c:\Program Files\MongoDB\Server\5.0\bin>mongo.exe

MongoDB shell version v5.0.17

connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("ddd4cc13-1cc4-4cfd-8cb9-b6fa9ed48f27") }

MongoDB server version: 5.0.17

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Warning: the "mongo" shell has been superseded by "mongosh",

which delivers improved usability and compatibility.The "mongo" shell has been deprecated and will be removed in

an upcoming release.

For installation instructions, see

https://docs.mongodb.com/mongodb-shell/install/

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The server generated these startup warnings when booting:

2023-05-03T19:12:57.034-08:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

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Enable MongoDB's free cloud-based monitoring service, which will then receive and display

metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you

and anyone you share the URL with. MongoDB may use this information to make product

improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()

To permanently disable this reminder, run the following command: db.disableFreeMonitoring()

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> use my\_first\_db

switched to db my\_first\_db

> db.createCollection("students")

{

"ok" : 0,

"errmsg" : "Collection already exists. NS: my\_first\_db.students",

"code" : 48,

"codeName" : "NamespaceExists"

}

> db.students.insert({name: "Ross", home\_state: "California", lucky\_number: 5, birthday: {month: 7, day: 5, year: 2000}})

Wrdb.students.insert({name: "Terry", home\_state: "Washington", lucky\_number: 9, birthday: {month: 3, day: 22, year: 1992}})

WriteResult({ "nInserted" : 1 })ry", home\_state: "Washington", lucky\_number: 9, birthday: {month: 3, day: 22, year: 1992}})

> db.students.insert({name: "Bill", home\_state: "California", lucky\_number: 2, birthday: {month: 6, day: 1, year: 2003}})

Wrdb.students.insert({name: "Zoe", home\_state: "Washington", lucky\_number: 11, birthday: {month: 11, day: 11, year: 1978}})

WriteResult({ "nInserted" : 1 })", home\_state: "Washington", lucky\_number: 11, birthday: {month: 11, day: 11, year: 1978}})

> db.students.insert({name: "Max", home\_state: "California", lucky\_number: 7, birthday: {month: 9, day: 25, year: 2002}})

WriteResult({ "nInserted" : 1 })

> db.students.find()

{ "\_id" : ObjectId("645327321e69ae33fab2ca46"), "name" : "Ross", "home\_state" : "California", "lucky\_number" : 5, "birthday" : { "month" : 7, "day" : 5, "year" : 2000 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca47"), "name" : "Terry", "home\_state" : "Washington", "lucky\_number" : 9, "birthday" : { "month" : 3, "day" : 22, "year" : 1992 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca48"), "name" : "Bill", "home\_state" : "California", "lucky\_number" : 2, "birthday" : { "month" : 6, "day" : 1, "year" : 2003 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca49"), "name" : "Zoe", "home\_state" : "Washington", "lucky\_number" : 11, "birthday" : { "month" : 11, "day" : 11, "year" : 1978 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca4a"), "name" : "Max", "home\_state" : "California", "lucky\_number" : 7, "birthday" : { "month" : 9, "day" : 25, "year" : 2002 } }

> db.students.find({$or: [{home\_state: "California"}, {home\_state: "Washington"}]})

{ "\_id" : ObjectId("645327321e69ae33fab2ca46"), "name" : "Ross", "home\_state" : "California", "lucky\_number" : 5, "birthday" : { "month" : 7, "day" : 5, "year" : 2000 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca47"), "name" : "Terry", "home\_state" : "Washington", "lucky\_number" : 9, "birthday" : { "month" : 3, "day" : 22, "year" : 1992 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca48"), "name" : "Bill", "home\_state" : "California", "lucky\_number" : 2, "birthday" : { "month" : 6, "day" : 1, "year" : 2003 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca49"), "name" : "Zoe", "home\_state" : "Washington", "lucky\_number" : 11, "birthday" : { "month" : 11, "day" : 11, "year" : 1978 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca4a"), "name" : "Max", "home\_state" : "California", "lucky\_number" : 7, "birthday" : { "month" : 9, "day" : 25, "year" : 2002 } }

