LABCYCLE 3

- 1.Install the MongoDB Compass GUI and configure it.
- 2. Create a collection student consists of details like rollno, name, phoneno, marks, address, year of course etc

3.Insert the details of the multiple students (atleast 5) in the form of documents in the student collection

```
> db.student.insertMany([{ id:20, name:"abhilash", phoneno:1245567899,
marks:95, addr:"eklm", yoc:2020}, { id:12, name:"anu", phoneno:1567892345,
marks:91, addr:"thrissur", yoc:2022}, { id:42, name:"dinu", phoneno:1908672345,
marks:93, addr:"plkd", yoc:2020}, { id:08, name:"asha", phoneno:1678934261,
marks:92, addr:"idukki", yoc:2019} ])
{ "acknowledged" : true, "insertedIds" : [ 20, 12, 42, 8 ] }
> db.student.find()
{ "id": 30, "name": "sujith", "phoneno": 1234567899, "marks": 99, "addr":
"thrissur", "yoc" : 2020 }
{ "id": 20, "name": "abhilash", "phoneno": 1245567899, "marks": 95, "addr":
"eklm", "yoc" : 2020 }
{ "_id" : 12, "name" : "anu", "phoneno" : 1567892345, "marks" : 91, "addr" :
"thrissur", "yoc" : 2022 }
{ "id": 42, "name": "dinu", "phoneno": 1908672345, "marks": 93, "addr": "plkd",
"voc" : 2020 }
{ " id" : 8, "name" : "asha", "phoneno" : 1678934261, "marks" : 92, "addr" :
"idukki", "yoc" : 2019 }
```

4.Retrieve the fields rollno, name, phoneno, marks, city for all the documents in the collection student

```
db.student.find({},{yoc:0})
{ "_id" : 30, "name" : "sujith", "phoneno" : 9876543212, "marks" : 99, "addr" : "thrissur" }
```

```
{ "_id" : 12, "name" : "anu", "phoneno" : 1567892345, "marks" : 91, "addr" : "thrissur" }
{ "_id" : 42, "name" : "dinu", "phoneno" : 1908672345, "marks" : 93, "addr" : "plkd" }
{ "_id" : 8, "name" : "asha", "phoneno" : 1678934261, "marks" : 92, "addr" : "idukki" }
```

5.Display the details of students who achieved a score more than 90 and are from 'Thrissur'.

```
db.student.find({$and: [{addr:"thrissur"}, {marks: {$gt:90}}]}) { "_id" : 30, "name" : "sujith", "phoneno" : 1234567899, "marks" : 99, "addr" : "thrissur", "yoc" : 2020 } { "_id" : 12, "name" : "anu", "phoneno" : 1567892345, "marks" : 91, "addr" : "thrissur", "yoc" : 2022 }
```

6.Update the phone number of Sujith in the student collection. Retrieve the updated information

```
db.student.updateOne({_id:30}, {$set: {phoneno:9876543212} } ) { "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
```

7. Update the year of course in all the documents in the student collection to 2021. Also retrieve the updated information.

```
db.student.updateMany({}, {$set: {yoc:2021} } )
{ "acknowledged" : true, "matchedCount" : 5, "modifiedCount" : 5 }
```

8. Delete the details of the student whose name is 'Abhilash' from the student collection

```
db.student.deleteMany({name: "abhilash"})
{ "acknowledged": true, "deletedCount": 1 }
> db.student.find()
{ "__id": 30, "name": "sujith", "phoneno": 9876543212, "marks": 99, "addr": "thrissur", "yoc": 2021 }
{ "__id": 12, "name": "anu", "phoneno": 1567892345, "marks": 91, "addr": "thrissur", "yoc": 2021 }
```

```
{ "_id" : 42, "name" : "dinu", "phoneno" : 1908672345, "marks" : 93, "addr" : "plkd", "yoc" : 2021 } { "_id" : 8, "name" : "asha", "phoneno" : 1678934261, "marks" : 92, "addr" : "idukki", "yoc" : 2021 }
```

10. Arrange the name of the students in ascending order along with all the columns.