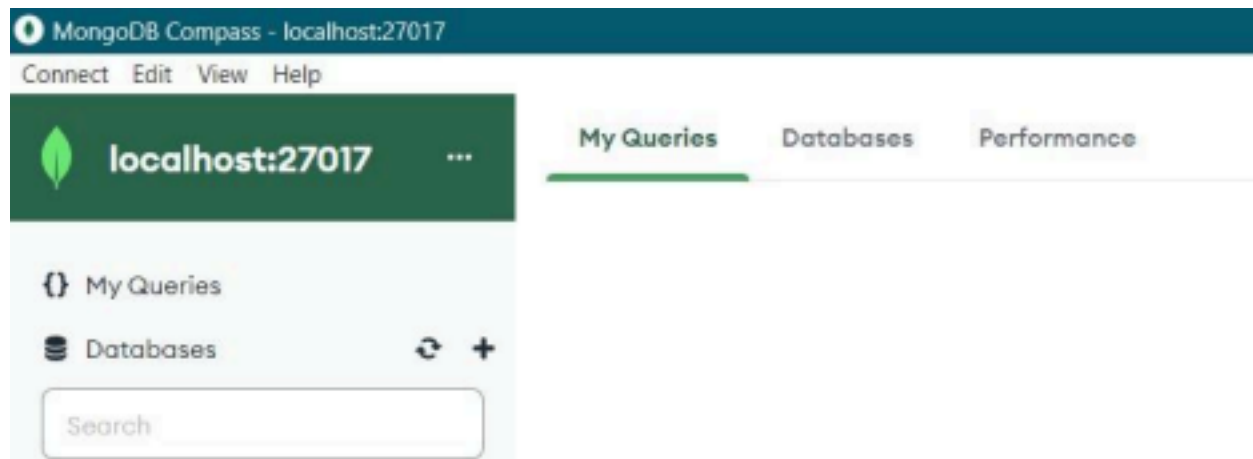


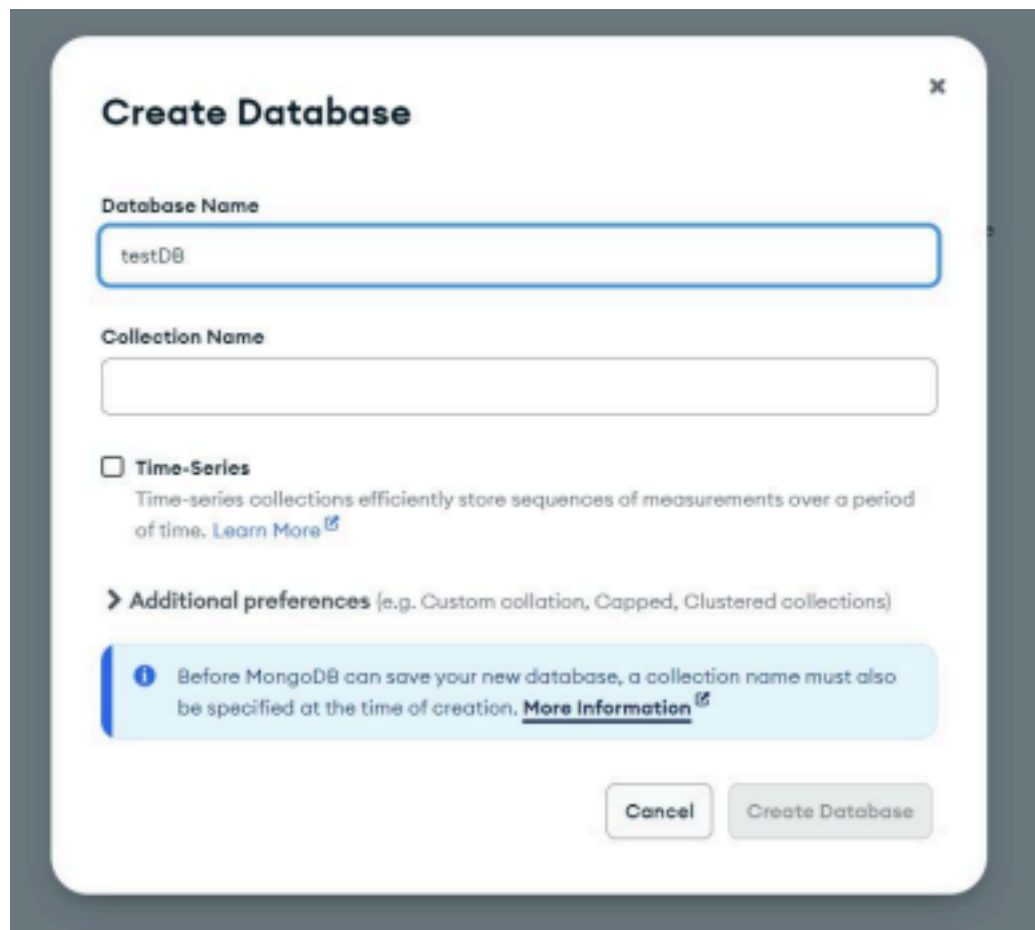
**Name : Harshit Negi**

**Roll No. : 22cs3074**

**1.**



**2 and 3.**



**4.**

## Insert Document

To collection testDB.students

VIEW



```
1  [
2    {
3      "name": "John Doe",
4      "age": 20,
5      "email": "john.doe@example.com"
6    },
7    {
8      "name": "Alice Smith",
9      "age": 22,
10     "email": "alice.smith@example.com"
11   },
12   {
13     "name": "Bob Johnson",
14     "age": 21,
15     "email": "bob.johnson@example.com"
16   },
17   {
18     "name": "Emily Davis",
19     "age": 23,
20     "email": "emily.davis@example.com"
21   },
22   {
23     "name": "Michael Wilson",
24     "age": 19,
25     "email": "michael.wilson@example.com"
26   },
27   {
28     "name": "Sophia Martinez",
```

Cancel

Insert

5.

testDB.students

10  
DOCUMENTS

1  
INDEXES

Documents Aggregations Schema Indexes Validation

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

[Explain](#) [Reset](#) [Find](#) [Options](#)

[+ ADD DATA](#) [EXPORT DATA](#)

1-10 of 10

```
{
  "_id": ObjectId("668be4bc32bc7958b7baf5cb"),
  "name": "John Doe",
  "age": 28,
  "email": "john.doe@example.com"
}
```

```
{
  "_id": ObjectId("668be4bc32bc7958b7baf5cc"),
  "name": "Alice Smith",
  "age": 22,
  "email": "alice.smith@example.com"
}
```

```
{
  "_id": ObjectId("668be4bc32bc7958b7baf5cd"),
  "name": "Bob Johnson",
  "age": 25,
  "email": "bob.johnson@example.com"
}
```

```
{
  "_id": ObjectId("668be4bc32bc7958b7baf5ce"),
  "name": "Emily Davis",
  "age": 23,
  "email": "emily.davis@example.com"
}
```

```
{
  "_id": ObjectId("668be4bc32bc7958b7baf5cf"),
  "name": "Michael Wilson"
}
```

6.

testDB.students

10  
DOCUMENTS

1  
INDEXES

Documents Aggregations Schema Indexes Validation

Filter {  
 "name": "John Doe"  
}

[Generate query](#) [Explain](#) [Reset](#) [Find](#) [Options](#)

[+ ADD DATA](#) [EXPORT DATA](#)

1-1 of 1

```
1  "_id": ObjectId("668be4bc32bc7958b7baf5cb"),
2  "name": "John Doe",
3  "age": 28,
4  "email": "john.doe@example.com"
```

ObjectId  
String  
Int32  
String

[CANCEL](#) [UPDATE](#)

7.

testDB.students

10  
DOCUMENTS

1  
INDEXES

Documents Aggregations Schema Indexes Validation

Filter {  
 "name": "Bob Johnson"  
}

[Generate query](#) [Explain](#) [Reset](#) [Find](#) [Options](#)

[+ ADD DATA](#) [EXPORT DATA](#)

1-1 of 1

```
{
  "_id": ObjectId("668be4bc32bc7958b7baf5cd"),
  "name": "Bob Johnson",
  "age": 25,
  "email": "bob.johnson@example.com"
}
```

Document flagged for deletion.

[CANCEL](#) [DELETE](#)

8.

testDB.students 9 1  
DOCUMENTS INDEXES

Documents Aggregations Schema Indexes Validation

Pipeline + Group ? Explain Export Run More Options +

← average X Generate 🔒 🔖 🔍

Untitled - modifier 💾 SAVE + + CREATE NEW → EXPORT TO LANGUAGE 🔗 PREVIEW { } STAGES ↔ TEXT 🔧 ⚙️

Stage1 Group 🔗 🔗 🔗

```

1 {
2   _id: null,
3   average: {
4     avg: "Sage",
5   },
6 }

```

Output after Group stage (Sample of 1 document)

```

_id: null
average: 22.600000000000005

```

+ Add Stage

[Learn more about aggregation pipeline stages](#)

9.

×

Create Index

testDB.students

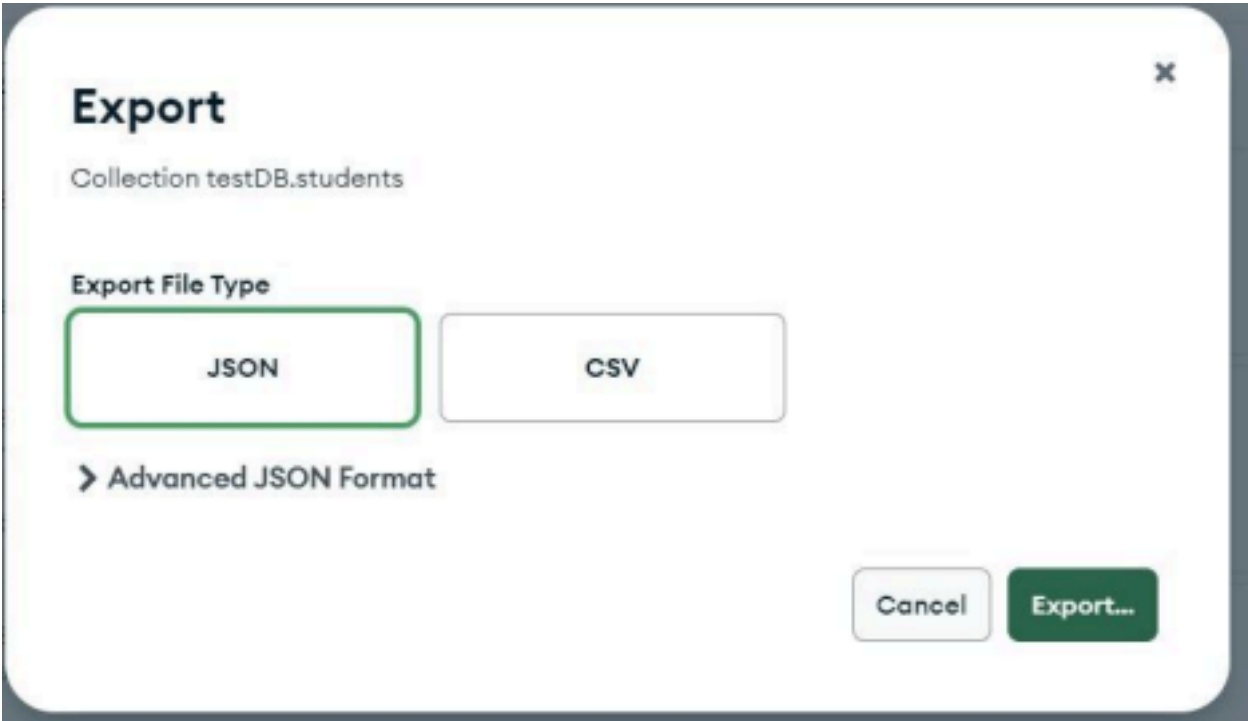
Index fields

location2dsphere+

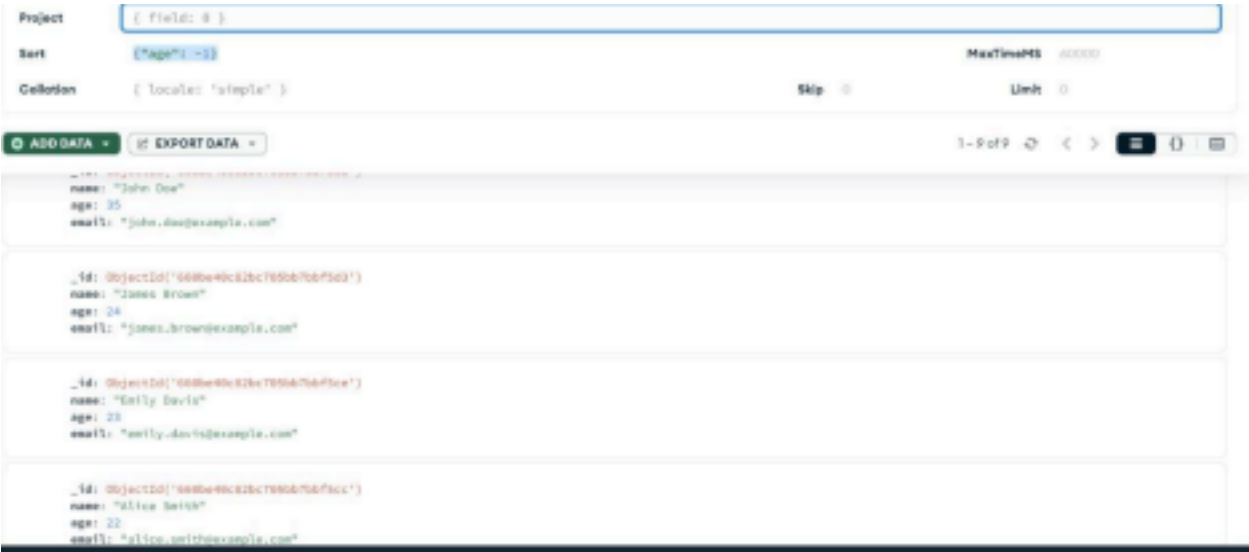
> Options

CancelCreate Index

10.



11.



12.



13.

## testDB.students

9 DOCUMENTS 1 INDEXES

Documents Aggregations **Schema** Indexes ValidationFilter  {}Generate query 

Reset


Analyze Options 

Project { field: 0 }

Sort {"age": -1}

Collection { locales: "simple" }

MaxLineMB 63333

Skip Limit This report is based on a sample of 9 documents. [Learn more](#)  Looking for data modeling tools?[Check out Hadoop Studio](#) **\_id**

objectId



Indexed 2024-04-02 10:00:00

**age**

int32

**14.**

## testDB.students

9 DOCUMENTS 1 INDEXES

Documents Aggregations Schema **Indexes** ValidationCreate Index 

Refresh

VIEWING

**INDEXES**

SEARCH INDEXES

Name and Definition	Type	Size	Usage	Properties
> _id_	REGULAR 	36.8 KB	10 (since Tue Apr 02 2024)	SINGLE 
> location_2dsphere	GEOSPATIAL 	6.2 KB	0 (since Tue Apr 02 2024)	
> name_text	TEXT 	20.5 KB	0 (since Tue Apr 02 2024)	