**MONGODB CRUD OPERATIONS**

**Name: Ruturaj Patil**

**Roll No: 33165**

**Batch: K11**

1. **CREATE COMMANDS:**

**> show collections;**

Students

Log

**> db.createCollection("Customers");**

{ "ok" : 1 }

**> db.Customers.insertMany([{custId:1000,Name:"Ruturaj",Address:"Pune",OrderAmt:4000,items:[{productId:200,Item:"JBL Headphones",Quantity:2,Price:2000}]},**

**{custId:1001,Name:"Kshitij",Address:"Warje",OrderAmt:2500,items:[{productId:300,Item:"Philips Iron",Quantity:1,Price:2000},{productId:100,Name:"Aux Cable",Quantity:1,Price:500}]},**

**{custId:1002,Name:"Yash",Address:"Pune",OrderAmt:8000,items:[{productId:201,Item:"JBL Speaker",Quantity:1,Price:8000}]}]);**

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("611f63e3f2c89d1f81caaa5e"),

ObjectId("611f63e3f2c89d1f81caaa5f"),

ObjectId("611f63e3f2c89d1f81caaa60")

]

}

**> db.Customers.insertMany([{custId:1003,Name:"Aditya",Address:"Nagar",OrderAmt:300,items:[{productId:101,Item:"Card Reader",Quantity:1,Price:300}]},**

**{custId:1004,Name:"Vedant",Address:"Kothrud",OrderAmt:500,items:[{productId:100,Item:"Aux Cable",Quantity:1,Price:500}]},**

**{custId:1005,Name:"Janhavi",Address:"Nashik",OrderAmt:2000,items:[{productId:500,Item:"Titan Watch",Quantity:1,Price:2000}]}]);**

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("611f6424f2c89d1f81caaa61"),

ObjectId("611f6424f2c89d1f81caaa62"),

ObjectId("611f6424f2c89d1f81caaa63")

]

}

> **db.Customers.insertMany([{custId:1006,Name:"Aniket",Address:"Kothrud",OrderAmt:1000,items:[{productId:103,Item:"Charger",Quantity:1,Price:1000}]},**

**{custId:1007,Name:"Akash",Address:"Sadashiv",OrderAmt:2500,items:[{productId:501,Item:"Fastrack Watch",Quantity:1,Price:2000},{productId:105,Item:"USB Cable",Quantity:1,Price:500}]},**

**{custId:1008,Name:"Gaurav",Address:"Warje",OrderAmt:2000,items:[{productId:500,Item:"Titan Watch",Quantity:1,Price:2000}]}]);**

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("611f6466f2c89d1f81caaa64"),

ObjectId("611f6466f2c89d1f81caaa65"),

ObjectId("611f6466f2c89d1f81caaa66")

]

}

1. **READ COMMANDS:**

**> db.Customers.find({},{\_id:0});**

{ "custId" : 1000, "Name" : "Ruturaj", "Address" : "Pune", "OrderAmt" : 4000, "items" : [ { "productId" : 200, "Item" : "JBL Headphones", "Quantity" : 2, "Price" : 2000 } ] }

{ "custId" : 1001, "Name" : "Kshitij", "Address" : "Warje", "OrderAmt" : 2500, "items" : [ { "productId" : 300, "Item" : "Philips Iron", "Quantity" : 1, "Price" : 2000 }, { "productId" : 100, "Name" : "Aux Cable", "Quantity" : 1, "Price" : 500 } ] }

{ "custId" : 1002, "Name" : "Yash", "Address" : "Pune", "OrderAmt" : 8000, "items" : [ { "productId" : 201, "Item" : "JBL Speaker", "Quantity" : 1, "Price" : 8000 } ] }

{ "custId" : 1003, "Name" : "Aditya", "Address" : "Nagar", "OrderAmt" : 300, "items" : [ { "productId" : 101, "Item" : "Card Reader", "Quantity" : 1, "Price" : 300 } ] }

{ "custId" : 1004, "Name" : "Vedant", "Address" : "Kothrud", "OrderAmt" : 500, "items" : [ { "productId" : 100, "Item" : "Aux Cable", "Quantity" : 1, "Price" : 500 } ] }

{ "custId" : 1005, "Name" : "Janhavi", "Address" : "Nashik", "OrderAmt" : 2000, "items" : [ { "productId" : 500, "Item" : "Titan Watch", "Quantity" : 1, "Price" : 2000 } ] }

{ "custId" : 1006, "Name" : "Aniket", "Address" : "Kothrud", "OrderAmt" : 1000, "items" : [ { "productId" : 103, "Item" : "Charger", "Quantity" : 1, "Price" : 1000 } ] }

