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

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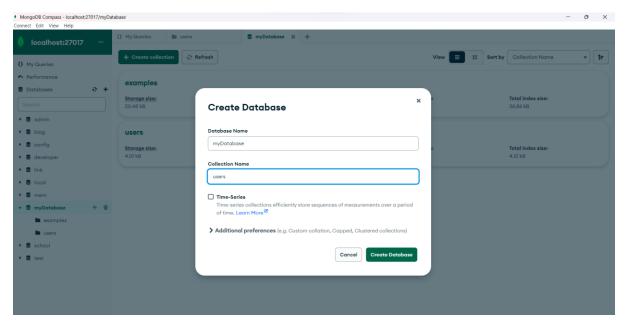
Roll number: 2022MCA16010

Assignment-4: Creating a Database Using MongoDB and Mongosh

College name: Sri Padmavati mahila visvavidyalayam

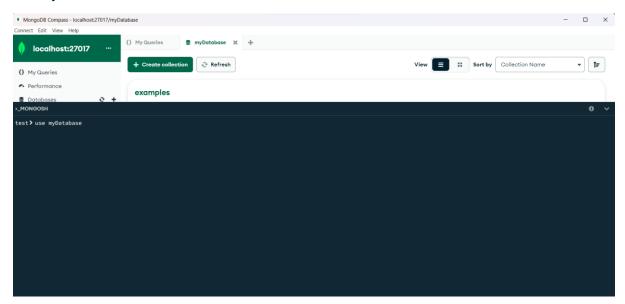
**<u>Database Setup:</u>** Create a new MongoDB database called 'myDatabase'.

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



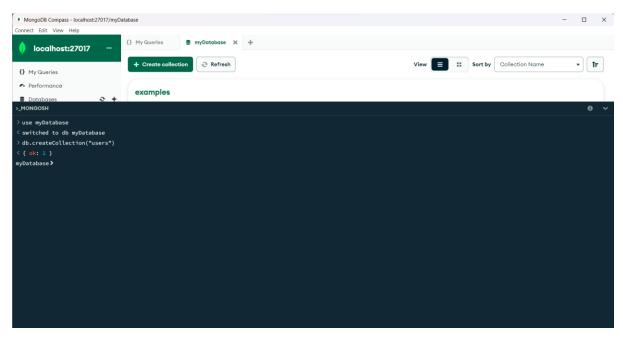
Below are the steps to achieve the tasks using MongoDB commands: **Database setup in MONGOSH**:

#### use myDatabase

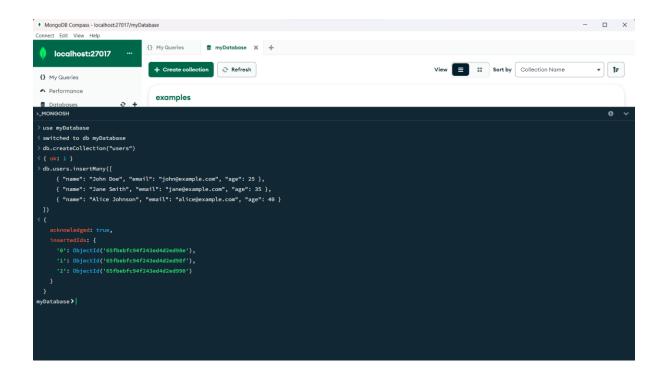


### **Collection Creation in MONGOSH:**

db. createCollection("users")

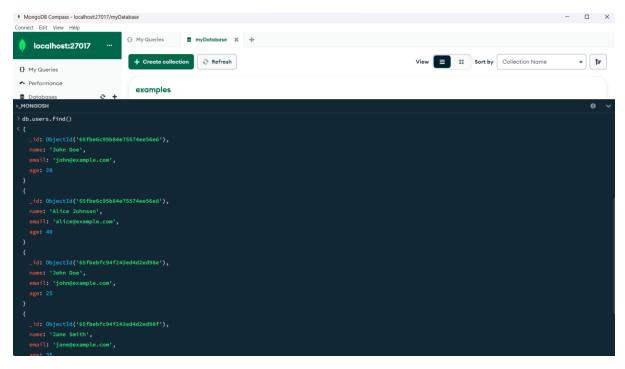


<u>Document Insertion:</u> Insert at least three documents into the users collection, each representing a user with fields such as name, email, and age.



**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
  }
myOatabase>
```

**Index Creation:** 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 > |
```