6-10-2020

BDA - Lab 3

IBM17CS046

1) Create a database & collection Student with attributes Roll no, Age, Contact no, Email_Id.

> use StudentDB
> db.createCollection("Student")

ii] Insert values.

> db.Student.insert({_id:1, Rollno:1, Name:"XYZ", Age:15, Contact_no: 9899997899, email:"abc@gmail.com"})

iii] Update Email_id of a student with roll no 10

> db.Student.update({Roll no:10}, {$set:{email:"pqr10@gmail.com"}})

iv] Replace the Student name from 'ABC' to "FEM" of roll no 11.

> db.Student.update({Roll no: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 = Studentexport.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.

2]

i) Create collection by name Customers with the following attributes.
Cust_id, Acc_Bal, Acc_Type.

ii) Insert values into collection.

```
> db.createCollection("Customers")
> db.Customers.insert({_id:1, Cust_id:001, AccBal:12000, Acc_Type:"x"})
```

iii) Query to Display those records whose total account balance is greater than 1200 of account type '2' for each customer id.

```
> db.Customers.aggregate([{$match:{Acc_type:"2"}}, {$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", MaxTotalBal
:{$max:"$Acc_Bal"}, MinTotalBal:{$min:"$Acc_Bal"}}}])
```

v) Drop table.

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

vi) Importing.

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

vii) Exporting:

```
> mongoexport --collection=Customers --db=StudentDB --fields=
"Cust_id, Acc_Bal, Acc_Type" --type=csv --out=customers.csv
```