> Get all students whose lucky number is greater than 3

uncaught exception: SyntaxError: unexpected token: identifier :

@(shell):1:4

> db.students.find({lucky\_number: {$gt: 3}})

{ "\_id" : ObjectId("645327321e69ae33fab2ca46"), "name" : "Ross", "home\_state" : "California", "lucky\_number" : 5, "birthday" : { "month" : 7, "day" : 5, "year" : 2000 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca47"), "name" : "Terry", "home\_state" : "Washington", "lucky\_number" : 9, "birthday" : { "month" : 3, "day" : 22, "year" : 1992 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca49"), "name" : "Zoe", "home\_state" : "Washington", "lucky\_number" : 11, "birthday" : { "month" : 11, "day" : 11, "year" : 1978 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca4a"), "name" : "Max", "home\_state" : "California", "lucky\_number" : 7, "birthday" : { "month" : 9, "day" : 25, "year" : 2002 } }

> db.students.find({lucky\_number: {$lte: 10}})

{ "\_id" : ObjectId("645327321e69ae33fab2ca46"), "name" : "Ross", "home\_state" : "California", "lucky\_number" : 5, "birthday" : { "month" : 7, "day" : 5, "year" : 2000 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca47"), "name" : "Terry", "home\_state" : "Washington", "lucky\_number" : 9, "birthday" : { "month" : 3, "day" : 22, "year" : 1992 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca48"), "name" : "Bill", "home\_state" : "California", "lucky\_number" : 2, "birthday" : { "month" : 6, "day" : 1, "year" : 2003 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca4a"), "name" : "Max", "home\_state" : "California", "lucky\_number" : 7, "birthday" : { "month" : 9, "day" : 25, "year" : 2002 } }

> db.students.find({lucky\_number: {$gte: 1, $lte: 9}})

{ "\_id" : ObjectId("645327321e69ae33fab2ca46"), "name" : "Ross", "home\_state" : "California", "lucky\_number" : 5, "birthday" : { "month" : 7, "day" : 5, "year" : 2000 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca47"), "name" : "Terry", "home\_state" : "Washington", "lucky\_number" : 9, "birthday" : { "month" : 3, "day" : 22, "year" : 1992 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca48"), "name" : "Bill", "home\_state" : "California", "lucky\_number" : 2, "birthday" : { "month" : 6, "day" : 1, "year" : 2003 } }

{ "\_id" : ObjectId("645327321e69ae33fab2ca4a"), "name" : "Max", "home\_state" : "California", "lucky\_number" : 7, "birthday" : { "month" : 9, "day" : 25, "year" : 2002 } }

> db.students.updateMany({}, {$set: {interests: ["coding", "brunch", "MongoDB"]}})

{ "acknowledged" : true, "matchedCount" : 5, "modifiedCount" : 5 }

> db.students.update({name: "Max"}, {$push: {interests: "reading"}})

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

> db.students.update({name: "Ross"}, {$push: {interests: "hiking"}})

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

> db.students.update({name: "Terry"}, {$push: {interests: "gaming"}})

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

> db.students.update({name: "Bill"}, {$push: {interests: "painting"}})

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

> db.students.update({name: "Zoe"}, {$push: {interests: "music"}})

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

> db.students.update({name: "Max"}, {$push: {interests: "taxes"}})

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

> db.students.updateOne({ name: 'Max' }, { $pull: { interests: 'taxes' } })

{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

> db.students.remove({ home\_state: 'CA' })

WriteResult({ "nRemoved" : 0 })

> > db.students.remove({ home\_state: 'California' })

uncaught exception: SyntaxError: expected expression, got '>' :

@(shell):1:0

> db.students.remove({ home\_state: 'California' })

WriteResult({ "nRemoved" : 3 })

> db.students.remove({ name: 'Terry' })

WriteResult({ "nRemoved" : 1 })

> db.students.deleteOne({ lucky\_number: { $gt: 5 } })

{ "acknowledged" : true, "deletedCount" : 1 }

> db.students.updateMany({}, { $set: { number\_of\_belts: 0 } })

{ "acknowledged" : true, "matchedCount" : 0, "modifiedCount" : 0 }

> db.students.insert({name: "Ross", home\_state: "California", lucky\_number: 5, birthday: {month: 7, day: 5, year: 2000}})

Wrdb.students.insert({name: "Terry", home\_state: "Washington", lucky\_number: 9, birthday: {month: 3, day: 22, year: 1992}})WriteResult({ "nInserted" : 1 })ry", home\_state: "Washington", lucky\_number: 9, birthday: {month: 3, day: 22, year: 1992}})> db.students.insert({name: "Bill", home\_state: "California", lucky\_number: 2, birthday: {month: 6, day: 1, year: 2003}})

Wrdb.students.insert({name: "Zoe", home\_state: "Washington", lucky\_number: 11, birthday: {month: 11, day: 11, year: 1978}})WriteResult({ "nInserted" : 1 })", home\_state: "Washington", lucky\_number: 11, birthday: {month: 11, day: 11, year: 1978}})> db.students.insert({name: "Max", home\_state: "California", lucky\_number: 7, birthday: {month: 9, day: 25, year: 2002}})

WriteResult({ "nInserted" : 1 })

> db.students.updateMany({}, { $set: { number\_of\_belts: 0 } })

{ "acknowledged" : true, "matchedCount" : 5, "modifiedCount" : 5 }

> db.students.updateMany({ home\_state: 'WA' }, { $inc: { number\_of\_belts: 1 } })

{ "acknowledged" : true, "matchedCount" : 0, "modifiedCount" : 0 }

> db.students.updateMany({ home\_state: 'Washington' }, { $inc: { number\_of\_belts: 1 } })

{ "acknowledged" : true, "matchedCount" : 2, "modifiedCount" : 2 }

> db.students.updateMany({}, { $rename: { "number\_of\_belts": "belts\_earned" } })

{ "acknowledged" : true, "matchedCount" : 5, "modifiedCount" : 5 }

> db.students.updateMany({}, { $unset: { lucky\_number: "" } })

{ "acknowledged" : true, "matchedCount" : 5, "modifiedCount" : 5 }

> db.students.updateMany({}, { $currentDate: { updated\_on: true } })

{ "acknowledged" : true, "matchedCount" : 5, "modifiedCount" : 5 }

> db.students.find()

{ "\_id" : ObjectId("6453294e1e69ae33fab2ca4b"), "name" : "Ross", "home\_state" : "California", "birthday" : { "month" : 7, "day" : 5, "year" : 2000 }, "belts\_earned" : 0, "updated\_on" : ISODate("2023-05-04T03:42:40.893Z") }

{ "\_id" : ObjectId("6453294e1e69ae33fab2ca4c"), "name" : "Terry", "home\_state" : "Washington", "birthday" : { "month" : 3, "day" : 22, "year" : 1992 }, "belts\_earned" : 1, "updated\_on" : ISODate("2023-05-04T03:42:40.893Z") }

{ "\_id" : ObjectId("6453294e1e69ae33fab2ca4d"), "name" : "Bill", "home\_state" : "California", "birthday" : { "month" : 6, "day" : 1, "year" : 2003 }, "belts\_earned" : 0, "updated\_on" : ISODate("2023-05-04T03:42:40.893Z") }

{ "\_id" : ObjectId("6453294f1e69ae33fab2ca4e"), "name" : "Zoe", "home\_state" : "Washington", "birthday" : { "month" : 11, "day" : 11, "year" : 1978 }, "belts\_earned" : 1, "updated\_on" : ISODate("2023-05-04T03:42:40.893Z") }

{ "\_id" : ObjectId("6453294f1e69ae33fab2ca4f"), "name" : "Max", "home\_state" : "California", "birthday" : { "month" : 9, "day" : 25, "year" : 2002 }, "belts\_earned" : 0, "updated\_on" : ISODate("2023-05-04T03:42:40.893Z") }

>