Group B: NoSQL Databases

1. MongoDB Queries:

DesignandDevelopMongoDBQueriesusingCRUDoperations.(UseCRUDoperations,

SAVE method, logical operators etc.)

[comp@localhost ~]$ su

[root@localhost comp]# systemctl start mongod

[root@localhost comp]# mongo

> db

> show dbs

> use mydb

> show dbs

1) To drop Database:-

> db.dropDatabase()

2) To create Collection:-

> db.createCollection("Student");

> db

> use Student

> db.Student.insert({rollno:1,name:"pooja",city:"loni"});

> db.Student.find()

> db.Student.insert({rollno:2,firstname:"Pallavi",middlename:"Sunil", lastname:"Lagad", rollno:3, firstname:"Divya",middlename:"Pralhad", lastname:"Dokhe"})

> db.Student.find()

> db.Student.insert({rollno:"4", name:"Prajakta Dighe",

course:{

coursename:"Computer Engineering",

class:"T.E."},

address:{

city:"Loni",

state:"Maharashtra"}})

3) To find data in document:-

> db.Student.find()

4) To find specific data in a document:-

> db.Student.find({"rollno":2})

5) To update specific data in the document:-

> db.Student.update({"rollno":1}, {"$set":{"name":"Puja"}})

6) To drop Collection:-

> db.Student.drop()

6) To delete Collection:-

> db.dropDatabase(student)

db.stud.insert({rollno:2,name:'pallavi',city:'rahuri'});

db.stud.insert({rollno:3,name:'hema',city:'ashwavi'});

db.stud.insert({rollno:4,name:'pallavi',city:'rahata'});

db.stud.insert({rollno:5,name:'dhano',city:'pune'});

db.stud.insert({rollno:6,name:'sai',city:'mumbai'});

db.stud.insert({rollno:7,name:'om',city:'nagar'});

db.stud.insert({rollno:8,name:'pooja123',city:'goa'});

db.stud.insert({rollno:9,name:'jay',city:'USA'});

db.stud.insert({rollno:10,name:'jaydev',city:'rahuri'});

db.stud.find().pretty()

> use pravara

switched to db pravara

> db.createCollection("stud")

{ "ok" : 1 }

> db.stud.insert({rollno:1,name:"pooja",city:"loni"});

WriteResult({ "nInserted" : 1 })

> db.stud.find();

{ "\_id" : ObjectId("61a1ac65eb4f6cb4db6d94c2"), "rollno" : 1, "name" : "pooja",

"city" : "loni" }

> db.stud.find().pretty()

{

"\_id" : ObjectId("61a1ac65eb4f6cb4db6d94c2"),

"rollno" : 1,

"name" : "pooja",

"city" : "loni"

}

> db.stud.insert({rollno:2,name:'pallavi',city:'rahuri'});

WriteResult({ "nInserted" : 1 })

> db.stud.insert({rollno:3,name:'hema',city:'ashwavi'});

WriteResult({ "nInserted" : 1 })

> db.stud.insert({rollno:4,name:'pallavi',city:'rahata'});

WriteResult({ "nInserted" : 1 })

> db.stud.insert({rollno:5,name:'dhano',city:'pune'});

WriteResult({ "nInserted" : 1 })

> db.stud.insert({rollno:6,name:'sai',city:'mumbai'});

WriteResult({ "nInserted" : 1 })

> db.stud.insert({rollno:7,name:'om',city:'nagar'});

WriteResult({ "nInserted" : 1 })

> db.stud.insert({rollno:8,name:'pooja123',city:'goa'});

WriteResult({ "nInserted" : 1 })

> db.stud.find().pretty()

{

"\_id" : ObjectId("61a1ac65eb4f6cb4db6d94c2"),

"rollno" : 1,

"name" : "pooja",

"city" : "loni"

}

{

"\_id" : ObjectId("61a1ad7deb4f6cb4db6d94c3"),

"rollno" : 2,

"name" : "pallavi",

"city" : "rahuri"

}

{

"\_id" : ObjectId("61a1ad94eb4f6cb4db6d94c4"),

"rollno" : 3,

"name" : "hema",

"city" : "ashwavi"

}

{

"\_id" : ObjectId("61a1ada2eb4f6cb4db6d94c5"),

"rollno" : 4,

"name" : "pallavi",

"city" : "rahata"

}

{

"\_id" : ObjectId("61a1adabeb4f6cb4db6d94c6"),

"rollno" : 5,

"name" : "dhano",

"city" : "pune"

}

{

"\_id" : ObjectId("61a1adb5eb4f6cb4db6d94c7"),

"rollno" : 6,

"name" : "sai",

"city" : "mumbai"

}

{

"\_id" : ObjectId("61a1adbdeb4f6cb4db6d94c8"),

"rollno" : 7,

"name" : "om",

"city" : "nagar"

}

{

"\_id" : ObjectId("61a1adc8eb4f6cb4db6d94c9"),

"rollno" : 8,

"name" : "pooja123",

"city" : "goa"

}

> db.stud.find().sort({rollno:-1}).pretty();

{

"\_id" : ObjectId("61a1adc8eb4f6cb4db6d94c9"),

"rollno" : 8,

"name" : "pooja123",

"city" : "goa"

}

{

"\_id" : ObjectId("61a1adbdeb4f6cb4db6d94c8"),

"rollno" : 7,

"name" : "om",

"city" : "nagar"

}

{

"\_id" : ObjectId("61a1adb5eb4f6cb4db6d94c7"),

"rollno" : 6,

"name" : "sai",

"city" : "mumbai"

}

{

"\_id" : ObjectId("61a1adabeb4f6cb4db6d94c6"),

"rollno" : 5,

"name" : "dhano",

"city" : "pune"

}

{

"\_id" : ObjectId("61a1ada2eb4f6cb4db6d94c5"),

"rollno" : 4,

"name" : "pallavi",

"city" : "rahata"

}

{

"\_id" : ObjectId("61a1ad94eb4f6cb4db6d94c4"),

"rollno" : 3,

"name" : "hema",

"city" : "ashwavi"

}

{

"\_id" : ObjectId("61a1ad7deb4f6cb4db6d94c3"),

"rollno" : 2,

"name" : "pallavi",

"city" : "rahuri"

}

{

"\_id" : ObjectId("61a1ac65eb4f6cb4db6d94c2"),

"rollno" : 1,

"name" : "pooja",

"city" : "loni"

}

> db.stud.stats();

{

"ns" : "pravara.stud",

"count" : 8,

"size" : 562,

"avgObjSize" : 70,

"storageSize" : 36864,

"capped" : false,

"wiredTiger" : {

"metadata" : {

"formatVersion" : 1

},