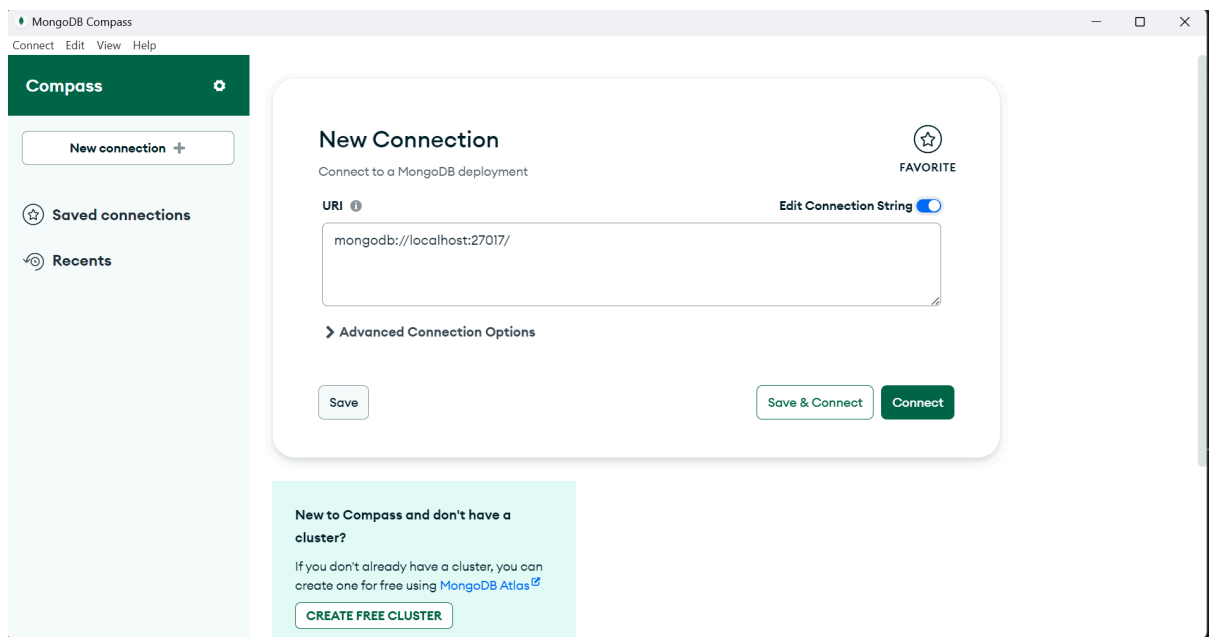
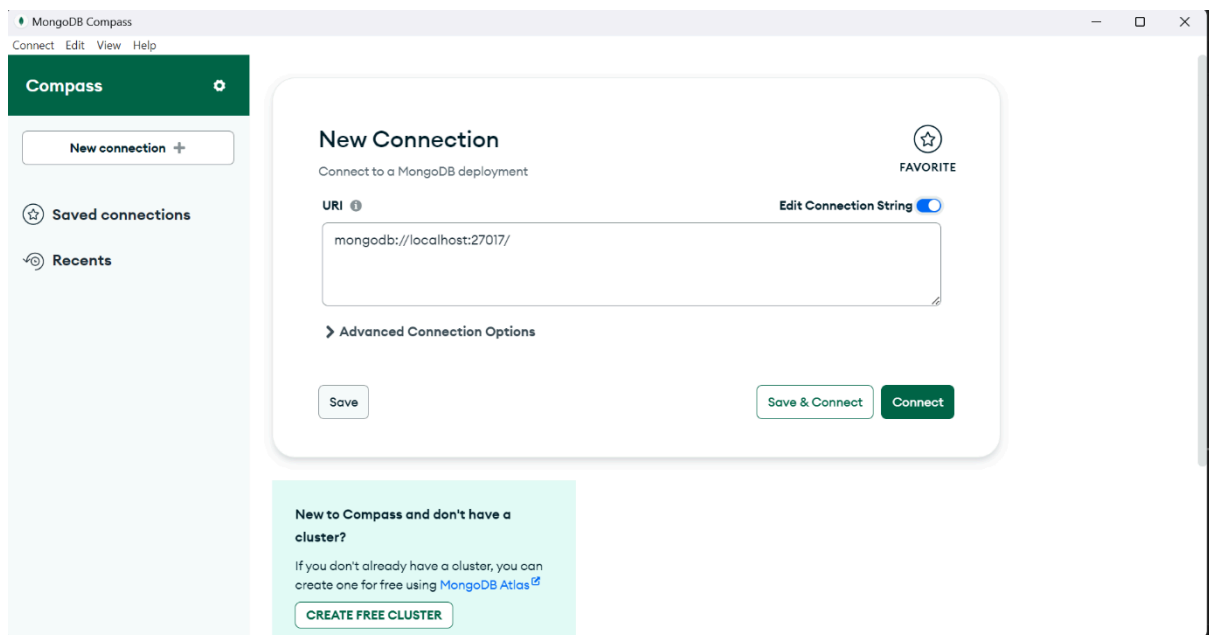


