**CRUD in MongoDB**

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CS 340 – Client/Server Development

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**Each page of this document contains a screenshot of each command that was executed…**

1. Loading of the data set (step 1):

A screenshot of a computer

Description automatically generated

1. Verifies load of the data set by using the city database and executing the find function (step 2-a):

A screenshot of a computer program

Description automatically generated

1. Verifies load of the data set by using the city database and executing the find function (step 2-b):

A screenshot of a computer program

Description automatically generated

1. Inserts a document to the database named “city” within the collection named “inspections.” Uses the findOne() function to verify the document was successfully inserted (step 3):

A screenshot of a computer screen

Description automatically generated

1. The following screenshot answers the question – what is the distinct list of inspection “sector” in the current inspections collection? (Step 4-a-1):

A screenshot of a computer program

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1. The following screenshot answers the question – How many are in the list? Do not count by hand (step 4-a-2):

A screenshot of a computer

Description automatically generated

1. The following screenshot answers the question – What is the difference in the date data type for the business named “AUSTIN 2012” versus your business document insertion of “ACME Explosives”? (Step 4-b):

A screenshot of a computer

Description automatically generated

Both data types are of the type string. However, the document that I created is more detailed which includes the name of the day of the week and time zone details.

1. The following screenshot answers the question – how many businesses have a “Violation Issued”? (Step 4-c):

A screenshot of a computer

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1. The following screenshot verifies that the document with the ID “20032-2020-ACME” in the inspections collection was successfully updated (Step 5):

A screenshot of a computer screen

Description automatically generated

1. The following screenshot shows the execution of the updateMany function to update all documents that contain the key-value pair “city”:”ROSEDALE” in the address subdocument with an updated zip code to 76114 (Step 6-a):

A screenshot of a computer screen

Description automatically generated

1. The following screenshot shows that the updateMany function that was executed was successful (Step 6-a):

A screenshot of a computer program

Description automatically generated

1. The following is a screenshot of the first document (top-level document) with the key-value pair “result”:”Violation Issued” (Used as a before picture for step 6-b):

A screenshot of a computer program

Description automatically generated

1. The following is a screenshot of the first document (top-level document) with the key-value pair “result”:”Violation Issued” being deleted and the findOne() function being used to show that the new top-level document is not the same as shown in the previous screenshot (Step 6-b):

A screenshot of a computer

Description automatically generated