# **NO SQL**

### STUDENT DATABASE

- 1. Create a database "Student" with the following attributes Rollno, Age, ContactNo, Email-Id.
- 2. Insert appropriate values
- 3. Write a 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.

# **QUERIES**

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

db.createCollection("Student");

2. Insert appropriate values

```
db.Student.insert({RollNo:1,Age:21,Cont:9876,email:"antara.de9@g
mail.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
l.com"});
db.Student.insert({RollNo:10,Age:23,Cont:2276,email:"rekha.de9@g
mail.com"});
3. Write a query to update Email-Id of a student with rollno 10.
db.Student.update({RollNo:10},{$set:{
email:"Abhinav@gmail.com"}})
4. Replace the student name from "ABC" to "FEM" of rollno 11.
db.Student.insert({RollNo:11,Age:22,Name:
"ABC",Cont:2276,email:"rea.de9@gmail.com"});
db.Student.update({RollNo:11,Name:"ABC"},{$se
t:{Name:"FEM"}})
5. Export the created table into local file system
mongoexport
mongodb+srv://NSQ:DEEPINISURESH@cluster0.mfnfeys.
```

mongodb.net/myDB --collection=Student --out C:\deepi\Downloads\output.json

6. Drop the table

db.Student.drop();

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

mongoimport
mongodb+srv://NSQ:DEEPINISURESH@cluster0.mfnfeys.m
ongodb.net/myDB --collection=New\_Student --type json
--file C:\deepi\Downloads\output.json

```
Atlas atlas-76fkrr-shard-0 [primary] NSQ> db.createCollection("Student");
{ ok: 1 }
Atlas atlas-76fkrr-shard-0 [primary] NSQ> db.Student.insert({RollNo:1,Age:21,Cont:9876,email:"antara.de90gmail.com"});
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
acknowledged: true,
insertedIds: { '0': ObjectId("63cfe9d1578f04a88f66485c") }
Atlas atlas-76fkrr-shard-0 [primary] NSQ>
Atlas atlas-76fkrr-shard-0 [primary] NSQ> db.Student.insert({RollNo:2,Age:22,Cont:9976,email:"anushka.de90gmail.com"});
{
acknowledged: true,
insertedIds: { '0': ObjectId("63cfe9d1578f04a88f66485d") }
}
Atlas atlas-76fkrr-shard-0 [primary] NSQ> db.Student.insert({RollNo:3,Age:21,Cont:5576,email:"anubhav.de90gmail.com"});
{
acknowledged: true,
insertedIds: { '0': ObjectId("63cfe9d2578f04a88f66485e") }
}
Atlas atlas-76fkrr-shard-0 [primary] NSQ>
Atlas atlas-76fkrr-shard-0 [primary] NSQ>
Atlas atlas-76fkrr-shard-0 [primary] NSQ>
Atlas atlas-76fkrr-shard-0 [primary] NSQ> db.Student.insert({RollNo:4,Age:20,Cont:4476,email:"pani.de90gmail.com"});
{
acknowledged: true,
insertedIds: { '0': ObjectId("63cfe9d2578f04a88f66485f") }
Atlas atlas-76fkrr-shard-0 [primary] NSQ>
```

```
Atlas atlas-76fkrr-shard-0 [primary] NSQ> db.Student.update({RollNo:11,Name:"ABC"},{$set:{Name:"FEM"}})
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
Atlas atlas-76fkrr-shard-0 [primary] NSQ>
```

C:\Users\BMSCECSE:mongoexport mongodb+srv://antararc:Test1234@cluster0.mfnfeys.mongodb.net/myOB --collection=Student --out C:\Users\BMSCECSE\Downloads\output.json 2823-01-12715:15:56.383+0630 connected to: mongodb+srv://[\*\*REDACTED\*\*]@cluster0.mfnfeys.mongodb.net/myOB 2823-01-12715:15:56.497+0630 exported 7 records

```
Atlas atlas-mdgaz1-shard-0 [primary] myDB> db.New_Student.find()
     id: ObjectId("63bfcfd156eba0e23c3a5c74"),
    RollNo: 3,
    Age: 21,
Cont: 5576,
email: 'anubhav.de9@gmail.com'
     id: ObjectId("63bfcf9a56eba0e23c3a5c72"),
    RollNo: 1,
    Age: 21,
Cont: 9876,
    email: 'antara.de9@gmail.com'
     _id: ObjectId("63bfcfe456eba0e23c3a5c75"),
    RollNo: 4,
    Age: 20,
Cont: 4476,
    email: 'pani.de9@gmail.com'
    _id: ObjectId("63bfd41356eba0e23c3a5c77"),
    RollNo: 10,
    Age: 24,
Cont: 2276,
email: 'Abhinav@gmail.com'
     _id: ObjectId("63bfcff656eba0e23c3a5c76"),
    RollNo: 5,
    Age: 23,
Cont: 2276,
    email: 'rekha.de9@gmail.com'
     id: ObjectId("63bfcfb456eba0e23c3a5c73"),
    RollNo: 2,
    Age: 22,
Cont: 9976,
    email: 'anushka.de9@gmail.com'
    _id: ObjectId("63bfd4de56eba0e23c3a5c78"),
    RollNo: 11,
   Age: 22,
Name: 'FEM',
Cont: 2276,
    email: 'rea.de9@gmail.com'
```

#### **CUSTOMER DATABASE**

- 1. Create a collection by name Customers with the following attributes. Cust\_id, Acc\_Bal, Acc\_Type
- 2. Insert at least 5 values into the table
- 3. Write a query to display those records whose total account balance is greater than 1200 of account type 'Z' for each customer\_id.
- 4. Determine Minimum and Maximum account balance for each customer\_id.
- 5. Export the created collection into local file system
- 6. Drop the table
- 7. Import a given csv dataset from local file system into mongodb Collection.

# **QUERIES**

- 1. Create a collection by name Customers with the following attributes. Cust\_id, Acc\_Bal, Acc\_Type
- db.createCollection("Customers");
- 2. Insert at least 5 values into the table

db.Customers.insert({Cust\_id:1,Acc\_Bal:5000,Acc\_Type:"Current"});

```
db.Customers.insert({Cust_id:2,Acc_Bal:2800,Acc_Type:"Current"});
db.Customers.insert({Cust_id:3,Acc_Bal:3000,Acc_Type:"Savings"});
db.Customers.insert({Cust_id:4,Acc_Bal:4500,Acc_Type:"Savings"});
db.Customers.insert({Cust_id:5,Acc_Bal:3000,Acc_Type:"Current"});
```

- 3. Write a query to display those records whose total account balance is greater than 1200 of account type 'Z' for each customer\_id.
- db.Customers.find({Acc\_Type:"Savings",Acc\_Bal:{\$gt:1200}});
- 4. Determine Minimum and Maximum account balance for each Customer\_id.

```
db.Customers.find().sort({Acc_Bal:+1}).limit(1);
db.Customers.find().sort({Acc_Bal:-1}).limit(1);
```

- 5. Export the created collection into local file system
- 6. Drop the table
- db.Customers.drop();
- 7. Import a given csv dataset from local file system into mongodb collection.

```
Atlas atlas-6qm0d4-shard-0 [primary] Customers> db.Customers.insert({Cust_id:1,Acc_Bal:5000,Acc_Type:"Savings"});
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
   acknowledged: true,
   insertedIds: { '0': ObjectId("63cff4ad2367415816e1a7ce") }
```

```
Atlas atlas-6qm0d4-shard-0 [primary] Customers> db.Customers.insert({Cust_id:2,Acc_Bal:2800,Acc_Type:"Current"});
{
    acknowledged: true,
    insertedIds: { '0': ObjectId("63cff66d2367415816e1a7cf") }
}
Atlas atlas-6qm0d4-shard-0 [primary] Customers> db.Customers.insert({Cust_id:3,Acc_Bal:3000,Acc_Type:"Savings"});
{
    acknowledged: true,
    insertedIds: { '0': ObjectId("63cff6a02367415816e1a7d0") }
}
Atlas atlas-6qm0d4-shard-0 [primary] Customers> db.Customers.insert({Cust_id:4,Acc_Bal:4500,Acc_Type:"Current"});
{
    acknowledged: true,
    insertedIds: { '0': ObjectId("63cff6ca2367415816e1a7d1") }
}
Atlas atlas-6qm0d4-shard-0 [primary] Customers> db.Customer.insert({Cust_id:5,Acc_Bal:6000,Acc_Type:"Savings"});
{
    acknowledged: true,
    insertedIds: { '0': ObjectId("63cff6ef2367415816e1a7d2") }
```

2023-01-24T18:33:21.636+0530 connected to: mongodb+srv://[\*\*REDACTED\*\*]@cluster0.dyo62sf.mongodb.net/wei 2023-01-24T18:33:22.074+0530 8 document(s) imported successfully. 0 document(s) failed to import.

```
Atlas atlas-6qm0d4-shard-0 [primary] Customers> db.Customers.drop(); true
Atlas atlas-6qm0d4-shard-0 [primary] Customers> |
```