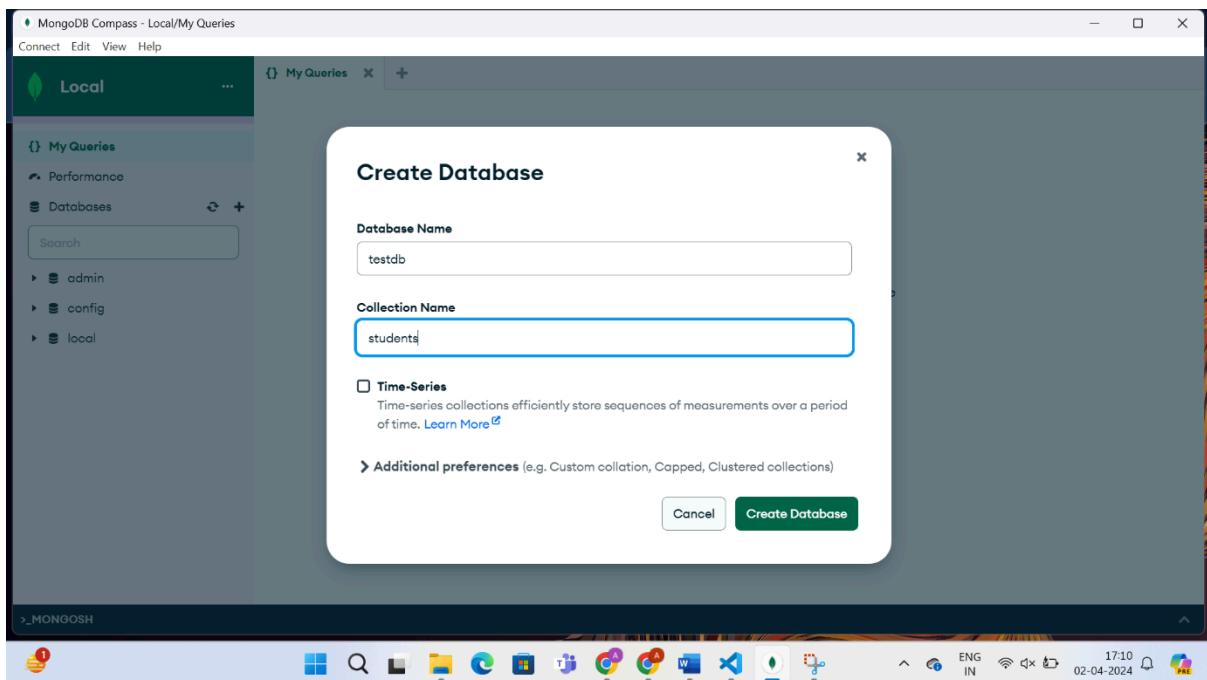
Q1. Connect to a MongoDB server using MongoDB Compass.



