

Cameron Stewart

Mini Project 4

MongoDB

Please do this using [Atlas](#) and download [Compass](#) to access the database as I showed you during the class. For Option 1, I am asking you to use Python to access MongoDB, please see [this doc](#) for instructions on using Python with MongoDB.

Just like I showed you, once you have data in the MongoDB, you can go to Compass and insert and update any records. This exercise is intended to cement your understanding of “[Document](#)” Databases.

Use MongoDB as a DB to Sales Order DB or any other sample data that you want to use. Use Compass to connect to the MongoDB and insert, update and query data from MongoDB.

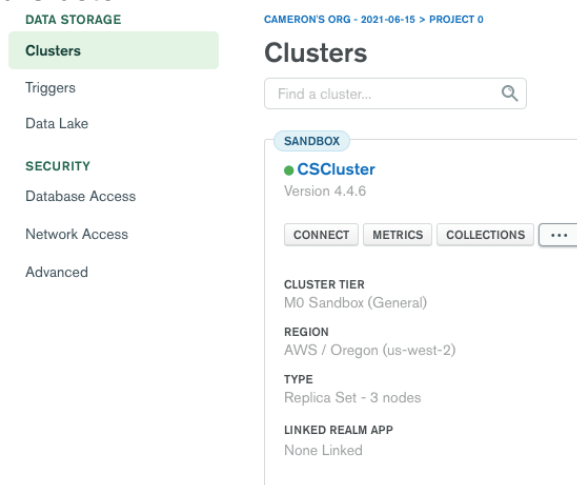
Use MongoDB as a DB to Sales Order DB or any other sample data that you want to use. Use Compass to connect to the MongoDB and insert, update and query data from MongoDB.

Solution:

I used the ‘Company’ Database from a previous project for this activity. My steps are listed below

1. Created Cluster

a.



2. Connected Compass to MongoDB Cluster

New Connection ☆ FAVORITE Fill in connection fields individually

Paste your connection string (SRV or Standard ⓘ)

a.

3. Created a Database and first Collection called Company

Create Database

Database Name

Collection Name

☐ Capped Collection ⓘ

☐ Use Custom Collation ⓘ

Before MongoDB can save your new database, a collection name must also be specified at the time of creation. [More Information](#)

a.

4. Download data from each table in 'Company' Database in MySQL Workbench to a CSV. Below, shows me doing this for the table Company from the database company. Tables transferred include Company, Employee, Manages, and Works.

1 • **SELECT * FROM** company.company;

100% 1:1

Result Grid Filter Rows: Search Edit: Export/Import:

company_n...	city
ABC	Dallas
FBC	Plano
NULL	NULL

a.

5. Import data into Collection 'Company' in the 'Company_DB' Database via the CSV. I will use this same process of creating a collection and importing data through a downloaded CSV for each collection.

Import To Collection Company_DB.Company

Select File

/Users/Camo/Documents/SMU_DS/DB Mgmt/Mini_Projects/Mini_Project_ [BROWSE](#)

Select Input File Type

JSON CSV

Options

Select delimiter: COMMA

☒ Ignore empty strings

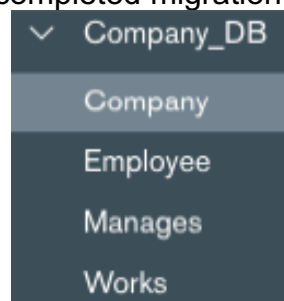
☐ Stop on errors

Specify Fields and Types

	company_name String	city String
1	ABC	Dallas
2	FBC	Plano

CANCEL IMPORT

- a.
6. View completed migration of MySQL database to MongoDB



a.

Company_DB.Company

Documents Aggregations Schema

FILTER { field: 'value' }

ADD DATA VIEW

```
{
  "_id": ObjectId("60ca862058b95a2abe33c7e5"),
  "company_name": "ABC",
  "city": "Dallas"
}
```

```
{
  "_id": ObjectId("60ca862058b95a2abe33c7e6"),
  "company_name": "FBC",
  "city": "Plano"
}
```

b.

7. Insert a Document into Company Collection

Insert to Collection Company_DB.Company

VIEW  

```
1  /**
2   * Paste one or more documents here
3   */
4  {
5    "_id": {
6      "$oid": "60ca8f716d21410250260f88"
7    },
8    "company_name": "Big_New_Company",
9    "city": "Seattle"
10 }
```

CANCEL

INSERT

a.

Company_DB.Company

Documents

Aggregations

Schema

Explai

 FILTER { field: 'value' }

 ADD DATA



VIEW







```
_id: ObjectId("60ca862058b95a2abe33c7e5")
company_name: "ABC"
city: "Dallas"
```

```
_id: ObjectId("60ca862058b95a2abe33c7e6")
company_name: "FBC"
city: "Plano"
```

```
_id: ObjectId("60ca8f716d21410250260f88")
company_name: "Big_New_Company"
city: "Seattle"
```

b.

8. Update a document in Company Collection

a.

```
> { "_id": ObjectId("60ca862058b95a2abe33c7e6"),  
  "company_name": "FBC",  
  "city": "Plano" }
```

b.

Document Modified.

CANCEL UPDATE

c.

Company_DB.Company DOCUMENTS 3

Documents Aggregations Schema

FILTER { field: 'value' }

ADD DATA VIEW

```
{ "_id": ObjectId("60ca862058b95a2abe33c7e5"),  
  "company_name": "ABC",  
  "city": "Dallas" }
```

```
{ "_id": ObjectId("60ca862058b95a2abe33c7e6"),  
  "company_name": "Toyota",  
  "city": "Plano" }
```

```
{ "_id": ObjectId("60ca8f716d21410250260f88"),  
  "company_name": "Big_New_Company",  
  "city": "Seattle" }
```

9. Query documents from Company_DB Database in Works collection. Query looks for documents where company_name = "ABC" and then sorts in ascending order by person_name.

a.

Company_DB.Works DOCUMENTS 24 TOTAL SIZE 2.2KB AVG. SIZE 92B INDEXES

Documents Aggregations Schema Explain Plan Indexes

FILTER { company_name: "ABC" } PROJECT { field: 0 } SORT { person_name: 1 } COLLATION { locale: 'simple' } MAX TIME MS 6000 SKIP 0 LIMIT 0

ADD DATA VIEW

Displaying documents 1 - 3 of 3

```
{ "_id": ObjectId("60ca8ae558b95a2abe33c806"),  
  "person_name": "Coppens",  
  "company_name": "ABC",  
  "salary": "5000.00" }
```

```
{ "_id": ObjectId("60ca8ae558b95a2abe33c815"),  
  "person_name": "Sahm",  
  "company_name": "ABC",  
  "salary": "23000.00" }
```

```
{ "_id": ObjectId("60ca8ae558b95a2abe33c816"),  
  "person_name": "Sowerby",  
  "company_name": "ABC",  
  "salary": "111000.00" }
```