PES1UG19CS019 Page 1 of 3

Database Management System Laboratory UE19CS304

Week 1 - MongoDB (NoSQL)

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Section : A

CRUD Operations in MongoDB

Creation of collection in a database

Command : db.createCollection("Server")

2. Insert one record into the collection

```
Command :
db.Server.insertOne({Name:"Server1", Processor:"Intel Xeon 3rd Gen",
user: "vishal", password: "vishal", admin: "root"});
```

3. Insert many records into the collection

PES1UG19CS019 Page 2 of 3

4. Find One record in the collection based on a condition

Command : db.Server.findOne({user:"supreeth"});

```
> db.Server.findOne({user:"supreeth"});
{
        "_id" : ObjectId("6128633d0e6d9575ed6a6c40"),
        "Name" : "Server3",
        "Processor" : "AMD EPYC",
        "user" : "supreeth",
        "password" : "radish",
        "admin" : "root"
}
```

5. Find all records in the collection

Command : db.Server.find();

6. Update a specific record in the collection

```
Command : db.Server.updateOne({user:"vishal"},{$set:{password:"
1234567890"}});
```

```
> db.Server.updateOne({user:"vishal"},{$set:{password:"1234567890"}});
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1}
```

PES1UG19CS019 Page 3 of 3

7. Update many records in a collection

Command : db.Server.updateMany({admin:"root"},{\$set{admin_password:"
admin_passwd"}});

```
> db.Server.updateMany({admin:"root"},{$set:{admin_password:"admin_passwd"}})
{ "acknowledged" : true, "matchedCount" : 7, "modifiedCount" : 7 }
```

8. Replace a specific record in a collection

```
Command : db.Server.replaceOne({user:"123"},{name:"Server-Corrupted",
Processor:null, user: null, password: null, admin:"root"});
```

```
> db.Server.replaceOne({user:"123"},{name:"Server-Corrupted",Processor:null,user:null,password:null,admin:"root"})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
```

9. Delete a record from a collection

Command : db.Server.deleteOne({user:"milo"});

10. Delete many records from a collection

Command : db.Server.deleteMany({admin:"root"});