Non-relational(NoSQL) Database-MongoDB

SET-11

1. Perform CURD operation

C:\Users\student.MCALAB&gt;cd c:\Program Files\MongoDB\Server\5.0\bin

>

//create databse

> use Denny ;

switched to db Denny

//create collection

> db.createCollection('Student');

{ "ok" : 1 }

//insertion

> 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 })

//select

> db.Student.find();

{ "\_id" : ObjectId("5ba1d618f5bbacd4ad81568d"), "Rno" : "1",

"Name" : "Piyush", "Class" : "TE COMP" }

{ "\_id" : ObjectId("5ba1d625f5bbacd4ad81568e"), "Rno" : "2",

"Name" : "Abhi", "Class" : "TE COMP" }

{ "\_id" : ObjectId("5ba1d63af5bbacd4ad81568f"), "Rno" : "3",

"Name" : "Ashley", "Class" : "TE COMP" }

{ "\_id" : ObjectId("5ba1d647f5bbacd4ad815690"), "Rno" : "4",

"Name" : "Hitesh", "Class" : "TE COMP" }

{ "\_id" : ObjectId("5ba1d65ef5bbacd4ad815691"), "Rno" : "5",

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

{ "\_id" : ObjectId("5ba1d66df5bbacd4ad815692"), "Rno" : "6",

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

> db.Student.find().pretty();

{

"\_id" : ObjectId("5ba1d618f5bbacd4ad81568d"),

"Rno" : "1",

"Name" : "Piyush",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d625f5bbacd4ad81568e"),

"Rno" : "2","Name" : "Abhi",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d63af5bbacd4ad81568f"),

"Rno" : "3",

"Name" : "Ashley",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d647f5bbacd4ad815690"),

"Rno" : "4",

"Name" : "Hitesh",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d65ef5bbacd4ad815691"),

"Rno" : "5",

"Name" : "Pratik",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d66df5bbacd4ad815692"),

"Rno" : "6",

"Name" : "Pratik",

"Class" : "TE COMP"

}

//update

> 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"

}

//remove

> 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"

}

//save

>db.Student.save({\_id:ObjectId("5b8fad4ef00832a0a50b5036"),"RNO

":"1","NAME":"PIYUSH","CLASS":"TE COMP","ADD":"MP"});

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1})

> db.Student.find().pretty();

{

"\_id" : ObjectId("5b8fad4ef00832a0a50b5036"),

"RNO" : "1",

"NAME" : "PIYUSH",

"CLASS" : "TE COMP",

"ADD" : "MP"

}

{

"\_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"

}

//and

> db.Student.find({$and:[{"Name":"Piyush"},{"Rno":"2"}]});

> db.Student.find({$and:[{"Name":"Piyush"},

{"Rno":"1"}]}).pretty();

{

"\_id" : ObjectId("5ba1d618f5bbacd4ad81568d"),

"Rno" : "1",

"Name" : "Piyush",

"Class" : "TE COMP"

}

//or

> db.Student.find({$or:[{"Name":"Piyush"},{"Rno":"2"}]}).pretty();

{

"\_id" : ObjectId("5ba1d618f5bbacd4ad81568d"),

"Rno" : "1",

"Name" : "Piyush","Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d625f5bbacd4ad81568e"),

"Rno" : "2",

"Name" : "Abhi",

"Class" : "TE COMP"

}

> db.Student.find({$or:[{"Name":"Piyush"},{"Class":"TE

COMP"}]}).pretty();

{

"\_id" : ObjectId("5ba1d618f5bbacd4ad81568d"),

"Rno" : "1",

"Name" : "Piyush",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d625f5bbacd4ad81568e"),

"Rno" : "2",

"Name" : "Abhi",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d63af5bbacd4ad81568f"),

"Rno" : "3",

"Name" : "Ashley",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d647f5bbacd4ad815690"),

"Rno" : "4",

"Name" : "Hitesh","Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d65ef5bbacd4ad815691"),

"Rno" : "5",

"Name" : "Pratik",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d66df5bbacd4ad815692"),

"Rno" : "6",

"Name" : "Pratik",

"Class" : "TE COMP"

}

//nor

> db.Student.find({$nor:[{"Name":"Piyush"},{"Class":"TE

COMP"}]}).pretty();

> db.Student.find({$nor:[{"Name":"Piyush"},

{"Rno":"2"}]}).pretty();

{

"\_id" : ObjectId("5ba1d63af5bbacd4ad81568f"),

"Rno" : "3",

"Name" : "Ashley",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d647f5bbacd4ad815690"),

"Rno" : "4",

"Name" : "Hitesh",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d65ef5bbacd4ad815691"),"Rno" : "5",

"Name" : "Pratik",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d66df5bbacd4ad815692"),

"Rno" : "6",

"Name" : "Pratik",

"Class" : "TE COMP"

}

db.Student.find( {"Rno": { $not:{$lt:"3"}}}).pretty();

{

"\_id" : ObjectId("5ba1d63af5bbacd4ad81568f"),

"Rno" : "3",

"Name" : "Ashley",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d647f5bbacd4ad815690"),

