**2-1 Assignment: CRUD in MongoDB**

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CS-340-T3341 Client/Server Development 23EW3

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1. **Using the mongoimport tool, load the database:**

**cd /usr/local/datasets #apporto data sets**

**/usr/local/bin/mongod\_ctl start-noauth #Mongodb nooauth**

**mongoimport –port 39040 –db city –collection inspections ./city\_inspections.json**

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1. **Verify your load:**

Graphical user interface, text

Description automatically generated> use city

> db.inspections.find({“id” : “10021-2015-ENFO”})

> db.inspections.find({

... “result”: “Out of Business”},

... {“business\_name”: 1}).limit(10)

1. **Insert a document and verify:**

**a. Insert**

> db.inspections.insertOne({

... id : “20032-2020-ACME”,

... business\_name : “ACME Explosives”,

... date : Date(),

... result : “Business Padlocked”,

... sector : “Explosives Retail Dealer-999”,

... address : {

... “number” : “1721”,

... “street” : “Boom Road”,

... “city” : “BRONX”,

... “zip” : “10463”}})

**b. Verify**

> db.inspections.findOne({“id”:”20032-2020-ACME})

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1. **Answer the following questions using MongoDB queries.**
2. **What is the distinct list of inspection “sector” in the current inspections collection? How many are in the list? Do not count by hand.**

To find the what the distinct list of “sector” in the inpections collection I used:

> db.inspections.distinct(“sector”)

Background pattern

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The “sector” list describes the type of service the company provides.

There are 87 sectors on the list.

>db.inspections.distinct(“sector”).length

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1. **What is the difference in the date data type for the business named “AUSTIN 2012” versus your business document insertion of “Acme Explosives”?**

To locate the differences in the two documents I used the find().pretty()

db.inspections.find({“business\_name”:”AUSTIN 2012”}).pretty()

db.inspections.find({“business\_name”: “ACME Explosives”}).pretty()

There are several key differences in the data bewtween the two doccuments with the business name, “AUSTIN 2012” and “ACME Explosives”.

* 1. certificate\_numer, In “AUSTIN 2012” the Number is NOT in quotations, whereas “ACME Explosives” certificate\_number is quotated.
  2. The date format in “AUSTIN 2012” is “Month Day Year” (MMM, DD, YYYY), and “ACME Explosives” has a “date time” format “Day Month date Year time and time zone” (DDD MMM DD YYYY HH:MM:SS UTC +/- 00:00)
  3. Lastly the Adress format has a different order
     1. “AUSTIN 2012” : CITY, ZIP, STREET, NUMBER
     2. “ACME Explosives”: NUMBER, STREET, CITY, ZIP

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1. **How many businesses have a “Violation Issued”? (See Value column above.)**

After entering the following command, 13823 Business has a violation issued.

>db.inspections.count({result”:”Violation Issued”})

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1. **Update Document with the ID “20032-2020-ACME”**

db.inspections.updateOne(

{

$set:

{

business name: “New ACME Flowers”,

result: “Business Re-Opened”,

Comments : “Flowers after the Explosion”

}

},

{ upsert: true }

)

Text

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1. **Update all “ROSEDALE” documents** 
   1. **change the zip to 76114**

db.inspections.updateMany({“address.city” : “ROSEDALE”},{$set: {“address.zip” : 76114}})

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* 1. **remove the first document with key-value pair “result”:”violation issued”**
     1. **db.inspections.find({“result”: “Violation Issued”}).pretty()**
     2. **db.inspections.find({“result”: “Violation Issued”}).count()**
     3. **try {**

**db.inspections.deleteOne({“result”: “Violation Issued”})**

**} catch (e) {**

**print (e);**

**}**

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* 1. **Verify** 
     1. **db.inspections.find({“result”: “Violation Issued”}).pretty()**
     2. **db.inspections.find({“result”: “Violation Issued”}).count()**

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