**Name:Dhole Girish Vijay.**

**Rollno:TIT19**

**1)Show all databases present In system:**

show dbs;

admin 0.000GB

config 0.000GB

local 0.000GB

mydb 0.000GB

**2)Create collection of student record:**

db.createCollection("Student")

{ "ok" : 1 }

**3)Insert one record in student collection:**

db.Student.insert({Rollno:01,Name:"Girish",Std:"9th",Div:"A",Marks:89})

WriteResult({ "nInserted" : 1 })

**4)Insert many record in student collection:**

db.Student.insertMany([{Rollno:02,Name:"Rohan",Std:"8th",Div:"B",Marks:85},{Rollno:03,Name:"Suman",Std:"9th",Div:"C",Marks:90},{Rollno:04,Name:"Partik",Std:"8th",Div:"A",Marks:86}])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("62f7a9c1faabc962828561e6"),

ObjectId("62f7a9c1faabc962828561e7"),

ObjectId("62f7a9c1faabc962828561e8")

]}

**5)Displaying all records of student collection:**

db.Student.find()

{ "\_id" : ObjectId("62f7a8a0faabc962828561e5"), "Rollno" : 1, "Name" : "Girish", "Std" : "9th", "Div" : "A", "Marks" : 89 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e6"), "Rollno" : 2, "Name" : "Rohan", "Std" : "8th", "Div" : "B", "Marks" : 85 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e7"), "Rollno" : 3, "Name" : "Suman", "Std" : "9th", "Div" : "C", "Marks" : 90 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e8"), "Rollno" : 4, "Name" : "Partik", "Std" : "8th", "Div" : "A", "Marks" : 86 }

**Using pretty function:**

db.Student.find().pretty()

{

"\_id" : ObjectId("62f7a8a0faabc962828561e5"),

"Rollno" : 1,

"Name" : "Girish",

"Std" : "9th",

"Div" : "A",

"Marks" : 89

}

{

"\_id" : ObjectId("62f7a9c1faabc962828561e6"),

"Rollno" : 2,

"Name" : "Rohan",

"Std" : "8th",

"Div" : "B",

"Marks" : 85

}

{

"\_id" : ObjectId("62f7a9c1faabc962828561e7"),

"Rollno" : 3,

"Name" : "Suman",

"Std" : "9th",

"Div" : "C",

"Marks" : 90

}

{

"\_id" : ObjectId("62f7a9c1faabc962828561e8"),

"Rollno" : 4,

"Name" : "Partik",

"Std" : "8th",

"Div" : "A",

"Marks" : 86

}

**6)Finding specific record:**

db.Student.find({Rollno:02}).pretty()

{

"\_id" : ObjectId("62f7a9c1faabc962828561e6"),

"Rollno" : 2,

"Name" : "Rohan",

"Std" : "8th",

"Div" : "B",

}

**7)Showing all records whose div is not ‘A’:**

db.Student.find({Div:{$ne:"A"}}).pretty()

{

"\_id" : ObjectId("62f7a9c1faabc962828561e6"),

"Rollno" : 2,

"Name" : "Rohan",

"Std" : "8th",

"Div" : "B",

"Marks" : 85

}

{

"\_id" : ObjectId("62f7a9c1faabc962828561e7"),

"Rollno" : 3,

"Name" : "Suman",

"Std" : "9th",

"Div" : "C",

"Marks" : 90

}

**8)Performing AND operation whose rollno is 1 and std is 9:**

db.Student.find({Rollno:01,Std:"9th"})

{ "\_id" : ObjectId("62f7a8a0faabc962828561e5"), "Rollno" : 1, "Name" : "Girish", "Std" : "9th", "Div" : "A", "Marks" : 89 }

**9)Performing OR operation which having rollno 1 and div is B:**

db.Student.find({$or:[{Rollno:01},{Div:"B"}]})

{ "\_id" : ObjectId("62f7a8a0faabc962828561e5"), "Rollno" : 1, "Name" : "Girish", "Std" : "9th", "Div" : "A", "Marks" : 89 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e6"), "Rollno" : 2, "Name" : "Rohan", "Std" : "8th", "Div" : "B", "Marks" : 85 }

