Creating a Database Using MongoDB and Mongosh

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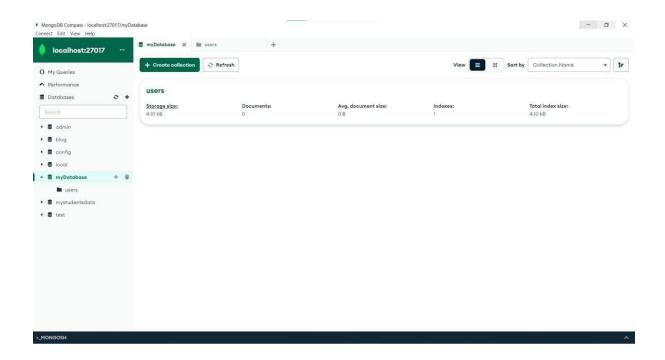
1. Database Setup:

• 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 22

```
o db.users.find({ age: { $gte: 22 } });
```

```
> db.users.find({age:{$qte:22}});

<{
    _id: ObjectId('65fdcaa4e25bd2ef7b29ab7'),
    name: 'kintaeyung',
    age: 24
}

{
    _id: ObjectId('65fdcaa4e25bd2ef7b29ab8'),
    name: 'yangyang',
    email: 'yangggmail.com',
    age: 25
}

{
    _id: ObjectId('65fdcaa4e25bd2ef7b29ab8'),
    name: 'yanggangil.com',
    age: 25
}

{
    _id: ObjectId('65fdcaa4e25bd2ef7b29ab9'),
    name: 'bie',
    email: 'bie@gmail.com',
    age: 24
}</pre>
```

5. Update Operation:

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

```
o db.users.updateOne(
```

```
{ email: "sure24@gmail.com" },
{ $set: { age: 22 } }
```

```
> db.users.updateOne(
    { email:"sure24@gmail.com"},
    { $set: { age: 22}}
    );
    <{ {
        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:yangyang@gmail.com});

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

< {
    acknowledged: true,
    deletedCount: 0
}</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:

