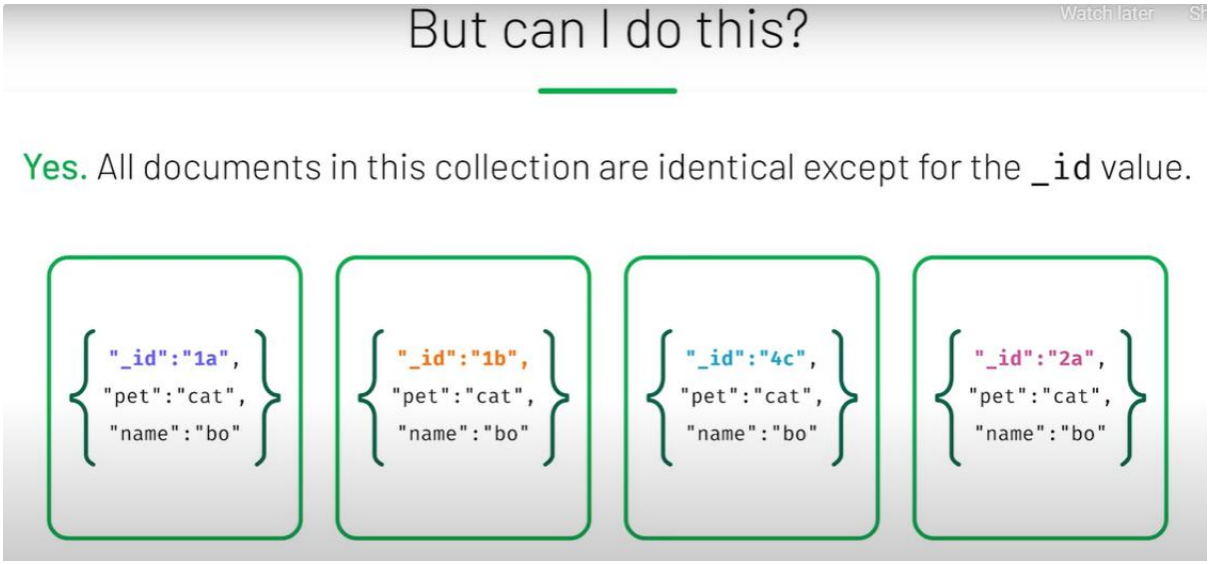
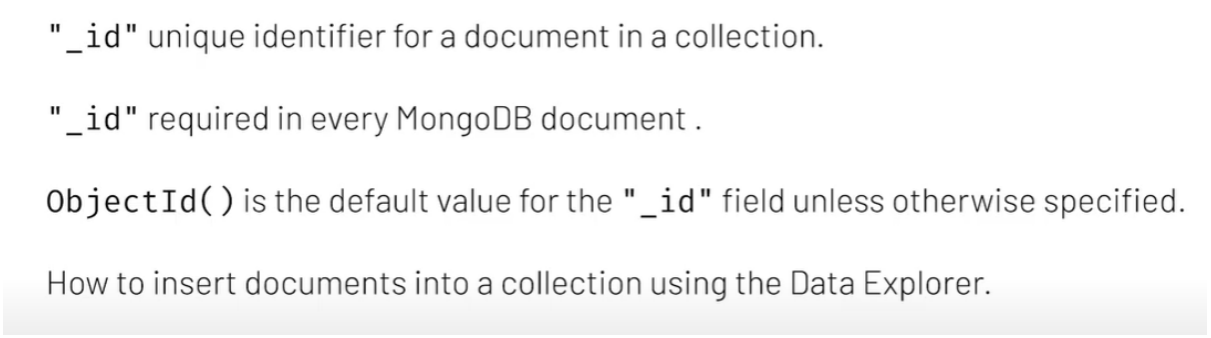
1. Inserting New Documents



- If we insert a new document mongodb generates new ObjectId() → Default value for the _id field unless otherwise specified.



2. Inserting new documents and errors

In this lesson we used the following commands:

```
mongoimport --
uri="mongodb+srv://<username>:<password>@<cluster>.mong
odb.net/sample_supplies" sales.json
```

Step one: Connect to the Atlas cluster

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

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()
```

- in last one we will remove the _id so that it is inserted.
- Querying db.inspections.find({“id”: “10465-2015-CMPL”, “certificate_number”: “9289037”}).pretty()

3. Inserting Documents:
   - *Insert three test documents:*

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

   - *Insert three test documents but specify the* `_id` *values:*

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

   - *Find the documents with* `_id: 1`

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

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

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

- *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`

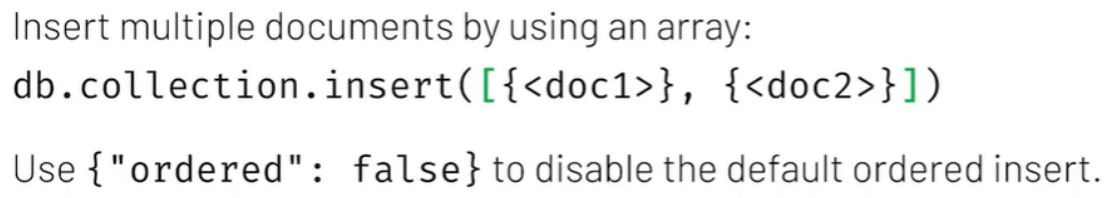
```
show collections
```

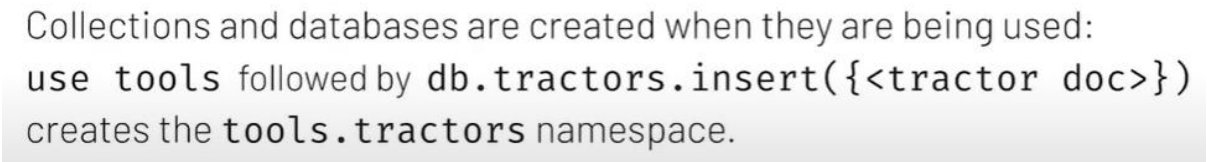
- *Switch the active* `db` *to* `training`

```
use training
```

- *View all available databases*

```
show dbs
```





4. Updating can be done over Atlas UI we can select object '-' symbol creates new record add the data and click update button.
5. MQL:
   - *Connect to your Atlas Cluster.*

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

- *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`.

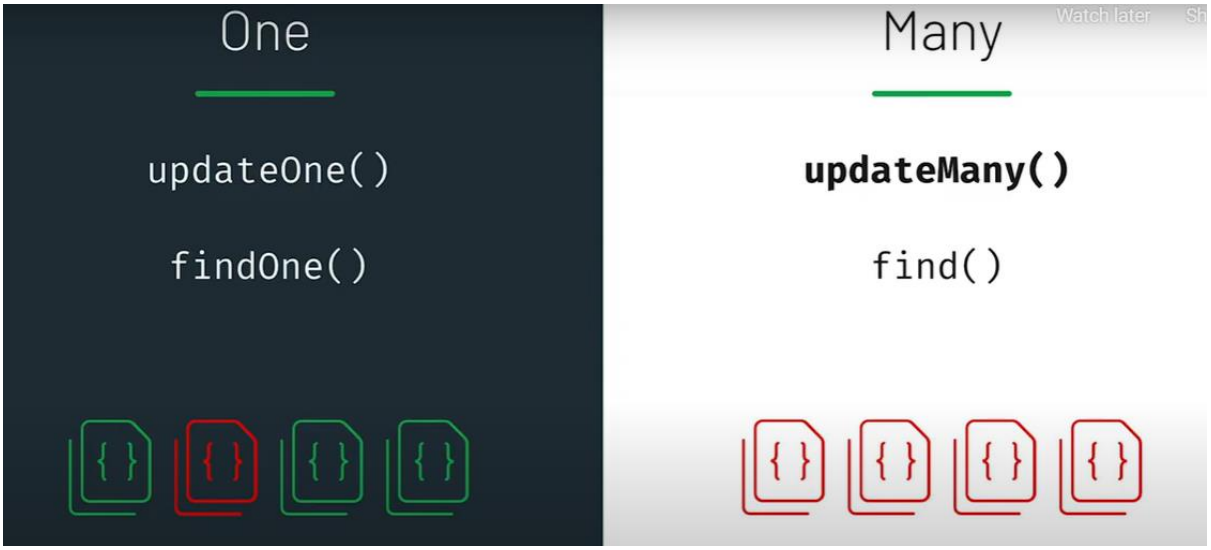
```
db.zips.updateOne({ "zip": "12534" }, { "$set": {
"population": 17630 } })
```

- *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.*
- ```
  db.grades.updateOne({ "student_id": 250, "class_id": 339 },                    { "$push": { "scores": { "type": "extra credit",
  "score": 100 }                                  }
  })
  ```
- 

- {"$inc": {"pop": 10, "<field2>": <increment value>, … }}

  increments field value by a specified amount.

  {"$set": {"pop": 17630, "<field2>": <new value>, … }}

  sets field value to a new specified value.

  { $push: { <field1>: <value1>, ... } }

  adds an element to an array field.

6. Deleting Documents

```
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()
```