

# NoSQL-1

## Week-9

### Question

Perform the following DB operations using MongoDB.

1. Create a database “Student” with the following attributes Rollno, Age, ContactNo, Email-Id.
2. Insert appropriate values
3. Write query to update Email-Id of a student with rollno 10.
4. Replace the student name from “ABC” to “FEM” of rollno 11.
5. Export the created table into local file system
6. Drop the table
7. Import a given csv dataset from local file system into mongodb collection.

### Create database

```
mongosh "mongodb+srv://cluster0.280f2uc.mongodb.net/myFirstDatabase" --apiVersion 1
--username chinmayi_045

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

### Create table & Inserting Values to the table

```
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:5,Age:23,Cont:2276,email:"rekha.de9@gmail.com"});
```

```
❏ mongosh mongodb+srv://<credentials>@cluster0.280f2uc.mongodb.net/week9
Using MongoDB: 5.0.14 (API Version 1)
Using Mongosh: 1.6.2

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.

Atlas atlas-w5b30a-shard-0 [primary] week9> db.Student.insert({RollNo:1,Age:21,Cont:9876,email:"antara.de9@gmail.com"});
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("63ceae75bee0661e2b60a04b") }
}
Atlas atlas-w5b30a-shard-0 [primary] week9> db.Student.insert({RollNo:2,Age:22,Cont:9976,email:"anushka.de9@gmail.com"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("63ceafb0bee0661e2b60a04c") }
}
Atlas atlas-w5b30a-shard-0 [primary] week9> db.Student.insert({RollNo:3,Age:21,Cont:5576,email:"anubhav.de9@gmail.com"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("63ceafd9bee0661e2b60a04d") }
}
Atlas atlas-w5b30a-shard-0 [primary] week9> db.Student.insert({RollNo:4,Age:20,Cont:4476,email:"pani.de9@gmail.com"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("63ceaffdbee0661e2b60a04e") }
}
Atlas atlas-w5b30a-shard-0 [primary] week9> db.Student.insert({RollNo:5,Age:23,Cont:2276,email:"rekha.de9@gmail.com"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("63ceb022bee0661e2b60a04f") }
}
Atlas atlas-w5b30a-shard-0 [primary] week9>
```

db.Student.find()

```

ca. mongosh mongodb+srv://<credentials>@cluster0.280f2uc.mongodb.net/week9
}
insertedIds: { '0': ObjectId("63ceb022bee0661e2b60a04f") }
}
Atlas atlas-w5b30a-shard-0 [primary] week9> db.Student.find()
[
  {
    _id: ObjectId("63ceae75bee0661e2b60a04b"),
    RollNo: 1,
    Age: 21,
    Cont: 9876,
    email: 'antara.de9@gmail.com'
  },
  {
    _id: ObjectId("63ceafb0bee0661e2b60a04c"),
    RollNo: 2,
    Age: 22,
    Cont: 9976,
    email: 'anushka.de9@gmail.com'
  },
  {
    _id: ObjectId("63ceafd9bee0661e2b60a04d"),
    RollNo: 3,
    Age: 21,
    Cont: 5576,
    email: 'anubhav.de9@gmail.com'
  },
  {
    _id: ObjectId("63ceaffdbee0661e2b60a04e"),
    RollNo: 4,
    Age: 20,
    Cont: 4476,
    email: 'pani.de9@gmail.com'
  },
  {
    _id: ObjectId("63ceb022bee0661e2b60a04f"),
    RollNo: 5,
    Age: 23,
    Cont: 2276,
    email: 'rekha.de9@gmail.com'
  }
]
Atlas atlas-w5b30a-shard-0 [primary] week9>

```

## Queries

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

```
db.Student.insert({RollNo:10, Age:24, Cont:2276, email:"rea.de9@gmail.com"});
```

```
db.Student.find({RollNo:10},{ $set:{email:"Abhinav@gmail.com"}})
```

```

mongosh mongodb+srv://<credentials>@cluster0.280f2uc.mongodb.net/week9
}
Atlas atlas-w5b30a-shard-0 [primary] week9> db.Student.deleteMany({RollNo:10})
{ acknowledged: true, deletedCount: 1 }
Atlas atlas-w5b30a-shard-0 [primary] week9> db.Student.insert({RollNo:10, Age:24, Cont:2276, email:"rea.de9@gamil.com"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("63cec014b09e13ea0b31120d") }
}
Atlas atlas-w5b30a-shard-0 [primary] week9> db.Student.update({RollNo:10},{ $set:{email:"Abhinav@gamil.com"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-w5b30a-shard-0 [primary] week9>

```

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

```

```

mongosh mongodb+srv://<credentials>@cluster0.280f2uc.mongodb.net/week9
upsertedCount: 0
}
Atlas atlas-w5b30a-shard-0 [primary] week9> db.Student.insert({RollNo:11, Age:22, Name:"ABC", Cont:2276, email:"rea.de9@gamil.com"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("63ceb244bee0661e2b60a050") }
}
Atlas atlas-w5b30a-shard-0 [primary] week9>

```

```

insertedIds: { '0': ObjectId("63ceb244bee0661e2b60a050") }
}
Atlas atlas-w5b30a-shard-0 [primary] week9> db.Student.update({RollNo:11, Name:"ABC"}, { $set: { Name: "FEM" } })
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-w5b30a-shard-0 [primary] week9>

```

5. Export the created table into local file system

```

mongoexport mongodb+srv://chinmayi_045:bmsce045@cluster0.jde70ry.mongodb.net/week9
--collection=Student --out F:\mongodb\Downloads\output.json

```

```
C:\Windows\System32\cmd.exe
F:\mongodb>mongoexport mongodb+srv://chinmayi_045:bmsce045@cluster0.jde70ry.mongodb.net/week9 --collection=Student --out F:\mongodb\Downloads\output.json
2023-01-24T19:02:43.421+0530    connected to: mongodb+srv://[**REDACTED**]@cluster0.jde70ry.mongodb.net/week9
2023-01-24T19:02:44.365+0530    exported 7 records

F:\mongodb>
```

6. Drop the table

db.Student.drop();

```
C:\Windows\System32\cmd.exe
}
Atlas atlas-w5b30a-shard-0 [primary] week9> db.Student.drop();
true
```

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

mongoimport mongodb+srv://chinmayi\_045:bmsce045@cluster0.jde70ry.mongodb.net/week9 --collection=New\_Student --type json F:\mongodb\Downloads\output.json

```
C:\Windows\System32\cmd.exe
2023-01-24T19:02:44.365+0530    exported 7 records

F:\mongodb>mongoimport mongodb+srv://chinmayi_045:bmsce045@cluster0.jde70ry.mongodb.net/week9 --collection=New_Student --type json F:\mongodb\Downloads\output.json
2023-01-24T19:05:29.618+0530    connected to: mongodb+srv://[**REDACTED**]@cluster0.jde70ry.mongodb.net/week9
2023-01-24T19:05:29.929+0530    7 document(s) imported successfully. 0 document(s) failed to import.

F:\mongodb>
```

db.New\_Student.find()

```

c:\ mongosh mongodb+srv://<credentials>@cluster0.jde70ry.mongodb.net/week9
Atlas atlas-sg0nb9-shard-0 [primary] week9> db.Student.drop();
true
Atlas atlas-sg0nb9-shard-0 [primary] week9> db.New_Student.find()
[
  {
    _id: ObjectId("63cebf5db09e13ea0b31120c"),
    RollNo: 5,
    Age: 23,
    Cont: 2276,
    email: 'rea.de9@gamil.com'
  },
  {
    _id: ObjectId("63cebed0b09e13ea0b311207"),
    RollNo: 1,
    Age: 21,
    Cont: 9876,
    email: 'antra.de9@gamil.com'
  },
  {
    _id: ObjectId("63cebf00b09e13ea0b311208"),
    RollNo: 2,
    Age: 22,
    Cont: 9976,
    email: 'anushka.de9@gamil.com'
  },
  {
    _id: ObjectId("63cebf57b09e13ea0b31120a"),
    RollNo: 4,
    Age: 20,
    Cont: 4476,
    email: 'pani.de9@gamil.com'
  },
  {
    _id: ObjectId("63cebf2eb09e13ea0b311209"),
    RollNo: 3,
    Age: 21,
    Cont: 5576,
    email: 'anubhav.de9@gamil.com'
  },
  {

```

```

c:\ mongosh mongodb+srv://<credentials>@cluster0.jde70ry.mongodb.net/week9

```

```

{
  _id: ObjectId("63cec0c6b09e13ea0b31120e"),
  RollNo: 11,
  Age: 22,
  Name: 'FEM',
  Cont: 2276,
  email: 'rea.de9@gamil.com'
},
{
  _id: ObjectId("63cec014b09e13ea0b31120d"),
  RollNo: 10,
  Age: 24,
  Cont: 2276,
  email: 'Abhinav@gamil.com'
}
]
Atlas atlas-sg0nb9-shard-0 [primary] week9>

```