"Rno" : "4",

"Name" : "Hitesh",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d65ef5bbacd4ad815691"),

"Rno" : "5",

"Name" : "Pratik",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d66df5bbacd4ad815692"),

"Rno" : "6","Name" : "Pratik",

"Class" : "TE COMP"

}

//eq

> db.Student.find( {"Rno": { $eq:"5"}}).pretty();

{

"\_id" : ObjectId("5ba1d65ef5bbacd4ad815691"),

"Rno" : "5",

"Name" : "Pratik",

"Class" : "TE COMP"

}

//ne

> db.Student.find( {"Rno": { $ne:"5"}}).pretty();

{

"\_id" : ObjectId("5ba1d618f5bbacd4ad81568d"),

"Rno" : "1",

"Name" : "Piyush",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d625f5bbacd4ad81568e"),

"Rno" : "2",

"Name" : "Abhi",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d63af5bbacd4ad81568f"),

"Rno" : "3",

"Name" : "Ashley",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d647f5bbacd4ad815690"),

"Rno" : "4","Name" : "Hitesh",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d66df5bbacd4ad815692"),

"Rno" : "6",

"Name" : "Pratik",

"Class" : "TE COMP"

}

//gt

> db.Student.find( {"Rno": { $gt:"5"}}).pretty();

{

"\_id" : ObjectId("5ba1d66df5bbacd4ad815692"),

"Rno" : "6",

"Name" : "Pratik",

"Class" : "TE COMP"

}

//gte

> db.Student.find( {"Rno": { $gte:"5"}}).pretty();

{

"\_id" : ObjectId("5ba1d65ef5bbacd4ad815691"),

"Rno" : "5",

"Name" : "Pratik",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d66df5bbacd4ad815692"),

"Rno" : "6",

"Name" : "Pratik",

"Class" : "TE COMP"

}

//lt

> db.Student.find( {"Rno": { $lt:"5"}}).pretty();

{

"\_id" : ObjectId("5ba1d618f5bbacd4ad81568d"),"Rno" : "1",

"Name" : "Piyush",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d625f5bbacd4ad81568e"),

"Rno" : "2",

"Name" : "Abhi",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d63af5bbacd4ad81568f"),

"Rno" : "3",

"Name" : "Ashley",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d647f5bbacd4ad815690"),

"Rno" : "4",

"Name" : "Hitesh",

"Class" : "TE COMP"

}

//lte

> db.Student.find( {"Rno": { $lte:"5"}}).pretty();

{

"\_id" : ObjectId("5ba1d618f5bbacd4ad81568d"),

"Rno" : "1",

"Name" : "Piyush",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d625f5bbacd4ad81568e"),

"Rno" : "2","Name" : "Abhi",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d63af5bbacd4ad81568f"),

"Rno" : "3",

"Name" : "Ashley",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d647f5bbacd4ad815690"),

"Rno" : "4",

"Name" : "Hitesh",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d65ef5bbacd4ad815691"),

"Rno" : "5",

"Name" : "Pratik",

"Class" : "TE COMP"

}

> db.Student.find( {"Rno": { $lt:"5",$gt:"2"}}).pretty();

{

"\_id" : ObjectId("5ba1d63af5bbacd4ad81568f"),

"Rno" : "3",

"Name" : "Ashley",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d647f5bbacd4ad815690"),

"Rno" : "4",

"Name" : "Hitesh","Class" : "TE COMP"

}

> db.Student.find( {"Rno": { $lte:"5",$gte:"2"}}).pretty();

{

"\_id" : ObjectId("5ba1d625f5bbacd4ad81568e"),

"Rno" : "2",

"Name" : "Abhi",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d63af5bbacd4ad81568f"),

"Rno" : "3",

"Name" : "Ashley",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d647f5bbacd4ad815690"),

"Rno" : "4",

"Name" : "Hitesh",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d65ef5bbacd4ad815691"),

"Rno" : "5",

"Name" : "Pratik",

"Class" : "TE COMP"

}

> db.Student.find( {"Rno": { $lte:"5",$gt:"2"}}).pretty();

{

"\_id" : ObjectId("5ba1d63af5bbacd4ad81568f"),

"Rno" : "3",

"Name" : "Ashley","Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d647f5bbacd4ad815690"),

"Rno" : "4",

"Name" : "Hitesh",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d65ef5bbacd4ad815691"),

"Rno" : "5",

"Name" : "Pratik",

"Class" : "TE COMP"

}

> db.Student.find( {"Rno": { $lt:"5",$gte:"2"}}).pretty();

{

"\_id" : ObjectId("5ba1d625f5bbacd4ad81568e"),

"Rno" : "2",

"Name" : "Abhi",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d63af5bbacd4ad81568f"),

"Rno" : "3",

"Name" : "Ashley",

"Class" : "TE COMP"

}

{

"\_id" : ObjectId("5ba1d647f5bbacd4ad815690"),

"Rno" : "4",

"Name" : "Hitesh",

"Class" : "TE COMP"}

>