

BDA Lab-3

Date: 6 / 10 / 2020

Q1]

- i] Create a database & collection Student with attributes Roll no, Age, Contact no, Email-Id.

> use StudentDB

> db.createCollection("Student")

- ii] Insert appropriate values

Name: "XYZ"

> db.Student.insert({_id: 1, Rollno: 1, Age: 15, Contact.no: 989976789, Email: "abc@gmail.com"})

- iii] Query to update Email-id of a student with roll no. 10

> db.Student.update({Rollno: 10}, {\$set: {email: "pqr10@gmail.com"}})

- iv] Replace the student name from "ABC" to "FEM" of roll no 11.

> db.Student.update({Rollno: 11}, {\$set: {Name: "FEM"}})

- v] Export the created table into local file system.

> mongoexport --collection=Student --db=StudentDB
--fields="Name,Rollno, Age, Contact-no, email" --type=csv
--out=studentsexport.csv

- vi] Drop the table

> db.Student.drop()

- vii] Import a given csv dataset from local file system into mongodb collection.

> mongoimport --db StudentDB --collection Bank
--file C:\Users\Hp\Bank.csv --type csv --headerline

Q.2]

i] Create a collection by name Customers with the foll. attributes, Cust-id, Acc-Bal, Acc-Type.

ii] Insert values into collection.

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

```
> db.Customers.insert({-id:1, Cust-id:001, Acc-Bal:12000,
                        Acc-Type:"X"})
```

iii] Query to display those records whose total account balance is greater than 1200 of account type 'Z' for each customer id.

```
> db.Customers.aggregate([{$match: {Acc-type: "Z"}}, {$group:
  {-id: "$Cust-id", TotalAccBal: {$sum: "$Acc-bal"}},
  {$match: {TotalAccBal: {$gt: 1200}}}]
```

iv] Determine min. & max. acc balance for each customer-id.

```
> db.Customers.aggregate([{$group: {-id: "$Cust-id",
  MaxTotBal: {$max: "$Acc-Bal"}, MinTotBal: {$min: "$Acc-Bal"}
  } }])
```

v] Export the created collection into local file system.

```
> mongoexport --collection=Customers --db=StudentDB
--fields="Cust-id, Acc-Bal, Acc-Type" --type=csv
--out=Customersexport.csv
```

vi] Drop the table

```
> db.Customers.drop()
```

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

```
> mongoimport --db StudentDB --collection Bank
--file C:\Users\Hp\Bank.csv --type csv --headerline
```