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

```
sudo apt update
sudo apt install -y mongodb
sudo systemctl status mongodb
```

2. Create a database student

```
Activities Terminal Terminal Terminal Telp

File Edit View Search Terminal Help

> use student
switched to db student
> show dbs
admin 0.000GB
config 0.000GB
local 0.000GB
> db
student
> |
```

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

```
### Activities  
### Terminal #
```

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

Update operation: Update the branch of all the students to CSE

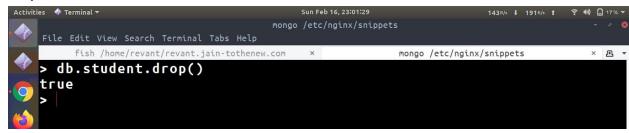
5. Take dump of the database

```
11.7KB/s | 798B/s 1
                                    fish /home/revant/student_dump/student
    File Edit View Search Terminal Help
    > exit
   bye
    [revant@revant:~]-[10:37:21 IST]-[G:master]
->$ mongodump --db student -o ~/student_dump
   2020-02-17T10:37:55.218+0530 writing student.student to
    2020-02-17T10:37:55.220+0530
                                 done dumping student.student (2 documents)
    [revant@revant:~]-[10:37:55 IST]-[G:master]
      5 cd ~
     -[revant@revant:~]-[10:38:01 IST]-[G:master]
->$ ls -l student_dump/
   total 4
   drwxr-xr-x 2 revant revant 4096 Feb 17 10:37 student/
    [revant@revant:~/s/student]-[10:38:13 IST]-[G:master]
   student.bson student.metadata.json
    [revant@revant:~/s/student]-[10:38:19 IST]-[G:master]
77
:::
```

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

```
Activities 🚸 Terminal 🔻
                                        Sun Feb 16, 23:00:44
                                                                    OB/s | OB/s |
                                                                              ? •() ☐ 17% ▼
                                                      mongo /etc/nginx/snippets
        fish /home/revant/revant.jain-tothenew.com
                                                                                  × <u>₽</u> •
   ntact" : 123456789, "City" : "Noida", "Roll_no" : 12, "Branch" : "C
   SE" }
{ "_id" : ObjectId("5e4829f9a8cd8a9adf7fb9aa"), "Name" : "ABC", "Co
   ntact" : 123456789, "City" : "Noida", "Roll_no" : 12, "Branch" : "C
   SE" }
   SE" }
{ "_id" : ObjectId("5e4829faa8cd8a9adf7fb9ab"), "Name" : "ABC", "Co
ntact" : 123456789, "City" : "Noida", "Roll_no" : 12, "Branch" : "C
   SE" }
     "_id": ObjectId("5e482a90a8cd8a9adf7fb9ac"), "Name": "ABC", "Co
   ntact" : 123456789, "City" : "Dehradun", "Roll_no" : 12, "Branch" :
     __id" : ObjectId("5e482aa3a8cd8a9adf7fb9ad"), "Name" : "DEF", "Co
   ntact" : 123456789, "City" : "Dehradun", "Roll_no" : 12, "Branch" :
    "CSE" }
   > db.student.remove(
   ... { "Roll_no" : 12 }
   WriteResult({ "nRemoved" : 7 })
```

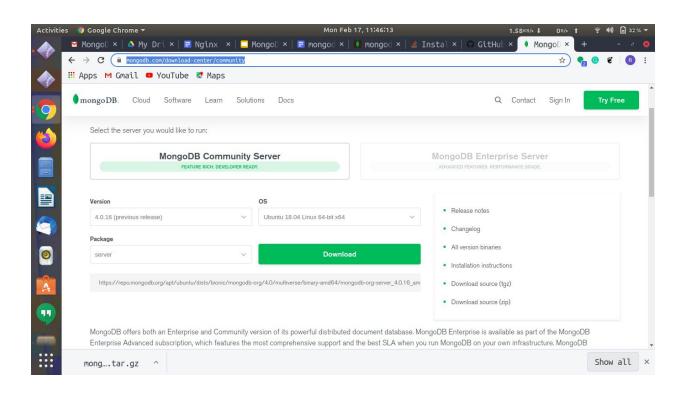
7. Drop the database



8. Restore the database again to have the full data

9. Enable authentication on the Mongo

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



Mkdir -p ~/data/db

Cp ~/downloads/mongo3.6.3/bin .

Cd bin

mongo.

```
mongo /home/revant/data/db/bin
File Edit View Search Terminal Help
  ->$ cd bin/
  -[revant@revant:~/d/d/bin]-[12:01:52 IST]-[G:master]
   >$ ls
bsondump*
                                         mongofiles*
                       mongod*
                                                           mongorestore* mongotop*
                                         mongoimport* mongos*
install_compass* mongodump*
                       mongoexport* mongoreplay* mongostat*
nongo*
 -[revant@revant:~/d/d/bin]-[12:01:53 IST]-[G:master]
MongoDB shell version v3.6.3
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.6.3
Server has startup warnings:
2020-02-17T10:27:18.683+0530 I STORAGE [initandlisten]
2020-02-17T10:27:18.683+0530 I STORAGE [initandlisten] ** WARNING: Using the XF
S filesystem is strongly recommended with the WiredTiger storage engine
2020-02-17T10:27:18.683+0530 I STORAGE [initandlisten] ** See http://d
ochub.mongodb.org/core/prodnotes-filesystem
                                                   [initandlisten]
[initandlisten] ** WARNING: Access contr
2020-02-17T10:27:19.320+0530 I CONTROL
2020-02-17T10:27:19.320+0530 I CONTROL
ol is not enabled for the database.
2020-02-17T10:27:19.320+0530 I CONTROL [initandlisten] **
                                                                                        Read and wri
te access to data and configuration is unrestricted.
2020-02-17T10:27:19.320+0530 I CONTROL [initandlisten]
```

```
mongod /home/revant/data/db/bin
    File Edit View Search Terminal Help
      2020-02-17T12:06:44.534+0530 I CONTROL [initandlisten] MongoDB starting : pid=1
   9080 port=27009 dbpath=/home/revant/data/db/ 64-bit host=revant
2020-02-17T12:06:44.534+0530 I CONTROL [initandlisten] db version v3.6.3
2020-02-17T12:06:44.534+0530 I CONTROL [initandlisten] git version: 9586e557d54
   ef70f9ca4b43c26892cd55257e1a5
   2020-02-17T12:06:44.534+0530 I CONTROL
                                                    [initandlisten] OpenSSL version: OpenSSL
    1.1.1 11 Sep 2018
                                                    [initandlisten]
   2020-02-17T12:06:44.534+0530 I CONTROL
                                                                      allocator: tcmalloc
   2020-02-17T12:06:44.534+0530
                                      I
                                         CONTROL
                                                    [initandlisten]
                                                                       modules: none
                                                    [initandlisten]
[initandlisten]
                                                                       build environment:
   2020-02-17T12:06:44.534+0530
                                      T
                                         CONTROL
   2020-02-17T12:06:44.534+0530
                                      I
                                         CONTROL
                                                                            distarch: x86 64
  2020-02-17T12:06:44.534+0530 I STORAGE [initandlisten] **
                                                                                      See http://d
   ochub.mongodb.org/core/prodnotes-filesystem
   2020-02-17T12:06:44.534+0530 I STORAGE [initandlisten] wiredtiger_open config: create,cache_size=7365M,session_max=20000,eviction=(threads_min=4,threads_max=4),config_base=false,statistics=(fast),log=(enabled=true,archive=true,path=journal
```

