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| SNHU CS-340 Client/Server Development 22EW2 |
| Module Two Assignment |
| Emily Wood |

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| emily.wood7@snhu.edu  10-31-2022 |

1. The data set for this assignment, city\_inspections.json, is in the /usr/local/datasets directory in your environment in Apporto. Using the mongoimport tool, load the database “city” with documents found in the city\_inspections.json file into the “inspections” collection.  
     
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2. Verify your load by “using” the “city” database, and issuing the following queries in the mongo shell:
   1. db.inspections.find({“id” : “10021-2015-ENFO”})

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* 1. db.inspections.find({“result” : “Out of Business”}, {“business\_name” : 1}).limit(10)

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1. Using the appropriate commands in the mongo shell, insert a document to the database named “city” within the collection named “inspections.” 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.

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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.  
        
      There are 87 distinct sectors. This can be found using the .length command.

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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”?  
       
     There is no difference in the date data **type**. They are both listed as string. However, because we inserted a date object, it has much more information including time.

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* 1. How many businesses have a “Violation Issued”? (See **Value** column above.)  
       
     There were 13,823 businesses that had a “Violation Issued.”

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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.”

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1. Using the database “city” with documents found in the “inspections” collection, perform the tasks listed below.
   1. Update all 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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* 1. Remove the first document with the key-value pair “result” : “Violation Issued.”

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