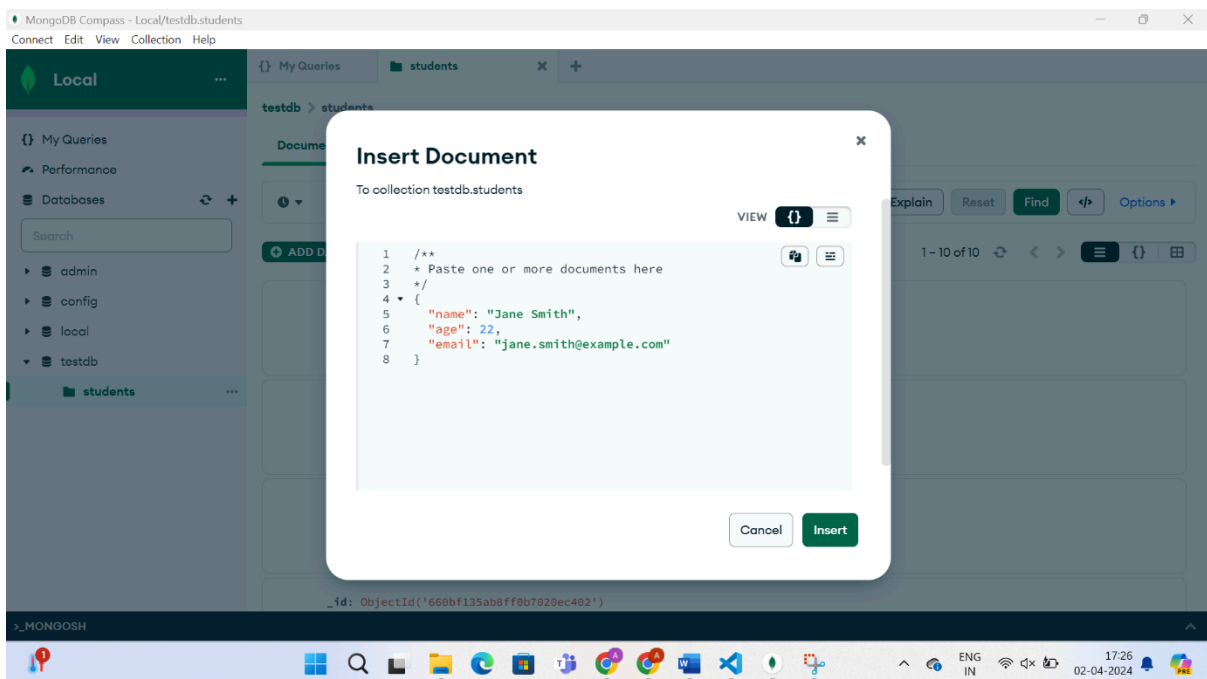
Create a new database named "testdb" in MongoDB Compass.



**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.**

MongoDB Compass - Local/testdb.students

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Type a query: { field: 'value' } or [Generate query](#)

Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

1 - 10 of 10

	_id	name	age	email
1	ObjectId('660bf0f7ab8ff0b...')	John Doe	20	john.doe@example.com
2	ObjectId('660bf113ab8ff0b...')	Jane Smith	22	jane.smith@example.com
3	ObjectId('660bf126ab8ff0b...')	Michael Johnson	21	michael.johnson@example...
4	ObjectId('660bf135ab8ff0b...')	Emily Brown	19	emily.brown@example.com
5	ObjectId('660bf14dab8ff0b...')	David Wilson	23	david.wilson@example.com
6	ObjectId('660bf1b7ab8ff0b...')	Sarah Martinez	20	sarah.martinez@example.c...
7	ObjectId('660bf1c9ab8ff0b...')	Christopher Taylor	24	christopher.taylor@examp...
8	ObjectId('660bf1daab8ff0b...')	Jessica Anderson	22	jessica.anderson@example...
9	ObjectId('660bf1e8ab8ff0b...')	Ryan Thomas	21	ryan.thomas@example.com
10	ObjectId('660bf1f8ab8ff0b...')	Amanda Garcia	20	amanda.garcia@example.co...

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

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Type a query: {} [Generate query](#)

Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

1 - 10 of 10

```
1 _id: ObjectId('660bf0f7ab8ff0b7020ec3fc')
2 name: "John Doe"
3 age: 20
4 email: "john.doe@example.com"
```

Document modified.

