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IBM15CS136

Q.1)

i) Create a database & collection Student with attributes:
Rollno, Age, Contact no, Email-Id

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

ii) Insert appropriate values

> db.Student.insert({_id:1, Rollno:1, Name:"xyz", Age:15, Contact-no:981972711, 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 rollno 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=students export.csv

vi) Drop the table

> db.Student.drop()

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

> mongo import --db StudentDB --collection Bank --file C:\users\HP\Bank.csv --type csv --headerline

2)

i) Create a 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, 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", Total Acc Bal : {$ sum: "$Acc_bal"}},
   {$ match : { Total Acc Bal : {$gt : 1200 }}}])
```

iv) Determine min. & max. acc balance for each customer_id

```
> db. Customers. aggregate ([{$ group: {_id: "$Cust_id",
   Max Tot Bal : {$ max : "$Acc_Bal"}, Min Tot Bal : {$ min:
   "$Acc_Bal"}}}])
```

v) Export the created collection into local file system.

```
> mongoexport --collection = Customers --db = Student DB --fields
   = "Cust_id, Acc_Bal, Acc_Type" --type = CSV -- out = Customersexport
                                                                    csv
```

vi) Drop the table

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

vii) Import a given csv data set from Local file system into mongodb collection

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