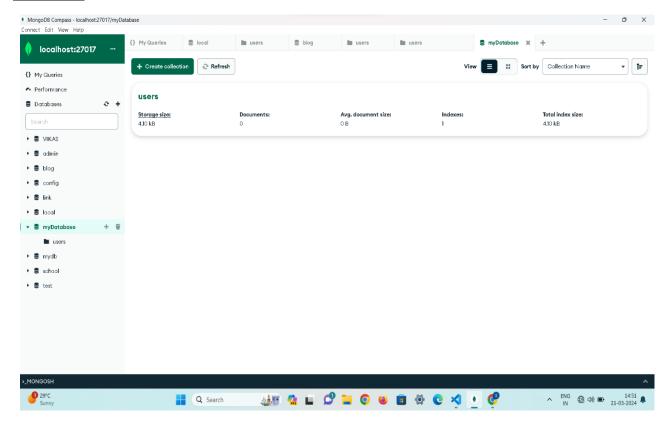
- 1. Database Setup: Create a new MongoDB database called myDatabase
- 2. Collection Creation: Create a collection named users within the myDatabase database.

Using mongosh:

use myDatabase
switched to db myDatabase
db.createCollection("users")
{ ok: 1 }

Output: -

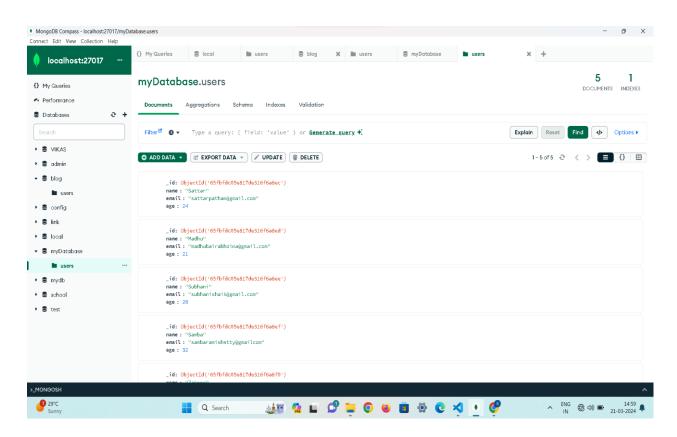


3.Document Insertion: Insert at least three documents into the users collection, each representing a user with fields such as name, email, and age.

```
db.users.insertMany([{"name":"Sattar","email":"sattarpathan@gmail.com","age":24},{"name":"Madhu","email":"madhubairabhoina@gmail.com","age":21},{"name":"Subhani","email":"subhanishaik@gmail.com","age":26},{"name":"Samba","email":"sambaramishetty@gmailcom","age":32},{"name":"Zakeer","email":"zakeerbilla@gmail.com","age":35}])
```

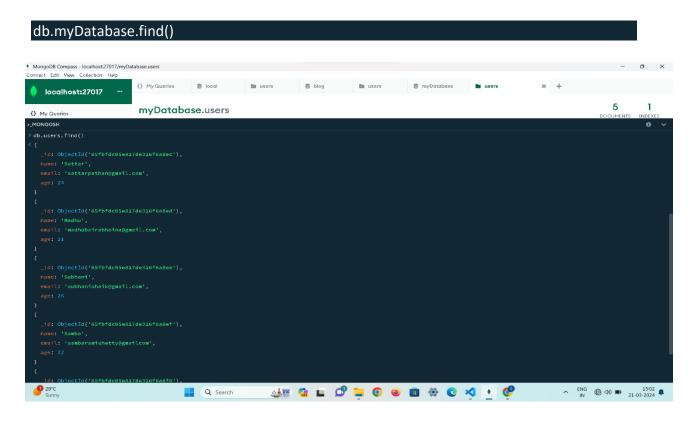
```
acknowledged: true,
insertedIds: {
   '0': ObjectId('65fbfdc05e817de316f6a8ec'),
   '1': ObjectId('65fbfdc05e817de316f6a8ed'),
   '2': ObjectId('65fbfdc05e817de316f6a8ee'),
   '3': ObjectId('65fbfdc05e817de316f6a8ef'),
   '4': ObjectId('65fbfdc05e817de316f6a8f0')
}
```

Output: -



4.Querying: Write queries to retrieve:

1.All users from the users collection



2.Users with an age greater than or equal to 30.

```
>_MONGOSH

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

< {
    _id: ObjectId('65fbfdc05e817de316f6a8ef'),
    name: 'Samba',
    email: 'sambaramishetty@gmailcom',
    age: 32
}
{
    _id: ObjectId('65fbfdc05e817de316f6a8f0'),
    name: 'Zakeer',
    email: 'zakeerbilla@gmail.com',
    age: 35
}
myDatabase</pre>
```

3. Update Operation: Update the age of a user with a specific email address.

4. Deletion Operation: Delete a user document based on a specific email address.

```
>_MONGOSH

> db.users.deleteOne({"email":"madhubairabhoina@gmail.com"})

< {
    acknowledged: true,
    deletedCount: 1
  }

> db.users.find()

< {
    _id: ObjectId('65fbfdc05e817de316f6a8ec'),
    name: 'Sattar',
    email: 'sattarpathan@gmail.com',
    age: 23
}

{
    _id: ObjectId('65fbfdc05e817de316f6a8ee'),
    name: 'Subhani',
    email: 'subhanishaik@gmail.com',
    age: 26
}

{
    _id: ObjectId('65fbfdc05e817de316f6a8ef'),
    name: 'Samba',
    email: 'sambaramishetty@gmailcom',
    age: 32
}

{
    _id: ObjectId('65fbfdc05e817de316f6a8ef'),
    name: 'Sambaramishetty@gmailcom',
    age: 32
}

{
    _id: ObjectId('65fbfdc05e817de316f6a8f0'),
    _page: J7alcom',
    _age: J7alcom
```

5.Index Creation: Create an index on the email field of the users collection.

```
db.users.createIndex({"email":1})
email_1
db.users.getIndexes()
[
    { v: 2, key: { _id: 1 }, name: '_id_' },
    { v: 2, key: { email: 1 }, name: 'email_1' }
]
```

