## MONGODB LAB 1 (PART 2 - DATA MANIPULATION)

//#1. Add a person to the collection. You pick the data, but they should have an empty array for children.

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db,people.insertOne({first_name: "Claire",
                      last_name: "Renolds",
                      email: "clair#cl.com",
                      gender: "female",
                      age: 40,
                      state: "New York",
                      children:[]
                      })
//#2. Add another person. They should have at least two children.
  db.people.insertOne({
                        first_name: "Nathali",
                        last name: "Brickel",
                        email: "nathali@nate.com",
                        gender: "Female",
                        age: 63,
                        state: "Wisconsin",
                        children: [{name: "Abbie", age: 34}, {name: "Becca", age: 34}]
  })
//#3. Update one person named Clarence. He moved from North Dakota to South Dakota
       db.people.updateOne({first_name: "Clarence", state: "North Dakota"},
                             { $set: {state: "South Dakota"} })
//#4. Update Rebecca Hayes. Remove her email address.
      db.people.updateOne({first_name: "Rebecca", last_name: "Hayes"},
                             { $unset: {email: ""} })
```

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//#5. Update everyone from Missouri. They all had a birthday today, so add one to their age.
(expect 4 matches)
       db.people.updateMany({state: "Missouri"},
                             { $inc: {age: 1} })
//#6. Jerry Baker has updated information. Replace with a new document:
// { first_name: "Jerry", last_name: "Baker-Mendez", email: "jerry@classic.ly", gender: "Male",
//age: 28, state: "Vermont", "children": [{name: "Alan", age: 18}, {name: "Jenny", age: 3}] }
db.people.replaceOne({first_name: "Jerry", last_name: "Baker"},
                       { first_name: "Jerry",
                       last_name: "Baker-Mendez",
                       email: "jerry@classic.ly",
                       gender: "Male",
                       age: 28,
                       state: "Vermont",
                       children: [{name: "Alan", age: 18}, {name: "Jenny", age: 3}] }
                       )
//#7. Delete Wanda Bowman
 db.people.deleteOne({first_name: "Wanda", last_name: "Bowman"})
//#8. Delete everyone who does not have an email address specified. (expect 36 matches - maybe
more depending what you added above)
  db.people.deleteMany({email: null})
// #9. Add several documents to a new submissions collection. Do it all in one command.
(Remember, MongoDB will create the collection for you. Just start adding documents.)
// title: "The River Bend", upvotes: 10, downvotes: 2, artist: <ID of Anna Howard>
// title: "Nine Lives", upvotes: 7, downvotes: 0, artist: <ID of Scott Henderson>
```

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// title: "Star Bright", upvotes: 19, downvotes: 3, artist: <ID of Andrea Burke>
// title: "Why Like This?", upvotes: 1, downvotes: 5, artist: <ID of Steven Marshall>
// title: "Non Sequitur", upvotes: 11, downvotes: 1, artist: <ID of Gerald Bailey>
db.submissions.insertMany([
       {title: "The River Bend", upvotes: 10, downvotes: 2, artist:
       ObjectId("62b11da7a23cf15ded234f78")},
       {title: "Nine Lives", upvotes: 7, downvotes: 0, artist:
       ObjectId("62b11da7a23cf15ded234fa6")},
       {title: "Star Bright", upvotes: 19, downvotes: 3, artist:
       ObjectId("62b11da7a23cf15ded235029")},
       {title: "Why Like This?", upvotes: 1, downvotes: 5, artist:
       ObjectId("62b11da7a23cf15ded234faf")},
       {title: "Non Sequitur", upvotes: 11, downvotes: 1, artist:
       ObjectId("62b11da7a23cf15ded234f76")}
 ])
//#10. Add 2 upvotes for "The River Bend".
db.submissions.updateOne({title: "The River Bend"},
                         { $inc: { upvotes:2 } })
 //#11. Add a field round2 = true to all submissions with at least 10 upvotes. (expect 3 matches)
 db.submissions.updateMany({upvotes: {$gte: 10}},
                              { $set: {round2: true} })
  //#12. Update Helen Clark. She had a baby! Add a child, name: Melanie, age: 0.
db.people.updateOne({ first_name: "Helen", last_name: "Clark" },
                      { $push: { children: { name: "Melanie", age: 0 } } })
```

// #13 Joan Bishop has a child named Catherine. She just had a birthday and prefers to go by "Cat". In one query update the child's name to "Cat" and increment her age by one.