"thrissur" }

## ADVANCED DATABASE MANAGEMENT SYSTEM-LAB <u>CYCLE 3</u>

- 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

```
db.student.insertOne({_id:
{ "acknowledged" : true, "insertedId" : 30 }
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",
"yoc" : 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" :
```

```
{ "_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 }
```