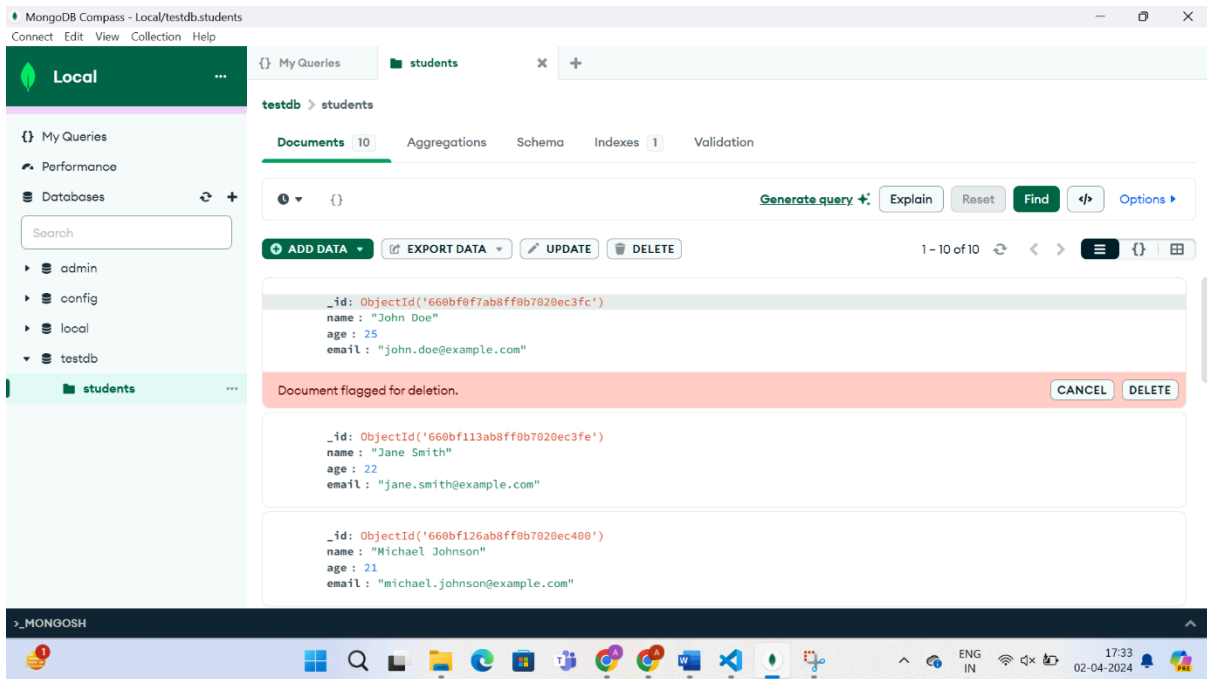
CANCEL UPDATE

```
_id: ObjectId('660bf113ab8ff0b7020ec3fe')
name: "Jane Smith"
age: 22
email: "jane.smith@example.com"
```

