MongoDB Commands with MongoDB Atlas

Connect to the Atlas cluster:

```
mongo "mongodb+srv://<username>:<password>@<cluster>.mongodb.net/admin"
```

username: m001-student

password: m001-mongodb-basics

Find Command

```
show dbs

use sample_training

show collections

db.zips.find({"state": "NY"})
```

it iterates through the cursor.

```
db.zips.find({"state": "NY"}).count()

db.zips.find({"state": "NY", "city": "ALBANY"})

db.zips.find({"state": "NY", "city": "ALBANY"}).pretty()
```

Insert New Documents

Step two: navigate to the database that we need:

```
use sample_training
```

Step three, get a random document from the collection:

```
db.inspections.findOne();
```

Step four, copy this random document, and try to insert in into the collection:

```
db.inspections.insert({
      " id" : ObjectId("56d61033a378eccde8a8354f"),
      "id": "10021-2015-ENFO",
      "certificate number" : 9278806,
      "business name" : "ATLIXCO DELI GROCERY INC.",
      "date" : "Feb 20 2015",
      "result" : "No Violation Issued",
      "sector" : "Cigarette Retail Dealer - 127",
      "address" : {
              "city" : "RIDGEWOOD",
              "zip" : 11385,
              "street" : "MENAHAN ST",
              "number" : 1712
         }
  })
```

```
db.inspections.insert({
      "id" : "10021-2015-ENFO",
      "certificate number" : 9278806,
      "business name" : "ATLIXCO DELI GROCERY INC.",
      "date" : "Feb 20 2015",
      "result" : "No Violation Issued",
      "sector" : "Cigarette Retail Dealer - 127",
      "address" : {
              "city" : "RIDGEWOOD",
              "zip" : 11385,
              "street" : "MENAHAN ST",
              "number" : 1712
         }
 })
db.inspections.find({"id" : "10021-2015-ENFO",
"certificate_number" : 9278806}).pretty()
```

Insert three test documents:

```
db.inspections.insert([ { "test": 1 }, { "test": 2 },
{ "test": 3 } ])
```

Insert three test documents but specify the id values:

Find the documents with id: 1

```
db.inspections.find({ "_id": 1 })
```

Insert multiple documents specifying the _id *values, and using the* "ordered": false *option*.

Insert multiple documents with id: 1 with the default "ordered": true setting

```
db.inspection.insert([{ "_id": 1, "test": 1 },{ "_id": 3,
   "test": 3 }])
```

View collections in the active db

```
show collections
```

Switch the active db to training

```
use training
```

View all available databases

show dbs

Updating Document

Use the sample training *database as your database in the following commands.*

```
use sample_training
```

Find all documents in the zips collection where the zip field is equal to "12434".

```
db.zips.find({ "zip": "12534" }).pretty()
```

Find all documents in the zips collection where the city field is equal to "HUDSON".

```
db.zips.find({ "city": "HUDSON" }).pretty()
```

Find how many documents in the zips collection have the city field equal to "HUDSON".

```
db.zips.find({ "city": "HUDSON" }).count()
```

Update all documents in the zips collection where the city field is equal to "HUDSON" by adding 10 to the current value of the "pop" field.

```
db.zips.updateMany({ "city": "HUDSON" }, { "$inc": { "pop":
10 } })
```

Update a single document in the zips *collection where the* zip *field is equal to* "12534" *by setting the value of the* "pop" *field to* 17630.

```
db.zips.updateOne({ "zip": "12534" }, { "$set": { "pop": 17630 } })
```

Update a single document in the zips collection where the zip field is equal to "12534" by setting the value of the "popupation" field to 17630.

Find all documents in the grades collection where the student_id field is 151, and the class id field is 339.

```
db.grades.find({ "student_id": 151, "class_id":
339 }).pretty()
```

Find all documents in the grades collection where the student_id field is 250, and the class id field is 339.

```
db.grades.find({ "student_id": 250, "class_id":
339 }).pretty()
```

Update one document in the grades collection where the student_id is ``250`` *, and the class id field is 339, by adding a document element to the "scores" array.

Deleting Documents and Collections

```
use sample_training
```

Look at all the docs that have test field equal to 1.

```
db.inspections.find({ "test": 1 }).pretty()
```

Look at all the docs that have test field equal to 3.

```
db.inspections.find({ "test": 3 }).pretty()
```

Delete all the documents that have test field equal to 1.

```
db.inspections.deleteMany({ "test": 1 })
```

Delete one document that has test field equal to 3.

```
db.inspections.deleteOne({ "test": 3 })
```

Inspect what is left of the inspection collection.

```
db.inspection.find().pretty()
```

View what collections are present in the sample training *collection*.

```
show collections
```

Drop the inspection collection.

```
db.inspection.drop()
```

Query Operators - Comparison

Switch to this database:

```
use sample_training
```

Find all documents where the tripduration was less than or equal to 70 seconds and the usertype was not Subscriber:

Find all documents where the tripduration was less than or equal to 70 seconds and the usertype was Customer using a redundant equality operator:

Find all documents where the tripduration was less than or equal to 70 seconds and the usertype was Customer using the implicit equality operator:

Query Operator

Find all documents where airplanes CR2 or A81 left or landed in the KZN airport: