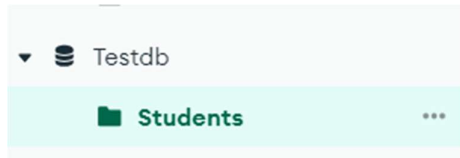


Name: Agastya Kumar Yadav

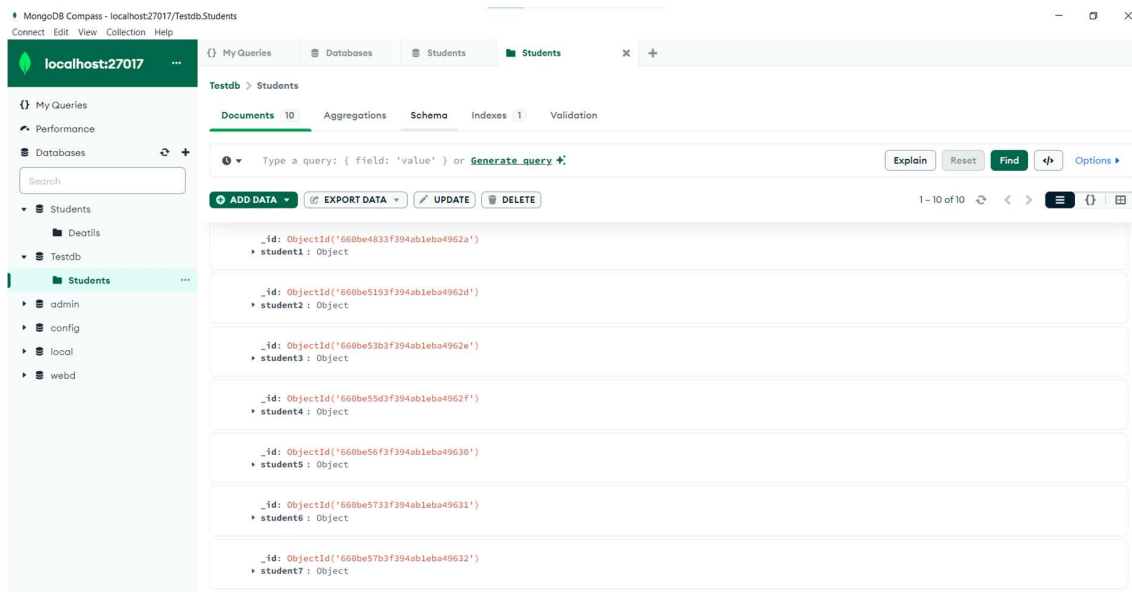
Roll no :22cs3003

Create a new database named "testdb" in MongoDB Compass.

Create a new collection named "students" in the "testdb" database.



Insert ten documents into the "students" collection with the following fields: name, age, and email.



View the contents of the "students" collection.

```
  _id: ObjectId('660be4833f394ab1eba4962a')
  ▼ student1: Object
    name: "raksha"
    age: "19"
    email: "22cs3046@rgipt.ac.in"
```

```
  _id: ObjectId('660be5193f394ab1eba4962d')
  ▼ student2: Object
    name: "ishika"
    age: "19"
    email: "22cs3029@rgipt.ac.in"
```

```
  _id: ObjectId('660be53b3f394ab1eba4962e')
  ▼ student3: Object
    name: "mayank"
    age: "40"
    email: "22cs3039@rgipt.ac.in"
```



```
  _id: ObjectId('660be55d3f394ab1eba4962f')
```

Update the age of a specific student in the "students" collection.

Update 10 documents



Testdb.Students

Filter ⓘ

{}

Update

[Learn more about Update syntax](#)

```
1 {  
2   $set: { "age": 18  
3  
4   },  
5 }
```



★ Save

Cancel

Update 10 documents

Delete a document from the "students" collection based on a specific condition.

🕒 { "name": "Raksha" }

Project { field: 0 }

Sort { field: -1 } or [['field', -1]]

Collation { locale: 'simple' }

+ ADD DATA ▾

📄 EXPORT DATA ▾

✎ UPDATE

🗑 DELETE

```
_id: ObjectId('660bf3823f394ab1eba4963c')  
name: "Raksha"  
age: 20  
email: "raksha@example.com"
```

Delete 1 document

Testdb.Students

Filter 📄 { name: 'Raksha' }

📄 Export

Preview (sample of 1 document)

```
_id: ObjectId('660bf3823f394ab1eba4963c')
name: "Raksha"
age: 20
email: "raksha@example.com"
```

Cancel

Delete 1 document

Use the aggregation pipeline to calculate the average age of all students in the "students" collection.

Stage 1 \$group 🔍 📄

```
1
2
3 {
4   "_id": null,
5   "averageAge": { "$avg": "$age" }
6 }
7
8
```

Output after \$group stage (Sample of 1 document)

```
_id: null
averageAge: 21
```

Create an index on the "name" field in the "students" collection.

Create Index

Testdb.Students

Index fields

student1 ▼ text ▼ +

➤ Options

Cancel Create Index

10. Export the contents of the "students" collection to a JSON file.

×

Export

Collection Testdb.Students

Export File Type

JSON

CSV

➤ Advanced JSON Format

Cancel

Export...