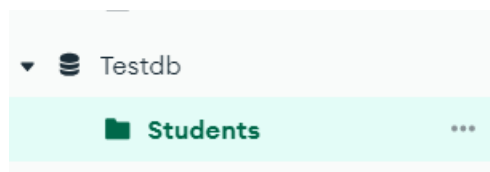


# LAB ASSIGNMENT

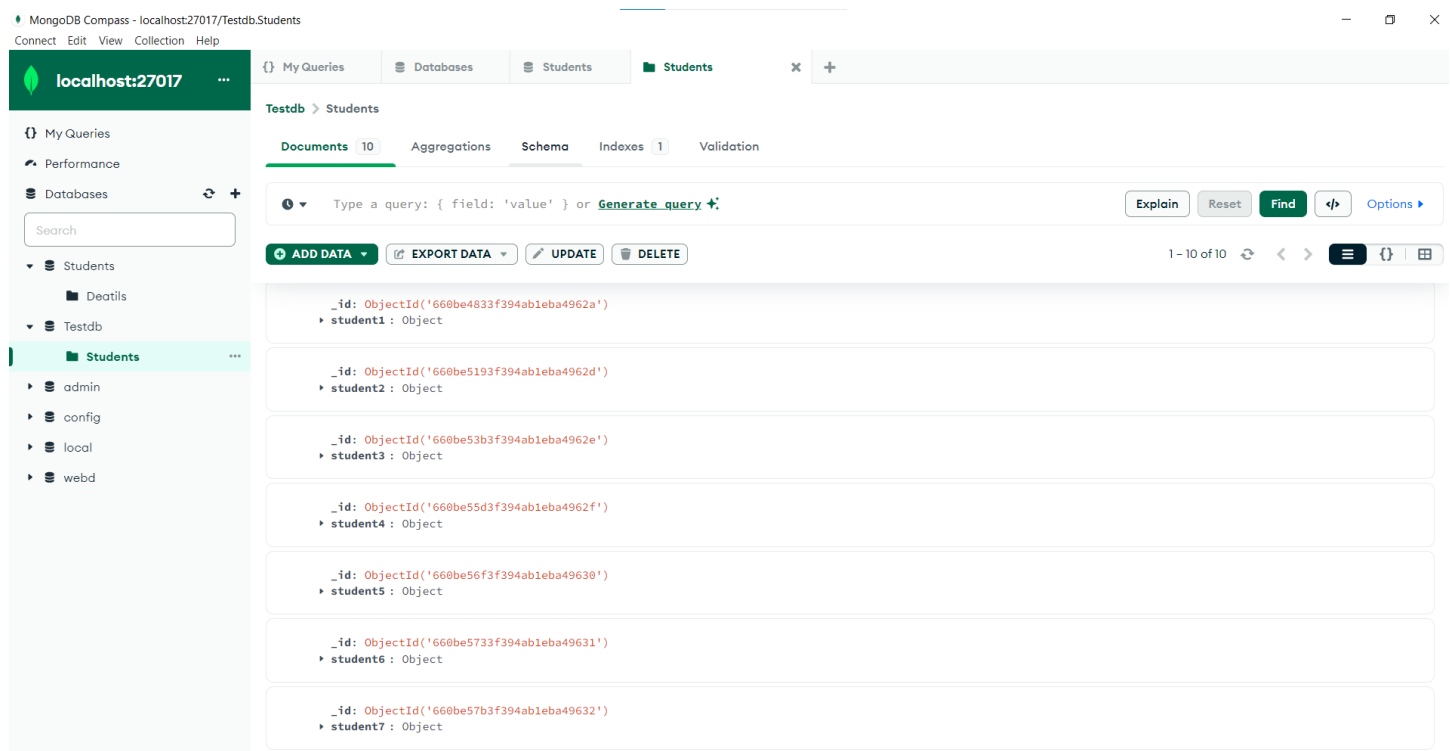
NAME : Raksha Kumari

Roll No : 22cs3046

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 {

5    "\_id": null,

6    "averageAge": { "\$avg": "\$age" } }

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...

