

MySql and Mongo

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```
chhavi@chhavi:~$ sudo su
root@chhavi:/home/chhavi# wget -qO - https://www.mongodb.org/static/pgp/server-4.2.asc | sudo apt-key add
root@chhavi:/home/chhavi# cat /etc/apt/sources.list.d/mongodb-org-4.2.list
deb [ arch=amd64,arm64 ] https://repo.mongodb.org/apt/ubuntu bionic/mongodb-org/4.2 multiverse
root@chhavi:/home/chhavi# sudo apt-get update
Hit:1 http://in.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://in.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Ign:4 http://dl.google.com/linux/chrome/deb stable InRelease
Hit:5 http://dl.google.com/linux/chrome/deb stable Release
Ign:7 https://repo.mongodb.org/apt/ubuntu bionic/mongodb-org/4.2 InRelease
Hit:8 https://repo.mongodb.org/apt/ubuntu bionic/mongodb-org/4.2 Release
Get:10 http://packages.microsoft.com/repos/vscode stable InRelease [3,959 B]
Get:11 http://in.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
root@chhavi:/home/chhavi# apt-get install -y mongodb-org
Reading package lists... Done
Building dependency tree
Reading state information... Done
root@chhavi:/var/lib# systemctl status mongod
mongod.service - MongoDB Database Server
   Loaded: loaded (/lib/systemd/system/mongod.service; disabled; vendor preset: enabled)
   Active: active (running) since Tue 2020-02-18 14:55:53 IST; 3s ago
     Docs: https://docs.mongodb.org/manual
 Main PID: 11852 (mongod)
   CGroup: /system.slice/mongod.service
           ^{ldsymbol{\mathsf{L}}}11852 /usr/bin/mongod --config /etc/mongod.conf
chhavi@chhavi:/var/lib/mongodb$ mongo
MongoDB shell version v4.2.3
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("56cd761c-e996-4297-b229-e527279b8264") }
MongoDB server version: 4.2.3
Server has startup warnings:
                                        [initandlisten]
[initandlisten] ** WARNING: Using the XFS filesystem is strongly r
2020-02-18T14:55:53.574+0530 I STORAGE
2020-02-18T14:55:53.574+0530 I
                               STORAGE
ecommended with the WiredTiger storage engine
See http://dochub.mongodb.org/core/pro
dnotes-filesystem
2020-02-18T14:55:54.063+0530 I CONTROL
                                         [initandlisten]
2020-02-18T14:55:54.063+0530 I CONTROL
                                         [initandlisten] ** WARNING: Access control is not enabled for the
database.
Read and write access to data and conf
iguration is unrestricted.
2020-02-18T14:55:54.063+0530 I CONTROL [initandlisten]
```

2.Create a database student Ans.

```
> use student
switched to db student
> db
student
> show dbs
admin
        0.000GB
confid
        A AAAGR
```

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

```
Ans.
> db.stu_details.insert([{Name:'Rohit',ContactNo:9856543210,City:'Bengaluru',RollNo:46,Branch:'CS'},{Name:'Som',ContactNo:9566543210,City:'Kolata',RollNo:53,Branch:'CS'},{Name:'Sameer',ContactNo:9872343210,City:'Ne
 v Delhi',RollNo:36,Branch:'Mech'}]);
BulkWriteResult({
           "writeErrors" : [ ],
"writeConcernErrors" : [ ],
            "nInserted" : 3, "nUpserted" : 0,
            "nMatched" : 0,
            "nModified" : 0,
            "nRemoved" : 0,
"upserted" : [ ]
})
 db.stu_details.insert({Name:'Richa',ContactNo:9877843210,City:'Mumbai',RollNo:76,Branch:'CS'})
WriteResult({ "nInserted" : 1 })
> db.mycol.find().pretty()
  db.stu_details.find().pretty()
            " id" : ObjectId("5e49212ae36eea2b195298a1"),
           "Name" : "Raj",
"ContactNo" : 9876543210,
           "City": "Mumbai",
"RollNo": 56,
"Branch": "CS"
            "_id" : ObjectId("5e492203e36eea2b195298a2"),
           "Name" : "Rohit",
"ContactNo" : 9856543210,
"City" : "Bengaluru",
"RollNo" : 46,
            "Branch" : "CS"
            "_id" : ObjectId("5e492203e36eea2b195298a3"),
            "Name" : "Som",
            "ContactNo" : 95665432<u>10</u>,
           "City": "Kolata",
"RollNo": 53,
"Branch": "CS"
           "_id" : ObjectId("5e492203e36eea2b195298a4"),
"Name" : "Sameer",
"ContactNo" : 9872343210,
           "City" : "New Delhi",
"RollNo" : 36,
            "Branch": "Mech"
```

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

Ans.

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

