**Using MongoDB**

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** 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.insertMany([**

**{ name: 'John', home\_state: 'California', lucky\_number: 4, birthday: { month: 1, day: 15, year: 2000 } },**

**{ name: 'Sarah', home\_state: 'Washington', lucky\_number: 7, birthday: { month: 4, day: 22, year: 1998 } },**

**{ name: 'Emily', home\_state: 'California', lucky\_number: 2, birthday: { month: 8, day: 5, year: 2001 } },**

**{ name: 'Michael', home\_state: 'Washington', lucky\_number: 9, birthday: { month: 12, day: 10, year: 1999 } },**

**{ name: 'David', home\_state: 'Texas', lucky\_number: 6, birthday: { month: 3, day: 28, year: 1997 } }**

**])**

** Get all students.**

**db.students.find()**

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

** Get all students whose lucky number is greater than 3**

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

** Get all students whose lucky number is less than or equal to 10**

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

** Get all students whose lucky number is between 1 and 9 (inclusive)**

**db.students.find({ lucky\_number: { $gte: 1, $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 student into each of their interest arrays.**

**db.students.updateOne({ name: 'John' }, { $addToSet: { interests: 'hiking' } })**

**db.students.updateOne({ name: 'Sarah' }, { $addToSet: { interests: 'reading' } })**

**db.students.updateOne({ name: 'Emily' }, { $addToSet: { interests: 'swimming' } })**

**db.students.updateOne({ name: 'Michael' }, { $addToSet: { interests: 'painting' } })**

**db.students.updateOne({ name: 'David' }, { $addToSet: { interests: 'cooking' } })**

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

**db.students.updateOne({ name: 'John' }, { $addToSet: { interests: 'taxes' } })**

** Remove the 'taxes' interest you just added.**

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

** Remove all students who are from California.**

**db.students.deleteMany({ home\_state: 'California' })**

** Remove a student by name.**

**db.students.deleteOne({ name: 'John' })**

** 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: 1 } })**

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

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

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