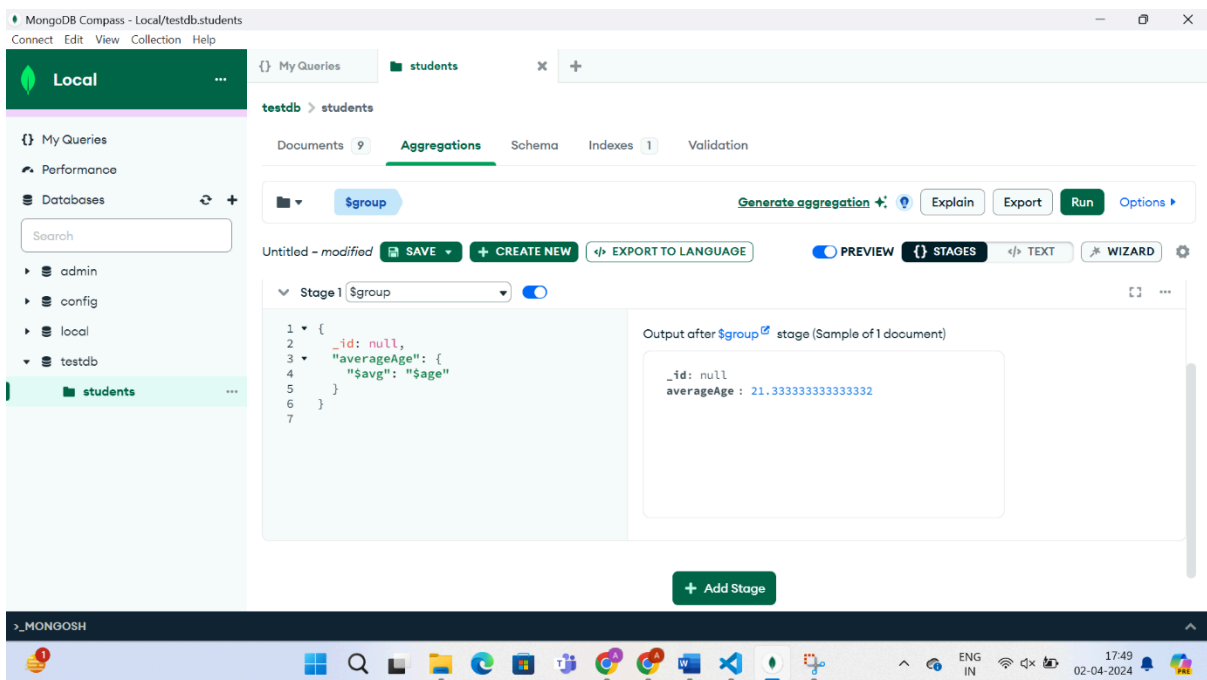
```
_id: ObjectId('660bf126ab8ff0b7020ec400')
name: "Michael Johnson"
age: 21
email: "michael.johnson@example.com"
```

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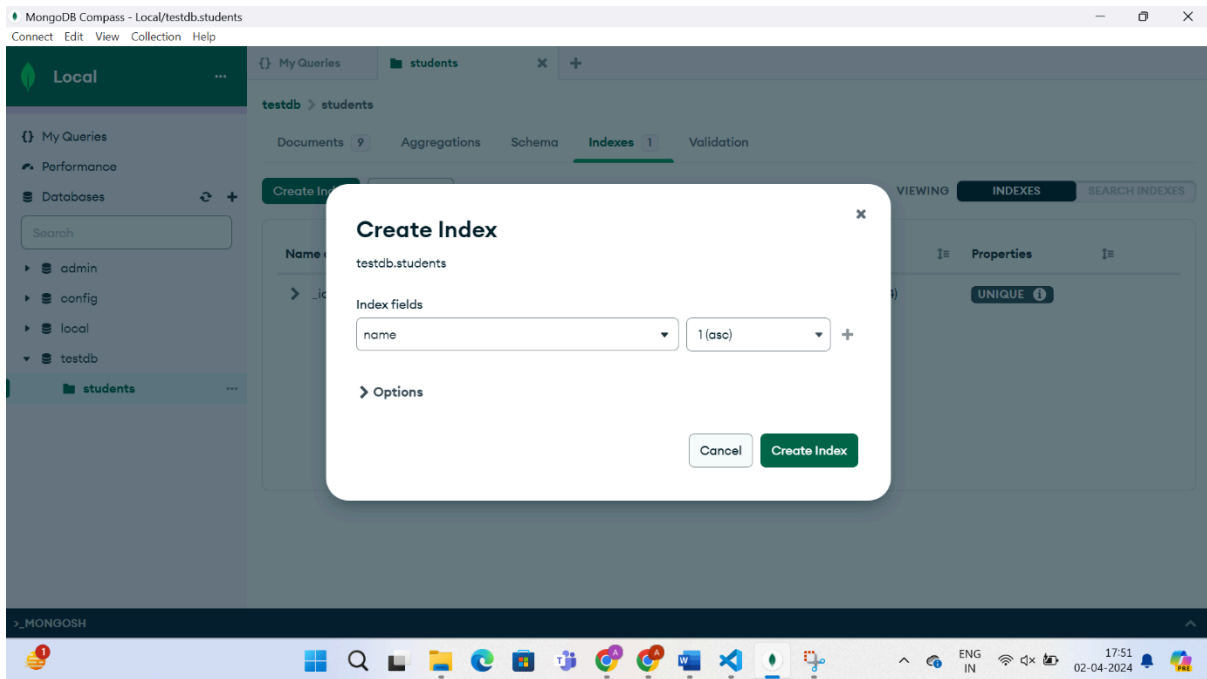
## Delete a document from the "students" collection based on a specific condition.



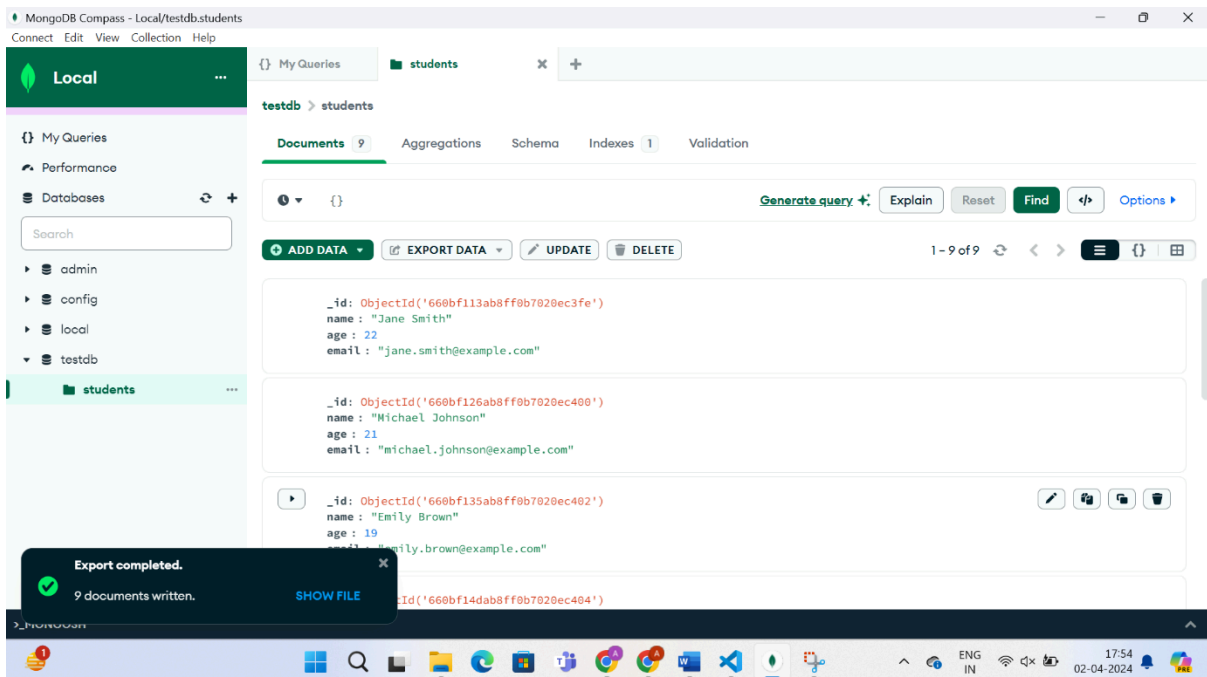
**Use the aggregation pipeline to calculate the average age of all students in the "students" collection.**



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



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



## Perform a complex aggregation operation to find the top 5 oldest students in the "students" collection.

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Generate aggregation Explain Export Run Options

Untitled - modified SAVE CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT WIZARD

Stage 2 \$sort

```
1 [
2   {
3     "$sort": {
4       "age": -1
5     },
6   },
7   {
8     "$limit": 5
9   }
10 ]
```

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## Create a geospatial index on a field representing the location of students.

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Create Index Refresh

VIEWING INDEXES SEARCH INDEXES

Name and Definition	Type	Size	Usage	Properties
> _id_	REGULAR	36.9 KB	13 (since Tue Apr 02 2024)	UNIQUE
> name_1	REGULAR	20.5 KB	0 (since Tue Apr 02 2024)	
> students_2dsphere	GEOSPATIAL	8.2 KB	0 (since Tue Apr 02 2024)	

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17:59 02-04-2024