{ "custId" : 1007, "Name" : "Akash", "Address" : "Sadashiv", "OrderAmt" : 2500, "items" : [ { "productId" : 501, "Item" : "Fastrack Watch", "Quantity" : 1, "Price" : 2000 }, { "productId" : 105, "Item" : "USB Cable", "Quantity" : 1, "Price" : 500 } ] }

{ "custId" : 1008, "Name" : "Gaurav", "Address" : "Warje", "OrderAmt" : 2000, "items" : [ { "productId" : 500, "Item" : "Titan Watch", "Quantity" : 1, "Price" : 2000 } ] }

**> db.Customers.find({custId:1000},{\_id:0}).pretty();**

{

"custId" : 1000,

"Name" : "Ruturaj",

"Address" : "Pune",

"OrderAmt" : 4000,

"items" : [

{

"productId" : 200,

"Item" : "JBL Headphones",

"Quantity" : 2,

"Price" : 2000

}

]

}

**> db.Customers.find({OrderAmt:{$gte:2000}},{\_id:0}).pretty();**

{

"custId" : 1000,

"Name" : "Ruturaj",

"Address" : "Pune",

"OrderAmt" : 4000,

"items" : [

{

"productId" : 200,

"Item" : "JBL Headphones",

"Quantity" : 2,

"Price" : 2000

}

]

}

{

"custId" : 1001,

"Name" : "Kshitij",

"Address" : "Warje",

"OrderAmt" : 2500,

"items" : [

{

"productId" : 300,

"Item" : "Philips Iron",

"Quantity" : 1,

"Price" : 2000

},

{

"productId" : 100,

"Name" : "Aux Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"custId" : 1002,

"Name" : "Yash",

"Address" : "Pune",

"OrderAmt" : 8000,

"items" : [

{

"productId" : 201,

"Item" : "JBL Speaker",

"Quantity" : 1,

"Price" : 8000

}

]

}

{

"custId" : 1005,

"Name" : "Janhavi",

"Address" : "Nashik",

"OrderAmt" : 2000,

"items" : [

{

"productId" : 500,

"Item" : "Titan Watch",

"Quantity" : 1,

"Price" : 2000

}

]

}

{

"custId" : 1007,

"Name" : "Akash",

"Address" : "Sadashiv",

"OrderAmt" : 2500,

"items" : [

{

"productId" : 501,

"Item" : "Fastrack Watch",

"Quantity" : 1,

"Price" : 2000

},

{

"productId" : 105,

"Item" : "USB Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"custId" : 1008,

"Name" : "Gaurav",

"Address" : "Warje",

"OrderAmt" : 2000,

"items" : [

{

"productId" : 500,

"Item" : "Titan Watch",

"Quantity" : 1,

"Price" : 2000

}

]

}

**> db.Customers.find({OrderAmt:{$in:[1000,2500]}},{\_id:0}).pretty();**

{

"custId" : 1001,

"Name" : "Kshitij",

"Address" : "Warje",

"OrderAmt" : 2500,

"items" : [

{

"productId" : 300,

"Item" : "Philips Iron",

"Quantity" : 1,

"Price" : 2000

},

{

"productId" : 100,

"Name" : "Aux Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"custId" : 1006,

"Name" : "Aniket",

"Address" : "Kothrud",

"OrderAmt" : 1000,

"items" : [

{

"productId" : 103,

"Item" : "Charger",

"Quantity" : 1,

"Price" : 1000

}

]

}

{

"custId" : 1007,

"Name" : "Akash",

"Address" : "Sadashiv",

"OrderAmt" : 2500,

"items" : [

{

"productId" : 501,

"Item" : "Fastrack Watch",

"Quantity" : 1,

"Price" : 2000

},

{

"productId" : 105,

"Item" : "USB Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

> **db.Customers.find({OrderAmt:{$in:[1000,2500]}},{\_id:0}).pretty().sort({Name:-1});**

{

"custId" : 1001,

"Name" : "Kshitij",

"Address" : "Warje",

"OrderAmt" : 2500,

"items" : [

{

"productId" : 300,

"Item" : "Philips Iron",

"Quantity" : 1,

"Price" : 2000

},

{

"productId" : 100,

"Name" : "Aux Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"custId" : 1006,

"Name" : "Aniket",

"Address" : "Kothrud",

"OrderAmt" : 1000,

"items" : [

{

"productId" : 103,

"Item" : "Charger",

"Quantity" : 1,

"Price" : 1000

}

]

}

{

"custId" : 1007,

"Name" : "Akash",

"Address" : "Sadashiv",

"OrderAmt" : 2500,

"items" : [

{

"productId" : 501,

"Item" : "Fastrack Watch",

"Quantity" : 1,

"Price" : 2000

},

{

"productId" : 105,

"Item" : "USB Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

**> db.Customers.find({"items.Price":500},{\_id:0}).pretty().sort({Name:-1});**

{

"custId" : 1004,

"Name" : "Vedant",

"Address" : "Kothrud",

"OrderAmt" : 500,

"items" : [

{

"productId" : 100,

"Item" : "Aux Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"custId" : 1001,

