### Assignment – 4

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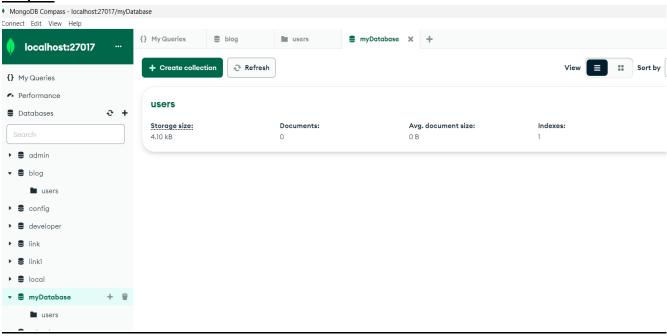
- 1. Database Setup: Create a new MongoDB database called myDatabase
- 2. Collection Creation: Create a collection named users within the myDatabase database.

Using mongosh:

use myDatabase switched to db myDatabase db.createCollection('users')

{ ok: 1 }

#### **Output:**

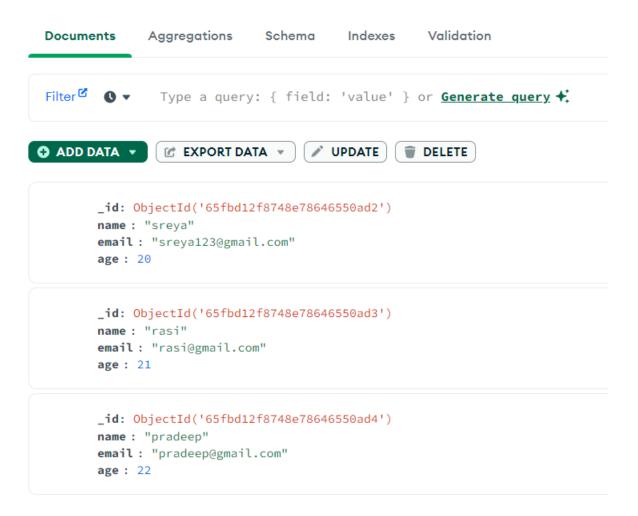


# 3.Document Insertion: Insert at least three documents into the users collection, each representing a user with fields such as name, email, and age.

```
Db.users.insertMany([{'name':'sreya','email':'sreya123@gmail.com','age':20},{'name':'rasi','email':'rasi@g mail.com','age':21},{'name':'pradeep','email':'pradeep@gmail.com','age':22}]) {
    acknowledged: true,
    insertedIds: {
        '0': ObjectId('65fbcd518748e78646550acf'),
        '1': ObjectId('65fbcd518748e78646550ad0'),
        '2': ObjectId('65fbcd518748e78646550ad1')
    }
}
```

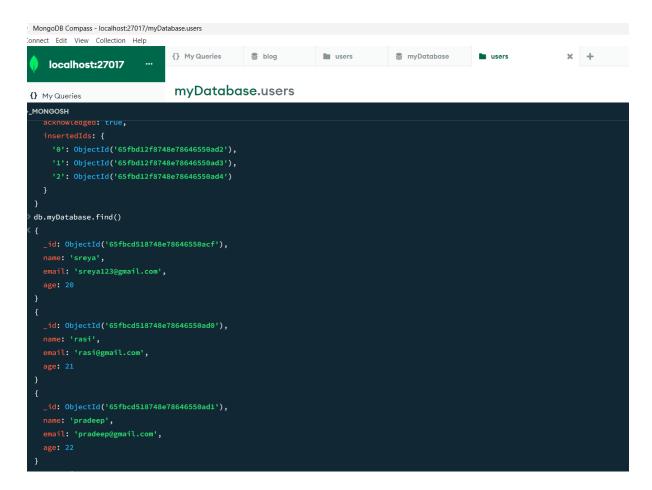
#### Output:

## myDatabase.users



#### 4. Querying: Write queries to retrieve:

#### 1.All users from the users collection



2. Users with an age greater than or equal to 20.

```
> db.users.find({age:{$gt:20}})

< {
    _id: ObjectId('65fbd12f8748e78646550ad3'),
    name: 'rasi',
    email: 'rasi@gmail.com',
    age: 21
}

{
    _id: ObjectId('65fbd12f8748e78646550ad4'),
    name: 'pradeep',
    email: 'pradeep@gmail.com',
    age: 22
}</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.

```
> db.users.deleteOne({'email':'sreya123@gmail.com'})

{
    acknowledged: true,
    deletedCount: 1
}

> db.users.find()

{
    _id: ObjectId('65fbd12f8748e78646550ad3'),
    name: 'rasi',
    email: 'rasi@gmail.com',
    age: 21
}

{
    _id: ObjectId('65fbd12f8748e78646550ad4'),
    name: 'pradeep',
    email: 'pradeep@gmail.com',
    age: 22
}
```

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

