## Assignment No: B-01 Database Management Lab

Name: Shyam P Ambilkar RollNo: TEB1602 **Mongodb Installation and Basic CRUD Operations Starting the mongodb server** [shyam@localhost ~]\$ su Password: [root@localhost shyam]# systemctl start mysqld [root@localhost shyam]# clear #[3;J [root@localhost shyam]# systemctl start mongod [root@localhost shyam]# systemctl enable mongod [root@localhost shyam]# systemctl status mongod • mongod.service - High-performance, schema-free document-oriented database Loaded: loaded (/usr/lib/systemd/system/mongod.service; enabled) Active: active (running) since Tue 2017-10-24 11:55:13 IST; 1h 15min ago Main PID: 1075 (mongod) CGroup: /system.slice/mongod.service 1075 /usr/bin/mongod --quiet -f /etc/mongodb.conf run Oct 24 11:54:46 localhost.localdomain mongod[846]: about to fork child proces... Oct 24 11:54:46 localhost.localdomain mongod[846]: forked process: 1075 Oct 24 11:54:47 localhost.localdomain mongod[846]: all output going to: /var/... Oct 24 11:54:47 localhost.localdomain mongod[846]: log file [/var/log/mongodb... Hint: Some lines were ellipsized, use -1 to show in full. [root@localhost shyam]# mongo MongoDB shell version: 2.4.14 connecting to: test > Display the databases > show dbs Department 0.203125GB Shyam 0.203125GB local 0.078125GB Switch to database > use Shyam switched to db Shyam **Create Collection** > db.createCollection("Students") { "ok":1}

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Insert Operations
> db.Students.insert({_id:02,stud_name:"Shyam",class:"TEB",marks:75,result:"Pass"})
> db.Students.insert({_id:01,stud_name:"Abhishek",class:"TEB",marks:75,result:"Pass"})
> db.Students.insert({_id:03,stud_name:"Sanjay",class:"TEB",marks:65,result:"Pass"})
> db.Students.insert({_id:04,stud_name:"Vinay",class:"TEB",marks:65,result:"Pass"})
> db.Students.insert({_id:05,stud_name:"Mayur",class:"TEB",marks:85,result:"Pass"})
> db.Students.insert({_id:06,stud_name:"Dhiraj",class:"TEB",marks:85,result:"Pass"})
                                          Read Operations
> db.Students.find()
{ "_id" : 2, "stud_name" : "Shyam", "class" : "TEB", "marks" : 75, "result" : "Pass" }
{ "_id" : 1, "stud_name" : "Abhishek", "class" : "TEB", "marks" : 75, "result" : "Pass" }
{ "_id" : 3, "stud_name" : "Sanjay", "class" : "TEB", "marks" : 65, "result" : "Pass" }
{ "_id" : 4, "stud_name" : "Vinay", "class" : "TEB", "marks" : 65, "result" : "Pass" }
{ "_id" : 5, "stud_name" : "Mayur", "class" : "TEB", "marks" : 85, "result" : "Pass" }
{ "_id" : 6, "stud_name" : "Dhiraj", "class" : "TEB", "marks" : 85, "result" : "Pass" }
> db.Students.find().pretty()
       "_id": 2,
       "stud_name": "Shyam",
       "class": "TEB",
       "marks": 75,
       "result": "Pass"
{
       " id": 1,
       "stud_name": "Abhishek",
       "class": "TEB",
       "marks": 75,
       "result": "Pass"
}
{
       "_id": 3,
       "stud_name": "Sanjay",
       "class": "TEB",
       "marks": 65,
       "result": "Pass"
}
{
       "_id": 4,
       "stud_name" : "Vinay",
```

"class" : "TEB", "marks" : 65, "result" : "Pass"

}

```
{
       "_id": 5,
       "stud_name": "Mayur",
       "class": "TEB",
       "marks": 85,
       "result" : "Pass"
}
{
       "_id": 6,
       "stud_name" : "Dhiraj",
       "class": "TEB",
       "marks": 85,
       "result": "Pass"
}
                                     Remove all document
> db.Students.remove()
-----
                                       Update document
> db.Students.find().pretty()
       "_id": 1,
       "stud_name": "Abhishek",
       "class": "TEB",
       "marks": 75,
       "result": "Pass"
}
{
       "_id": 6,
       "stud_name": "Dhiraj",
       "class": "TEB",
       "marks": 85,
       "result": "Pass"
       "_id": 5,
       "stud_name": "Mayur",
       "class": "TEB",
       "marks": 85,
       "result": "Pass"
{
       "_id": 4,
       "stud_name": "Vinay",
       "class": "TEB",
       "marks": 65,
       "result": "Pass"
}
```

```
{
    "_id": 3,
    "stud_name": "Aarati",
    "class": "TEB",
    "marks": 65,
    "result": "Pass"
}
```