Week 1 – MONGO Database(No SQL)

Name: Divyanshu Sharma

SRN: PES1UG20CS806

Problem Statement

Use MongoDB and create a sample database and perform the following operations on it

- 1. Create documents with varying fields.
- 2. Use the insert and save commands.
- 3. Drop an existing database and a collection and use remove() to delete documents.
- 4. Update an existing document in a collection. (update())
- 5. Use find () and findOne () for querying the database.

1.Create Operations:

```
> use student
switched to db student
> db
student
 db.createCollection("Student info");
 "ok" : 1 }
 show collections
Student info
 db.Student info.insertMany([
.. {fname: 'kunal', lname: 'singh', ssn: '801', addr: 'kanpur'},
.. {fname: 'dev', lname: 'dixit', ssn: '802', addr: 'bhopal'},
 .. {fname: 'kumar', lname: 'vivek', ssn: '803', addr: 'mandya'},
 .. {fname: 'raj', lname: 'singh', ssn: '804', addr: 'bangalore'}])
        "acknowledged" : true,
        "insertedIds" : [
               ObjectId("61478db2fd93eea0d098561a"),
               ObjectId("61478db2fd93eea0d098561b"),
               ObjectId("61478db2fd93eea0d098561c"),
               ObjectId("61478db2fd93eea0d098561d")
```

2. Insert Command:

3. Remove() to delete documents And Drop Command:

```
> db.Student_info.remove({fname: 'raj'})
WriteResult({ "nRemoved" : 1 })
> db.Student_info.find()
{ "_id" : ObjectId("61478db2fd93eea0d098561a"), "fname" : "Abishek" }
{ "_id" : ObjectId("61478db2fd93eea0d098561b"), "fname" : "dev", "lname" : "dixit", "ssn" : "802", "addr" : "bhopal" }
{ "_id" : ObjectId("61478db2fd93eea0d098561c"), "fname" : "kumar", "lname" : "vivek", "ssn" : "803", "addr" : "mandya" }
>
```

DROP Command:

```
> db
student
> db.dropDatabase()
{ "dropped" : "student", "ok" : 1 }
```

4. Update Command:

5. Use find () Command:

```
> db.Student_info.find()
{ "_id" : ObjectId("61478db2fd93eea0d098561a"), "fname" : "kunal", "lname" : "singh", "ssn" : "801", "addr" : "kanpur" }
{ "_id" : ObjectId("61478db2fd93eea0d098561b"), "fname" : "dev", "lname" : "dixit", "ssn" : "802", "addr" : "bhopal" }
{ "_id" : ObjectId("61478db2fd93eea0d098561c"), "fname" : "kumar", "lname" : "vivek", "ssn" : "803", "addr" : "mandya" }
{ "_id" : ObjectId("61478db2fd93eea0d098561d"), "fname" : "raj", "lname" : "singh", "ssn" : "804", "addr" : "bangalore" }
```