2/4/20

Lab - 02

Prob' 1) Perform the following DB operations using Mango DB

1. Create a database "student" with the following attributes Rollno, Age, Contact NO, Email Id

   db. create Collection ("Student");
   { ok : 1 }

2. Insert appropriate values.

   db. student. insert ({ Rollno : 1, Age : 21, Cont : 9816, email : "abc@gmail.com"});
   db. student. insert ({ Rollno : 2, Age : 22, Cont : 5576, email : "dce@gmail.com"});
   db. student. insert ({ Roll no : 3 Age : 23, Cont : 5876, email : "efg@gmail.com"});

3. Write query to update Email ID of student with roll no 10

   dB. student. update ({ Roll NO : 10}, {$ set : { email : "raj@gmail.com"})

4) Replace the student name from "ABC" to "FEM" of roll no 11

   db. student. insert update ({ Roll NO : 11, Name : "ABC"}, {$ set : { Name : "FEM"}})

Prob 2

1)) Create a collection by name customers with the following attributes. cust_id Acc. Bal, Acc Type.

→ db. createCollection (' Customers').

2. Insert atleast 5 values into the table.

db. Customers. insert ({ cust_id : 1, Balance : 200, Type : "s"})
db. Customers. insert ({ cust_id : 1, Balance : 1000; Type : "z"})
db. Customers. insert ({ cust_id : 2, Balance : 100, Type : "z"})
db. Customers, insert ({ cust_id : 2 Balance : 1000, Type : "c"})
db. Customers. insert ({ cust_id : 2, Balance : 200; Type : "s"})

3. Write a query to display those records whose account balance is greater than 1200 of account type 'z' for each customer_id

db. Customers. aggregate ({
  $ match : { Type : "z" }},
  { $ group : { _id : " $ cust_id"
  Total AccBal : { $ sum : " $ Balance" }}}
  { $ match : { Tot AccBal : { $ gt : 1200}}}).

4. Determine minimum & maximum amount balance for each customer_id.

db. customers. aggregate (
  { $ group : { _id : " $ cust_id"
  min AccBal : { $ min : " $ Balance" },
  max AccBal : { $ max : " $ Balance" }}).

Sl. 8.

5) Sort the documents based on customer ID in ascending order and account balance in descending order.

```
db. Customers. find(), sort({ "cust_id" : 1,
"Acc bal" : -1 })
```

6. Display only 2nd & 3rd records from collection

```
db. Customers. find(). skip(1). limit(2)
({ cust_id : 102. Acc. Bal : 5000, Acc. Type : "z"}
{ cust_id: 103. Acc. Bal : 3500, Acc. Type : "x"}
```