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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 a few ways we can retrieve the information for the total number of sectors in our inspection database but for me I simply used the command:

console.log(db.inspections.stats().count);

which returned 81048.

To be sure there were no replica sectors in the database I wrote a conditional the checked and then created two variables that I could print holding that information such as :

const SectorNames = {};

const sectorCount = 0;

db.inspections.find().forEach(doc => {

if (doc.sector in SectorNames){

return;

}else{

SectorNames[doc.sector]=true;

sectorCount += 1;

}

}

)

The code that I wrote stores the total number of elements in the sectorCount variable and all the different sectore names if SectorNames.

So, when I print sectorCount I get 81135 and then I print the length of sectorNames which gives me 87

The answer is 87 without counting by hand….SCREENSHOTS below:

A computer screen shot of a code

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= true beside [doc.sector]

A close up of a computer screen

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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 main difference between the dates in the documents for “AUSTIN 2012” and “Acme Explosives” is the type of data used to represent the date. In the document for “AUSTIN 2012,” the date is stored as a string in the format 'Dec 23 2015'. This means the date is treated as plain text and cannot be used for calculations or comparisons directly in MongoDB. For example, you cannot easily filter or sort by this date without first converting it to a proper date format.

On the other hand, the date in the document for “Acme Explosives” is stored as an ISODate object, specifically in the format ISODate("2025-01-11T00:32:24.644Z"). This is MongoDB's native way of handling dates. Unlike the string format, the ISODate type allows you to use the date in queries, such as finding all documents where the date is greater than a specific value. It is also timezone-aware, making it more accurate and reliable for sorting, filtering, and performing date-related calculations.

Using the ISODate format is generally better for storing and working with dates in MongoDB because it allows the database to handle the dates efficiently and consistently. The string format, while readable, requires extra steps to convert it into a usable date format, which can lead to errors or inefficiencies. This is why the “Acme Explosives” document has a clear advantage when it comes to managing and querying the date field.

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

Using the command

db.inspections.find({result: "Violation Issued"}).count()

it returns 13823 out of 81048 businesses that have a Violation Issued



5) when answering this problem I used the capitalization that was used in the assignment Rubric and it just happened to be different then what was in the doc so it just create new fields as such below:

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So I $unset the Result field and then updated the correct result

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