## BDA LAB Mallika Prasad 1BM19CS081 Mongo DB

```
mongo
MongoDB shell version v3.6.8
connecting to: mongodb://127.0.0.1:27017
Implicit session: session { "id" : UUID("d78fa842-7753-4367-a579-27b85d9b9509") } MongoDB server version: 3.6.8
Server has startup warnings:
2022-04-11T18:54:16.661+0530 | STORAGE [initandlisten]
2022-04-11T18:54:16.661+0530 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is
strongly recommended with the WiredTiger storage engine
2022-04-11T18:54:16.661+0530 | STORAGE [initandlisten] **
                                                                   See <a href="http://dochub.mongodb.org/core/">http://dochub.mongodb.org/core/</a>
prodnotes-filesystem
2022-04-11T18:54:22.246+0530 | CONTROL [initandlisten]
2022-04-11T18:54:22.246+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for
the database.
2022-04-11T18:54:22.246+0530 | CONTROL [initandlisten] **
                                                                   Read and write access to data and
configuration is unrestricted.
2022-04-11T18:54:22.246+0530 | CONTROL [initandlisten]
show dbs
admin 0.000GB
anDB
          0.000GB
antara db 0.000GB
       0.000GB
config
local
         0.000GB
mallikadb 0.000GB
myDB
           0.000GB
mydb antara 0.000GB
> use maldb
switched to db maldb
            -----STUDENT-----
> db.createCollection("Student");
{ "ok" : 1 }
> db.createCollection("Marks");
{ "ok" : 1 }
> db.Marks.drop();
true
> db.Student.insert({ id:1,StudName:"MikeSmith",Grade:"VII",Hobbies:"InternetSurfing"});
WriteResult({ "nInserted" : 1 })
```

```
> db.Student.update({ id:3,StudName:"AryanDavid",Grade:"VII"},{$set:{Hobbies:"Skating"}},{upsert:true});
WriteResult({ "nMatched": 0, "nUpserted": 1, "nModified": 0, "_id": 3 })
> db.Student.find({StudName:"AryanDavid"});
{ "_id" : 3, "Grade" : "VII", "StudName" : "AryanDavid", "Hobbies" : "Skating" }
> db.Student.find({},{StudName:1,Grade:1,_id:0});
{ "StudName" : "MikeSmith", "Grade" : "VII" }
{ "Grade" : "VII", "StudName" : "AryanDavid" }
> db.Student.find({Grade:{$eq:"VII"}}).pretty();
{
"_id" : 1,
"StudName": "MikeSmith",
"Grade": "VII",
"Hobbies": "InternetSurfing"
{
"_id":3,
_iu : 3,
"Grade" : "VII",
"StudName" : "AryanDavid",
"Hobbies" : "Skating"
}
> db.Student.find({Hobbies:{$in:["Chess","Skating"]}}).pretty ();
{
" id":3,
"Grade" : "VII".
"StudName" : "AryanDavid",
"Hobbies" : "Skating"
}
> db.Student.find({StudName:/^M/}).pretty();
{
"_id" : 1,
"StudName" : "MikeSmith",
"Grade" : "VII",
"Hobbies" : "InternetSurfing"
}
> db.Student.find({StudName:/e/}).pretty();
{
"_id":1,
"StudName": "MikeSmith",
"Grade": "VII",
"Hobbies" : "InternetSurfing"
}
```

```
> db.Student.count();
2
> db.Student.find().sort({StudName:-1}).pretty();
{
" id" : 1,
"StudName" : "MikeSmith",
"Grade": "VII",
"Hobbies" : "InternetSurfing"
{
"_id":3,
"Grade": "VII",
"StudName": "AryanDavid",
"Hobbies" : "Skating"
> db.Student.update({_id:4},{$set:{Location:"Network"}});
WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })
> db.Student.find({ id:1},{StudName:1,Grade:1, id:0});
{ "StudName" : "MikeSmith", "Grade" : "VII" }
> db.Student.find({Grade:{$ne:"VII"}}).pretty();
> db.Student.find({StudName:/s$/}).pretty();
> db.Student.insert({_id:5,StudName:"GraceJohnsons",Grade:"VI",Hobbies:"Reading"});
WriteResult({ "nInserted" : 1 })
> db.Student.find({StudName:/s$/}).pretty();
{
"_id" : 5,
"StudName": "GraceJohnsons",
"Grade": "VI".
"Hobbies" : "Reading"
> db.Students.update({_id:3},{$set:{Location:null}})
WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })
> db.Student.find({Grade:{$ne:"VII"}}).pretty();
{
"_id" : 5,
```

```
"StudName" : "GraceJohnsons",
"Grade" : "VI",
"Hobbies" : "Reading"
   > db.Students.update({_id:3},{$set:{Location:null}})
WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })
   > db.Student.find({Grade:{$eq:"VII"}}).pretty();
  {
"_id" : 1,
   "StudName": "MikeSmith",
   "Grade": "VII",
   "Hobbies" : "InternetSurfing"
   {
"_id":3,
"Grade":"VII",
"StudName":"AryanDavid",
"Hobbies":"Skating"
   > db.Student.find({},{_id:1,Location:1});
   { "_id" : 1 }
{ "_id" : 3 }
{ "_id" : 5 }
   > db.Student.count();
   > db.Student.count({Grade:"VII"});
   > db.Student.find({Grade:"VII"}).limit(3).pretty();
  {
"_id" : 1,
   "StudName": "MikeSmith",
   "Grade" : "VII",
"Hobbies" : "InternetSurfing"
.
}
{
"_id" : 3,
"Grade" : "VII",
"StudName" : '
'sies" : "S
   "StudName" : "AryanDavid",
"Hobbies" : "Skating"
   }
```

```
{
"_id" : 3,
"Grade": "VII",
"StudName" : "AryanDavid",
"Hobbies" : "Skating"
{
"_id" : 5,
"StudName": "GraceJohnsons",
"Grade": "VI".
"Hobbies" : "Reading"
{
"_id" : 1,
"StudName": "MikeSmith",
"Grade": "VII",
"Hobbies" : "InternetSurfing"
}
> db.Student.find().skip(2).pretty()
{
"_id":5,
"StudName": "GraceJohnsons",
"Grade": "VI",
"Hobbies" : "Reading"
    -----FOOD------
> db.createCollection("Food");
{ "ok" : 1 }
> db.food.insert({_id:1,fruits:["grapes","mango","apple"]});
WriteResult({ "nInserted" : 1 })
> db.food.insert({_id:2,fruits:["grapes","mango","cherry"]});
WriteResult({ "nInserted" : 1 })
> db.food.insert({_id:3,fruits:["banana","mango"]});
WriteResult({ "ninserted" : 1 })
> db.food.find(\{fruits:["grapes","mango","apple"]\}).pretty(); \\ \{ "\_id" : 1, "fruits" : [ "grapes", "mango", "apple" ] \}
```

> db.Student.find().sort({StudName:1}).pretty();

```
> db.food.find({"fruits.1":"mango"});
{ "_id" : 1, "fruits" : [ "grapes", "mango", "apple" ] }
{ "_id" : 2, "fruits" : [ "grapes", "mango", "cherry" ] }
{ "_id" : 3, "fruits" : [ "banana", "mango" ] }
\verb| > db.food.find({\_id:1},{"fruits":{$slice:2}}); \\ { "\_id" : 1, "fruits" : [ "grapes", "mango" ] } \\ | \\
> db.food.find({"fruits":{$size:2}});
{ "_id" : 3, "fruits" : [ "banana", "mango" ] }
> db.food.find({_id:1},{"fruits":{$slice:2}});
{ "_id" : 1, "fruits" : [ "grapes", "mango" ] }
> db.food.find({fruits:{$all:["mango","grapes"]}});
{ "_id" : 1, "fruits" : [ "grapes", "mango", "apple" ] }
{ "_id" : 2, "fruits" : [ "grapes", "mango", "cherry" ] }
> db.food.update({_id:3},{$set:{"fruits.1":"apple"}});
WriteResult({ "nMatched": 1, "nUpserted": 0, "nModified": 1 })
> db.food.update(\{ id:2 \}, \{ push:\{price:\{grapes:80, mango:200, cherry:100 \}\} \});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```