"Name" : "Kshitij",

"Address" : "Warje",

"OrderAmt" : 2500,

"items" : [

{

"productId" : 300,

"Item" : "Philips Iron",

"Quantity" : 1,

"Price" : 2000

},

{

"productId" : 100,

"Name" : "Aux Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"custId" : 1007,

"Name" : "Akash",

"Address" : "Sadashiv",

"OrderAmt" : 2500,

"items" : [

{

"productId" : 501,

"Item" : "Fastrack Watch",

"Quantity" : 1,

"Price" : 2000

},

{

"productId" : 105,

"Item" : "USB Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

**> db.Customers.find({"items.Price":500},{"items.$":1}).pretty().sort({Name:-1});**

{

"\_id" : ObjectId("611f6424f2c89d1f81caaa62"),

"items" : [

{

"productId" : 100,

"Item" : "Aux Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"\_id" : ObjectId("611f63e3f2c89d1f81caaa5f"),

"items" : [

{

"productId" : 100,

"Name" : "Aux Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"\_id" : ObjectId("611f6466f2c89d1f81caaa65"),

"items" : [

{

"productId" : 105,

"Item" : "USB Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

1. **UPDATE COMMANDS:**

**> db.Customers.update({custId:1008},{ $set:{ items:[{productId:500,Name:"Gshock",Quantity:1,Price:2000}]}});**

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

**> db.Customers.update({custId:1009},{ $set:{ items:[{productId:500,Name:"Gshock",Quantity:1,Price:2000}]}});**

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

**> db.Customers.update({custId:1009},{ $set:{ items:[{productId:500,Name:"Gshock",Quantity:1,Price:2000}]}},{upsert:true});**

WriteResult({

"nMatched" : 0,

"nUpserted" : 1,

"nModified" : 0,

"\_id" : ObjectId("611f6842b8b682e16f4330a4")

})

**> db.Customers.find().pretty();**

{

"\_id" : ObjectId("611f63e3f2c89d1f81caaa5e"),

"custId" : 1000,

"Name" : "Ruturaj",

"Address" : "Pune",

"OrderAmt" : 4000,

"items" : [

{

"productId" : 200,

"Item" : "JBL Headphones",

"Quantity" : 2,

"Price" : 2000

}

]

}

{

"\_id" : ObjectId("611f63e3f2c89d1f81caaa5f"),

"custId" : 1001,

"Name" : "Kshitij",

"Address" : "Warje",

"OrderAmt" : 2500,

"items" : [

{

"productId" : 300,

"Item" : "Philips Iron",

"Quantity" : 1,

"Price" : 2000

},

{

"productId" : 100,

"Name" : "Aux Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"\_id" : ObjectId("611f63e3f2c89d1f81caaa60"),

"custId" : 1002,

"Name" : "Yash",

"Address" : "Pune",

"OrderAmt" : 8000,

"items" : [

{

"productId" : 201,

"Item" : "JBL Speaker",

"Quantity" : 1,

"Price" : 8000

}

]

}

{

"\_id" : ObjectId("611f6424f2c89d1f81caaa61"),

"custId" : 1003,

"Name" : "Aditya",

"Address" : "Nagar",

"OrderAmt" : 300,

"items" : [

{

"productId" : 101,

"Item" : "Card Reader",

"Quantity" : 1,

"Price" : 300

}

]

}

{

"\_id" : ObjectId("611f6424f2c89d1f81caaa62"),

"custId" : 1004,

"Name" : "Vedant",

"Address" : "Kothrud",

"OrderAmt" : 500,

"items" : [

{

"productId" : 100,

"Item" : "Aux Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"\_id" : ObjectId("611f6424f2c89d1f81caaa63"),

"custId" : 1005,

"Name" : "Janhavi",

"Address" : "Nashik",

"OrderAmt" : 2000,

"items" : [

{

"productId" : 500,

"Item" : "Titan Watch",

"Quantity" : 1,

"Price" : 2000

}

]

}

{

"\_id" : ObjectId("611f6466f2c89d1f81caaa64"),

"custId" : 1006,

"Name" : "Aniket",

"Address" : "Kothrud",

"OrderAmt" : 1000,

"items" : [

{

"productId" : 103,

"Item" : "Charger",

"Quantity" : 1,

"Price" : 1000

}

]

}

{

"\_id" : ObjectId("611f6466f2c89d1f81caaa65"),

"custId" : 1007,

"Name" : "Akash",

"Address" : "Sadashiv",

"OrderAmt" : 2500,

"items" : [

{

"productId" : 501,

"Item" : "Fastrack Watch",

"Quantity" : 1,

"Price" : 2000

},

{

"productId" : 105,

"Item" : "USB Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"\_id" : ObjectId("611f6466f2c89d1f81caaa66"),

"custId" : 1008,

"Name" : "Gaurav",

"Address" : "Warje",

"OrderAmt" : 2000,

"items" : [

{

"productId" : 500,

"Name" : "Gshock",

"Quantity" : 1,

"Price" : 2000

}

]

}

{

"\_id" : ObjectId("611f6842b8b682e16f4330a4"),

"custId" : 1009,

"items" : [

{

"productId" : 500,

"Name" : "Gshock",

"Quantity" : 1,

"Price" : 2000

}

]

}

**> db.Customers.update({custId:1009},{ $set:{Name:"Saurabh",Address:"Warje",OrderAmt:2000}},{upsert:true});**

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

**> db.Customers.find().pretty();**

{

"\_id" : ObjectId("611f63e3f2c89d1f81caaa5e"),

"custId" : 1000,

"Name" : "Ruturaj",

"Address" : "Pune",

"OrderAmt" : 4000,

"items" : [

{

"productId" : 200,

"Item" : "JBL Headphones",

"Quantity" : 2,

"Price" : 2000

}

]

}

{

"\_id" : ObjectId("611f63e3f2c89d1f81caaa5f"),

"custId" : 1001,

"Name" : "Kshitij",

"Address" : "Warje",

"OrderAmt" : 2500,

"items" : [

{

"productId" : 300,

"Item" : "Philips Iron",

"Quantity" : 1,

"Price" : 2000

},

{

"productId" : 100,

"Name" : "Aux Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"\_id" : ObjectId("611f63e3f2c89d1f81caaa60"),

"custId" : 1002,

"Name" : "Yash",

"Address" : "Pune",

"OrderAmt" : 8000,

"items" : [

{

"productId" : 201,

"Item" : "JBL Speaker",

"Quantity" : 1,

"Price" : 8000

}

]

}

{

"\_id" : ObjectId("611f6424f2c89d1f81caaa61"),

"custId" : 1003,

"Name" : "Aditya",

"Address" : "Nagar",

"OrderAmt" : 300,

"items" : [

{

"productId" : 101,

"Item" : "Card Reader",

"Quantity" : 1,

"Price" : 300

}

]

}

{

"\_id" : ObjectId("611f6424f2c89d1f81caaa62"),

"custId" : 1004,

"Name" : "Vedant",

"Address" : "Kothrud",

"OrderAmt" : 500,

"items" : [

{

"productId" : 100,

"Item" : "Aux Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"\_id" : ObjectId("611f6424f2c89d1f81caaa63"),

"custId" : 1005,

"Name" : "Janhavi",

"Address" : "Nashik",

"OrderAmt" : 2000,

"items" : [

{

"productId" : 500,

"Item" : "Titan Watch",

"Quantity" : 1,

"Price" : 2000

}

]

}

{

"\_id" : ObjectId("611f6466f2c89d1f81caaa64"),

"custId" : 1006,

"Name" : "Aniket",

"Address" : "Kothrud",

"OrderAmt" : 1000,

"items" : [

{

"productId" : 103,

"Item" : "Charger",

"Quantity" : 1,

"Price" : 1000

}

]

}

{

"\_id" : ObjectId("611f6466f2c89d1f81caaa65"),

"custId" : 1007,

"Name" : "Akash",

"Address" : "Sadashiv",

"OrderAmt" : 2500,

"items" : [

{

"productId" : 501,

"Item" : "Fastrack Watch",

"Quantity" : 1,

"Price" : 2000

},

{

"productId" : 105,

"Item" : "USB Cable",

"Quantity" : 1,

"Price" : 500

}

]

}

{

"\_id" : ObjectId("611f6466f2c89d1f81caaa66"),

"custId" : 1008,

"Name" : "Gaurav",

"Address" : "Warje",

"OrderAmt" : 2000,

"items" : [

{

"productId" : 500,

"Name" : "Gshock",

"Quantity" : 1,

"Price" : 2000

}

]

}

{

"\_id" : ObjectId("611f6842b8b682e16f4330a4"),

"custId" : 1009,

"items" : [

{

"productId" : 500,

"Name" : "Gshock",

"Quantity" : 1,

"Price" : 2000

}

],

"Address" : "Warje",

"Name" : "Saurabh",

"OrderAmt" : 2000

}

1. **DELETE COMMANDS:**

**> db.Customers.remove({custId:1009});**

WriteResult({ "nRemoved" : 1 })