Creating a Database Using MongoDB and Mongosh

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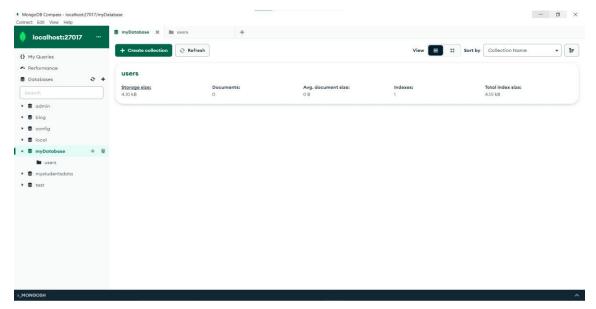
1. Database Setup:

• Open the mongoDB compass

• Create a new MongoDB database: myDatabase

2. Collection Creation:

• Create a collection within database: users

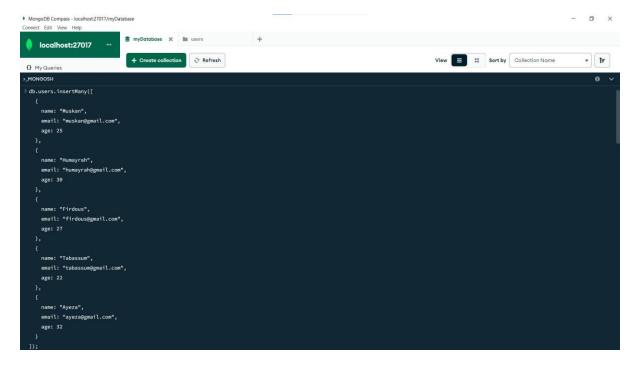


3. Document Insertion:

- Insert five documents into the users collection, each representing a user with fields such as name, email, and age.
- Before inserting into collection "use db" command to switch the current database context within MongoDB.



• db.users.insertMany() method is used to insert the documents into users collection as shown below.



4. Queries to retrieve:

- To retrieve all the users from the users collection.
 - o db.users.find({ });

• To retrieve the specific users with an age greater than or equal to 30

```
o db.users.find({ age: { $gte: 30 } });
```

5. Update Operation:

- To update the age of a user with a specific email address in MongoDB, use the updateOne() method.

);

```
db.users.updateOne(
    { email: "muskan@gmail.com" },
    { $set: { age: 20 } }
);

<{{
      acknowledged: true,
      insertedId: null,
      matchedCount: 1,
      modifiedCount: 1,
      upsertedCount: 0
}</pre>
```

6. Deletion Operation:

- To delete the user document based on a specific email address in MongoDB, you can use the deleteOne() method.
 - o db.users.deleteOne({email: firdous@gmail.com});

```
db.users.deleteOne({ email: "firdous@gmail.com" });

< {
    acknowledged: true,
    deletedCount: 1
}</pre>
```

7. Index Creation:

- To create an index on the email field of the users collection in MongoDB, use the db.users.createIndex() method.
 - o db.users.createIndex({ email: 1 });

Final Outcome:

