Commands

```
use databasename
db.createCollection("tablename") //say our table name is s
db.s.insertOne({Attribute1: value, Attribute2: value})
db.s.insertMany([{Attribute1: value, Attribute2: value}, {Attribute1: value, Attribute2:
value}])
db.s.find() //Show all
show collections //list the tables
db.s.updateOne({Attribute1: "findvalue"}, {$set: {Attribute1: "newvalue"}}, {upsert: true})
db.s.updateMany({}, {$set: {NewAttribute: "Value"}}, {upsert: true}) //update all entries
db.c.find({Attribute1: {$gt: xxx(value)}, Attribute2: "value"}) //greater than
db.c.aggregate([{"$group": {" id": null ,"max": {"$max":
                                                                   "$Acc Bal"},
                                                                                   "min":
{"$min":"$Acc Bal" }}}])
db.c.aggregate([{"$group": {"_id": "Cust_id" ,"max": {"$max": "$Acc_Bal"}, "min":
{"$min":"$Acc Bal" }}}])
```

I. 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

```
Student> db.s.insertMany([{StudName:"JohnDoe", Grade:"VIII", Hobbies:"Painting"},
... {StudName:"SarahSmith", Grade:"VI", Hobbies:"Reading"},
... {StudName:"DavidWilliams", Grade:"IX", Hobbies:"Coding"},
... {StudName:"EmilyJones", Grade:"V", Hobbies:"Dancing"},
... {StudName:"OliverBrown", Grade:"X", Hobbies:"Photography"},
... {StudName:"AvaGarcia", Grade:"IV", Hobbies:"Writing"},
... {StudName:"WilliamParker", Grade:"VII", Hobbies:"Chess"},
... {StudName:"OliviaWilson", Grade:"VII", Hobbies:"Gardening"},
... {StudName:"MichaelHall", Grade:"XI", Hobbies:"Gardening"},
... {StudName:"CharlotteRoberts", Grade:"III", Hobbies:"Swimming"}])
      acknowledged: true,
        insertedIds: {
            nsertedIds: {
    '0': ObjectId('660a7cce2d86dcfefdc00e80'),
    '1': ObjectId('660a7cce2d86dcfefdc00e81'),
    '2': ObjectId('660a7cce2d86dcfefdc00e82'),
    '3': ObjectId('660a7cce2d86dcfefdc00e83'),
    '4': ObjectId('660a7cce2d86dcfefdc00e83'),
    '5': ObjectId('660a7cce2d86dcfefdc00e85'),
    '6': ObjectId('660a7cce2d86dcfefdc00e86'),
    '7': ObjectId('660a7cce2d86dcfefdc00e87'),
    '8': ObjectId('660a7cce2d86dcfefdc00e88'),
    '9': ObjectId('660a7cce2d86dcfefdc00e89')
 Student> db.s.find()
               _id: ObjectId('660a7a7e2d86dcfefdc00e7e'),
            StudName: 'MichelleJacintha',
Grade: 'VII',
Hobbies: 'InternsetSurfing'
               id: ObjectId('660a7ab22d86dcfefdc00e7f'),
            StudName: 'Aryana',
Grade: 'VIII',
             Hobbies: 'InternsetSurfing'
               _id: ObjectId('660a7cce2d86dcfefdc00e80'),
            StudName: 'JohnDoe',
Grade: 'VIII',
             Hobbies: 'Painting'
               id: ObjectId('660a7cce2d86dcfefdc00e81'),
            StudName: 'SarahSmith',
Grade: 'VI',
Hobbies: 'Reading'
               _id: ObjectId('660a7cce2d86dcfefdc00e82'),
            StudName: 'DavidWilliams',
Grade: 'IX',
```

```
Grade: 'III',
Hobbies: 'Cooking'
      _id: ObjectId('660a7cce2d86dcfefdc00e88'),
     StudName: 'MichaelHall',
Grade: 'XI',
Hobbies: 'Gardening'
      id: ObjectId('660a7cce2d86dcfefdc00e89'),
    StudName: 'CharlotteRoberts',
Grade: 'II',
Hobbies: 'Swimming'
Student> db.s.upodateOne({StudName:"AvaGarcia"}, {$set:{StudName: 'Ambika'}})
TypeError: db.s.upodateOne is not a function
Student> db.s.updateOne({StudName:"AvaGarcia"}, {$set:{StudName: 'Ambika'}})
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
modifiedCount: 1,
  upsertedCount: 0
Student> db.s.find({StudName:'Ambika'})
      _id: ObjectId('660a7cce2d86dcfefdc00e85'),
     StudName: 'Ambika',
Grade: 'IV',
     Hobbies: 'Writing'
Student> db.s.updateOne({StudName:"Ada"}, {$set:{StudName: 'Ambuja'}}, {upsert: true})
  acknowledged: true,
insertedId: ObjectId('660a7e7c7b7d50080592d516'),
  matchedCount: 0, modifiedCount: 0,
  upsertedCount: 1
Student> db.s.find({StudName:'Ambuja'})
[ { _id: ObjectId('660a7e7c7b7d50080592d516'), StudName: 'Ambuja' } ]
Student> db.s.updateOne({StudName:"Ambuja"}, {$set:{Grade: 'LKG'}, {Hobbies: 'Staring at Wall'}}, {upsert: true})
             r: Unexpected token (1:58)
       db.s.updateOne({StudName: "Ambuja"}, {$set:{Grade: 'LKG'}, {Hobbies: 'Staring at Wall'}}, {upsert: true})
Student> db.s.updateOne({StudName:"Ambuja"}, {$set:{Grade: 'LKG', Hobbies: 'Staring at Wall'}}, {upsert: true})
```

```
Student> db.s.updateOne({StudName: "Ada"}, {$set:{StudName: 'Ambuja'}}, {upsert: true})
  acknowledged: true
  insertedId: ObjectId('660a7e7c7b7d50080592d516'),
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount:
}
Student> db.s.find({StudName:'Ambuja'})
[ { _id: ObjectId('660a7e7c7b7d50080592d516'), StudName: 'Ambuja' } ]
Student> db.s.updateOne({StudName:"Ambuja"}, {Sset:{Grade: 'LKG'}, {Hobbies: 'Staring at Wall'}}, {upsert: true})
Uncaught:
            r: Unexpected token (1:58)
      db.s.updateOne({StudName:"Ambuja"}, {$set:{Grade: 'LKG'}, {Hobbies: 'Staring at Wall'}}, {upsert: true})
Student> db.s.updateOne({StudName:"Ambuja"}, {$set:{Grade: 'LKG', Hobbies: 'Staring at Wall'}}, {upsert: true})
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount:
  upsertedCount: 0
Student> db.s.find({StudName:'Ambuja'})
     _id: ObjectId('660a7e7c7b7d50080592d516'),
    StudName: 'Ambuja',
Grade: 'LKG',
    Hobbies: 'Staring at Wall'
Student> db.s.updateOne({StudName:"Ambuja"}, {$set:{Grade: 'LKG', Hobbies: 'Chewing Gum'}}, {upsert: true})
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount:
  upsertedCount: 0
Student> db.s.find({StudName:'Ambuja'})
     id: ObjectId('660a7e7c7b7d50080592d516'),
    StudName: 'Ambuja',
    Grade: 'LKG',
Hobbies: 'Chewing Gum'
Student>
```

II. 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 i

```
Student> db.c.find({Acc_Bal: {$gt: 1200}, Acc_type: "Current"})
      id: ObjectId('660a84152d86dcfefdc00e8b'),
    Cust_id: '0002',
Acc_Bal: 12000,
    Acc_type: 'Current'
      _id: ObjectId('660a84152d86dcfefdc00e8d'),
    Cust_id: '0004',
Acc_Bal: 25000,
    Acc_type: 'Current'
      _id: ObjectId('660a84152d86dcfefdc00e8f'),
    Cust_id: '0006',
Acc_Bal: 17000,
Acc_type: 'Current'
      _id: ObjectId('660a84152d86dcfefdc00e91'),
    Cust_id: '0008',
Acc_Bal: 32000,
     Acc_type: 'Current'
      _id: ObjectId('660a84152d86dcfefdc00e93'),
    Cust_id: '0010',
Acc_Bal: 20000,
    Acc_type: 'Current'
Student>
```

```
Student> db.c.aggregate([["$group": {"_id": null ,"max": {"$max": "$Acc_Bal"}, "min": {"$min": "$Acc_Bal" }}])
[ { _id: null, max: 32000, min: 5000 } ]
Student> db.c.aggregate([["$group": {"_id": "Cust_id" ,"max": {"$max": "$Acc_Bal"}, "min": {"$min": "$Acc_Bal" }}])
[ { _id: 'Cust_id', max: 32000, min: 5000 } ]
Student> []
```