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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.

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Solution:
I used the 'Company' Database from a previous project for this activity. My steps are listed below

1. Created Cluster

   a.
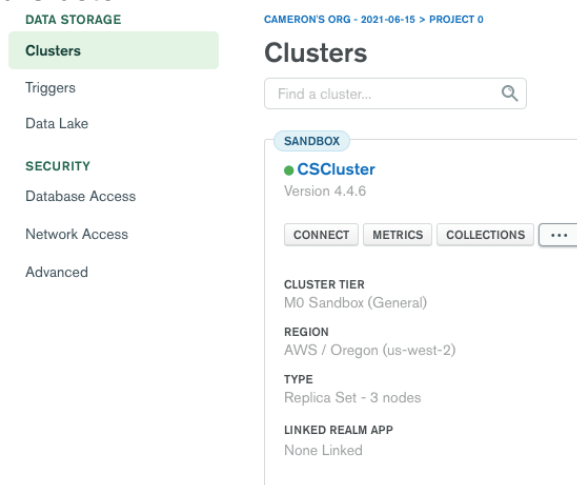
2. Connected Compass to MongoDB Cluster

a.

3. Created a Database and first Collection called Company

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.

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

⌄ Company_DB

Company

Employee

Manages

Works

a.
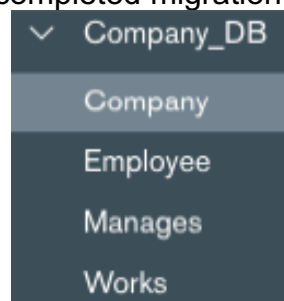
Company_DB.Company

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.

b.

c.

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.