

Group B : Lab Assignment no. 9

Title : Study of Open Source NOSQL Database: MongoDB (Installation, Basic CRUD operations, Execution)

```
dipti@dipti-VPCEG28FN:~$ mongo
MongoDB shell version v3.6.3
connecting to: mongod://127.0.0.1:27017
MongoDB server version: 3.6.3
Server has startup warnings:
2020-10-15T14:26:28.786+0530 I STORAGE [initandlisten]
2020-10-15T14:26:28.786+0530 I STORAGE [initandlisten] ** WARNING:
Using the XFS filesystem is strongly recommended with the WiredTiger storage
engine
2020-10-15T14:26:28.786+0530 I STORAGE [initandlisten] **          See
http://dochub.mongodb.org/core/prodnotes-filesystem
2020-10-15T14:26:36.417+0530 I CONTROL [initandlisten]
2020-10-15T14:26:36.417+0530 I CONTROL [initandlisten] ** WARNING:
Access control is not enabled for the database.
2020-10-15T14:26:36.417+0530 I CONTROL [initandlisten] **          Read and
write access to data and configuration is unrestricted.
2020-10-15T14:26:36.417+0530 I CONTROL [initandlisten]
>
> use Abhi;
switched to db Abhi

> db.createCollection('Student');
{ "ok" : 1 }

> db.Student.insert({'Rno':'1','Name':'Piyush','Class':'TE COMP'});
WriteResult({ "nInserted" : 1 })

> db.Student.insert({'Rno':'2','Name':'Abhi','Class':'TE COMP'});
WriteResult({ "nInserted" : 1 })

> db.Student.insert({'Rno':'3','Name':'Ashley','Class':'TE
COMP'});WriteResult({ "nInserted" : 1 })
```

```
> db.Student.insert({'Rno':'4','Name':'Hitesh','Class':'TE COMP'});
WriteResult({ "nInserted" : 1 })
```

```
> db.Student.insert({'Rno':'5','Name':'Pratik','Class':'TE COMP'});
WriteResult({ "nInserted" : 1 })
```

```
> db.Student.insert({'Rno':'6','Name':'Pratik','Class':'TE COMP'});
WriteResult({ "nInserted" : 1 })
```

```
> db.Student.find();
{ "_id" : ObjectId("5b8fad4ef00832a0a50b5036"), "Rno" : "1",
  "Name" : "Piyush", "Class" : "TE COMP" }
{ "_id" : ObjectId("5b8fad62f00832a0a50b5037"), "Rno" : "2",
  "Name" : "Abhi", "Class" : "TE COMP" }
{ "_id" : ObjectId("5b8fad70f00832a0a50b5038"), "Rno" : "3",
  "Name" : "Ashley", "Class" : "TE COMP" }
{ "_id" : ObjectId("5b8fad7ff00832a0a50b5039"), "Rno" : "4",
  "Name" : "Hitesh", "Class" : "TE COMP" }
{ "_id" : ObjectId("5b8fad8df00832a0a50b503a"), "Rno" : "5",
  "Name" : "Pratik", "Class" : "TE COMP" }
{ "_id" : ObjectId("5b8fada4f00832a0a50b503b"), "Rno" : "6",
  "Name" : "Pratik", "Class" : "TE COMP" }
```

```
> db.Student.find().pretty();
{
  "_id" : ObjectId("5b8fad4ef00832a0a50b5036"),
  "Rno" : "1",
  "Name" : "Piyush",
  "Class" : "TE COMP"
}
{
  "_id" : ObjectId("5b8fad62f00832a0a50b5037"),
  "Rno" : "2",
  "Name" : "Abhi",
  "Class" : "TE COMP"
}
{
  "_id" : ObjectId("5b8fad70f00832a0a50b5038"),
  "Rno" : "3",
  "Name" : "Ashley",
  "Class" : "TE COMP"
}
{
  "_id" : ObjectId("5b8fad7ff00832a0a50b5039"),
  "Rno" : "4",
  "Name" : "Hitesh",
```

```
"Class" : "TE COMP"
}
{
  "_id" : ObjectId("5b8fad8df00832a0a50b503a"),
  "Rno" : "5",
  "Name" : "Pratik",
  "Class" : "TE COMP"
}
{
  "_id" : ObjectId("5b8fada4f00832a0a50b503b"),
  "Rno" : "6",
  "Name" : "Pratik",
  "Class" : "TE COMP"
}
```

```
> show dbs;
Abhi 0.078GB
admin (empty)
local 0.078GB
```

```
> db.Student.update({'Name':'Hitesh'},{$set:
{'Name':'Henry'}});WriteResult({ "nMatched" : 1, "nUpserted" : 0,
"nModified" : 1
})
```

```
> db.Student.find().pretty();
{
  "_id" : ObjectId("5b8fad4ef00832a0a50b5036"),
  "Rno" : "1",
  "Name" : "Piyush",
  "Class" : "TE COMP"
}
{
  "_id" : ObjectId("5b8fad62f00832a0a50b5037"),
  "Rno" : "2",
  "Name" : "Abhi",
  "Class" : "TE COMP"
}
{
  "_id" : ObjectId("5b8fad70f00832a0a50b5038"),
  "Rno" : "3",
  "Name" : "Ashley",
  "Class" : "TE COMP"
}
{
```

```

    "_id" : ObjectId("5b8fad7ff00832a0a50b5039"),
    "Rno" : "4",
    "Name" : "Henry",
    "Class" : "TE COMP"
  }
  {
    "_id" : ObjectId("5b8fad8df00832a0a50b503a"),
    "Rno" : "5",
    "Name" : "Pratik",
    "Class" : "TE COMP"}
  {
    "_id" : ObjectId("5b8fada4f00832a0a50b503b"),
    "Rno" : "6",
    "Name" : "Pratik",
    "Class" : "TE COMP"
  }
  > db.Student.remove({'ADD':'MP'});
  WriteResult({ "nRemoved" : 1 })
  > db.Student.find().pretty();
  {
    "_id" : ObjectId("5b8fad62f00832a0a50b5037"),
    "Rno" : "2",
    "Name" : "Abhi",
    "Class" : "TE COMP"
  }
  {
    "_id" : ObjectId("5b8fad70f00832a0a50b5038"),
    "Rno" : "3",
    "Name" : "Ashley",
    "Class" : "TE COMP"
  }
  {
    "_id" : ObjectId("5b8fad7ff00832a0a50b5039"),
    "Rno" : "4",
    "Name" : "Henry",
    "Class" : "TE COMP"
  }
  {
    "_id" : ObjectId("5b8fad8df00832a0a50b503a"),
    "Rno" : "5",
    "Name" : "Pratik", "Class" : "TE COMP"
  }
  {
    "_id" : ObjectId("5b8fada4f00832a0a50b503b"),
    "Rno" : "6",

```

```
"Name" : "Pratik",  
"Class" : "TE COMP"  
}
```

```
> db.Student.remove({'Name':'Pratik'},1);  
WriteResult({ "nRemoved" : 1 })
```

```
> db.Student.remove({'Name':'Pratik'},1);  
WriteResult({ "nRemoved" : 1 })
```

```
> db.Student.find().pretty();  
{  
  "_id" : ObjectId("5b8fad62f00832a0a50b5037"),  
  "Rno" : "2",  
  "Name" : "Abhi",  
  "Class" : "TE COMP"  
}  
{  
  "_id" : ObjectId("5b8fad70f00832a0a50b5038"),  
  "Rno" : "3",  
  "Name" : "Ashley",  
  "Class" : "TE COMP"  
}  
{  
  "_id" : ObjectId("5b8fad7ff00832a0a50b5039"),  
  "Rno" : "4",  
  "Name" : "Henry",  
  "Class" : "TE COMP"  
}  
> db.Student.drop();true  
> db.Student.find().pretty();
```