e4998e00371d452eb42c362"), "name" : "alen", "contact" : 777
7777777, "city" : "delhi", "roll_no" : 34, "branch" : "ec" }
{ "_id" : ObjectId("5e4999400371d452eb42c363"), "name" : "alex", "contact" : 666
6666666, "city" : "mumbai", "roll_no" : 78, "branch" : "mech" }
{ "_id" : ObjectId("5e4999720371d452eb42c364"), "name" : "sam", "contact" : 5555
555555, "city" : "dubai", "roll_no" : 74, "branch" : "ee" }
```

```
> db.STUDENT.update( {},{$set:{branch: "CSE"}},{multi: true})
WriteResult({ "nMatched" : 5, "nUpserted" : 0, "nModified" : 5 })
```

```
> db.STUDENT.find();
{ "_id" : ObjectId("5e4998720371d452eb42c360"), "name" : "garima", "contact" : 9
999999999, "city" : "dun", "roll_no" : 24, "branch" : "CSE" }
{ "_id" : ObjectId("5e4998900371d452eb42c361"), "name" : "dabral", "contact" : 8
888888888, "city" : "dun", "roll_no" : 18, "branch" : "CSE" }
{ "_id" : ObjectId("5e4998e00371d452eb42c362"), "name" : "alen", "contact" : 777
7777777, "city" : "delhi", "roll_no" : 34, "branch" : "CSE" }
{ "_id" : ObjectId("5e4999400371d452eb42c363"), "name" : "alex", "contact" : 666
6666666, "city" : "mumbai", "roll_no" : 78, "branch" : "CSE" }
{ "_id" : ObjectId("5e4999720371d452eb42c364"), "name" : "sam", "contact" : 5555
555555, "city" : "dubai", "roll_no" : 74, "branch" : "CSE" }
```

6. **Take dump of the database**

```
> show collections
STUDENT
> show databases
STUDENT  0.000GB
admin    0.000GB
config   0.000GB
local    0.000GB
> ^C
bye
garima@garima:~$ mongodump --db STUDENT -o mongodbdump
2020-02-17T17:20:49.450+0530    writing STUDENT.STUDENT to
2020-02-17T17:20:49.450+0530    done dumping STUDENT.STUDENT (5 documents)
garima@garima:~$ ls
a.sh               Documents         f1.txt       myfile       output.txt
assessment-folder  Downloads         f2.txt       newdir       passwd_backup
backup.tar.gz      d.sh              file1.txt    newdir1      Pictures
b.sh               error.txt         gitdemo      newfile      Public
c.sh               examples.desktop  mongodbdump  oldfile      Templates
Desktop            exercise          Music        outputs.txt  Videos
garima@garima:~$ cd mongodbdump/
garima@garima:~/mongodbdump$ ls
STUDENT
garima@garima:~/mongodbdump$ cd STUDENT/
garima@garima:~/mongodbdump/STUDENT$ ls
STUDENT.bson  STUDENT.metadata.json
garima@garima:~/mongodbdump/STUDENT$
```

7. **Delete operation : Delete the record of last 2 students according to the roll number**

```
> use STUDENT;
switched to db STUDENT
> db.STUDENT.find();
{ "_id" : ObjectId("5e4998720371d452eb42c360"), "name" : "garima", "contact" : 9
999999999, "city" : "dun", "roll_no" : 24, "branch" : "CSE" }
{ "_id" : ObjectId("5e4998900371d452eb42c361"), "name" : "dabral", "contact" : 8
888888888, "city" : "dun", "roll_no" : 18, "branch" : "CSE" }
{ "_id" : ObjectId("5e4998e00371d452eb42c362"), "name" : "alen", "contact" : 777
7777777, "city" : "delhi", "roll_no" : 34, "branch" : "CSE" }
{ "_id" : ObjectId("5e4999400371d452eb42c363"), "name" : "alex", "contact" : 666
6666666, "city" : "mumbai", "roll_no" : 78, "branch" : "CSE" }
{ "_id" : ObjectId("5e4999720371d452eb42c364"), "name" : "sam", "contact" : 5555
555555, "city" : "dubai", "roll_no" : 74, "branch" : "CSE" }
```

```
> db.STUDENT.find().sort({"roll_no":-1}).limit(2).forEach(function(rem){db.getCo
llection("STUDENT").remove({_id:rem._id})})
```

```
> db.STUDENT.find();
{ "_id" : ObjectId("5e4998720371d452eb42c360"), "name" : "garima", "contact" : 9
999999999, "city" : "dun", "roll_no" : 24, "branch" : "CSE" }
{ "_id" : ObjectId("5e4998900371d452eb42c361"), "name" : "dabral", "contact" : 8
888888888, "city" : "dun", "roll_no" : 18, "branch" : "CSE" }
{ "_id" : ObjectId("5e4998e00371d452eb42c362"), "name" : "alen", "contact" : 777
7777777, "city" : "delhi", "roll_no" : 34, "branch" : "CSE" }
```

8. **Drop the database**

```
> db.dropDatabase()
{ "dropped" : "STUDENT", "ok" : 1 }
>
```

9. **Restore the database again to have the full data**

```
garima@garima:~$ cd mongodbdump/
garima@garima:~/mongodbdump$ cd STUDENT/
garima@garima:~/mongodbdump/STUDENT$ mongorestore -d STUDENT STUDENT.bson
2020-02-17T21:21:44.989+0530    checking for collection data in STUDENT.bson
2020-02-17T21:21:44.989+0530    reading metadata for STUDENT.STUDENT from STUDENT.
metadata.json
2020-02-17T21:21:45.037+0530    restoring STUDENT.STUDENT from STUDENT.bson
2020-02-17T21:21:45.099+0530    no indexes to restore
2020-02-17T21:21:45.099+0530    finished restoring STUDENT.STUDENT (5 documents, 0
 failures)
2020-02-17T21:21:45.100+0530    5 document(s) restored successfully. 0 document(s)
 failed to restore.
```

## 10. Enable authentication on the Mongo

```
garima@garima:~$ mongo --port 27017
MongoDB shell version v4.2.3
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("88e84d37-8f6c-4cc3-b11e-4879af8320bb") }
MongoDB server version: 4.2.3
Server has startup warnings:
2020-02-17T00:45:56.831+0530 I  STORAGE  [initandlisten]
```

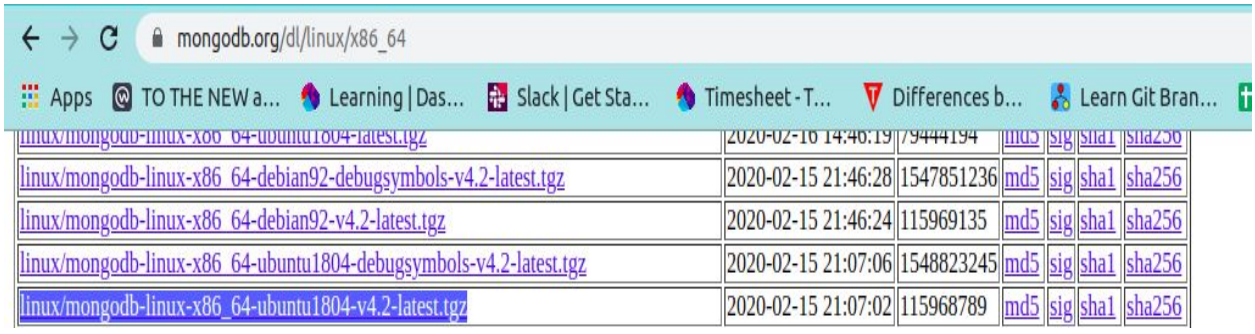
```
> use admin
switched to db admin
> db.createUser(
...   {
...     user: "myUserAdmin",
...     pwd: "abc123",
...     roles: [ { role: "userAdminAnyDatabase", db: "admin" } ]
...   }
... )
Successfully added user: {
        "user" : "myUserAdmin",
        "roles" : [
                {
                        "role" : "userAdminAnyDatabase",
                        "db" : "admin"
                }
        ]
}
```

```
garima@garima:~$ mongo --port 27017 -u "myUserAdmin" -p "abc123" --authenticatio
nDatabase "admin"
MongoDB shell version v4.2.3
connecting to: mongodb://127.0.0.1:27017/?authSource=admin&compressors=disabled&
gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("4fb92e38-9ba8-4e33-8987-e17ffd53c0ad")
}
MongoDB server version: 4.2.3
```

```
# how the process runs
processManagement:
  timeZoneInfo: /usr/share/zoneinfo

