Creating a Database Using MongoDB and Mongosh

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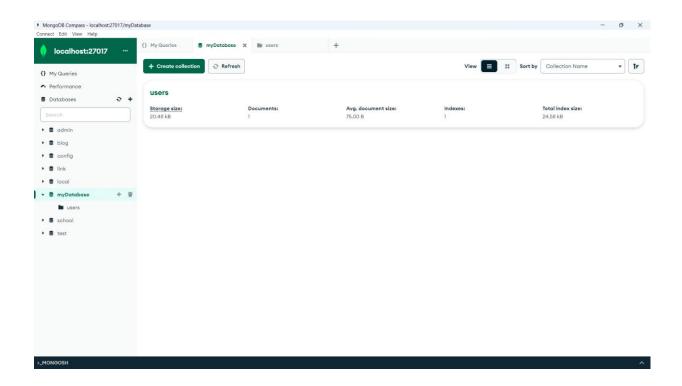
1. Database Setup:

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.

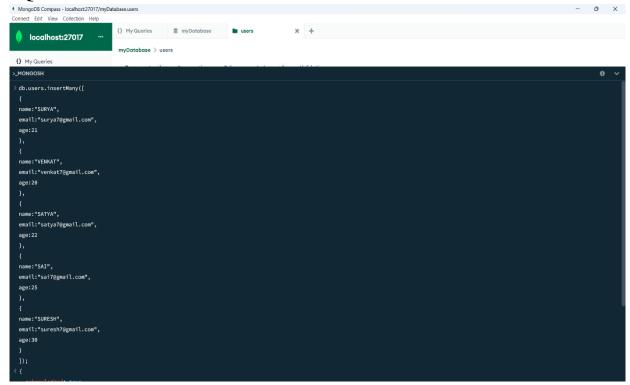
```
>_MONGOSH

> use myDatabase

< switched to db myDatabase
```

• 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

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

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

<{
    _id: ObjectId('65ff0459b5b914df99e5ec87'),
    name: 'SURESH',
    email: 'suresh7@gmail.com',
    age: 30
  }

myDatabase>
```

5. Update Operation:

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

 $\circ\ db.users.updateOne($

```
{ email: "surya7@gmail.com" },
{ $set: { age: 20 } }
```

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:sai7@gmail.com});
```

```
> db.users.deleteOne({email:"sai7@gmail.com"});

< {
    acknowledged: true,
    deletedCount: 1
  }

myDatabase >
```

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:

