@ubuntu:~$ mongo

**//Sudo systemctl start mongod**

**//mongosh**

**//to list out database names**

> show dbs

**//to create database**

> use db1

**//to check in which database I am working**

> db

**//to drop database in which I am working**

> db.dropDatabase()

**//To create collection**

> db.createCollection('stud')

**//to list out collection names**

> show collections

**// inserting single document**

> db.emp.insertOne({rno:1,name:'Bhavana'})

**// inserting multiple document**

> db.emp.insertMany([{rno:1,name:'Bhavana'}, { rno:2,name:’Onkar ', }])

**// To display data from collection**

> db.emp.find()

{ "\_id" : ObjectId("5d7d3daf315728b4998f522e"), "rno" : 1, "name" : "Bhavana" }

{ "\_id" : ObjectId("5d7d3f28315728b4998f522f"), "name" : "Amit", "rno" : 2 }

**// To insert date use ISODate function**

> db.emp.insert({rno:15, name:'Ravina', dob: ISODate("2019-09-14")})

**// To update document**

db.Employee.updateOne(

{"Employeeid" : 1},

{$set: { "EmployeeName" : "Raj"}});

**// To update multiple document**

db.Employee.updateMany(

{"branch" : “CSE”},

{$set: { "EmployeeName" : "NewMartin", }});

**//Find command with Condition**

> db.stud.find({rno:5})

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836d"), "rno" : 5, "name" : "Jivan" }

**//Find command with condition to display specified field**

> db.stud.find({rno:5},{name:1})

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836d"), "name" : "Jivan" }

**// To display data whose rno is greater than 2**

> db.stud.find({rno:{$gt:2}})

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836b"), "rno" : 3, "name" : "Sagar" }

**// To display data whose rno is less than equal to 2**

> db.stud.find({rno:{$lte:2}})

{ "\_id" : ObjectId("5d83af5aa44331f62bcd8369"), "rno" : 1, "name" : "Ashiti" }

**// To display data whose rno is less than 2**

> db.stud.find({rno:{$lt:2}})

{ "\_id" : ObjectId("5d83af5aa44331f62bcd8369"), "rno" : 1, "name" : "Ashiti" }

**// To display data whose rno is not equal to 2**

> db.stud.find({rno:{$ne:2}})

{ "\_id" : ObjectId("5d83af5aa44331f62bcd8369"), "rno" : 1, "name" : "Ashiti" }

**// To display data whose rno is either 1 or 3 or 5 using in operator**

> db.stud.find({rno:{$in:[1,3,5]}})

{ "\_id" : ObjectId("5d83af5aa44331f62bcd8369"), "rno" : 1, "name" : "Ashiti" }

**//Sorting Command -1 is for Descending**

> db.stud.find().sort({rno:-1})

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836d"), "rno" : 5, "name" : "Jivan" }

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836c"), "rno" : 4, "name" : "Reena" }

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836b"), "rno" : 3, "name" : "Sagar" }

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836a"), "rno" : 2, "name" : "Savita" }

{ "\_id" : ObjectId("5d83af5aa44331f62bcd8369"), "rno" : 1, "name" : "Ashiti" }

**//Sorting Command 1 is for Ascending**

> db.stud.find().sort({name:1})

{ "\_id" : ObjectId("5d83af5aa44331f62bcd8369"), "rno" : 1, "name" : "Ashiti" }

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836d"), "rno" : 5, "name" : "Jivan" }

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836c"), "rno" : 4, "name" : "Reena" }

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836b"), "rno" : 3, "name" : "Sagar" }

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836a"), "rno" : 2, "name" : "Savita" }

**//Distinct command to show only unique values for roll no**

> db.stud.distinct("rno")

[ 1, 2, 3, 4, 5 ]

**// Limit use to show only some records from starting**

> db.stud.find().limit(2)

{ "\_id" : ObjectId("5d83af5aa44331f62bcd8369"), "rno" : 1, "name" : "Ashiti" }

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836a"), "rno" : 2, "name" : "Savita" }

**// Skip use to show all records after skipping some records**

> db.stud.find().skip(2)

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836b"), "rno" : 3, "name" : "Sagar" }

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836c"), "rno" : 4, "name" : "Reena" }

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836d"), "rno" : 5, "name" : "Jivan" }

**// Shows documents where name starting with A**

> db.stud.find({name:/^A/})

{ "\_id" : ObjectId("5d83af5aa44331f62bcd8369"), "rno" : 1, "name" : "Ashiti" }

**// Shows documents where name ending with i**

> db.stud.find({name:/i$/})

{ "\_id" : ObjectId("5d83af5aa44331f62bcd8369"), "rno" : 1, "name" : "Ashiti" }

**// Shows documents where name having letter a anywhere**

> db.stud.find({name:/a/})

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836a"), "rno" : 2, "name" : "Savita" }

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836b"), "rno" : 3, "name" : "Sagar" }

{ "\_id" : ObjectId("5d83af5aa44331f62bcd836c"), "rno" : 4, "name" : "Reena" }

**// count to show number of documents in collection**

> db.stud.find().count()

5

> db.stud.find({rno:{$gt:2}}).count()

3

**//It will remove record having rno as 4**

> db.stud.remove({rno:4})