

Running and Connecting:

```
Last login: Sun Mar 27 18:29:18 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) Shannons-MacBook-Pro-2:~ shannontran$ mongosh "mongodb+srv://cluster0.veaa2.mongodb.net/" --apiVersion 1 --username spt2nvu_uva
Enter password: *****
Current Mongosh Log ID: 6240e76ee603775e44622c06
Connecting to:   mongodb+srv://cluster0.veaa2.mongodb.net/?appName=mongosh+1.3.1
Using MongoDB:   5.0.6 (API Version 1)
Using Mongosh:   1.3.1

For mongosh info see: https://docs.mongodb.com/mongodb-shell/
```

Exercise #1:

Step 2:

```
For mongosh info see: https://docs.mongodb.com/mongodb-shell/

Atlas atlas-mj1q6h-shard-0 [primary] test> show dbs;
sample_airbnb      8.19 kB
sample_analytics  24.6 kB
sample_geospatial 1.24 MB
sample_guides      8.19 kB
sample_mflix       20.3 MB
sample_restaurants 6.29 MB
sample_supplies    8.19 kB
sample_training    39.3 MB
sample_weatherdata 2.92 MB
admin              385 kB
local              8.65 GB
Atlas atlas-mj1q6h-shard-0 [primary] test> use sample_weatherdata;
switched to db sample_weatherdata
Atlas atlas-mj1q6h-shard-0 [primary] sample_weatherdata>

Atlas atlas-mj1q6h-shard-0 [primary] sample_weatherdata> show collections;
data
```

Step 3:

```
Atlas atlas-mjlq6h-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',
    airTemperature: { value: -3.1, quality: '1' },
    dewPoint: { value: 999.9, quality: '9' },
    pressure: { value: 1015.3, quality: '1' },
    wind: {
      direction: { angle: 999, quality: '9' },
      type: '9',
      speed: { rate: 999.9, quality: '9' }
    },
    visibility: {
```

```
Atlas atlas-mjlq6h-shard-0 [primary] sample_weatherdata> db.data.find().count();
(node:93899) [MONGODB DRIVER] Warning: cursor.count is deprecated and will be removed 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
```

Step 4:

```
Atlas atlas-mjlq6h-shard-0 [primary] sample_weatherdata> db.data.find({"skyCondition.ceilingHeight.value":750}).count();
673
Atlas atlas-mjlq6h-shard-0 [primary] sample_weatherdata> db.data.find({"skyCondition.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',
```

Step 5:

```
Atlas atlas-mj1q6h-shard-0 [primary] sample_weatherdata> db.data.find(ObjectId("5553a998e4b02cf7151195d3")).pretty();
[
  {
    _id: ObjectId("5553a998e4b02cf7151195d3"),
    st: 'x+85600-124000',
    ts: ISODate("1984-03-05T15:00:00.000Z"),
    position: { type: 'Point', coordinates: [ -124, 85.6 ] },
    elevation: 9999,
    callLetters: 'ROBB',
    qualityControlProcess: 'V020',
    dataSource: '4',
    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' }
    },
  },
]
```

Step 6:

```
Atlas atlas-mj1q6h-shard-0 [primary] sample_weatherdata> db.data.find(ObjectId("6240e826e603775e44622c07")).pretty();
[
  {
    _id: ObjectId("6240e826e603775e44622c07"),
    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' }
    },
    skyCondition: { ceilingHeight: { value: 760, quality: '1', determination: 'C' } }
  },
]
```

Atlas atlas-mj1q6h-shard-0 [primary] sample_weatherdata> █