Walk Through steps for Data Tutorials, MongoDB by Yeo Chee En Luke

Video guide by Bro Code : https://youtu.be/c2M-rlkkT5o?si=Hu6i4PvliPIllmKB

Note: Not allowed to copy paste, have to type each of them out

**Different commands learnt in MongoDB:**

* Use [Name of sever e.g. Admin, or new name to create] (In this case student)
* Show dbs
* db.creatCollection(“ ”) #in this case “students”
* db.dropDatabase()
* db.students.InsertOne({ name:”Luke”, age:”25”})
* db.students.inseartMany([{name:"Paul", age:"35"},{name:"Irelia", age:"22"}])
* db.students.find()
* db.students.find().sort({}) #e.g. ({name: 1 or -1})-> alphabetical order
* db.students.find().limit() , (5) -> limit to 5 documents
* db.students.find().sort().limit()
* db.students.find({name:”Luke”, \_\_\_ }) #put in ‘document(s)’ to be specific , where in SQL,
* db.students.find({}, {\_id:false, name: true}) #this is for projections -> every document but only name
* db.students.updateOne({filter},{update}) -> ({name:”Luke”},{$set:{fulltimestudent:true} OR $unset:{Fulltimestudent:””}}) #can use \_id than name
* db.students.updateMany({filter},{update})
* db.students.deleteOne({})
* db.students.deleteMany({})

**Comparison Operators**

* db.students.find({name:{$ne:”Luke”}}) #Not Equal
* db.students.find({age:{$lt:27}}) #Less Than
* db.students.find({age:{$gt:27}}) #Greater Than
* db.students.find({age:{$gte:27}}) #Greater Than or Equal
* db.students.find({age:{in[27,40]}}) #Range (in = in , nin = not in)

**Logical Operators**

* db.students.find({$and:[]}) -> [{Fulltimestudent:true},{age:{$lte:22}}]
* db.students.find({$or:[]}) -> [{Fulltimestudent:true},{age:{$lte:22}}]
* db.students.find({$nor:[]}) -> [{Fulltimestudent:true},{age:{$lte:22}}]
* db.students.find({age:{$not:{$gte:30}}})

**Indexes**

* db.students.createIndex() -> ({name:1}) , now when find , we can use .find().explain()
* db.students.getIndexes()
* db.students.dropIndex(“\_”)

**Collection**

* show collections
* db.createCollection(“\_”, {capped:true, size: 10000, max:100}, {autoIndexID:false})

**Datatype in MongoDB:**

* String: “ ”
* Integer: no need “ ”, whole number only
* Decimal: no need “ “, have ‘.’
* Boolean: true or false
* Date object: new Date() , if blank , will use current time , if not (“”)
* Null: null
* Arrays: e.g. courses: [”python’’,”machine learning”]
* Nested: e.g. address:{street:”123 Fake St. ”, city:”SG”, zip:12345}

Some Screenshot of project using the commands:





