**Assignment 10 :Output**

**> show dbs**

MyDB 0.000GB

admin 0.000GB

config 0.000GB

local 0.000GB

stud 0.000GB

1. Create database Institute.

**> use Institute**

switched to db Institute

**> show dbs**

MyDB 0.000GB

admin 0.000GB

config 0.000GB

local 0.000GB

stud 0.000GB

2. Create collection Students.

**> db.createCollection("Students")**

{ "ok" : 1 }

> show dbs

Institute 0.000GB

MyDB 0.000GB

admin 0.000GB

config 0.000GB

local 0.000GB

stud 0.000GB

3. Insert 10 documents with above mentioned structure.

**> try {**

**... db.Students.insertMany**

**... ([**

**... {RollNo:1, StudName:"Ram", Age:20, Branch:"Computer", Address:{City: "Pune",State: " Maharashtra"}, Hobbies: ["Singing", "Dancing" , "Cricket"] },**

**... {RollNo:2, StudName:"Priya", Age:21, Branch:"Computer", Address:{City: "Pune",State: " Maharashtra"}, Hobbies: ["Singing", "Dancing"] }, {RollNo:3, StudName:"Raj", Age:22, Branch:"Civil", Address:{City: "Pune",State: " Maharashtra"}, Hobbies: ["Dancing" , "Cricket"] },{RollNo:4, StudName:"Muskan", Age:20, Branch:"E&TC", Address:{City: "Nasik",State: " Maharashtra"}, Hobbies: ["Painting", "Dancing"] }, {RollNo:5, StudName:"Reya", Age:24, Branch:"Computer", Address:{City: "Pune",State: " Maharashtra"}, Hobbies: [ "Dancing" , "Reading"] }, {RollNo:6, StudName:"Pooja", Age:20, Branch:"Computer", Address:{City: "Pune",State: " Maharashtra"}, Hobbies: ["Singing", "Dancing"] }, {RollNo:7, StudName:"Teena", Age:19, Branch:"Computer", Address:{City: "Pune",State: " Maharashtra"}, Hobbies: ["Dancing" , "Drawing"] }, {RollNo:8, StudName:"Roma", Age:20, Branch:"Computer", Address:{City: "Pune",State: " Maharashtra"}, Hobbies: ["Singing", "Cooking"] }, {RollNo:9, StudName:"Rohan", Age:23, Branch:"Computer", Address:{City: "Pune",State: " Maharashtra"}, Hobbies: ["Singing","Cricket"] }, {RollNo:10, StudName:"Aveer", Age:22, Branch:"Mechanical", Address:{City: "Pune",State: " Maharashtra"}, Hobbies: ["Dancing" , "Cricket"] } ]);**

**... } catch (e) {**

**... print (e);**

**... }**

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("636033bb521583da91f7c021"),

ObjectId("636033bb521583da91f7c022"),

ObjectId("636033bb521583da91f7c023"),

ObjectId("636033bb521583da91f7c024"),

ObjectId("636033bb521583da91f7c025"),

ObjectId("636033bb521583da91f7c026"),

ObjectId("636033bb521583da91f7c027"),

ObjectId("636033bb521583da91f7c028"),

ObjectId("636033bb521583da91f7c029"),

ObjectId("636033bb521583da91f7c02a")

]

}

4. Display all students’ information.

**> db.Students.find().pretty()**

{

"\_id" : ObjectId("636033bb521583da91f7c021"),

"RollNo" : 1,

"StudName" : "Ram",

"Age" : 20,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Dancing",

"Cricket"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c022"),

"RollNo" : 2,

"StudName" : "Priya",

"Age" : 21,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Dancing"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c023"),

"RollNo" : 3,

"StudName" : "Raj",

"Age" : 22,

"Branch" : "Civil",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Dancing",

"Cricket"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c024"),

"RollNo" : 4,

"StudName" : "Muskan",

"Age" : 20,

"Branch" : "E&TC",

"Address" : {

"City" : "Nasik",

"State" : " Maharashtra"

},

"Hobbies" : [

"Painting",

"Dancing"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c025"),

"RollNo" : 5,

"StudName" : "Reya",

"Age" : 24,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Dancing",

"Reading"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c026"),

"RollNo" : 6,

"StudName" : "Pooja",

"Age" : 20,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Dancing"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c027"),

"RollNo" : 7,

"StudName" : "Teena",

"Age" : 19,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Dancing",

"Drawing"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c028"),

"RollNo" : 8,

"StudName" : "Roma",

"Age" : 20,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Cooking"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c029"),

"RollNo" : 9,

"StudName" : "Rohan",

"Age" : 23,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Cricket"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c02a"),

"RollNo" : 10,

"StudName" : "Aveer",

"Age" : 22,

"Branch" : "Mechanical",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Dancing",

"Cricket"

]

}

**> db.Students.find( { Age: { $gt:22} } )**

> db.Students.find( { Age: { $gt:22} } )

{ "\_id" : ObjectId("636033bb521583da91f7c025"), "RollNo" : 5, "StudName" : "Reya", "Age" : 24, "Branch" : "Computer", "Address" : { "City" : "Pune", "State" : " Maharashtra" }, "Hobbies" : [ "Dancing", "Reading" ] }

{ "\_id" : ObjectId("636033bb521583da91f7c029"), "RollNo" : 9, "StudName" : "Rohan", "Age" : 23, "Branch" : "Computer", "Address" : { "City" : "Pune", "State" : " Maharashtra" }, "Hobbies" : [ "Singing", "Cricket" ] }

>

6. Display Student information sorted on name field

**> db. Students.find().sort( { StudName: 1 } )**

{ "\_id" : ObjectId("636033bb521583da91f7c02a"), "RollNo" : 10, "StudName" : "Aveer", "Age" : 22, "Branch" : "Mechanical", "Address" : { "City" : "Pune", "State" : " Maharashtra" }, "Hobbies" : [ "Dancing", "Cricket" ] }

{ "\_id" : ObjectId("636033bb521583da91f7c024"), "RollNo" : 4, "StudName" : "Muskan", "Age" : 20, "Branch" : "E&TC", "Address" : { "City" : "Nasik", "State" : " Maharashtra" }, "Hobbies" : [ "Painting", "Dancing" ] }

{ "\_id" : ObjectId("636033bb521583da91f7c026"), "RollNo" : 6, "StudName" : "Pooja", "Age" : 20, "Branch" : "Computer", "Address" : { "City" : "Pune", "State" : " Maharashtra" }, "Hobbies" : [ "Singing", "Dancing" ] }

{ "\_id" : ObjectId("636033bb521583da91f7c022"), "RollNo" : 2, "StudName" : "Priya", "Age" : 21, "Branch" : "Computer", "Address" : { "City" : "Pune", "State" : " Maharashtra" }, "Hobbies" : [ "Singing", "Dancing" ] }

{ "\_id" : ObjectId("636033bb521583da91f7c023"), "RollNo" : 3, "StudName" : "Raj", "Age" : 22, "Branch" : "Civil", "Address" : { "City" : "Pune", "State" : " Maharashtra" }, "Hobbies" : [ "Dancing", "Cricket" ] }

{ "\_id" : ObjectId("636033bb521583da91f7c021"), "RollNo" : 1, "StudName" : "Ram", "Age" : 20, "Branch" : "Computer", "Address" : { "City" : "Pune", "State" : " Maharashtra" }, "Hobbies" : [ "Singing", "Dancing", "Cricket" ] }

{ "\_id" : ObjectId("636033bb521583da91f7c025"), "RollNo" : 5, "StudName" : "Reya", "Age" : 24, "Branch" : "Computer", "Address" : { "City" : "Pune", "State" : " Maharashtra" }, "Hobbies" : [ "Dancing", "Reading" ] }

{ "\_id" : ObjectId("636033bb521583da91f7c029"), "RollNo" : 9, "StudName" : "Rohan", "Age" : 23, "Branch" : "Computer", "Address" : { "City" : "Pune", "State" : " Maharashtra" }, "Hobbies" : [ "Singing", "Cricket" ] }

{ "\_id" : ObjectId("636033bb521583da91f7c028"), "RollNo" : 8, "StudName" : "Roma", "Age" : 20, "Branch" : "Computer", "Address" : { "City" : "Pune", "State" : " Maharashtra" }, "Hobbies" : [ "Singing", "Cooking" ] }

