1. Create a database called *'my\_first\_db*'.

use my\_first\_db

1. Create *students* collection.

db.createCollection("students")

1. Each document you insert into this collection should have the following format: ({name: STRING, home\_state: STRING, lucky\_number: NUMBER, birthday: {month: NUMBER, day: NUMBER, year: NUMBER}})

db.students.insert({name: "thuongpham", home\_state: "Vietnam", lucky\_number: 02, birthday: {month: 03, day: 17, year: 1990}})

1. Create 5 students with the appropriate info.
2. Get all students.

db.students.find()

1. Retrieve all students who are from California (San Jose Dojo) or Washington (Seattle Dojo).

db.students.find({home\_state: "Illinois"}).pretty()

1. Get all students whose lucky number is:
   1. greater than 3: db.students.find({lucky\_number:{$gt:3}})
   2. less than or equal to 10 db.students.find({lucky\_number:{$gte:10}})
   3. between 1 and 9 (inclusive) db.students.find({lucky\_number:{$gt:3,$lte:25}})
2. Add a field to each student collection called *'interests'* that is an ARRAY. It should contain the following entries: *'coding', 'brunch', 'MongoDB'.* Do this in ONE operation.

db.students.update({},{$set:{interests:["coding","brunch","MongoDb"]}},false,true)

1. Add some unique interests for each particular student into each of their interest arrays.
2. Add the interest 'taxes' into someone's interest array.

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

1. Remove the 'taxes' interest you just added.

db.students.update({name:"Amy Jolie"},{$pull:{interests:"taxes"}})

1. Remove all students who are from California.
2. Remove a student by name.

db.students.remove({name: "Amy Jolie"})

1. Remove a student whose lucky number is greater than 5 (JUST ONE)
2. Add a field to each student collection called 'number\_of\_belts' and set it to 0.

db.students.update({},{$set:{number\_of\_belts: 0}},flase,true)

1. Increment this field by 1 for all students in Washington (Seattle Dojo).

db.students.update({},{$set:{number\_of\_belts:1}},false,true)

db.students.update({home\_state: "BarbaDose"},{$set:{number\_of\_belts:2}})

1. Rename the 'number\_of\_belts' field to 'belts\_earned'

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

1. Remove the 'lucky\_number' field.

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

1. Add a 'updated\_on' field, and set the value as the current date.

db.students.update({}, {$currentDate: {"updated\_on": true}},false,true)