```
db.stu_details.updateMany({}, {$set: {Branch:"CSE"}})

"acknowledged": true, "matchedCount": 5, "modifiedCount": 5 }

db.stu_details.find().pretty()

"_id": ObjectId("5e49212ae36eea2b195298a1"),
    "Name": "Raj",
    "ContactNo": 9876543210,
    "City": "Mumbai",
    "RollNo": 56,
    "Branch": "CSE"

"_id": ObjectId("5e492203e36eea2b195298a2"),
    "Name": "Rohit",
    "ContactNo": 9856543210,
    "City": "Bengaluru",
    "RollNo": 46,
    "Branch": "CSE"

"_id": ObjectId("5e492203e36eea2b195298a3"),
    "Name": "Som",
    "ContactNo": 9566543210,
    "City": "Kolata",
    "RollNo": 53,
    "RollNo": 54,
    "RollNo": 54,
    "RollNo": 55,
    "RollN
```

Take dump of the database

Ans.

```
chhavi@chhavi:~/Documents/mongoBackup$ sudo mongodump --db student --out /home/chhavi
/Documents/mongoBackup/`date +"%m-%d-%y"`
[sudo] password for chhavi:
2020-02-16T17:12:53.579+0530 writing student.stu_details to
2020-02-16T17:12:53.580+0530 done dumping student.stu_details (5 documents)
chhavi@chhavi:~/Documents/mongoBackup$
```

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

8. Drop the database

Ans.

```
    db.dropDatabase();
    "dropped": "student", "ok": 1 }
    show dbs
    admin 0.000GB
    config 0.000GB
    local 0.000GB
    **
```

9. Restore the database again to have the full data

```
chhavi@chhavi:~/Documents/mongoBackup/02-16-20$ mongorestore -d student /home/chhavi/Documents/mongoBackup/
02-16-20/student/
2020-02-18T15:22:17.821+0530
                                the --db and --collection args should only be used when restoring from a BS
ON file. Other uses are deprecated and will not exist in the future; use --nsInclude instead
                                building a list of collections to restore from /home/chhavi/Documents/mongo
2020-02-18T15:22:17.822+0530
Backup/02-16-20/student dir
2020-02-18T15:22:17.823+0530
                                reading metadata for student.stu_details from /home/chhavi/Documents/mongoB
ackup/02-16-20/student/stu_details.metadata.json
2020-02-18T15:22:17.953+0530
                                restoring student.stu_details from /home/chhavi/Documents/mongoBackup/02-16
-20/student/stu_details.bson
2020-02-18T15:22:17.957+0530
                                no indexes to restore
2020-02-18T15:22:17.957+0530
                                finished restoring student.stu_details (5 documents, 0 failures)
2020-02-18T15:22:17.957+0530
                                5 document(s) restored successfully. 0 document(s) failed to restore.
```

10. Enable authentication on the Mongo

Ans.

1.Start MongoDB without access control

```
chhavi@chhavi:~/Documents/mongoBackup/02-16-20$ mongod --port 27017 --dbpath /data/db1
2020-02-18T22:25:25.840+0530 I CONTROL [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 sp
ecify --sslDisabledProtocols 'none'
2020-02-18T22:25:25.842+0530 I CONTROL [initandlisten] MongoDB starting : pid=28167 port=27017 dbpath=/da
ta/db1 64-bit host=chhavi
2020-02-18T22:25:25.842+0530 I CONTROL
                                         [initandlisten] db version v4.2.3
                                         [initandlisten] git version: 6874650b362138df74be53d366bbefc321ea3
2020-02-18T22:25:25.842+0530 I
                               CONTROL
2d4
2020-02-18T22:25:25.842+0530 I
                               CONTROL
                                         [initandlisten] OpenSSL version: OpenSSL 1.1.1 11 Sep 2018
                                         [initandlisten] allocator: tcmalloc
2020-02-18T22:25:25.842+0530 I
                                CONTROL
2020-02-18T22:25:25.842+0530
                                CONTROL
                                         [initandlisten]
                                                         modules: none
2020-02-18T22:25:25.842+0530 I
                                CONTROL
                                         [initandlisten]
                                                         build environment:
2020-02-18T22:25:25.842+0530 I
                                CONTROL
                                         [initandlisten]
                                                             distmod: ubuntu1804
                                CONTROL
2020-02-18T22:25:25.842+0530 I
                                         [initandlisten]
                                                             distarch: x86_64
2020-02-18T22:25:25.842+0530
                                CONTROL
                                         [initandlisten]
                                                             target_arch: x86_64
                                         [initandlisten] options: { net: { port: 27017 }, storage: { dbPath
2020-02-18T22:25:25.842+0530 I
                                CONTROL
: "/data/db1" } }
2020-02-18T22:25:25.843+0530 I STORAGE [initandlisten] exception in initAndListen: NonExistentPath: Data
directory /data/db1 not found., terminating
2020-02-18T22:25:25.843+0530 I
                               NETWORK
                                         [initandlisten] shutdown: going to close listening sockets...
                                         [initandlisten] Stopping further Flow Control ticket acquisitions.
2020-02-18T22:25:25.843+0530 I
2020-02-18T22:25:25.843+0530 I
                               CONTROL
                                         [initandlisten] now exiting
2020-02-18T22:25:25.843+0530 I
                                CONTROL
                                         [initandlisten] shutting down with code:100
```

2.Connect to the instance

```
chhavi@chhavi:~/Documents/mongoBackup/02-16-20$ 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("9a912a67-75c9-44ad-986a-da0d523f5e3f") }
MongoDB server version: 4.2.3
Server has startup warnings:
2020-02-18T22:32:03.857+0530 I STORAGE
                                         [initandlisten]
2020-02-18T22:32:03.857+0530 I
                                         [initandlisten] ** WARNING: Using the XFS filesystem is st
                                STORAGE
iredTiger storage engine
2020-02-18T22:32:03.857+0530 I
                                         [initandlisten] **
                                                                     See http://dochub.mongodb.org
                                STORAGE
2020-02-18T22:32:04.545+0530
                             I
                                CONTROL
                                         [initandlisten]
2020-02-18T22:32:04.545+0530
                             Ι
                                         [initandlisten] ** WARNING: Access control is not enabled
                                CONTROL
2020-02-18T22:32:04.545+0530 I
                                CONTROL
                                         [initandlisten] **
                                                                     Read and write access to data
cted.
2020-02-18T22:32:04.545+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()
```

Create the user administrator.

4.Re-start the MongoDB instance with access control

```
chhavi@chhavi:~/Documents/mongoBackup/02-16-20$ mongod --auth --port 27017 --dbpath /data/db1
2020-02-18T23:09:52.657+0530 I CONTROL [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledPr
otocols 'none'
2020-02-18T23:09:52.659+0530 I CONTROL [initandlisten] MongoDB starting : pid=30758 port=27017 dbpath=/data/db1 64-bit host=ch
havi
2020-02-18T23:09:52.659+0530 I
2020-02-18T23:09:52.659+0530 I
2020-02-18T23:09:52.659+0530 I
2020-02-18T23:09:52.659+0530 I
2020-02-18T23:09:52.659+0530 I
                                            CONTROL
                                                        [initandlisten] db version v4.2.3
                                                        [initandlisten] git version: 6874650b362138df74be53d366bbefc321ea32d4
                                            CONTROL
                                            CONTROL
                                                         [initandlisten] OpenSSL version: OpenSSL 1.1.1 11 Sep 2018
                                                         [initandlisten] allocator: tcmalloc
                                            CONTROL
2020-02-18T23:09:52.659+0530 I
                                                         [initandlisten] modules: none
                                            CONTROL
2020-02-18T23:09:52.659+0530 I
                                                         [initandlisten] build environment:
                                            CONTROL
2020-02-18T23:09:52.659+0530 I
                                                         [initandlisten]
                                            CONTROL
                                                                                    distmod: ubuntu1804
2020-02-18T23:09:52.659+0530 I
                                                        [initandlisten]
                                            CONTROL
                                                                                    distarch: x86_64
                                                        [initandlisten] target_arch: x86_64
[initandlisten] options: { net: { port: 27017 }, security: { authorization: "enabled" }
2020-02-18T23:09:52.659+0530 I
                                            CONTROL
2020-02-18T23:09:52.659+0530 I
                                            CONTROL
 , storage: { dbPath: "/data/db1" } }
2020-02-18T23:09:52.659+0530 I STORAGE
                                                        [initandlisten] exception in initAndListen: NonExistentPath: Data directory /data/db1 n
ot found., terminating
                                                        [initandlisten] shutdown: going to close listening sockets...
[initandlisten] Stopping further Flow Control ticket acquisitions.
[initandlisten] now exiting
2020-02-18T23:09:52.659+0530 I NETWORK
2020-02-18T23:09:52.659+0530 I
                                            CONTROL
2020-02-18T23:09:52.659+0530 I
                                                        [initandlisten] shutting down with code:100
2020-02-18T23:09:52.659+0530 I CONTROL
```

5. Connect and authenticate as the user administrator

