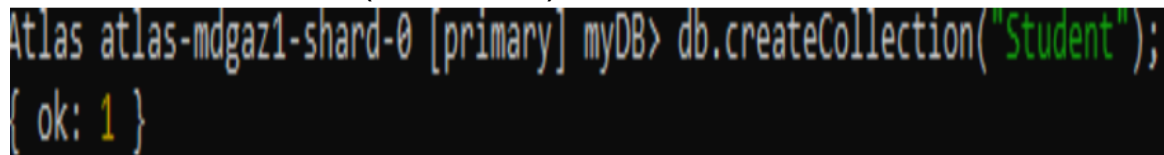


## LAB 9: NOSQL

Perform the following DB operations using MongoDB.

1. Create a database "Student" with the following attributes Rollno, Age, ContactNo, Email-Id.

```
db.createCollection("Student");
```



```
Atlas atlas-mdgaz1-shard-0 [primary] myDB> db.createCollection("Student");  
{ ok: 1 }
```

2. Insert appropriate values

```
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"});  
db.Student.find()
```

```

Atlas atlas-mdgaz1-shard-0 [primary] myDB> db.Student.find()
[
  {
    _id: ObjectId("63bfcf9a56eba0e23c3a5c72"),
    RollNo: 1,
    Age: 21,
    Cont: 9876,
    email: 'antara.de9@gmail.com'
  },
  {
    _id: ObjectId("63bfcfb456eba0e23c3a5c73"),
    RollNo: 2,
    Age: 22,
    Cont: 9976,
    email: 'anushka.de9@gmail.com'
  },
  {
    _id: ObjectId("63bfcfd156eba0e23c3a5c74"),
    RollNo: 3,
    Age: 21,
    Cont: 5576,
    email: 'anubhav.de9@gmail.com'
  },
  {
    _id: ObjectId("63bfcfe456eba0e23c3a5c75"),
    RollNo: 4,
    Age: 20,
    Cont: 4476,
    email: 'pani.de9@gmail.com'
  },
  {
    _id: ObjectId("63bfcff656eba0e23c3a5c76"),
    RollNo: 5,
    Age: 23,
    Cont: 2276,
    email: 'rekha.de9@gmail.com'
  }
]

```

3. Write query to update Email-Id of a student with rollno 10.

db.Student.update({RollNo:10},{ \$set:{  
[email:"Abhinav@gmail.com"](mailto:Abhinav@gmail.com)}})

```

Atlas atlas-mdgaz1-shard-0 [primary] myDB> db.Student.update({RollNo:10},{ $set:{email:"Abhinav@gmail.com"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}

```

4. Replace the student name from "ABC" to "FEM" of rollno 11.

db.Student.insert({RollNo:11, Age:22, Name:

["ABC", Cont:2276, email:"rea.de9@gmail.com"](mailto:rea.de9@gmail.com)});

db.Student.update({RollNo:11, Name:"ABC"}, { \$set: {Name:"FEM"}})

```
Atlas atlas-mdgaz1-shard-0 [primary] myDB> db.Student.update({RollNo:11,Name:"ABC"},{$set:{Name:"FEM"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```
{
  _id: ObjectId("63bfd4de56eba0e23c3a5c78"),
  RollNo: 11,
  Age: 22,
  Name: 'FEM',
  Cont: 2276,
  email: 'rea.de9@gmail.com'
}
```

## 5. Export the created table into local file system

mongoexport

mongodb.net/myDB --collection=Student --out

C:\Users\BMSCECSE\Downloads\output.json

```
C:\Users\BMSCECSE>mongoexport mongodb+srv://antararc:Test1234@cluster0.mfnfeys.mongodb.net/myDB --collection=Student --out C:\Users\BMSCECSE\Downloads\output.json
2023-01-12T15:15:56.383+0530 connected to: mongodb+srv://[**REDACTED**]@cluster0.mfnfeys.mongodb.net/myDB
2023-01-12T15:15:56.497+0530 exported 7 records
```

## 6. Drop the table

db.Student.drop();

```
Atlas atlas-mdgaz1-shard-0 [primary] myDB> db.Student.drop();
true
Atlas atlas-mdgaz1-shard-0 [primary] myDB> db.Student.find()
```

## 7. Import a given csv dataset from local file system into

mongodb collection.

mongoimport

```
C:\Users\BMSCECSE>mongoimport mongodb+srv://antararc:Test1234@cluster0.mfnfeys.mongodb.net/myDB --collection=New_Student --type json --file C:\Users\BMSCECSE\Downloads\output.json
2023-01-12T15:17:35.523+0530 connected to: mongodb+srv://[**REDACTED**]@cluster0.mfnfeys.mongodb.net/myDB
2023-01-12T15:17:35.640+0530 7 document(s) imported successfully. 0 document(s) failed to import.
```

