Group B : Lab Assignment no. 10

Title : Design and Develop MongoDB Queries using CRUD operations. (Use CRUD operations, SAVE method, logical operators)

C:\Users\Swati>mongosh

Current Mongosh Log ID: 6540ab859d4fd44aeb01983e

Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.0.2

Using MongoDB: 7.0.2

Using Mongosh: 2.0.2

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

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The server generated these startup warnings when booting

2023-10-31T12:16:14.100+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

* **test> use tushar;**
* **switched to db tushar**
* **db.createCollection('Student');**

{ "ok" : 1 }

* **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 })**
* **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"

}

* **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"

}

* **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"

}

>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"

}

* **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"

}

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

}

* **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"

}

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

{

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

"Name" : "Pratik",

"Class" : "TE COMP"

}

* **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"

}

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

{

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

"Name" : "Pratik",

"Class" : "TE COMP"

}

* **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"

}

* **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"

}

* **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"}