```
chhavi@chhavi:~/Documents/mongoBackup/02-16-20$ mongo --port 27017 -u "adminChhavi" -p "chhavi" --authenticationDatabase "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("fe78e215-f7f9-4cfb-9afc-d181e5456dc3") }
MongoDB server version: 4.2.3
Server has startup warnings:
2020-02-18T23:19:46.344+0530 I STORAGE [initandlisten]
                                              [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the W
2020-02-18T23:19:46.344+0530 I STORAGE
iredTiger storage engine
2020-02-18T23:19:46.344+0530 I
                                    STORAGE
                                               [initandlisten] **
                                                                               See http://dochub.mongodb.org/core/prodnotes-filesystem
2020-02-18T23:19:47.003+0530 I CONTROL
                                               [initandlisten]
2020-02-18T23:19:47.003+0530 I CONTROL
                                               [initandlisten] ** WARNING: Access control is not enabled for the database.
2020-02-18T23:19:47.003+0530 I CONTROL
                                               [initandlisten] **
                                                                               Read and write access to data and configuration is unrestri
cted.
2020-02-18T23:19:47.003+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()
  П
```

OR

5. Authenticating after connecting

```
chhavi@chhavi:~/Documents/mongoBackup/02-16-20$ 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("b4940c4d-b277-41da-92ba-1b57a9e7d40a") }
MongoDB server version: 4.2.3
Server has startup warnings:
2020-02-18T23:19:46.344+0530 I STORAGE [initandlisten]
2020-02-18T23:19:46.344+0530 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly r
ecommended with the WiredTiger storage engine
See http://dochub.mongodb.org/core/pro
dnotes-filesystem
2020-02-18T23:19:47.003+0530 I CONTROL [initandlisten]
2020-02-18T23:19:47.003+0530 I CONTROL <code>[initandlisten]</code> ** WARNING: Access control is not enabled for the
database.
Read and write access to data and conf
iguration is unrestricted.
2020-02-18T23:19:47.003+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).
```

```
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()
---
> use admin
switched to db admin
> db.auth("adminChhavi", "chhavi")
1
> ■
```

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

Ans.

Download a tar for 2.6.3 version of mongo.

Move it to /opt directory and extract it .

Next cd into bin/ in it .

```
chhavi@chhavi:/bin$ cd
chhavi@chhavi:-$ cd /opt/
chhavi@chhavi:/opt$ ls
google lost=found mongodb-linux-x86_64-2.6.3 mongodb-linux-x86_64-2.6.3.tgz
chhavi@chhavi:/opt$ cd mongodb-linux-x86_64-2.6.3/bin
chhavi@chhavi:/opt#cd mongodb-linux-x86_64-2.6.3/bin
chhavi@chhavi:/opt/mongodb-linux-x86_64-2.6.3/bin$ ls
```

Run mongo d by specifying a db path (create a dbpath)

```
chhavi@chhavi:/opt/mongodb-linux-x86_64-2.6.3/bin$ mkdir -p ~/data/db
chhavi@chhavi:/opt/mongodb-linux-x86_64-2.6.3/bin$ mongod --port 27009 --dbpath ~/data/db
2020-02-26715:52:42.667+0530 I CONTROL [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --ssl0isabledProtocols 'none'
2020-02-26715:52:42.669+0530 I CONTROL [initandlisten] MongoDB starting : pid=16636 port=27009 dbpath=/home/chhavi/data/db 64-bit host=chhav
                                                                                                                   [initandlisten] db version v4.2.3
[initandlisten] git version: 6874650b362138df74be53d366bbefc321ea32d4
[initandlisten] OpenSSL version: OpenSSL 1.1.1 11 Sep 2018
[initandlisten] allocator: tcmalloc
 -
2020-02-26T15:52:42.669+0530 I
2020-02-26T15:52:42.669+0530 I
                                                                                         CONTROL
                                                                                          CONTROL
2020-02-26T15:52:42.669+0530 I
2020-02-26T15:52:42.669+0530 I
2020-02-26T15:52:42.669+0530 I
                                                                                        CONTROL CONTROL
                                                                                                                    [Initandlisten] allocator: tcmalloc
[initandlisten] modules: none
[initandlisten] build environment:
[initandlisten] distmod: ubuntui804
[initandlisten] distarch: x86_64
[initandlisten] target_arch: x86_64
[initandlisten] options: { net: { port: 27009 }, storage: { dbPath: "/home/chhavi/data/db" } }
[initandlisten]
                                                                                         CONTROL
2020-02-26T15:52:42.609+0530 I
2020-02-26T15:52:42.669+0530 I
2020-02-26T15:52:42.669+0530 I
2020-02-26T15:52:42.669+0530 I
2020-02-26T15:52:42.669+0530 I
2020-02-26T15:52:42.669+0530 I
2020-02-26T15:52:42.669+0530 I
                                                                                         CONTROL
                                                                                        CONTROL
                                                                                        CONTROL
STORAGE
                                                                                                                    [intrandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger stor
 2020-02-26T15:52:42.669+0530 I
                                                                                        STORAGE
 age engine
2020-02-26T15:52:42.669+0530 I STORAGE
2020-02-26T15:52:42.670+0530 I STORAGE
   020-02-26115:52:42.669+0530 I STORAGE [initandlisten] **
See http://dochub.mongodb.org/core/prodnotes-filesystem
020-02-26115:52:42.670+0530 I STORAGE [initandlisten] wiredtiger_open config: create,cache_size=7365M,cache_overflow=(file_max=0M),session_
ax=33000,eviction=(threads_min=4,threads_max=4).config_base=false,statistics=(fast),log=(enabled=true,archive=true,pathe=true).ormpressor=sn
ppy),file_manager=(close_idle_time=100000,close_scan_interval=10,close_handle_minimum=250),statistics_log=(wait=0),verbose=[recovery_progress
```

Check if both the versions are running on different ports.

12.Create init service of Mongo installed later*

MYSQL

Install latest version of MySQL from apt-get repository

Ans.

