Name : Dhaval Gogri

Course : Advanced Application Programming (8000 level)

Quest No : Quest 6 (MongoDB)

**Part A**

File 🡪 ConnectToMongo.py

**import** pymongo  
**import** json  
**import** pprint  
**from** pymongo **import** MongoClient  
  
*# Connect to MongoDB Client*client = MongoClient(**'mongodb://dgogri:mypassword@smgo7db01.smu.edu:27017/dgogridb'**)  
*# Choose the database to use as 'db'*db = client.dgogridb  
  
*# Get collections from dgogridb database and print them*collections = db.collection\_names(include\_system\_collections=False)  
**print**(**"Printing Collections Below"**)  
**for** col **in** collections:  
 **print**(col)  
  
  
*# Get data from quest6 collection and print them***print**(**"\nPrinting Database Data Below"**)  
**for** dataInDB **in** db.quest6.find({}, {**"\_id"**: 0} ):  
 **print**(dataInDB)

O/P



**Part B**

Category

🡪 Mongo Restore

Action

🡪 Tool to restore a dump

Example

* mongorestore is used to restore a collection using a bson file. BSON stands for Binary JSON.
* When we use a mongodump command, a bson file is generated for the collection.
* mongoresture is useful if you accidentally drop your collections, want to restore your collection to a previous time stamp collection.

**mongodump Part**

Basic syntax For mongodump

1. **mongodump a Collection**

mongodump -d <databaseName> -c <CollectionName>

1. **mongodump a Database Excluding Specified Collection**

mongodump -d <databaseName> --excludeCollection=<CollectionName> --excludeCollection=<Collectionname>

1. **mongodb with access control**

mongodump -h <HostAddress> - <Portnumber> - <UserName> - <Password> -c <CollectionName> --authenticationDatabase <DatabaseName> --out <Folder to dump the bson file>

**O/P – My created bson file for quest6 and zorro**

****

**mongorestore part**

Basic syntax For mongorestore

1. **mongorestore a Collection**

mongorestore - <CollectionName> - <Databasename> <BsonFile Name>

1. **mongodb with access control**

mongorestore -h <HostAddress> -p <Portnumber> -u <UserName> -p <Password> -c <CollectionName> --authenticationDatabase <DatabaseName> <BSON File Name>

In the restore part, I have first dropped my collection ‘quest6’ from the database.

Then I use the mongorestore command to resore my collection.

The output is given below.

**O/P**

