Teagan Norrgard MongoDB Lab

Exercise 1

1:

```
💿 🔘 🔘 🛅 teagannorrgard — mongosh mongodb+srv://cluster0.av6so.mongodb.net/...
Last login: Sun Mar 27 13:57:58 on ttys000
 The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`. For more details, please visit https://support.apple.com/kb/HT208050.
[(base) Teagans-MacBook-Air:~ teagannorrgard$ mongosh "mongodb+srv://cluster0.av6so]
 .mongodb.net/" --apiVersion 1 --username trnorrgard
Enter password: ***********
 Current Mongosh Log ID: 6240a6af0886e850dfdc8621
 Connecting to:
                           mongodb+srv://cluster0.av6so.mongodb.net/?appName=mongosh+
 1.3.1
Using MongoDB:
                           5.0.6 (API Version 1)
                          1.3.1
Using Mongosh:
For mongosh info see: https://docs.mongodb.com/mongodb-shell/
```

2:

```
💿 🔘 🗎 teagannorrgard — mongosh mongodb+srv://cluster0.av6so.mongodb.net/...
Enter password: ***********
Current Mongosh Log ID: 6240a6af0886e850dfdc8621
Connecting to:
                        mongodb+srv://cluster0.av6so.mongodb.net/?appName=mongosh+
1.3.1
Using MongoDB:
                        5.0.6 (API Version 1)
For mongosh info see: https://docs.mongodb.com/mongodb-shell/
[Atlas atlas-mgvqky-shard-0 [primary] test> show dbs
sample_airbnb
                    9.58 MB
sample_analytics
sample_geospatial 1.46 MB
 sample_guides
sample_mflix
                    52.3 MB
sample_restaurants
                     8.8 MB
 sample_supplies
                    1.18 MB
sample training
                    60.1 MB
sample_weatherdata 2.94 MB
 admin
                     385 kB
local
                    6.09 GB
Atlas atlas-mgvqky-shard-0 [primary] test> use sample_weatherdata
switched to db sample_weatherdata
[Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata> show collections
Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata> [
```

```
• O teagannorrgard — mongosh mongodb+srv://cluster0.av6so.mongodb.net/...
data
[Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata> db.data.find()
  {
     _id: ObjectId("5553a998e4b02cf7151190b8"),
     st: 'x+47600-047900',
     ts: ISODate("1984-03-05T13:00:00.000Z"),
    position: { type: 'Point', coordinates: [ -47.9, 47.6 ] }, elevation: 9999,
     callLetters: 'VCSZ',
     qualityControlProcess: 'V020',
     dataSource: '4',
     type: 'FM-13',
     airTemperature: { value: -3.1, quality: '1' },
    dewPoint: { value: 999.9, quality: '9' },
pressure: { value: 1015.3, quality: '1' },
       direction: { angle: 999, quality: '9' },
       type: '9',
speed: { rate: 999.9, quality: '9' }
    visibility: {
  distance: { value: 999999, quality: '9' },
  variability: { value: 'N', quality: '9' }
     skvCondition: {
```

```
• • teagannorrgard — mongosh mongodb+srv://cluster0.av6so.mongodb.net/...
Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata> db.data.find().pretty()
  {
     _id: ObjectId("5553a998e4b02cf7151190b8"),
     st: 'x+47600-047900',
     ts: ISODate("1984-03-05T13:00:00.000Z"),
    position: { type: 'Point', coordinates: [ -47.9, 47.6 ] }, elevation: 9999,
     callLetters: 'VCSZ',
     qualityControlProcess: 'V020',
     dataSource: '4',
     type: 'FM-13',
    dewPoint: { value: -3.1, quality: '1' }, dewPoint: { value: 999.9, quality: '9' }, pressure: { value: 1015.3, quality: '1' },
     wind: {
       direction: { angle: 999, quality: '9' },
       speed: { rate: 999.9, quality: '9' }
     visibility: {
       distance: { value: 999999, quality: '9' },
variability: { value: 'N', quality: '9' }
     skyCondition: {
```

| Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata> db.data.find().count() | (node:39177) [MONGODB DRIVER] Warning: cursor.count is deprecated and will be remo ved in the next major version, please use `collection.estimatedDocumentCount` or `collection.countDocuments` instead (Use `node --trace-warnings ...` to show where the warning was created) 10000 Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata>

4:

```
• • teagannorrgard — mongosh mongodb+srv://cluster0.av6so.mongodb.net/...
(Use `node --trace-warnings ...` to show where the warning was created)
Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata> db.data.find({"skyConditi]
on.ceilingHeight.value":750}).count()
[Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata> db.data.find({"skyConditi] on.ceilingHeight.value":750}).pretty()
  {
     _id: ObjectId("5553a998e4b02cf7151190bd"),
     st: 'x+59800-029700',
ts: ISODate("1984-03-05T15:00:00.000Z"),
     position: { type: 'Point', coordinates: [ -29.7, 59.8 ] },
     elevation: 9999,
callLetters: 'TFWB',
     qualityControlProcess: 'V020',
     dataSource: '4',
type: 'FM-13',
airTemperature: { value: 3.1, quality: '1' },
dewPoint: { value: 999.9, quality: '9' },
pressure: { value: 1019, quality: '1' },
     wind: {
       direction: { angle: 250, quality: '1' },
        type: 'N
       speed: { rate: 15.4, quality: '1' }
```

```
Havelitud . Hill
● ● teagannorrgard — mongosh mongodb+srv://cluster0.av6so.mongodb.net/...
  }
1
Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata> db.data.insertOne({
              "st": "x+85600-124000",
"ts": ISODate("1984-03-07T13:00:00Z"),
. . .
. . .
              "position" : {
    "type" : "Point"
. . .
. . . . .
                           "coordinates" : [
. . . . .
                                     -124,
. . . . .
. . . . .
                                     85.6
                           ]
. . . . .
                },
. . . . .
              "elevation" : 8787,
"callLetters" : "ROBZ",
"qualityControlProcess" : "V020",
...
. . .
. . .
              "dataSource" : "3",
. . .
              "type" : "FM-13",
...
              . . .
. . . . .
. . . . .
                },
. . . . .
               "dewPoint" : {
. . .
                           "value": -24.9,
"quality": "1"
. . . . .
. . . . .
                },
. . . . .
               "pressure" : {
. . .
```

```
11 0000 1 5 + 111 1 11111

    teagannorrgard — mongosh mongodb+srv://cluster0.av6so.mongodb.net/...

                                     "quality" : "1"
. . . . . . .
               },
. . . . .
              "visibility" : {
. . .
                         "distance" : {
                                    "value" : 7000,
. . . . . . .
                                    "quality" : "1"
. . . . . . .
                           },
                         "variability" : {
                                    "value" : "N",
. . . . . . .
                                    "quality" : "9"
. . . . . . .
                           }
. . . . . . .
               },
. . . . .
              "skyCondition" : {
. . .
                        "ceilingHeight" : {
. . . . .
                                     "value" : 760,
                                     "quality" : "1",
. . . . . . .
                                    "determination" : "C"
. . . . . . .
                           }
. . . . . . .
                }
. . . . .
...})
{
  acknowledged: true,
  insertedId: ObjectId("6240a8790886e850dfdc8622")
Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata>
```

```
🌓 💿 🔵 🛅 teagannorrgard — mongosh mongodb+srv://cluster0.av6so.mongodb.net/...
   insertedId: ObjectId("6240a8790886e850dfdc8622")
 }
[Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata> db.data.find(ObjectId("62]
40a8790886e850dfdc8622")).pretty()
 [
     _id: ObjectId("6240a8790886e850dfdc8622"),
     st: 'x+85600-124000',
     ts: ISODate("1984-03-07T13:00:00.000Z"),
     position: { type: 'Point', coordinates: [ -124, 85.6 ] },
     elevation: 8787,
     callLetters: 'ROBZ',
     qualityControlProcess: 'V020',
     dataSource: '3',
     type: 'FM-13',
     airTemperature: { value: -22.9, quality: '1' },
     dewPoint: { value: -24.9, quality: '1' },
pressure: { value: 1000.2, quality: '1' },
     wind: {
       direction: { angle: 270, quality: '1' },
       type: 'N',
       speed: { rate: 7, quality: '1' }
     },
     visibility: {
       distance: { value: 7000, quality: '1' },
       variability: { value: 'N', quality: '9' }
```