#security:
auth=true
#operationProfiling:

#replication:

#sharding:
"/etc/mongod.conf" [readonly] 43L, 635C
```

```
> show databases
STUDENT  0.000GB
admin    0.000GB
config   0.000GB
local    0.000GB
> use STUDENT
switched to db STUDENT
> show collections
STUDENT
```

11. **Install another version of MongoDB from source (Version 2.6.3) and run it on port 27009**



```
garima@garima:/opt$ sudo cp ~/Downloads/mongodb-linux-x86_64-ubuntu1804-v4.2-lat
est.tgz .
[sudo] password for garima:
garima@garima:/opt$ sudo tar -xvzf mongodb-linux-x86_64-ubuntu1804-v4.2-latest.t
gz
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/THIRD-PARTY-NOTICES.gotools
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/README
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/THIRD-PARTY-NOTICES
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/MPL-2
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/LICENSE-Community.txt
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/mongodump
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/mongorestore
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/mongoexport
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/mongoimport
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/mongostat
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/mongotop
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/bsondump
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/mongofiles
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/mongoreplay
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/mongod
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/mongos
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/mongo
mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/install_compass
```

```
garima@garima:/opt$ mkdir -p ~/data/db
garima@garima:/opt$ ls
google      mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe
lost+found  mongodb-linux-x86_64-ubuntu1804-v4.2-latest.tgz
garima@garima:/opt$ cd mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/
garima@garima:/opt/mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe$ cd bin/
garima@garima:/opt/mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin$ ./mong
od --port 27009 --dbpath ~/data/db/
2020-02-18T21:00:37.930+0530 I  CONTROL  [main] Automatically disabling TLS 1.0,
 to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'
2020-02-18T21:00:37.932+0530 W  ASIO     [main] No TransportLayer configured dur
```

```
garima@garima:~$ sudo netstat -nltp | grep mongo
[sudo] password for garima:
tcp        0      0 127.0.0.1:27009         0.0.0.0:*               LISTEN      18301/./mongod

tcp        0      0 127.0.0.1:27017         0.0.0.0:*               LISTEN      22902/mongod

garima@garima:~$ cd /opt/mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/
garima@garima:/opt/mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin$ ./mongo --port 27009
MongoDB shell version v4.2.3-48-gc685bbe
connecting to: mongodb://127.0.0.1:27009/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("2e01985d-6652-45b2-afe0-78e559531954") }
MongoDB server version: 4.2.3-48-gc685bbe
```

12. **Create init service of Mongo installed later***

A. Create unit file to define a systemd service at lib/systemd/system/newmongo.service

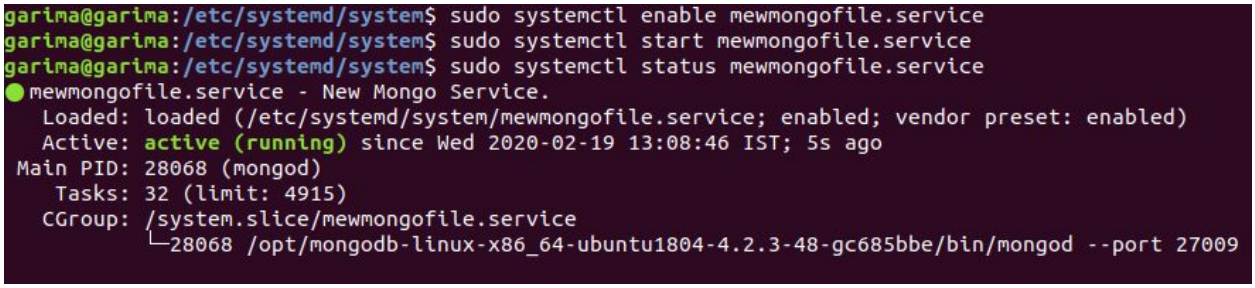
```
garima@garima:~$ sudo vim /lib/systemd/system/mewmongofile.service
garima@garima:~$ cat /lib/systemd/system/mewmongofile.service
[Unit]
Description=New Mongo Service.

[Service]
Type=Simple
ExecStart=/opt/mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/mongod --po
rt 27009 --dbpath /home/garima/data/db

[Install]
WantedBy=Multi-user.target
garima@garima:~$
```

B. Copy new_mongo.service to /etc/systemd/system/ and set 644 permissions to that file

```
garima@garima:/lib/systemd/system$ sudo cp mewmongofile.service /etc/systemd/system
garima@garima:/lib/systemd/system$ sudo chmod 644 /etc/systemd/system/mewmongofile.s
ervice
garima@garima:/lib/systemd/system$
```

C. Run sudo systemctl enable newmongofile.service to create symlink

```
garima@garima:~$ cd /tmp/
garima@garima:/tmp$ sudo systemctl enable mewmongofile.service
Created symlink /etc/systemd/system/Multi-user.target.wants/mewmongofile.service →/
etc/systemd/system/mewmongofile.service.
garima@garima:/tmp$
```


garima@garima:/etc/systemd/system$ sudo systemctl enable mewmongofile.service
garima@garima:/etc/systemd/system$ sudo systemctl start mewmongofile.service
garima@garima:/etc/systemd/system$ sudo systemctl status mewmongofile.service
mewmongofile.service - New Mongo Service.
Loaded: loaded (/etc/systemd/system/mewmongofile.service; enabled; vendor preset: enabled)
Active: active (running) since Wed 2020-02-19 13:08:46 IST; 5s ago
Main PID: 28068 (mongod)
Tasks: 32 (limit: 4915)
CGroup: /system.slice/mewmongofile.service
└─28068 /opt/mongodb-linux-x86_64-ubuntu1804-4.2.3-48-gc685bbe/bin/mongod --port 27009

# MYSQL

13. **Install latest version of MongoDB from apt-get repository**

```
garima@garima:~$ sudo apt install mysql-server
[sudo] password for garima:
Reading package lists... Done
Building dependency tree
Reading state information... Done
mysql-server is already the newest version (5.7.29-0ubuntu0.18.04.1).
0 upgraded, 0 newly installed, 0 to remove and 26 not upgraded.
```

14. **Create a database student**

```
garima@garima:~$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 5.7.29-0ubuntu0.18.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database student;
Query OK, 1 row affected (0.00 sec)
```

15. **Insert operation : 5 students data (Name, Contact, City, Roll No, Branch)**

```
mysql> use student;
Database changed
mysql> CREATE TABLE student_tab(name VARCHAR(50),contact INT,city VARCHAR(50),roll
_no INT, branch VARCHAR(30));
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> INSERT INTO student_tab VALUES("garima",1111,"dun",1,"cse"),("dabral",2222,
"dun",2,"cse"),("diksha",3333,"lucknow",3,"civil"),("tomar",4444,"mumbai",4,"ec"),
("revant",5555,"delhi",5,"ee");
Query OK, 5 rows affected (0.02 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

```
mysql> select * from student_tab;
+--------+---------+---------+---------+--------+
| name   | contact | city    | roll_no | branch |
+--------+---------+---------+---------+--------+
| garima |    1111 | dun     |       1 | cse    |
| dabral |    2222 | dun     |       2 | cse    |
| diksha |    3333 | lucknow |       3 | civil  |
| tomar  |    4444 | mumbai  |       4 | ec     |
| revant |    5555 | delhi   |       5 | ee     |
+--------+---------+---------+---------+--------+
5 rows in set (0.00 sec)
```

16. **Read operation : All the students belong to a particular city**

```
mysql> select * from student_tab where city="dun";
+--------+---------+------+---------+--------+
| name   | contact | city | roll_no | branch |
+--------+---------+------+---------+--------+
| garima |    1111 | dun  |       1 | cse    |
| dabral |    2222 | dun  |       2 | cse    |
+--------+---------+------+---------+--------+
2 rows in set (0.00 sec)
```

17. **Update operation : Update the branch of all the students to CSE**

```
mysql> select * from student_tab;
+--------+---------+---------+---------+--------+
| name   | contact | city    | roll_no | branch |
+--------+---------+---------+---------+--------+
| garima |    1111 | dun     |       1 | cse    |
| dabral |    2222 | dun     |       2 | cse    |
| diksha |    3333 | lucknow |       3 | civil  |
| tomar  |    4444 | mumbai  |       4 | ec     |
| revant |    5555 | delhi   |       5 | ee     |
+--------+---------+---------+---------+--------+
5 rows in set (0.00 sec)
```

```
mysql> update student_tab set branch="cse";
Query OK, 3 rows affected (0.04 sec)
Rows matched: 5  Changed: 3  Warnings: 0
```

```
mysql> select * from student_tab;
+--------+---------+---------+---------+--------+
| name   | contact | city    | roll_no | branch |
+--------+---------+---------+---------+--------+
| garima |    1111 | dun     |       1 | cse    |
| dabral |    2222 | dun     |       2 | cse    |
| diksha |    3333 | lucknow |       3 | cse    |
| tomar  |    4444 | mumbai  |       4 | cse    |
| revant |    5555 | delhi   |       5 | cse    |
+--------+---------+---------+---------+--------+
5 rows in set (0.00 sec)
```

18. **Take dump of the database**

```
garima@garima:~$ sudo mysqldump -u root -p student > mysqldump.sql
[sudo] password for garima:
Enter password:
garima@garima:~$ vim mysqldump.sql
garima@garima:~$ ls -l mysqldump.sql
-rw-r--r-- 1 garima garima 2151 Feb 17 22:43 mysqldump.sql
garima@garima:~$
```

19. **Delete operation : Delete the record of last 2 students according to the roll number**

```
mysql> select * from student_tab;
+--------+---------+---------+---------+--------+
| name   | contact | city    | roll_no | branch |
+--------+---------+---------+---------+--------+
| garima |    1111 | dun     |       1 | cse    |
| dabral |    2222 | dun     |       2 | cse    |
| diksha |    3333 | lucknow |       3 | cse    |
| tomar  |    4444 | mumbai  |       4 | cse    |
| revant |    5555 | delhi   |       5 | cse    |
+--------+---------+---------+---------+--------+
5 rows in set (0.00 sec)

mysql> DELETE FROM student_tab ORDER BY roll_no DESC LIMIT 2;
Query OK, 2 rows affected (0.00 sec)

mysql> select * from student_tab;
+--------+---------+---------+---------+--------+
| name   | contact | city    | roll_no | branch |
+--------+---------+---------+---------+--------+
| garima |    1111 | dun     |       1 | cse    |
| dabral |    2222 | dun     |       2 | cse    |
| diksha |    3333 | lucknow |       3 | cse    |
+--------+---------+---------+---------+--------+
3 rows in set (0.00 sec)
```

20. **Drop the database**

```
mysql> drop database student;
Query OK, 1 row affected (0.01 sec)
```

21. **Restore the database again to have the full data**

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| garima             |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.00 sec)

mysql> create database student;
Query OK, 1 row affected (0.01 sec)

mysql> exit;
Bye
garima@garima:~$ sudo mysql -u root student < student.sql
garima@garima:~$ sudo mysql -u root
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 24
```

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| garima             |
| mysql              |
| performance_schema |
| student            |
| sys                |
+--------------------+
6 rows in set (0.00 sec)

mysql> use student;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+------------------+
| Tables_in_student |
+------------------+
| student_tab      |
+------------------+
1 row in set (0.00 sec)
```

## 22. Enable authentication on the Mongo

```
mysql> create database dd1;
Query OK, 1 row affected (0.00 sec)

mysql> use dd1;
Database changed
mysql> create table tt1(id INT);
Query OK, 0 rows affected (0.02 sec)

mysql> insert into tt1 values(12);
Query OK, 1 row affected (0.04 sec)
```

```
mysql> create user 'newuser'@'%' identified by 'pwd';
Query OK, 0 rows affected (0.00 sec)

mysql> grant select on dd1.* to 'newuser';
Query OK, 0 rows affected (0.00 sec)

mysql> select * from tt1;
+------+
| id   |
+------+
|   12 |
+------+
1 row in set (0.00 sec)
```

```
garima@garima:~$ sudo mysql -u newuser -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 28
Server version: 5.7.29-0ubuntu0.18.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| dd1                |
+--------------------+
2 rows in set (0.00 sec)
```

```
mysql> use dd1;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+---------------+
| Tables_in_dd1 |
+---------------+
| tt1           |
+---------------+
1 row in set (0.00 sec)

mysql> select * from tt1;
+------+
| id   |
+------+
|   12 |
+------+
1 row in set (0.00 sec)

mysql> update tt1 set id=4 where id=12;
ERROR 1142 (42000): UPDATE command denied to user 'newuser'@'localhost' for table 'tt1'
```