

## Week 9:

### Creation of database:

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

### Insertion of 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"});
```

```
Atlas atlas-6maq7m-shard-0 [primary] lab9> db.Student.find()  
[  
  {  
    _id: ObjectId("63cf5945eeca749a71362f5a"),  
    RollNo: 1,  
    Age: 21,  
    Cont: 9876,  
    email: 'antara.de9@gmail.com'  
  },  
  {  
    _id: ObjectId("63cf5945eeca749a71362f5b"),  
    RollNo: 2,  
    Age: 22,  
    Cont: 9976,  
    email: 'anushka.de9@gmail.com'  
  },email: 'rekha.de9@gmail.com'  
  {  
    _id: ObjectId("63cf5946eeca749a71362f5c"),  
    RollNo: 3,atlas-6maq7m-shard-0 [primary] lab9>  
    Age: 21,  
    Cont: 5576,  
    email: 'anubhav.de9@gmail.com'  
  },  
  {  
    _id: ObjectId("63cf5946eeca749a71362f5d"),  
    RollNo: 4,  
    Age: 20,  
    Cont: 4476,  
    email: 'pani.de9@gmail.com'  
  },  
  {  
    _id: ObjectId("63cf5946eeca749a71362f5e"),  
    RollNo: 10,  
    Age: 23,  
    Cont: 2276,  
    email: 'rekha.de9@gmail.com'  
  }  
]
```

## QUERIES:

3. Write a query to update the Email-Id of a student with rollno10.

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

```
{  
  _id: ObjectId("63cf5946eeca749a71362f5e"),  
  RollNo: 10,  
  Age: 23,  
  Cont: 2276,  
  email: 'Abhinav@gmail.com'  
}
```

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

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

```
{  
  _id: ObjectId("63cf5a81eeca749a71362f5f"),  
  RollNo: 11,  
  Name: 'ABC',  
  Age: 20,  
  Cont: 9888,  
  email: 'abc@gmail.com'  
}
```

```
{  
  _id: ObjectId("63cf5a81eeca749a71362f5f"),  
  RollNo: 11,  
  Name: 'FEM',  
  Age: 20,  
  Cont: 9888,  
  email: 'abc@gmail.com'  
}
```

6. Drop the table

```
db.Student.drop();
```

```
Atlas atlas-6maq7m-shard-0 [primary] lab9> db.Student.drop()  
true
```

## Week 10:

### Creation of database:

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

### Insertion of values:

```
var cust=[{cust_id:1, Acc_bal:20000, Acc_type:"A"},{cust_id:2, Acc_bal:1000,  
Acc_type:"B"},{cust_id:3, Acc_bal:4000, Acc_type:"X"},{cust_id:4, Acc_bal:5000, Acc_type:"Z"},  
{cust_id:5, Acc_bal:6000, Acc_type:"Z"}];
```

```
db.Customers.insert({cust_id:1,Acc_bal:20000,Acc_type:'A'});  
db.Customers.insert({cust_id:2,Acc_bal:1000,Acc_type:'B'});  
db.Customers.insert({cust_id:3,Acc_bal:4000,Acc_type:'X'});  
db.Customers.insert({cust_id:4,Acc_bal:5000,Acc_type:'Y'});  
db.Customers.insert({cust_id:5,Acc_bal:6000,Acc_type:'Z'});
```

```
Atlas atlas-6maq7m-shard-0 [primary] lab9> db.Customers.find()
[
  {
    _id: ObjectId("63cf60e0eeca749a71362f60"),
    Cust_id: 1,
    Acc_bal: 2000,
    Acc_type: 'A'
  },
  {
    _id: ObjectId("63cf614aeeca749a71362f61"),
    cust_id: 2,
    Acc_bal: 1000,
    Acc_type: 'B'
  },
  {
    _id: ObjectId("63cf615beeca749a71362f62"),
    cust_id: 3,
    Acc_bal: 4000,
    Acc_type: 'X'
  },
  {
    _id: ObjectId("63cf6169eeca749a71362f63"),
    cust_id: 4,
    Acc_bal: 5000,
    Acc_type: 'Y'
  },
  {
    _id: ObjectId("63cf6178eeca749a71362f64"),
    cust_id: 5,
    Acc_bal: 6000,
    Acc_type: 'Z'
  }
]
```

## QUERIES:

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:'Z',Acc_bal:{$gt:1200}});
```

```
Atlas atlas-6maq7m-shard-0 [primary] lab9> db.Customers.find({Acc_type:'Z',Acc_bal:{$gt:1200}});
[
  {
    _id: ObjectId("63cf6178eeca749a71362f64"),
    cust_id: 5,
    Acc_bal: 6000,
    Acc_type: 'Z'
  }
]
```

4. Determine Minimum and Maximum account balance for each

customer\_id.

```
db.Customers.aggregate([{$group:{_id:"Cust_id","Acc_bal":{$max:"$Acc_bal"}}}])
```

```
Atlas atlas-6maq7m-shard-0 [primary] lab9> db.Customers.aggregate([{$group:{_id:"$Cust_id",Acc_bal:{$max:"$Acc_bal"}}}])
[ { _id: 1, Acc_bal: 2000 }, { _id: null, Acc_bal: 6000 } ]
```

```
db.Customers.aggregate([{$group:{_id:"Cust_id","Acc_bal":{$min:"$Acc_bal"}}}])
```

```
Atlas atlas-6maq7m-shard-0 [primary] lab9> db.Customers.aggregate([{$group:{_id:"$Cust_id",Acc_bal:{$min:"$Acc_bal"}}}])
[ { _id: 1, Acc_bal: 2000 }, { _id: null, Acc_bal: 1000 } ]
```

```
db.Customers.drop();
```