Exercise 2:

```
1:
 [Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata> show dbs
 sample airbnb
                     55 MB
                     9.58 MB
 sample_analytics
 sample_geospatial 1.46 MB
                     41 kB
 sample_guides
 sample_mflix
                     52.3 MB
 sample_restaurants
                    8.8 MB
 sample_supplies
                     1.18 MB
 sample_training
                     60.1 MB
 sample_weatherdata 2.96 MB
 admin
                     385 kB
 local
                     6.09 GB
🛮 Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata> 📗
```

```
2:

[Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata> db
sample_weatherdata
TAtlas atlas-mgvqky-shard-0 [primary] sample_weatherdata>
```

```
[Atlas atlas-mgvqky-shard-0 [primary] sample_weatherdata> use things
 switched to db things
[Atlas atlas-mgvqky-shard-0 [primary] things> show dbs
 sample_airbnb
                    55 MB
 sample_analytics
                    9.58 MB
 sample_geospatial 1.46 MB
                     41 kB
 sample_guides
 sample_mflix
                    52.3 MB
 sample_restaurants
                    8.8 MB
 sample_supplies
                    1.18 MB
 sample_training
                    60.1 MB
 sample_weatherdata 2.96 MB
admin
                     385 kB
                    6.09 GB
local
r Atlas atlas-mgvqky-shard-0 [primary] things>
```

```
4:
[Atlas atlas-mgvqky-shard-0 [primary] things> db.hobbies.insert({name:"horseback ri]
    ding", "equipment":["horse", "saddle", "helmet"]})
    {
        acknowledged: true,
        insertedIds: { '0': ObjectId("6240af680886e850dfdc8625") }
        i
}
```

```
6:

[Atlas atlas-mgvqky-shard-0 [primary] things> db.hobbies.insert({"name":"cycling","]
    equipment":["bicycle","helmet","air pump"]})
{
        acknowledged: true,
        insertedIds: { '0': ObjectId("6240b0200886e850dfdc8626") }
}
[Atlas atlas-mgvqky-shard-0 [primary] things> db.hobbies.insert({"name":"basketball]
        ","equipment":["ball","shoes","court","rim","game"]})
{
        acknowledged: true,
        insertedIds: { '0': ObjectId("6240b0270886e850dfdc8627") }
}
t[Atlas atlas-mgvqky-shard-0 [primary] things> db.hobbies.insert({"name":"archery","]
        equipment":["bow","arrows"]})
{
        acknowledged: true,
        insertedIds: { '0': ObjectId("6240b02e0886e850dfdc8628") }
}
Atlas atlas-mgvqky-shard-0 [primary] things>
```

```
7:
 [Atlas atlas-mgvgky-shard-0 [primary] things> db.hobbies.find().pretty()
   {
     _id: ObjectId("6240af680886e850dfdc8625"),
     name: 'horseback riding',
     equipment: [ 'horse', 'saddle', 'helmet' ]
     _id: ObjectId("6240b0200886e850dfdc8626"),
     name: 'cycling',
     equipment: [ 'bicycle', 'helmet', 'air pump' ]
     _id: ObjectId("6240b0270886e850dfdc8627"),
     name: 'basketball',
     equipment: [ 'ball', 'shoes', 'court', 'rim', 'game' ]
   ₹
     _id: ObjectId("6240b02e0886e850dfdc8628"),
     name: 'archery',
     equipment: [ 'bow', 'arrows' ]
 1
 Atlas atlas-mgvqky-shard-0 [primary] things>
[name: !!harsahask riding!] [frot : [aguinment: [!!harsa! !!sadd]a! !!halmat!!]]
```

8: I had already added equipment at first since I thought the output for #5 was supposed to include it

```
[Atlas atlas-mgvqky-shard-0 [primary] things> db.hobbies.updateOne({name:"horseback]
    riding"},{$set : {equipment:["horse","saddle","helmet"]}})
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 0,
    upsertedCount: 0
}
Atlas atlas-mgvqky-shard-0 [primary] things>
```