**10)Finding those records whose record greater than 86:**

db.Student.find({Marks:{$gt:86}})

{ "\_id" : ObjectId("62f7a8a0faabc962828561e5"), "Rollno" : 1, "Name" : "Girish", "Std" : "9th", "Div" : "A", "Marks" : 89 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e7"), "Rollno" : 3, "Name" : "Suman", "Std" : "9th", "Div" : "C", "Marks" : 90 }

**11)Finding those records whose record marks less than 86:**

db.Student.find({Marks:{$lt:86}})

{ "\_id" : ObjectId("62f7a9c1faabc962828561e6"), "Rollno" : 2, "Name" : "Rohan", "Std" : "8th", "Div" : "B", "Marks" : 85 }

**12)Sorting in Accending Order:**

db.Student.find().sort({Marks:1})

{ "\_id" : ObjectId("62f7a9c1faabc962828561e6"), "Rollno" : 2, "Name" : "Rohan", "Std" : "8th", "Div" : "B", "Marks" : 85 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e8"), "Rollno" : 4, "Name" : "Partik", "Std" : "8th", "Div" : "A", "Marks" : 86 }

{ "\_id" : ObjectId("62f7a8a0faabc962828561e5"), "Rollno" : 1, "Name" : "Girish", "Std" : "9th", "Div" : "A", "Marks" : 89 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e7"), "Rollno" : 3, "Name" : "Suman", "Std" : "9th", "Div" : "C", "Marks" : 90 }

**13)Sorting in Decending Order:**

db.Student.find().sort({Marks:-1})

{ "\_id" : ObjectId("62f7a9c1faabc962828561e7"), "Rollno" : 3, "Name" : "Suman", "Std" : "9th", "Div" : "C", "Marks" : 90 }

{ "\_id" : ObjectId("62f7a8a0faabc962828561e5"), "Rollno" : 1, "Name" : "Girish", "Std" : "9th", "Div" : "A", "Marks" : 89 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e8"), "Rollno" : 4, "Name" : "Partik", "Std" : "8th", "Div" : "A", "Marks" : 86 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e6"), "Rollno" : 2, "Name" : "Rohan", "Std" : "8th", "Div" : "B", "Marks" : 85 }

**14)Count Function to findout how many records present in collection:**

db.Student.find().count()

4

**15)Distinct Function:**

db.Student.distinct("Div")

[ "A", "B", "C" ]

**16)Update Records set div is E whose marks greater than 87:**

db.Student.update({Marks:{$gt:87}},{$set:{Div:"E"}},{multi:true})

WriteResult({ "nMatched" : 2, "nUpserted" : 0, "nModified" : 2 })

> db.Student.find()

{ "\_id" : ObjectId("62f7a8a0faabc962828561e5"), "Rollno" : 1, "Name" : "Girish", "Std" : "9th", "Div" : "E", "Marks" : 89 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e6"), "Rollno" : 2, "Name" : "Rohan", "Std" : "8th", "Div" : "B", "Marks" : 85 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e7"), "Rollno" : 3, "Name" : "Suman", "Std" : "9th", "Div" : "E", "Marks" : 90 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e8"), "Rollno" : 4, "Name" : "Partik", "Std" : "8th", "Div" : "A", "Marks" : 86 }

**17)Delete Record whose rollno is 2:**

db.Student.remove({Rollno:02})

WriteResult({ "nRemoved" : 1 })

> db.Student.find()

{ "\_id" : ObjectId("62f7a8a0faabc962828561e5"), "Rollno" : 1, "Name" : "Girish", "Std" : "9th", "Div" : "E", "Marks" : 89 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e7"), "Rollno" : 3, "Name" : "Suman", "Std" : "9th", "Div" : "E", "Marks" : 90 }

{ "\_id" : ObjectId("62f7a9c1faabc962828561e8"), "Rollno" : 4, "Name" : "Partik", "Std" : "8th", "Div" : "A", "Marks" : 86 }

**18)Drop Command to delete all records:**

db.Student.drop()

true