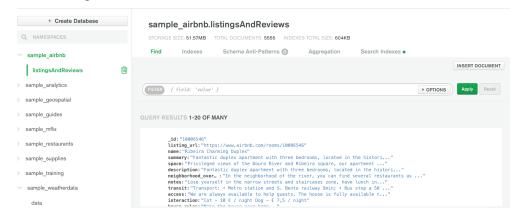
## **Exercise 1**

a.

This task uses sample data available on the Atlas Cloud console.

1. From within the Atlas Cloud console, load sample data using the . . . button in your cluster settings.



 Using your mongo shell, list your databases, select the sample\_weatherdata set, then show collections within that:

```
Atlas atlas-z5p39i-shard-0 [primary] myFirstDatabase> show dbs;
sample_mflix 8.53 MB
[sample_training 578 kB
admin 340 kB
local 1.35 GB
Atlas atlas-z5p39i-shard-0 [primary] myFirstDatabase> use sample_weatherdata;
switched to db sample_weatherdata
[Atlas atlas-z5p39i-shard-0 [primary] sample_weatherdata> show collections;
a. data
```

3. This should show you there is a data collection within that database. Find all documents in the collection, then display them using the <code>.pretty()</code> flag, and finally count them:

```
a. db.data.find();
              [Atlas atlas-z5p39i-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' },
       i.
                    variability: { value: 'N'. quality: '9' }
```

```
[Atlas atlas-z5p39i-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' },
                                    direction: { angle: 999, quality: '9' },
                                    type: '9
                                    speed: { rate: 999.9, quality: '9' }
                                  visibility: {
  distance: { value: 999999, quality: '9' },
  variability: { value: 'N', quality: '9' }
                                    ceilingHeight: { value: 99999, quality: '9', determination: '9' }, cavok: 'N'
                                  sections: [ 'AG1' ],
                                  precipitationEstimatedObservation: { discrepancy: '2', estimatedWaterDepth: 999 }
                    i.
           c. db.data.find().count();
                              Type "it" for more
                             | Atlas atlas-z5p39i-shard-0 [primary] sample_weatherdata> db.data.find().count();
| (node:32673) [MONGODB DRIVER] Warning: cursor.count is deprecated and will be removed in the next major \
                              (Use `node --trace-warnings ...` to show where the warning was created)
                              Atlas atlas-z5p39i-shard-0 [primary] sample_weatherdata>
                  i.
4. Search for all documents containing a skyCondition.ceilingHeight.value of 750
     and count the results. Then display the results:
           a. db.data.find({"skyCondition.ceilingHeight.value":750}).cou
                 nt()
                             [Atlas atlas-z5p39i-shard-0 [primary] sample_weatherdata> db.data.find({"skyCondition.ceilingHeight.value":750}).count();
                             Atlas atlas-z5p39i-shard-0 [primary] sample_weatherdata>
           b. db.data.find({"skyCondition.ceilingHeight.value":750}).pretty();
                             [Atlas atlas-z5p39i-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',
                                  airTemperature: { value: 3.1, quality: '1' },
                                 dewPoint: { value: 999.9, quality: '9' }
pressure: { value: 1019, quality: '1' },
                                    direction: { angle: 250, quality: '1' },
                                    speed: { rate: 15.4, quality: '1' }
                                  visibility: {
  distance: { value: 10000, quality: '1' },
                                    variability: { value: 'N', quality: '9' }
                                  skyCondition: {
                                   ceilingHeight: { value: 750, quality: '1', determination: 'C' },
                                  sections: [ 'AG1', 'AY1', 'GF1', 'MW1' ],
                    i.
                                 precipitationEstimatedObservation: { discrepancy: '1', estimatedWaterDepth: 0 },
```

b. db.data.find().pretty();

5. Retrieve a single document based on ObjectId:

i.

```
a. db.data.find(ObjectId("5553a998e4b02cf7151195d3")).pretty();
```

- 6. Finally, using the code below insert a new document. After insertion, can you retrieve this document?
  - a. No, you cannot retrieve this document because there is no unique ObjectId.