Back-end development: Basic
MongoDB – MONGO SHELL SHORTCUTS

cls
Clear the screen

mongodb --port 27018
Explicitly giving a port number

mongo --port 27018
Connect to that specific port

show dbs
shows all the db databases you have

use <dbName>
Creates a new database or enters and existing database

show collections
Shows the collections of that database

db.dropDatabase()
Remove existing database

Data Types

String: "some text"

Boolean: true or false

Number(integer, NumberLong, NumberDecimal):
33, 123456789123456789, 33.34

ObjectId: Automatically created

ISODate: new Date()

TimeStamp: new Timestamp()

Embedded Document: {}

List: [ ]

MONGO CRUD OPERATIONS

Create
insertOne(data, options)
insertMany([data], options)

Read
find(filter, options)
findOne(filter, options)

Update
updateOne(filter, data, options)
updateMany(filter, data, options)
replaceOne(filter, data, options)

Delete
deleteOne(filter, options)
deleteMany(filtcursor methods mnogodb
er, options)

Crud Docs
https://docs.mongodb.com/manual/crud/

Operators
https://docs.mongodb.com/manual/reference/operator/

Examples:

Create

db.teachers.insertOne({name:"Mordi",subjects:[],students:[],capacityLeft:30})
db.teachers.insertMany([{name:"George",subjects:[],students:[],capacityLeft:10},{name:"Harry",subjects:[],students:[],capacityLeft:30}])

Read

db.teachers.find().pretty()
db.teachers.findOne({_id:ObjectId("5ff6fecaf91717875a68fc06")}).pretty()
db.teachers.find({name:"Mordi})
db.teachers.find({ capacityLeft:{$gt:11}}).pretty()
db.teachers.find({ capacityLeft:{$lt:11}}).pretty()

Cursor Methods

db.users.find().toArray()
db.users.find().forEach(user => printjson(user))
db.users.find().forEach(user => printjson(`users name is ${user}`))
db.users.find().count()
db.users.find().limit(2)

Update

db.teachers.updateOne({_id:ObjectId("5ff6ffa6f91717875a68fc09")},{$set:{name:"Jennifer"}})
db.teachers.updateOne({_id:ObjectId("5ff6ffa6f91717875a68fc09")},{$set:{age:22}})
db.teachers.updateMany({age:22},{$set:{age:23}})
db.teachers.updateMany({age:{$gt:20}},{$set:{young:true}})
db.teachers.replaceOne({_id:ObjectId("5ff6ffa6f91717875a68fc08")},{name:"harry"})

Delete

db.teachers.deleteOne({_id:ObjectId("5ff6ffa6f91717875a68fc09")})
db.teachers.deleteMany({name:{$exists:true}})

Dealing with Arrays

pushing to an array:

db.teachers.updateOne({_id:ObjectId("5ff70df4f91717875a68fc0b")},{$push:{subjects:"history"}})

removing from an array:

db.teachers.updateOne({_id:ObjectId("5ff70df4f91717875a68fc0b")},{$pull:{subjects:"history"}})
db.teachers.updateOne({_id:ObjectId("5ff70df4f91717875a68fc0b")},{$pop:{subjects:1}})

get the values from an array:

db.teachers.findOne({_id:ObjectId("5ff70df4f91717875a68fc0b")}).subjects