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CS-340-T4528

2-1 Assignment: CRUD in MongoDB

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**CRUD in MongoDB**

1. The data set for this assignment, city\_inspections.json, has already been loaded into the Apporto environment for you. **Using the mongoimport tool, load the database** “city” with documents found in the city\_inspections.json file into the “inspections” collection. Complete this by typing the following commands in the Linux terminal to perform the import in the right directory:

cd /usr/local/datasets/ #change into the Apporto directory with the data sets

mongoimport --db city --collection inspections ./city\_inspections.json #mongo import utility

TIP: In any Linux systems, commands must be exact and use proper syntax and case sensitivity.  
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1. **Verify your load** by switching to the “city” database and issuing the following queries in the mongo shell:
   1. db.inspections.find({"id" : "10021-2015-ENFO"})  
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   2. db.inspections.find({"result":"Out of Business"},{"business\_name":1}).limit(10)

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Provide **screenshots** of the results as evidence.

|  |  |
| --- | --- |
| **Key** | **Value** |
| id | “20032-2020-ACME” |
| certificate\_number | 9998888 |
| business\_name | “ACME Explosives” |
| date | Today’s date |
| result | “Business Padlocked” |
| sector | “Explosive Retail Dealer-999” |
| address | number -> 1721  street -> Boom Road  city -> BRONX  zip -> 10463 |

1. Using the appropriate commands in the mongo shell, **insert a document** to the database named “city” within the collection named “inspections.” Use the following key-value pairs as data for your document.

Be sure the address is inserted as a sub-document, and use the JavaScript function **Date()** for “Today’s date.” Verify your database creation and insertion using the findOne() function in the mongo shell. Provide a **screenshot** as evidence.

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1. Answer the following questions using **MongoDB queries**.
   1. What is the distinct list of inspection “sector” in the current inspections collection? How many are in the list? Do not count by hand.  
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   2. What is the difference in the date data type for the business named “AUSTIN 2012” versus your business document insertion of “Acme Explosives”?  
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      The formatting for the date is different. In our ACME example we added the date in using the Date() function. In the AUSTIN example the date is manually typed in instead of using the Date() function.
   3. How many businesses have a “Violation Issued”? (See **Value** column above.)  
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Verify by providing **screenshots** of the queries and results as evidence.

1. Using the appropriate command in the mongo shell, **update the document** with the ID “20032-2020-ACME” in the collection “inspections” in the database “city” with the information below.

|  |  |
| --- | --- |
| **Key** | **Value** |
| business\_name | "New ACME Flowers" |
| result | "Business Re-opened" |
| comments | "Flowers after the explosion" |

Verify your database update using the appropriate **find()** function in the mongo shell. Provide a **screenshot** as evidence. Text

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1. Using the database “city” with documents found in the “inspections” collection, perform the tasks listed below. Verify by providing **screenshots** of the results as evidence.
   1. **Update all the documents** that contain the key-value pair "city":"ROSEDALE" in the address subdocument by changing the zip code in the address subdocument to "76114".  
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   2. **Remove the first document** with the key-value pair "result":"Violation Issued."

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