## Assignment-4: Creating a Database Using MongoDB and Mongosh

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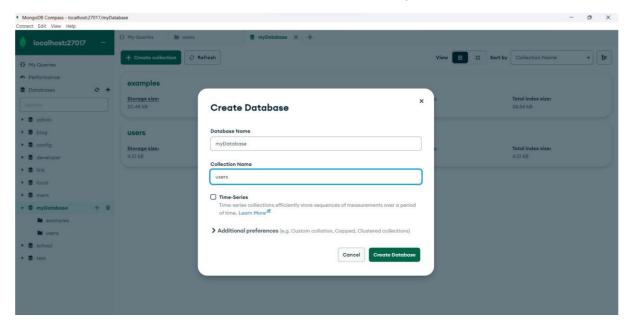
Roll number: 2022MCA16078

Assignment-4: Creating a Database Using MongoDB and Mongosh

**College name:** Sri Padmavati Mahila Visvavidyalayam

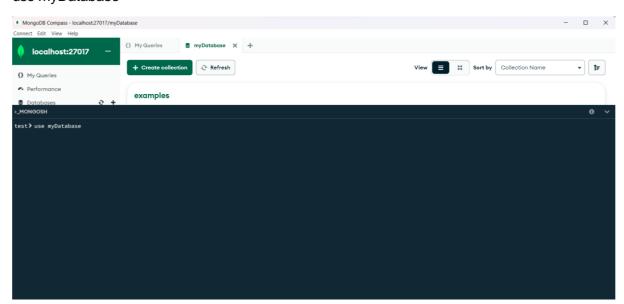
**<u>Database Setup:</u>** Create a new MongoDB database called 'myDatabase'.

<u>Collection Creation</u>: Create a collection named users within the myDatabase database.



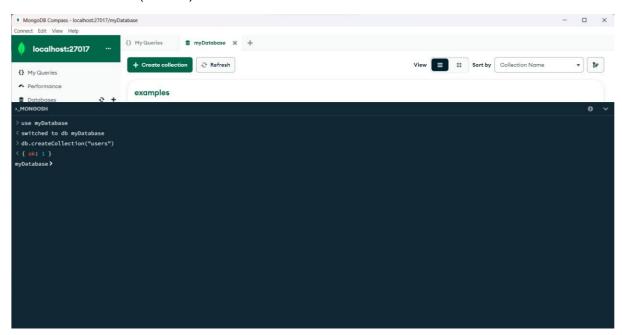
Below are the steps to achieve the tasks using MongoDB commands: **Database setup in MONGOSH:** 

use myDatabase

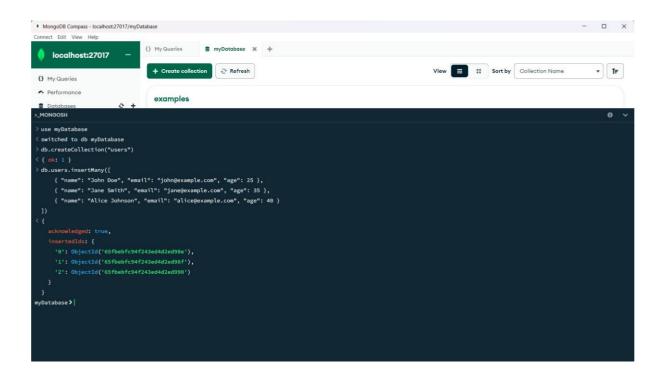


## **Collection Creation in MONGOSH:**

db. createCollection("users")

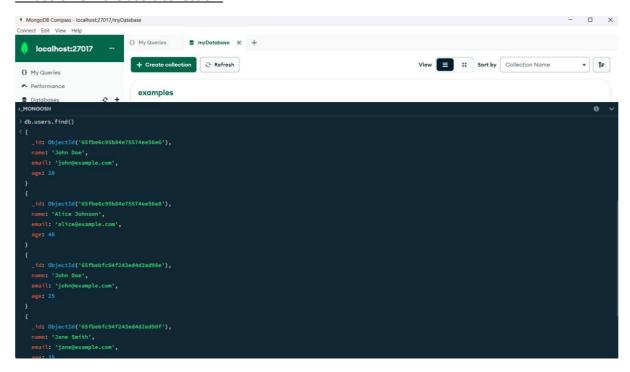


<u>Document Insertion:</u> Insert at least three documents into the users collection, each representing a user with fields such as name, email, and age.

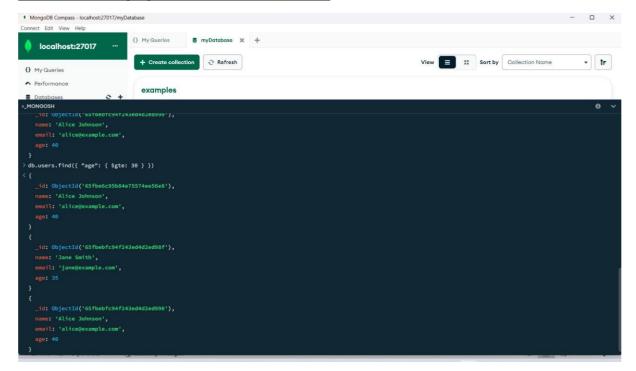


**Querying:** Write queries to retrieve: All users from the users collection. Users with an age greater than or equal to 30.

## All users from the users collection:

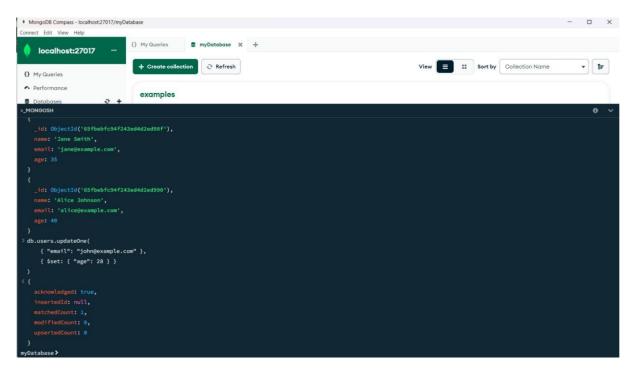


## Users with an age greater than or equal to 30:



**<u>Update Operation:</u>** Update the age of a user with a specific email address.

Update the age of a user with a specific email address (e.g., "john@example.com"):



**<u>Deletion Operation</u>**: Delete a user document based on a specific email address.

Delete a user document based on a specific email address (e.g., "jane@example.com"):

```
}
> db.users.deleteOne({ "email": "jane@example.com" })
<{
    acknowledged: true,
    deletedCount: 1
}

mupatabase > |
```

<u>Index Creation:</u> Create an index on the email field of the users collection.

Create an index on the email field of the users collection:

```
> db.users.createIndex({ "email": 1 })
< email_1
myDatabase >
```