```
myDB> db.students.drop();
true
myDB> show dbs
admin      40.00 KiB
config     72.00 KiB
local     120.00 KiB
students   72.00 KiB
myDB> db.createCollection("Student");
{ ok: 1 }
myDB> show dbs
admin      40.00 KiB
config     72.00 KiB
local     120.00 KiB
myDB        8.00 KiB
students   72.00 KiB
myDB> db.Student.insert({_id:1,StudeName:"MichelleJacintha",Grade:"VII",Hobbies:"InternetSurfing",});
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{ acknowledged: true, insertedIds: { '0': 1 } }
myDB> db.Student.insertOne({_id:1,StudeName:"MichelleJacintha",Grade:"VII",Hobbies:"InternetSurfing",});
MongoServerError: E11000 duplicate key error collection: myDB.Student index: _id_ dup key: { _id: 1 }
myDB> db.Student.insertOne({_id:2,StudeName:"MichelleJacintha",Grade:"VII",Hobbies:"InternetSurfing",});
{ acknowledged: true, insertedId: 2 }
myDB> db.Student.find();
[
  {
    _id: 1,
    StudeName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  },
  {
    _id: 2,
    StudeName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  }
]
```

```
]
myDB> show collections;
Student
myDB> db.Student.updateOne({_id:2,StudName:"AryanDavid",Grade:"VIII"},{$set:{Hobbies:"Chess"}},{upsert:true});
MongoServerError: E11000 duplicate key error collection: myDB.Student index: _id_ dup key: { _id: 2 }
myDB> db.Student.find({StudName:"AryanDavid"});

myDB> db.Student.find();
[
  {
    _id: 1,
    StudeName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  },
  {
    _id: 2,
    StudeName: 'AryanDavid',
    Grade: 'VIII',
    Hobbies: 'Skating'
  }
]
myDB> db.Student.find({StudeName:"AryanDavid"});
[
  {
    _id: 2,
    StudeName: 'AryanDavid',
    Grade: 'VIII',
    Hobbies: 'Skating'
  }
]
myDB> db.Student.updateOne({_id:2,StudeName:"AryanDavid",Grade:"VIII"},{$set:{Hobbies:"Chess"}},{upsert:true});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
myDB> db.Student.find();
[
  {
    _id: 1,
    StudeName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  },
  { _id: 2, StudeName: 'AryanDavid', Grade: 'VIII', Hobbies: 'Chess' }
]
myDB> db.Student.find({StudeName:"AryanDavid"});
[
  { _id: 2, StudeName: 'AryanDavid', Grade: 'VIII', Hobbies: 'Chess' }
]
```

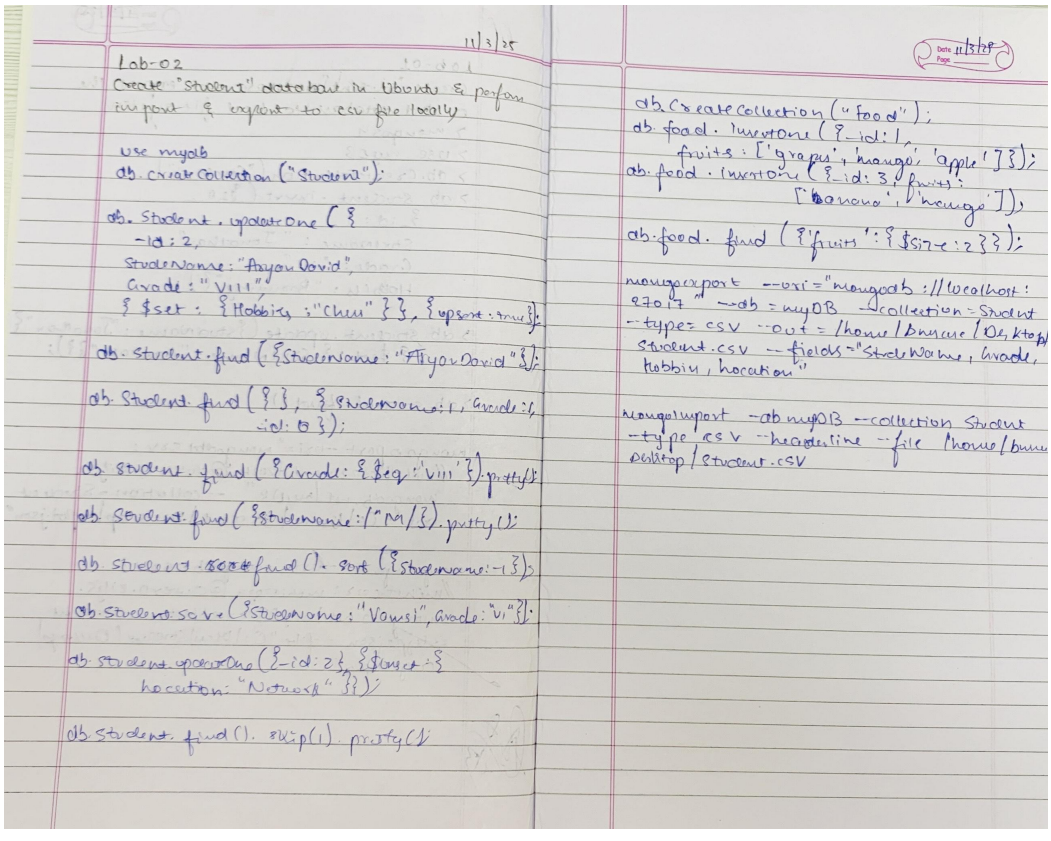
```
myDB> db.Student.find({Grade:{$eq:'VII'}}).pretty();
[
  {
    _id: 1,
    StudeName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  }
]
myDB> db.Student.find({Hobbies:{$in:['Chess','Skating']}}).pretty();
[
  { _id: 2, StudeName: 'AryanDavid', Grade: 'VIII', Hobbies: 'Chess' }
]
myDB> db.Student.find({StudeName:/^M/}).pretty();
[
  {
    _id: 1,
    StudeName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  }
]
myDB> db.Student.find({StudeName:/e/}).pretty();
[
  {
    _id: 1,
    StudeName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  }
]
myDB> db.Student.find({StudeName:/d/}).pretty();
[
  { _id: 2, StudeName: 'AryanDavid', Grade: 'VIII', Hobbies: 'Chess' }
]
myDB> db.
... db.Student.count();
DeprecationWarning: Collection.count() is deprecated. Use countDocuments or estimatedDocumentCount.
0
myDB> db.Student.count();
2
myDB> db.Student.find().sort({StudName:-1}).pretty();
[
  {
    _id: 1,
    StudeName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  },
  { _id: 2, StudeName: 'AryanDavid', Grade: 'VIII', Hobbies: 'Chess' }
]
```

```
myDB> db.Student.find().sort({StudName:1}).pretty();
[
  {
    _id: 1,
    StudeName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  },
  { _id: 2, StudeName: 'AryanDavid', Grade: 'VIII', Hobbies: 'Chess' }
]
myDB> db.Student.save({StudeName:"Vamsi",Grade:"VI"});
TypeError: db.Student.save is not a function
myDB> db.Student.save({StudeName:"Vamsi",Grade:"VI"});
TypeError: db.Student.save is not a function
myDB> db.Student.updateOne({_id:2},{$set:{Location:"Network"}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
myDB> db.Student.find();
[
  {
    _id: 1,
    StudeName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  },
  {
    _id: 2,
    StudeName: 'AryanDavid',
    Grade: 'VIII',
    Hobbies: 'Chess',
    Location: 'Network'
  }
]
myDB> db.Student.updateOne({_id:2},{$unset:{Location:"Network"}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```
1
myDB> db.Student.find().sort({StudeName:1}).pretty();
[
  {
    _id: 2,
    StudeName: 'AryanDavid',
    Grade: 'VIII',
    Hobbies: 'Chess',
    Location: 'Network'
  },
  {
    _id: 1,
    StudeName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing',
    Location: 'Sales'
  }
]
myDB> db.Student.find().skip(1).pretty();
[
  {
    _id: 2,
    StudeName: 'AryanDavid',
    Grade: 'VIII',
    Hobbies: 'Chess',
    Location: 'Network'
  }
]
myDB> db.createCollection("Food");
{ ok: 1 }
myDB> db.food.inertOne({_id:1,fruits:['grapes','mango','apple']});
TypeError: db.food.inertOne is not a function
myDB> db.food.insertOne({_id:1,fruits:['grapes','mango','apple']});
{ acknowledged: true, insertedId: 1 }
myDB> db.food.insertOne({_id:2,fruits:['grapes','mango','cherry']});
{ acknowledged: true, insertedId: 2 }
```

```
myDB> db.food.find();
[
  { _id: 1, fruits: [ 'grapes', 'mango', 'apple' ] },
  { _id: 2, fruits: [ 'grapes', 'mango', 'cherry' ] },
  { _id: 3, fruits: [ 'banana', 'mango' ] }
]
myDB> db.food.find({fruits:['grapes','mango','apple']});
[ { _id: 1, fruits: [ 'grapes', 'mango', 'apple' ] } ]
myDB> db.food.find({});
[
  { _id: 1, fruits: [ 'grapes', 'mango', 'apple' ] },
  { _id: 2, fruits: [ 'grapes', 'mango', 'cherry' ] },
  { _id: 3, fruits: [ 'banana', 'mango' ] }
]
myDB> db.food.find({'fruits':{$size:2}});
[ { _id: 3, fruits: [ 'banana', 'mango' ] } ]
myDB>
```

```
myDB>
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ mongoexport --url="mongodb://localhost:27017" --db=myDB --collection=Student --type=csv --out=/home/bmscecse/Desktop/studentnew.csv --fields="Stude
e,Grade,Hobbies,Location"
2025-03-11T14:53:00.104+0530    connected to: mongodb://localhost:27017
2025-03-11T14:53:00.112+0530    exported 2 records
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ mongoexport --url="mongodb://localhost:27017" --db=myDB --collection=Student --type=csv --out=/home/bmscecse/Desktop/studentnew.csv --fields="Stude
e,Grade,Hobbies,Location"
2025-03-11T14:56:22.648+0530    connected to: mongodb://localhost:27017
2025-03-11T14:56:22.656+0530    exported 2 records
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ mongoimport --db myDB --collection Student --type csv -headerline --file/home/bmscecse/Desktop/studentnew.csv
2025-03-11T14:57:55.803+0530    error parsing command line options: unknown option "file/home/bmscecse/Desktop/studentnew.csv"
2025-03-11T14:57:55.803+0530    try 'mongoimport --help' for more information
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ mongoimport --db myDB --collection Student --type csv -headerline --file /home/bmscecse/Desktop/studentnew.csv
2025-03-11T14:58:28.148+0530    error validating settings: must specify --fields, --fieldFile or --headerline to import this file type
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ mongoimport --db myDB --collection Student --type csv --headerline --file /home/bmscecse/Desktop/studentnew.csv
2025-03-11T14:58:35.628+0530    connected to: mongodb://localhost/
2025-03-11T14:58:35.763+0530    2 document(s) imported successfully. 0 document(s) failed to import.
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$
```



11/3/25

Lab-02

Create "Student" database in Ubuntu & perform import & export to csv file locally

use myDB

db.createCollection("Student");

db.Student.updateOne({
_id:2,
StudeName:"Aryan David",
Grade:"VIII"
},{$set:{Hobbies:"Chess"}},{upsert:true});

db.Student.find({StudeName:"Aryan David"});

db.Student.find({},{StudeName:1,Grade:1,
_id:0});

db.student.find({Grade:{$eq:'VIII'}}).pretty();

db.Student.find({StudeName:/^M/}).pretty();

db.Student.find().sort({StudeName:-1});

db.Student.save({StudeName:"Vamsi",Grade:"VI"});

db.student.updateOne({_id:2},{$set:{
location:"Network"}});

db.Student.find().skip(1).pretty();

db.createCollection("food");
db.food.insertOne({_id:1,
fruits:['grapes','mango','apple']});
db.food.insertOne({_id:3,fruits:
['banana','mango']});
db.food.find({'fruits':{$size:2}});

mongoexport --uri="mongodb://localhost:27017" --db=myDB --collection=Student --type=csv --out=/home/bmscecse/Desktop/Student.csv --fields="StudeName,Grade,Hobbies,location"

mongoimport --db myDB --collection Student --type csv --headerline --file /home/bmscecse/Desktop/Student.csv