```
chhavi@chhavi:~$ sudo apt-get install mysql-server
[sudo] password for chhavi:
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).
O upgraded, O newly installed, O to remove and 78 not upgraded.
```

2. Create a database student

Ans.

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

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

```
mysql> desc stu_details;
 Field
          Type
                          Null | Key | Default | Extra
 rollno
           int(5)
                           NO
                                  PRI
                                        NULL
           varchar(255)
                           NO
                                        NULL
 name
           varchar(255)
                           YES
                                        NULL
 city
           varchar(20)
                           YES
                                        NULL
 branch
 contact | int(10)
                           YES
                                        NULL
 rows in set (0.02 sec)
```

Read operation : All the students belong to a particular city

Ans.

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

```
mysql> update stu_details set branch="CSE";
Query OK, 5 rows affected (0.01 sec)
Rows matched: 5 Changed: 5 Warnings: 0
mysql> select * from stu_details;
 rollno | name
                city
                          | branch | contact
      1 | chhavi | new delhi | CSE
                                    9650864580
                            CSE
      2 | gargi
                 | udaipur
                                    9797197046
                | chennai | CSE
      3 | ravi
                                    9876543213
      4 | simran | new delhi | CSE
                                    987654543
      5 | firoz | mumbai | CSE
                                    9867565656
5 rows in set (0.00 sec)
mysql>
```

6. Take dump of the database

Ans.

```
chhavi@chhavi:~/Documents$ sudo mysqldump student > /home/chhavi/Documents/sqlbackup/dump.sql
```

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

8. Drop the database

Ans.

```
mysql> drop database student;
Query OK, 1 row affected (0.03 sec)
```

9. Restore the database again to have the full data

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

```
chhavi@chhavi:~/Documents/sqlbackup$ sudo mysql student < /home/chhavi/Documents/sql
backup/dump.sql
chhavi@chhavi:~/Documents/sqlbackup$ [</pre>
```

```
mysql> use student;
Database changed
mysql> show tables;
 Tables_in_student |
 stu_details
1 row in set (0.00 sec)
mysql> select * from stu_details;
 rollno | name
                 | city
                             | branch | contact
      1 | chhavi | new delhi | CSE
                                      9650864580
      2
        | gargi
                 | udaipur
                             | CSE
                                      9797197046
                               CSE
      3
        ravi
                 | chennai
                                        9876543213
      4
        | simran | new delhi |
                              CSE
                                        987654543
      5 | firoz | mumbai
                            CSE
                                      9867565656
5 rows in set (0.00 sec)
mysql>
```

Enable authentication on the MySQL

Ans

```
mysql> CREATE USER 'new'@'localhost' IDENTIFIED BY 'pass';
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> grant select on student.* to 'new'@'localhost';
Query OK, 0 rows affected (0.01 sec)
chhavi@chhavi:~$ mysql -u new -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g. Your MySQL connection id is 43
Server version: 5.7.29-0ubuntu0.18.04.1 (Ubuntu)
Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
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> show databases;
Database
 information_schema |
 student
2 rows in set (0.00 sec)
mysql> use student;
Reading table information for completion of table and column names
```