

MongoDB

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 a query to update the Email-Id of a student with roll no 10.
4. . Replace the student name from "ABC" to "FEM" of roll no 11.

```
Atlas atlas-xnulgl-shard-0 [primary] test> db.Student.insert({_id:1,roll_no:1,stud_name:"ABC",age:20,contact_no:9988776655,email:"abc@gmail.com"});
{ acknowledged: true, insertedIds: { '0': 1 } }
Atlas atlas-xnulgl-shard-0 [primary] test> db.Student.update({roll_no:10},{set:{email:'abcd@gmail.com'}});
Uncaught:
SyntaxError: Unexpected token, expected ",", (1:61)

> 1 | db.Student.update({roll_no:10},{set:{email:'abcd@gmail.com'}});
    |                                     ^
    2 |

Atlas atlas-xnulgl-shard-0 [primary] test> db.Student.update({roll_no:10},{set:{email:'abcd@gmail.com'}},{upsert:true});
{
  acknowledged: true,
  insertedId: ObjectId("660a84f713da6f733017258d"),
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 1
}
Atlas atlas-xnulgl-shard-0 [primary] test> db.Student.update({roll_no:1},{set:{stud_name:'FEM'}},{upsert:true});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-xnulgl-shard-0 [primary] test> db.Student.find({});
```

```
Atlas atlas-xnulgl-shard-0 [primary] test> db.Student.find({});
[
  {
    _id: 1,
    roll_no: 1,
    stud_name: 'FEM',
    age: 20,
    contact_no: 9988776655,
    email: 'abc@gmail.com'
  },
  {
    _id: ObjectId("660a84f713da6f733017258d"),
    roll_no: 10,
    email: 'abcd@gmail.com'
  }
]
```

Perform the following DB operations using MongoDB.

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

```
Atlas atlas-xnulgl-shard-0 [primary] test> db.createCollection('customer');
{ ok: 1 }
Atlas atlas-xnulgl-shard-0 [primary] test> db.customer.insert({cust_id:100,acc_bal:1500,acc_type:'z'});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("660a85c23be552442cee58a4") }
}
Atlas atlas-xnulgl-shard-0 [primary] test> db.customer.insert({cust_id:101,acc_bal:1300,acc_type:'a'});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("660a85d63be552442cee58a5") }
}
Atlas atlas-xnulgl-shard-0 [primary] test> db.customer.insert({cust_id:102,acc_bal:1200,acc_type:'x'});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("660a85e63be552442cee58a6") }
}
Atlas atlas-xnulgl-shard-0 [primary] test> db.customer.insert({cust_id:101,acc_bal:1210,acc_type:'z'});
```

```
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("660a85f83be552442cee58a7") }
}
Atlas atlas-xnulgl-shard-0 [primary] test> db.customer.insert({cust_id:103,acc_bal:1210,acc_type:'a'});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("660a869b3be552442cee58a8") }
}
Atlas atlas-xnulgl-shard-0 [primary] test> db.customer.aggregate({$match:{acc_type:'z'}},{ $group:{_id:'cust_id',total_acc_bal:{$sum:'$acc_bal'}}},{ $match:{total_acc_bal:{$gt:1200}}});
[ { _id: 'cust_id', total_acc_bal: 2710 } ]
Atlas atlas-xnulgl-shard-0 [primary] test> db.customer.aggregate({$match:{acc_type:'z'}},{ $group:{_id:'$cust_id',total_acc_bal:{$sum:'$acc_bal'}}},{ $match:{total_acc_bal:{$gt:1200}}});
[
  { _id: 101, total_acc_bal: 1210 },
  { _id: 100, total_acc_bal: 1500 }
]
Atlas atlas-xnulgl-shard-0 [primary] test> db.customer.aggregate({$group:{_id:'$cust_id',min_bal:{$min:'$acc_bal'},max_bal:{$max:'$acc_bal'}}});
[
  { _id: 101, min_bal: 1210, max_bal: 'acc_type' },
  { _id: 100, min_bal: 1500, max_bal: 'acc_type' },
  { _id: 102, min_bal: 1200, max_bal: 'acc_type' },
]
Atlas atlas-xnulgl-shard-0 [primary] test>
```