{ "\_id" : ObjectId("636033bb521583da91f7c027"), "RollNo" : 7, "StudName" : "Teena", "Age" : 19, "Branch" : "Computer", "Address" : { "City" : "Pune", "State" : " Maharashtra" }, "Hobbies" : [ "Dancing", "Drawing" ] }

7. Update student branch Computer of RollNo 3.

**> db. Students.update( { RollNo: 3 },{ $set:{ Branch: "Computer"}})**

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

> db.Students.find().pretty()

{

"\_id" : ObjectId("636033bb521583da91f7c021"),

"RollNo" : 1,

"StudName" : "Ram",

"Age" : 20,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Dancing",

"Cricket"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c022"),

"RollNo" : 2,

"StudName" : "Priya",

"Age" : 21,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Dancing"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c023"),

"RollNo" : 3,

"StudName" : "Raj",

"Age" : 22,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Dancing",

"Cricket"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c024"),

"RollNo" : 4,

"StudName" : "Muskan",

"Age" : 20,

"Branch" : "E&TC",

"Address" : {

"City" : "Nasik",

"State" : " Maharashtra"

},

"Hobbies" : [

"Painting",

"Dancing"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c025"),

"RollNo" : 5,

"StudName" : "Reya",

"Age" : 24,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Dancing",

"Reading"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c026"),

"RollNo" : 6,

"StudName" : "Pooja",

"Age" : 20,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Dancing"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c027"),

"RollNo" : 7,

"StudName" : "Teena",

"Age" : 19,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Dancing",

"Drawing"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c028"),

"RollNo" : 8,

"StudName" : "Roma",

"Age" : 20,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Cooking"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c029"),

"RollNo" : 9,

"StudName" : "Rohan",

"Age" : 23,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Cricket"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c02a"),

"RollNo" : 10,

"StudName" : "Aveer",

"Age" : 22,

"Branch" : "Mechanical",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Dancing",

"Cricket"

]

}

>

8. Remove document with RollNo 1

**> db. Students.remove ( { RollNo: 1} )**

WriteResult({ "nRemoved" : 1 })

> db.Students.find().pretty()

{

"\_id" : ObjectId("636033bb521583da91f7c022"),

"RollNo" : 2,

"StudName" : "Priya",

"Age" : 21,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Dancing"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c023"),

"RollNo" : 3,

"StudName" : "Raj",

"Age" : 22,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Dancing",

"Cricket"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c024"),

"RollNo" : 4,

"StudName" : "Muskan",

"Age" : 20,

"Branch" : "E&TC",

"Address" : {

"City" : "Nasik",

"State" : " Maharashtra"

},

"Hobbies" : [

"Painting",

"Dancing"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c025"),

"RollNo" : 5,

"StudName" : "Reya",

"Age" : 24,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Dancing",

"Reading"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c026"),

"RollNo" : 6,

"StudName" : "Pooja",

"Age" : 20,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Dancing"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c027"),

"RollNo" : 7,

"StudName" : "Teena",

"Age" : 19,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Dancing",

"Drawing"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c028"),

"RollNo" : 8,

"StudName" : "Roma",

"Age" : 20,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Cooking"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c029"),

"RollNo" : 9,

"StudName" : "Rohan",

"Age" : 23,

"Branch" : "Computer",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Singing",

"Cricket"

]

}

{

"\_id" : ObjectId("636033bb521583da91f7c02a"),

"RollNo" : 10,

"StudName" : "Aveer",

"Age" : 22,

"Branch" : "Mechanical",

"Address" : {

"City" : "Pune",

"State" : " Maharashtra"

},

"Hobbies" : [

"Dancing",

"Cricket"

]

}

>

9. Display Student information whose name starts with A

**> db. Students.find({StudName:/^A/})**

{ "\_id" : ObjectId("636033bb521583da91f7c02a"), "RollNo" : 10, "StudName" : "Aveer", "Age" : 22, "Branch" : "Mechanical", "Address" : { "City" : "Pune", "State" : " Maharashtra" }, "Hobbies" : [ "Dancing", "Cricket" ] }

>

10. Display the total numbers of documents available in collection.

**> db. Students.find().count()**

9