# **LAB QUESTION CYCLE -3**

 Create a collection student consists of details like rollno, name, phoneno, marks, address, year of course etc

NoSQL code:

```
> show dbs
admin 0.000GB
config 0.000GB
local 0.000GB
mymongodb 0.000GB
> use StudentB6
switched to db StudentB6
> db.createCollection("student")
\{ "ok" : 1 }
```

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

```
NoSQL CODE:
```

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

```
NoSQL CODE:
```

```
> db.student.find()
```

```
OUTPUT
```

```
{_id:101,name:"Appu",phoneno:9496867367,mark:45,address:"moozhikkal",year:2012} 
{_id:102,name:"Ammu",phoneno:9496867367,mark:45,address:"mol",year:2012} 
{_id:103,name:"Anu",phoneno:9496867367,mark:48,address:"mh",year:2020} 
{_id:104,name:"sujith",phoneno:9496867385,mark:51,address:"rr",year:2020} 
{_id:105,name:"ABHILASH",phoneno:9496867367,mark:51,address:"mr",year:2020}
```

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

NoSQL CODE:

```
> db.student.find({$and:[{mark:{$gt:90}}},{address:" Thrissur "}]})
```

#### **OUTPUT:**

```
{ id": 104, "name": "midhu", "phoneno": 9496867367, "mark": 95, "address": "Thrissur", "year": 2020 }
```

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

NoSQL CODE:

```
> db.student.updateOne(\{name: "Sujith"\}, \{\$set: \{phoneno: 96325874\}\})
```

```
 \{ \ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 \} \\ db.student.updateOne(\{name: "Sujith"\})
```

#### **OUTPUT:**

```
{_id:104,name:"sujith",phoneno: 96325874,mark:51,address:"rr",year:2020}
```

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

NoSQL CODE:

```
> db.student.updateMany({year:2020},{$set:{year:2021}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
```

```
> db.student.find()
OUTPUT
{_id:101,name:"Appu",phoneno:9496867367,mark:45,address:"moozhikkal",year:2021}
{_id:102,name:"Ammu",phoneno:9496867367,mark:45,address:"mol",year:2021}
{_id:103,name:"Anu",phoneno:9496867367,mark:48,address:"mh",year:2021}
{_id:104,name:"sujith",phoneno:9496867385,mark:51,address:"rr",year:2021}
{_id:105,name:"ABHILASH",phoneno:9496867367,mark:51,address:"mr",year:2021}
 7. Delete the details of the student whose name is 'Abhilash' from the student collection
     NoSQL CODE:
> db.student.deleteOne({name:"Abhilash"})
{ "acknowledged" : true, "deletedCount" : 1 }
> db.student.find()
OUTPUT:
{_id:101,name:"Appu",phoneno:9496867367,mark:45,address:"moozhikkal",year:2021}
{_id:102,name:"Ammu",phoneno:9496867367,mark:45,address:"mol",year:2021}
{_id:103,name:"Anu",phoneno:9496867367,mark:48,address:"mh",year:2021,dept:"MCA"}
{_id:104,name:"sujith",phoneno:9496867385,mark:51,address:"rr",year:2021, dept:"MCA"}
```

8. Retrieve the number of students per department from the student collection.

```
NoSQL CODE:
```

```
> db.student.find({dept:"MCA"}).count()
```

### **OUTPUT:**

2

9. Arrange the name of the students in ascending order along with all the columns. NoSQL CODE:

> db.student.find().sort({roll\_id:-1})

## **OUTPUT**