A Narendiran PES1UG19CS001 DBMS Lab Week 1

1.Create Operations

db.collection.insertOne()

```
MongoDB schell version v4.2.15
connecting to: mongodb://217.0.0.1:27017/zompressors=disabled&gssapiServiceName=mongodb
Implicit session: session ( "id": UUID("Sicf899c-635b-4cad-80a7-fbbc801f8fb3") )
MongoDB screver version: 4.2.15
Server has startup warnings:
2021-08-26713:50:14.216-06330 I STORAGE [initandlisten]
2021-08-26713:50:14.216-06330 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine
2021-08-26713:50:14.216-06330 I STORAGE [initandlisten] ** See http://dochub.mongodb.org/core/prodnotes-filesystem
2021-08-26713:50:16.087+06330 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2021-08-26713:50:16.087+06330 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.
2021-08-26713:50:16.087+06330 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.
2021-08-26713:50:16.087+06330 I CONTROL [initandlisten]
2021-08-26713:50:16.087+06330 I CO
```

db.collection.insertMany()

2. Read Operations

db.collection.find()

```
blobasketball.find()

{ "_id" : ObjectId("6127509ab543f9babc05df5e"), "Name" : "Micheal Jordan", "position" : "Shooting Guard", "Team" : "Chicago Bulls" }

{ "_id" : ObjectId("61275244b543f9babc05df5f"), "Name" : "Lebron James", "position" : "Small Forward", "Team" : "Lakers" }

{ "_id" : ObjectId("61275244b543f9babc05df60"), "Name" : "Kobe Bryant", "position" : "Shooting Guard", "Team" : "Lakers" }

{ "_id" : ObjectId("612752ecb543f9babc05df61"), "Name" : "Micheal Jordan", "position" : "Shooting Guard", "Team" : "Chicago Bulls" }

> \blacksquare
```

```
> db.basketball.find({position:"Small Forward"}), "Name" : "Lebron James", "position" : "Small Forward", "Team" : "Lakers" }
{ "_id" : ObjectId("61275244b543f9babc05df5f"), "Name" : "Lebron James", "position" : "Small Forward", "Team" : "Lakers" }
> ■
```

db.collection.findOne()

3. Update Operations

db.collection.updateOne()

db.collection.updateMany()

```
> db.basketball.find()
{ ".id": ObjectId("6127509ab543f9babc05df5e"), "Name": "Micheal Jordan", "position": "Shooting Guard", "Team": "Chicago Bulls" }
{ ".id": ObjectId("61275244b543f9babc05df5f"), "Name": "Lebron James", "position": "Small Forward", "Team": "Golden State Warriors" }
{ ".id": ObjectId("61275244b543f9babc05df6o"), "Name": "Kobe Bryant", "Position": "Shooting Guard", "Team": "Miami Heat" }
{ ".id": ObjectId("612752cb543f9babc05df6o"), "Name": "Micheal Jordan", "position": "Shooting Guard", "Team": "Chicago Bulls" }
> db.basketball.updateMany({Name: "Micheal Jordon"},{$set:{Team:"Lakers"}})
{ "acknowledged": true, "matchedcount": 0, "modifiedCount": 0}
> db.basketball.find()
{ ".id": ObjectId("6127509ab543f9babc05df5e"), "Name": "Micheal Jordan", "position": "Shooting Guard", "Team": "Chicago Bulls" }
{ ".id": ObjectId("61275244b543f9babc05df5f"), "Name": "Lebron James", "position": "Small Forward", "Team": "Golden State Warriors" }
{ ".id": ObjectId("61275244b543f9babc05df6o"), "Name": "Kobe Bryant", "Position": "Shooting Guard", "Team": "Miami Heat" }
{ ".id": ObjectId("612752ecb543f9babc05df6o"), "Name": "Micheal Jordan", "position": "Shooting Guard", "Team": "Chicago Bulls" }
}
```

db.collection.replaceOne()

```
adx.nowledged : tide, deteted.count : 1 }
> db.basketball.find()
{ "id" : ObjectId("61275244b543f9babc05df5f"), "Name" : "Lebron James", "position" : "Small Forward", "Team" : "Lakers" }
> db.basketball.replaceOne({Name:"Chris Paul"},{Name:"Chris Paul",position:"Point Guard",Team:"Suns"},{upsert:"True"})
{
    "acknowledged" : true,
    "matchedCount" : 0,
    "modifiedCount" : 0,
    "upsertedId" : ObjectId("6127602301a8898c70f454ed")
}
> db.basketball.find()
{
    "_id" : ObjectId("61275244b543f9babc05df5f"), "Name" : "Lebron James", "position" : "Small Forward", "Team" : "Lakers" }
{
    "id" : ObjectId("6127602301a8898c70f454ed"), "Name" : "Chris Paul", "position" : "Point Guard", "Team" : "Suns" }
>    \blackstart
```

db.collection.update()

```
> db.basketball.find()
{ ".id" : ObjectId("6127509ab543f9babc05df5e"), "Name" : "Micheal Jordan", "position" : "Shooting Guard", "Team" : "Chicago Bulls" }
{ ".id" : ObjectId("61275244b543f9babc05df5f"), "Name" : "Lebron James", "position" : "Small Forward", "Team" : "Lakers" }
{ ".id" : ObjectId("61275244b543f9babc05df6f"), "Name" : "Kobe Bryant", "Position" : "Shooting Guard", "Team" : "Miami Heat" }
{ ".id" : ObjectId("612752ecb543f9babc05df61"), "Name" : "Micheal Jordan", "position" : "Shooting Guard", "Team" : "Chicago Bulls" }
> db.basketball.update([Name: "Kobe Bryant"], {Name: "Kobe Bryant", Position: "Shooting Guard", Team: "Miami Heat"})
WriteResult(( "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.basketball.find()
{ ".id" : ObjectId("6127509ab543f9babc05df5e"), "Name" : "Micheal Jordan", "position" : "Shooting Guard", "Team" : "Chicago Bulls" }
{ ".id" : ObjectId("61275244b543f9babc05df60"), "Name" : "Kobe Bryant", "Position" : "Shooting Guard", "Team" : "Lakers" }
{ ".id" : ObjectId("61275244b543f9babc05df60"), "Name" : "Kobe Bryant", "Position" : "Shooting Guard", "Team" : "Chicago Bulls" }
}
```

4.Delete Operations

db.collection.deleteOne()

```
> db.basketball.find()
{ "_id" : ObjectId("61275244b543f9babc05df5f"), "Name" : "Lebron James", "position" : "Small Forward", "Team" : "Lakers" }
{ "_id" : ObjectId("61275244b543f9babc05df60"), "Name" : "Kobe Bryant", "Position" : "Shooting Guard", "Team" : "Miami Heat" }
> db.basketball.deleteOne((Team:"Miami Heat"})
{ "acknowledged" : true, "deletedCount" : 1 }
> db.basketball.find()
{ "_id" : ObjectId("61275244b543f9babc05df5f"), "Name" : "Lebron James", "position" : "Small Forward", "Team" : "Lakers" }
> ■
```

db.collection.deleteMany()

```
> db.basketball.find()

{ "id" : ObjectId("6127509ab543f9babc05df5e"), "Name" : "Micheal Jordan", "position" : "Shooting Guard", "Team" : "Chicago Bulls" }

{ "id" : ObjectId("61275244b543f9babc05df5f"), "Name" : "Kebron James", "position" : "Snall Forward", "Team" : "Lakers" }

{ "id" : ObjectId("61275244b543f9babc05df60"), "Name" : "Kobe Bryant", "Position" : "Shooting Guard", "Team" : "Miami Heat" }

{ "id" : ObjectId("612752ecb543f9babc05df61"), "Name" : "Micheal Jordan", "position" : "Shooting Guard", "Team" : "Chicago Bulls" }

> db.basketball.deleteMany((Name: "Micheal Jordan"))

{ "acknowledged" : true, "deletedCount" : 2 }

> db.basketball.find()

{ "id" : ObjectId("61275244b543f9babc05df5f"), "Name" : "Lebron James", "position" : "Small Forward", "Team" : "Lakers" }

{ "id" : ObjectId("61275244b543f9babc05df60"), "Name" : "Kobe Bryant", "Position" : "Shooting Guard", "Team" : "Miami Heat" }
```

Drop collection and Database

```
> db.basketball.drop()
true
>
```

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