

## WEEK 9 – NO SQL Lab 1

(Tuesday, 17-01-2023)

### Perform the following DB operations using MongoDB.

- Create a database “Student” with the following attributes  
Rollno, age, contactNo, Email-Id.

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

```
Atlas atlas-kfzjtm-shard-0 [primary] Lab_9> db.createCollection("Student");  
{ ok: 1 }
```

- Insert appropriate values

```
db.Student.insert({rollno:1,age:21,cont:9876,email:"prannay@gmail.com"});  
db.Student.insert({rollno:2,age:22,cont:9976,email:"sohan@gmail.com"});  
db.Student.insert({rollno:3,age:21,cont:5576,email:"farhaan@gmail.com"});  
db.Student.insert({rollno:4,age:20,cont:4476,email:"sakshi@gmail.com"});  
db.Student.insert({rollno:5,age:23,cont:2276,email:"sanika@gmail.com"});
```

```
Atlas atlas-kfzjtm-shard-0 [primary] Lab_9> db.Student.insert({RollNo:1,Age:21,Cont:9876, email:"prannay@gmail.com"});  
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.  
{  
  acknowledged: true,  
  insertedIds: { '0': ObjectId("63ced78b4de806f62778f044") }  
}  
Atlas atlas-kfzjtm-shard-0 [primary] Lab_9> db.Student.insert({RollNo:2,Age:22,Cont:9976, email:"sohan@gmail.com"});  
{  
  acknowledged: true,  
  insertedIds: { '0': ObjectId("63ced7ad4de806f62778f045") }  
}  
Atlas atlas-kfzjtm-shard-0 [primary] Lab_9> db.Student.insert({RollNo:3,Age:21,Cont:5576, email:"farhaan@gmail.com"});  
{  
  acknowledged: true,  
  insertedIds: { '0': ObjectId("63ced7c54de806f62778f046") }  
}  
Atlas atlas-kfzjtm-shard-0 [primary] Lab_9> db.Student.insert({RollNo:4,Age:20,Cont:4476, email:"sakshi@gmail.com"});  
{  
  acknowledged: true,  
  insertedIds: { '0': ObjectId("63ced7e34de806f62778f047") }  
}  
Atlas atlas-kfzjtm-shard-0 [primary] Lab_9> db.Student.insert({RollNo:10,Age:23,Cont:2276, email:"sanika@gmail.com"});  
{  
  acknowledged: true,  
  insertedIds: { '0': ObjectId("63ced7fe4de806f62778f048") }  
}
```

- **Write a query to update the Email-Id of a student with rollno 5.**

```
db.Student.update({rollno:5},{ $set:{email:"abhinav@gmail.com"}})
```

```
Atlas atlas-kfzjtm-shard-0 [primary] Lab_9> db.Studnet.update({RollNo:10},{ $set:{email:"meena@gmail.com"}});
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
```

- **Replace the student name from “ABC” to “FEM” of rollno 11.**

```
db.Student.insert({rollno:11,age:22,name:"ABC",cont:2276,email:"madhura@gmail.com"});
```

```
db.Student.update({rollno:11,name:"ABC"},{ $set:{name:"FEM"}})
```

```
Atlas atlas-kfzjtm-shard-0 [primary] Lab_9> db.Student.insert({RollNo:11, Age:22, Name:"ABC", Cont:2276, email:"madhura@gmail.com"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("63ced8dd4de806f62778f049") }
}
Atlas atlas-kfzjtm-shard-0 [primary] Lab_9> db.Studnet.update({RollNo:11, Name:"ABC"},{ $set:{Name:"FEM"}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
```

- **Export the created table into local file system**

```
mongoexport
```

```
mongodb+srv://dhiksha:<password>@cluster0.xbmgozf.mongodb.net/Lab_9
```

```
--collection=Student -- out C:\Users\dhiks\Desktop\export\output.json
```

```
C:\Users\dhiks\Desktop\dbms>mongoexport mongodb+srv://dhiksha:123dolphin789@cluster0.xbmgozf.mongodb.net/Lab_9
--collection=Student --out C:\Users\dhiks\Desktop\export\output.json
2023-01-24T20:28:30.544+0530 connected to: mongodb+srv://[**REDACTED**]@cluster0.xbmgozf.mongodb.net/Lab_9
2023-01-24T20:28:30.742+0530 exported 6 records
```

- **Drop the table**

db.Student.drop();

```
Atlas atlas-kfzjtm-shard-0 [primary] Lab_9> db.Student.drop();
true
Atlas atlas-kfzjtm-shard-0 [primary] Lab_9> db.Student.find();
```

- **Import a given csv dataset from local file system into mongodb collection.**

mongoimport

mongodb+srv://dhiksha:<password>@cluster0.xbmgozf.mongodb.net/Lab\_9

--collection=new\_Student --type json --file

C:\Users\dhiks\Desktop\export\output.json

```
C:\Users\dhiks\Desktop\dbms>mongoimport mongodb+srv://dhiksha:123dolphin789@cluster0.xbmgozf.mongodb.net/Lab_9
--collection=new_Student --type json --file C:\Users\dhiks\Desktop\export\output.json
2023-01-24T20:37:46.257+0530 connected to: mongodb+srv://[**REDACTED**]@cluster0.xbmgozf.mongodb.net/Lab_9
2023-01-24T20:37:46.394+0530 6 document(s) imported successfully. 0 document(s) failed to import.
```