1.List all people. (200)

**db.people.find()**

2. Count all people. (200)

**db.people.countDocuments()**

3.List all people in Arizona. (6)

**db.people.find({ state: "AZ" })**

**4.** List all males in Arizona. (2)

db.people.find({ gender: "Male", state: "Arizona" })

5. List all people in Arizona plus New Mexico. (8)

**db.people.find({$or: [{state: "Arizona"}, {state: "New Mexico"}]})**

6.List all people under age 40. (90)

**db.people.find({age: {$lt: 40}})**

7. List all females in Florida between the ages of 40 and 45 (inclusive). (4)

**db.people.find({**

**age: { $gte: 40, $lte: 45 },**

**gender: "Female",**

**state: "Florida"**

**})**

8.List people whose first name starts with "H". (2)

**db.people.find({first\_name: /^H/i})**

9.List all people in Michigan, sorted by first name. (6)

**db.people.find({state: "Michigan"}).sort({first\_name: 1})**

10.List all people who live in Virginia or are named Virginia.

**db.people.find({**

**$or: [**

**{state: "Virginia"},**

**{first\_name: "Virginia"}**

**]**

**})**

11.List the names of people under age 30. Only display their first and last name. (38)

**db.people.find({age: {$lt: 30}}, {first\_name: 1, last\_name: 1, \_id: 0})**

12.List all people in Montana. Display all information except age. (2)

**db.people.find({state: "Montana"}, {age: 0})**

13.List the email addresses of people with a ".edu" email. Only display the email. (12)

**db.people.find({email: /.\*\.edu$/}, {email: 1, \_id: 0})**

14Count all people with at least one child under age four. (69)

**db.people.count({"children.age": {$lt: 4}})**

15.List people who have no children. (43)

**db.people.find({children: {$exists: true, $size: 0}})**

16.List people who have at least one child. (157)

**db.people.find({children: {$exists: true, $not: {$size: 0}}})**