Creating a Database Using MongoDB and Mongosh

Name : Jogi Kanaka Mahalakshmi

Email : 208x1a4216@khitguntur.ac.in

Phone no : 7989178784 Roll No : 208x1a4216

College : Kallam Haranadhareddy Institute of Technology.

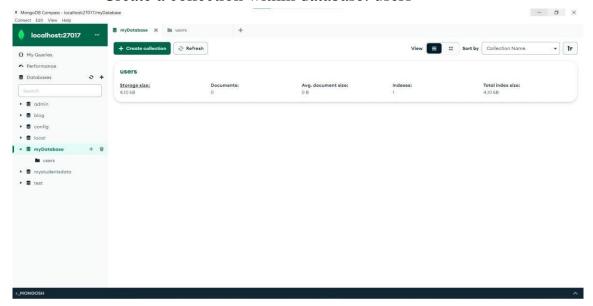
1. Database Setup:

• 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.

```
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| Image: Transformation of Trans
```

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 } });

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

{
    _id: ObjectId('65fd33f44ec317e6e9bf8684'),
    name: 'Humayrah',
    email: 'humayrah@gmail.com',
    age: 30
}

{
    _id: ObjectId('65fd33f44ec317e6e9bf8687'),
    name: 'Ayeza',
    email: 'ayeza@gmail.com',
    age: 32
}
```

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:

