LABORATORY PROGRAM - 1

MongoDB- CRUD Operations Demonstration (Practice and Self Study)

OBSERVATION

COMMAND WITH OUTPUT - USING ATLAS

```
Microsoft Windows [Version 10.0.22631.4890]
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C:\Users\student>mongosh "mongodb+srv://cluster0.qh8blz4.mongodb.net/" --apiVersion 1 --username likhithcs22
Enter password: ************
Current Mongosh Log ID: 67c6c754899c67e814fa4213
Connecting to: mongodb+srv://<credentia
                                                     ials>@cluster0.qh8blz4.mongodb.net/?appName=mongosh+2.4.0
                           8.0.5 (API Version 1)
2.4.0
 Using MongoDB:
Using Mongosh:
 For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/
Atlas atlas-2vljb9-shard-0 [primary] test> show dbs
e-commerce 108.00 KiB
myDB 40.00 KiB
admin 232.00 KiB
             232.00 KiB
15.70 GiB
Atlas atlas-2vljb9-shard-0 [primary] test> use myDB switched to db myDB
Atlas atlas-2vljb9-shard-0 [primary] myDB> db
myDB
Atlas atlas-2vljb9-shard-0 [primary] myDB> db.createCollection("Student");
 .
Atlas atlas-2vljb9-shard-0 [primary] myDB> db.Student.insert({RollNo:1,Age:21,Cont:9876,email:"antara.de9@gmail.com"});
    db.Student.insert({RollNo:2,Age:22,Cont:9976,email:"anushka.de9@gmail.com"});
    db.Student.insert({RollNo:3,Age:21,Cont:5576,email:"anubhav.de9@gmail.com"});
   . db.Student.insert({RollNo:4,Age:20,Cont:4476,email:"pani.de9@gmail.com"});
  ...db.Student.insert({RollNo:10,Age:23,Cont:2276,email:"rekha.de9@gmail.com"});
eprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
  acknowledged: true,
insertedIds: { '0': ObjectId('67c6c898899c67e814fa4218') }
 tlas atlas-2vljb9-shard-0 [primary] myDB> db.Student.insert({RollNo:1,Age:21,Cont:9876,email:"antara.de9@gmail.com"});
  acknowledged: true,
insertedIds: { '0': ObjectId('67c6c8a3899c67e814fa4219') }
 ktlas atlas-2vljb9-shard-0 [primary] myDB> db.Student.insert({RollNo:2,Age:22,Cont:9976,email:"anushka.de9@gmail.com"});
  acknowledged: true,
insertedIds: { '0': ObjectId('67c6c8f7899c67e814fa421a') }
 .
tlas atlas-2vljb9-shard-0 [primary] myDB> db.Student.insert({RollNo:3,Age:21,Cont:5576,email:"anubhav.de9@gmail.com"});
  acknowledged: true,
insertedIds: { '0': ObjectId('67c6c8fb899c67e814fa421b') }
C:\Users\likhi>mongosh "mongodb+srv://cluster0.qh8blz4.mongodb.net/" --apiVersion 1 --username likhithcs22
Enter password: *****
Current Mongosh Log ID: 6833148466c722794490defd
Connecting to:
                                                                     .als>@cluster0.qh8blz4.mongodb.net/?appName=mongosh+2.2.9
Using MongoDB:
Using Mongosh:
                                   8.0.9 (API Version 1)
                                   2.2.9
mongosh 2.5.1 is available for download: https://www.mongodb.com/try/download/shell
For mongosh info see: https://docs.mongodb.com/mongodb-shell/
Atlas atlas-2vljb9-shard-0 [primary] test> show dbs
e-commerce 108.00 KiB
myDB 72.00 KiB
admin 312.00 KiB
local 64.34 GiB
Atlas atlas-2vljb9-shard-0 [primary] test> use myDB
switched to db myDB
Atlas atlas-2vljb9-shard-0 [primary] myDB> db
myDB
Atlas atlas-2vljb9-shard-0 [primary] myDB> show collections
Student
```

```
Atlas atlas-2vljb9-shard-0 [primary] myDB> db.Student.find()
      _id: ObjectId('67c6c898899c67e814fa4214'),
    RollNo: 1,
    Age: 21,
Cont: 9876,
email: 'antara.de9@gmail.com'
      _id: ObjectId('67c6c898899c67e814fa4215'),
    RollNo: 2,
    Age: 22,
Cont: 9976,
email: 'anushka.de9@gmail.com'
      _id: ObjectId('67c6c898899c67e814fa4216'),
    RollNo: 3,
    Age: 21,
Cont: 5576,
email: 'anubhav.de9@gmail.com'
     _id: ObjectId('67c6c898899c67e814fa4217'),
    RollNo: 4,
    Age: 20,
Cont: 4476,
email: 'pani.de9@gmail.com'
     _id: ObjectId('67c6c898899c67e814fa4218'),
    RollNo: 10,
    Age: 23,
Cont: 2276,
email: 'Abhinav@gmail.com'
      _id: ObjectId('67c6c8a3899c67e814fa4219'),
    RollNo: 1,
    Age: 21,
Cont: 9876,
email: 'antara.de9@gmail.com'
     _id: ObjectId('67c6c8f7899c67e814fa421a'),
    RollNo: 2,
    Age: 22,
Cont: 9976,
email: 'anushka.de9@gmail.com'
     _id: ObjectId('67c6c8fb899c67e814fa421b'),
    _id: Objection of Coccarbasecore.
RollNo: 3,
Age: 21,
Cont: 5576,
email: 'anubhav.de9@gmail.com'
      _id: ObjectId('67c6c8fd899c67e814fa421c'),
    RollNo: 4,
    Age: 20,
Cont: 4476,
email: 'pani.de9@gmail.com'
     _id: ObjectId('67c6c904899c67e814fa421d'),
    RollNo: 10,
    Age: 23,
Cont: 2276,
email: 'rekha.de9@gmail.com'
      _id: ObjectId('67c6ca34899c67e814fa421e'),
    _Id: Objectid( 67686234899)
RollNo: 11,
Age: 22,
Name: 'FEM',
Cont: 2276,
email: 'rea.de9@gmail.com'
```

```
Atlas atlas-2vljb9-shard-0 [primary] myDB> db.Student.updateOne({"RollNo": 10}, {$set: {"email": "john.deo@gmail.com"}})
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
Atlas atlas-2vljb9-shard-0 [primary] myDB> db.Student.find(
    ... {"Name": /^F/}
    ...)
[
    __id: ObjectId('67c6ca34899c67e814fa42le'),
    RollNo: 11,
    Age: 22,
    Name: 'FEM',
    Cont: 2276,
    email: 'rea.de9@gmail.com'
}

Atlas atlas-2vljb9-shard-0 [primary] myDB> |
```

MongoDB- CRUD Operations Demonstration (Practice and Self Study)

COMMAND WITH OUTPUT - USING UBUNTU TERMINAL

```
test> use MyDataBase
switched to db MyDataBase
MyDataBase> show collections
NewStudent
NewStudent2
Student
MyDataBase> db.NewStudent2.drop();
MyDataBase> db.createCollection("Customers");
MyDataBase> db.Customers.insertMany([{cust id:1,Balance:200, Type:"S"},]);
  acknowledged: true,
insertedIds: { '0': ObjectId('67d00571207666297fa3b81a') }
MyDataBase> db.Customers.insert({cust_id:1,Balance:1000, Type:"Z"})
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
  acknowledged: true,
insertedIds: { '0': ObjectId('67d0058f207666297fa3b81b') }
MyDataBase> db.Customers.insert({cust_id:2,Balance:100, Type:"Z"});
  acknowledged: true,
insertedIds: { '0': ObjectId('67d0059c207666297fa3b81c') }
MyDataBase> db.Customers.insert({cust_id:2,Balance:1000, Type:"C"});
  acknowledged: true,
insertedIds: { '0': ObjectId('67d005a5207666297fa3b81d') }
MyDataBase> db.Customers.insert({cust id:2,Balance:500, Type:"C"});
  acknowledged: true,
insertedIds: { '0': ObjectId('67d005ad207666297fa3b81e') }
MyDataBase> db.Customers.insert({cust_id:2,Balance:50, Type:"S"});
  acknowledged: true,
insertedIds: { '0': ObjectId('67d005b2207666297fa3b81f') }
MyDataBase> db.Customers.insert({cust_id:3,Balance:500, Type:"Z"});
  acknowledged: true,
insertedIds: { '0': ObjectId('67d005ba207666297fa3b820') }
   MyDataBase> db.Customers.aggregate([
```

```
MyDataBase> db.Customers.aggregate([
... { Smatch: { Type: "Z" } },
... { Sgroup: { _id: "$cust_id", TotAccBal: { $sum: "$Balance" } } },
... { Smatch: { TotAccBal: { $gt: 1200 } } }
... ]);
```

```
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:-$ mongoimport --host localhost --db MyDataBase --coll ection NewStudent2 --type=csv --file /home/bmscecse/Desktop/135.txt --headerline 2025-03-11T14:55:05.192+0530 connected to: mongodb://localhost/ 2025-03-11T14:55:05.360+0530 3 document(s) imported successfully. 0 document(s) failed to import. bmscecsegbmscecse-HP-Elite-Tower-800-G9-Desktop-PC:-$ mongoexport --host localhost --db MyDataBase --coll ection NewStudent2 --type=json --file /home/bmscecse/Desktop/135.txt 2025-03-11T14:55:24.438+0530 error parsing command line options: unknown option "file" 2025-03-11T14:55:24.438+0530 try 'mongoexport --help' for more information bmscecsegbmscecse-HP-Elite-Tower-800-G9-Desktop-PC:-$ mongoexport --host localhost --db MyDataBase --coll ection NewStudent2 --type=json --out /home/bmscecse/Desktop/135.txt 2025-03-11T14:55:32.771+0530 connected to: mongodb://localhost/ 2025-03-11T14:55:32.780+0530 exported 3 records bmscecsegbmscecse-HP-Elite-Tower-800-G9-Desktop-PC:-$
```