**Assignment: Intro to MongoDB:**

* Create a database called *'my\_first\_db*'.   use my\_first\_db
* Create *students* collection. db.createCollection(“students”)
* 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}})
* Create 5 students with the appropriate info.

db.students.insert({name: “Staci”, home\_state: “Texas”, lucky\_number: 7, birthday: {month: 8, day: 19, year: 1993}})

db.students.insert({name: “Brittney”, home\_state: “Washington”, lucky\_number: 13, birthday: {month: 6, day: 26, year: 1985}})

db.students.insert({name: “Richard”, home\_state: “California”, lucky\_number: 21, birthday: {month: 12, day: 1, year: 1978}})

db.students.insert({name: “Erb”, home\_state: “Florida”, lucky\_number: 99, birthday: {month: 3, day: 29, year: 1980}})

db.students.insert({name: “Arden”, home\_state: “New York”, lucky\_number: 3, birthday: {month: 9, day: 13, year: 1990}})

* Get all students. db.students.find().pretty()
* Retrieve all students who are from California (San Jose Dojo) or Washington (Seattle Dojo). HOW TO COMBINE INTO ONE QUERY???

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

* Get all students whose lucky number is:
  + greater than 3 db.students.find({lucky\_number: {$gt:3}})
  + less than or equal to 10 db.students.find({lucky\_number: {$lte:10}})
  + between 1 and 9 (inclusive) db.students.find({$and: [{lucky\_number: {$gt:1}}, {lucky\_number: {$lte:9}}])
* 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.updateMany({}, {$set: {interests: ["coding", "brunch", "MongoDB"]}})

* Add some unique interests for each particular students into each of their interest arrays.

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

* Add the interest 'taxes' into someone's interest array.

db.students.update({name: "Staci"}, {$push: {interests: "Taxes"}})

* Remove the 'taxes' interest you just added.

db.students.update({name: "Staci"}, {$pull: {interests: "Taxes"}})

* Remove all students who are from California (or Washington).

db.students.deleteMany({home\_state: {$in: ["California", "Washington"]}})

* Remove a student by name.

db.students.deleteOne({name: "Erb"})

* Remove a student whose lucky number is greater than 5 (JUST ONE)

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

* Add a field to each student collection called 'number\_of\_belts' and set it to 0.

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

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

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

* Rename the 'number\_of\_belts' field to 'belts\_earned'

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

* Remove the 'lucky\_number' field.

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

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

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