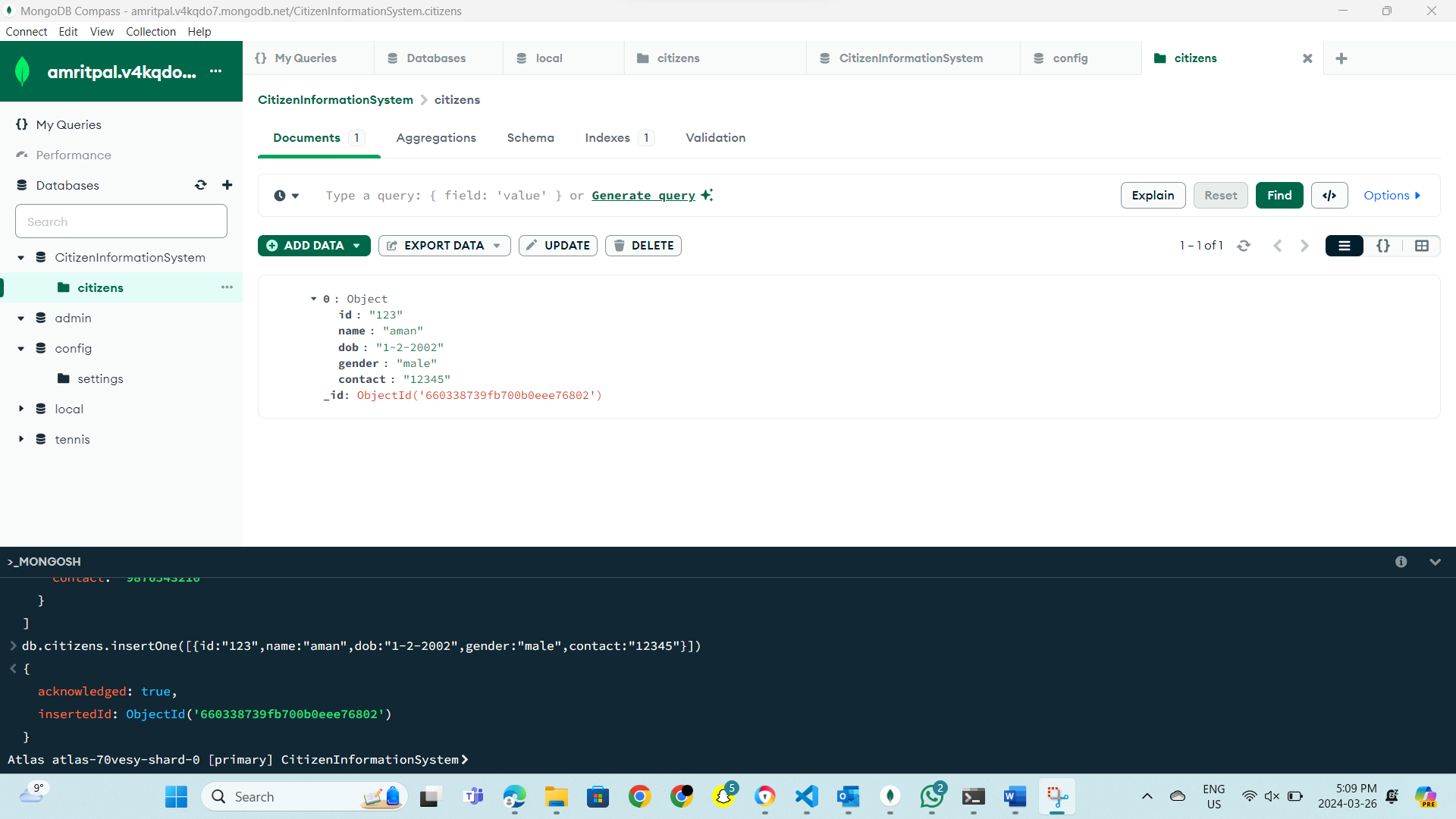
IN CLASS ASSIGNMENT 4

PORTFOLIO PROJECT (USING GIT HUB)

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STDENT ID – 500228902



In this I have created the database according to my project and I have given the database name to it that is: - Citizeninformationsystem, furthermore I created a collection named citizens . Moreover, I inserted one document using insert One.

- Create 2 documents in one of the collection using insertMany() (using mongosh, take screenshot)

Populate all the collections with atleast 10 documents each (using mongosh, take screenshot)

A screenshot of a computer

Description automatically generatedI have used insert Many command and inserted 3 documents at a time.

A screenshot of a computer

Description automatically generated

The results of Insert Many

A screenshot of a computer

Description automatically generated Insert Many

A screenshot of a computer

Description automatically generated

The results of Insert Many

- Create a document in one of the collections using insertOne() (using mongosh, take screenshot)

A screenshot of a computer

Description automatically generatedThe results of Insert One

A screenshot of a computer

Description automatically generated

I have added all the 5 collections for my database. Also I have entered all the data in the collection.

- Update 1 document using updateOne() command - (using mongosh, take screenshot)

A screenshot of a computer

Description automatically generated

Update one

- Update multiple documents using updateMany() command - (using mongosh, take screenshot)

A screenshot of a computer

Description automatically generated

Update many

- Read one document using findOne() command - (using mongosh, take screenshot)

A screenshot of a computer

Description automatically generated

Find one

- Read documents using find() command (using mongosh, take screenshot)

A screenshot of a computer

Description automatically generated

Find many

A screenshot of a computer

Description automatically generated

Result of find many

- Delete one document using deleteOne() (using mongosh, take screenshot)

A screenshot of a computer

Description automatically generated

Delete one

- delete multiple documents using deleteMany() (using mongosh, take screenshot)

multiple

A screenshot of a computer

Description automatically generated

Delete many

Show implementation of 7 different mongodb aggregation functions

A screenshot of a computer

Description automatically generated

$match

A screenshot of a computer

Description automatically generated

$group

A screenshot of a computer

Description automatically generated

$project

A screenshot of a computer

Description automatically generated

$count

A screenshot of a computer

Description automatically generated

$limit

A screenshot of a computer

Description automatically generated

$set

A screenshot of a computer

Description automatically generated

$sort

Show at least 3 different aggregation pipelines using MongoDB - show a chain of at least 3 different functions in each pipeline

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Create indexes based on the workload excel file.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

check execution stats for each query (using mongosh, take screenshot)

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated