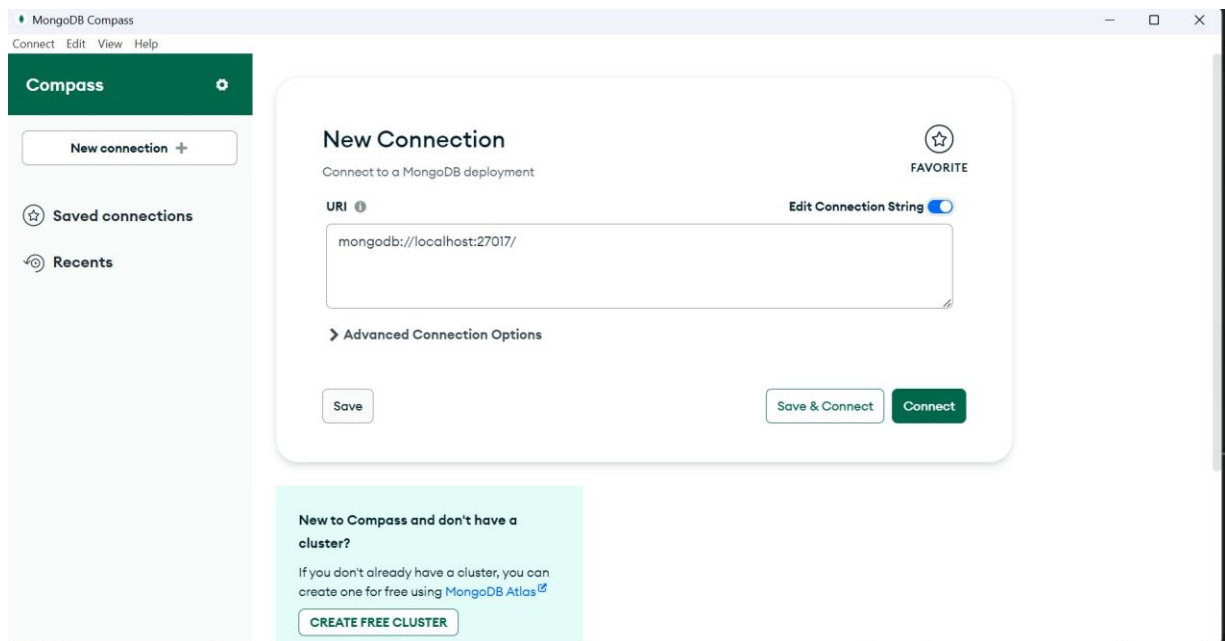

WEB TECHNOLOGY

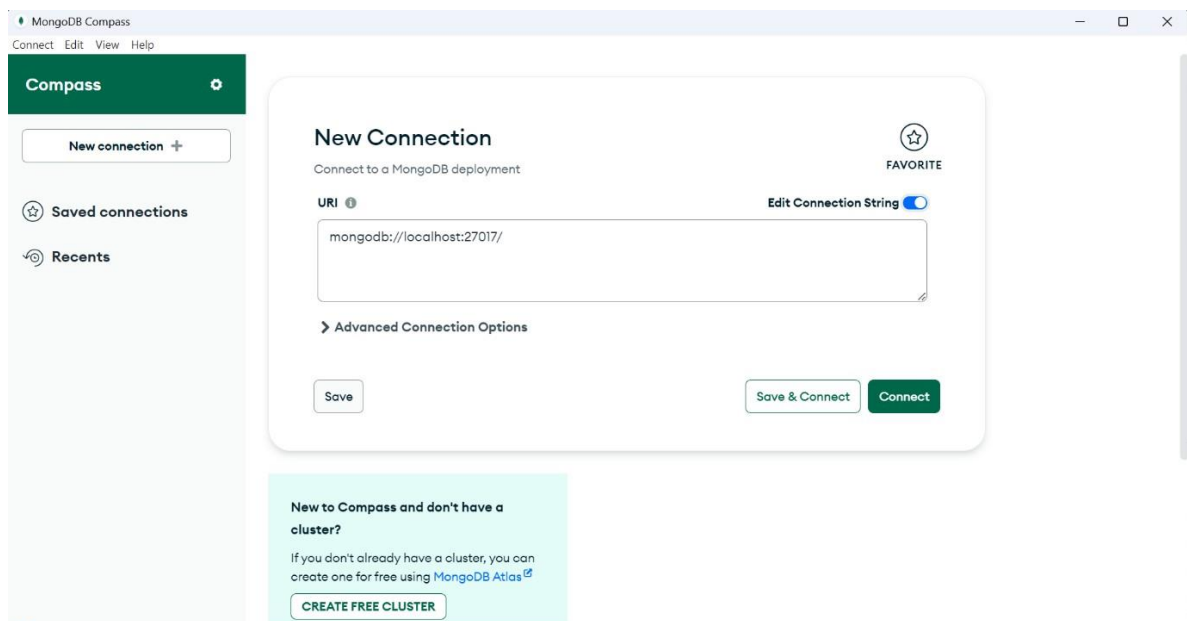
Kriti Mehrotra
22IT3022

LAB-9

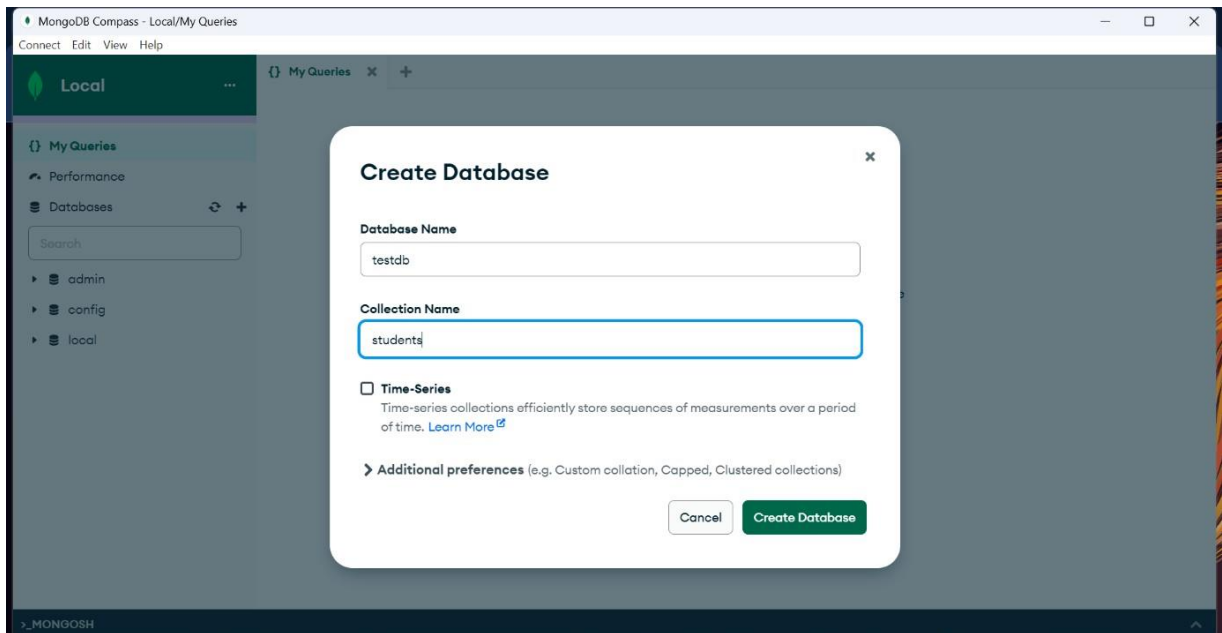
Connect to a MongoDB server using MongoDB Compass.



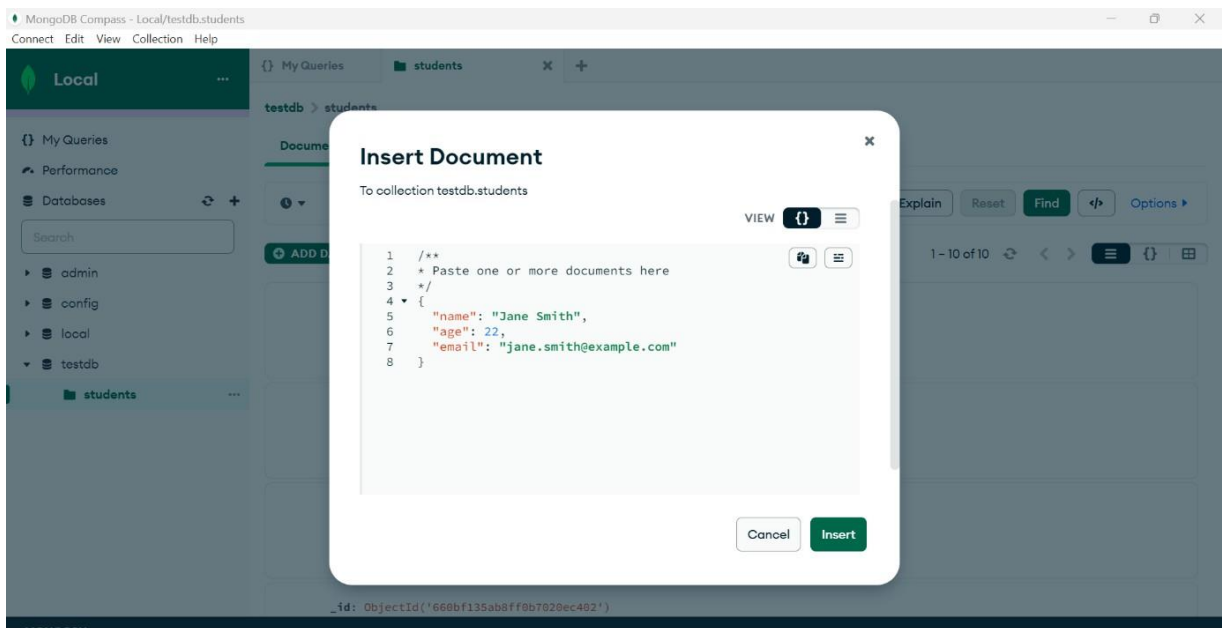
Create a new database named "testdb" in MongoDB Compass.



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

Connect Edit View Collection Help

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

Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

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	_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.com
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.com
7	ObjectId('660bf1c9ab8ff0b...')	Christopher Taylor	24	christopher.taylor@example.com
8	ObjectId('660bf1daab8ff0b...')	Jessica Anderson	22	jessica.anderson@example.com
9	ObjectId('660bf1e8ab8ff0b...')	Ryan Thomas	21	ryan.thomas@example.com
10	ObjectId('660bf1f8ab8ff0b...')	Amanda Garcia	20	amanda.garcia@example.com

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

MongoDB Compass - Local/testdb.students

Connect Edit View Collection Help

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

Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

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Document modified.

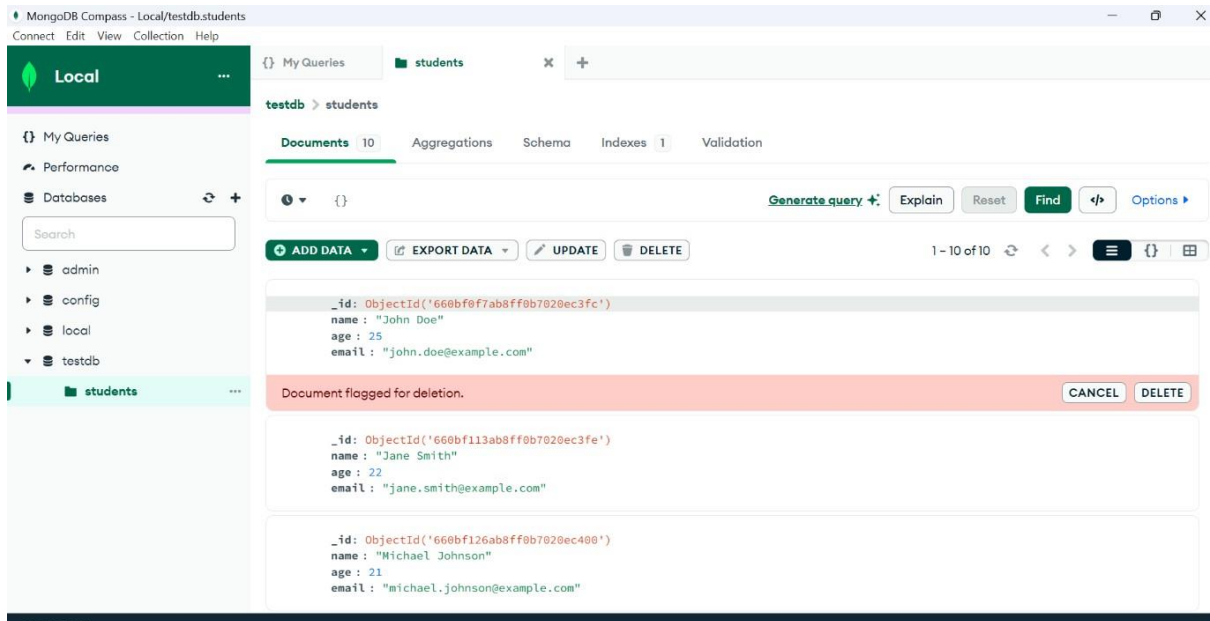
CANCEL UPDATE

```
{
  "_id": ObjectId("660bf0f7ab8ff0b7020ec3fc"),
  "name": "John Doe",
  "age": 25,
  "email": "john.doe@example.com"
}
```

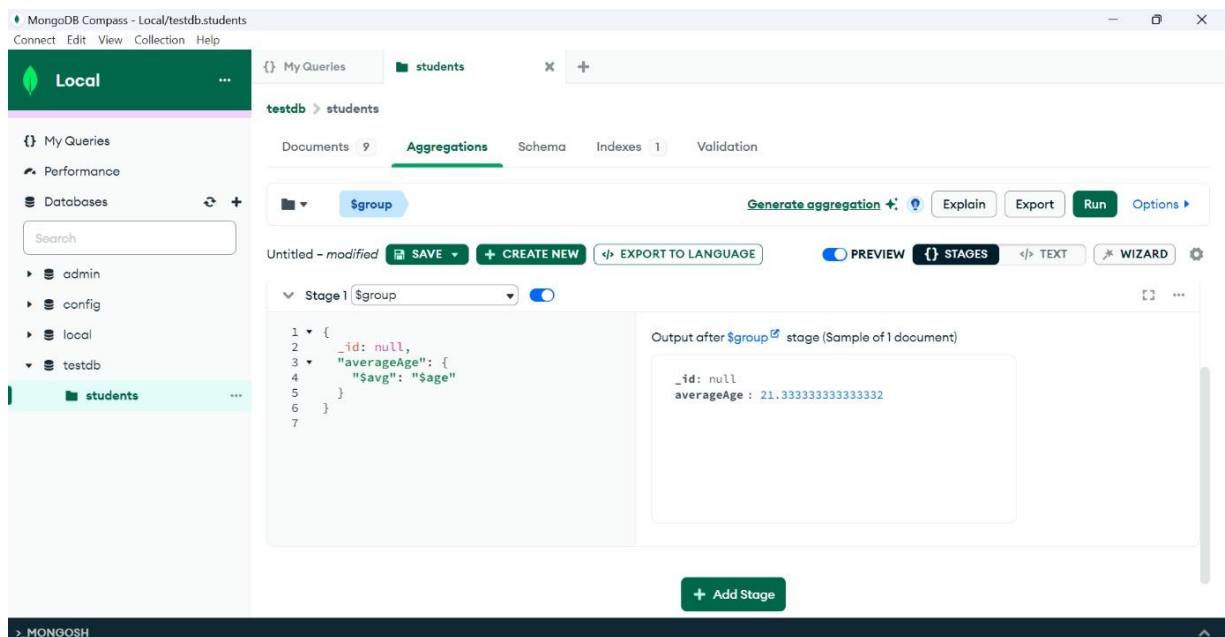
```
{
  "_id": ObjectId("660bf113ab8ff0b7020ec3fe"),
  "name": "Jane Smith",
  "age": 22,
  "email": "jane.smith@example.com"
}
```

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

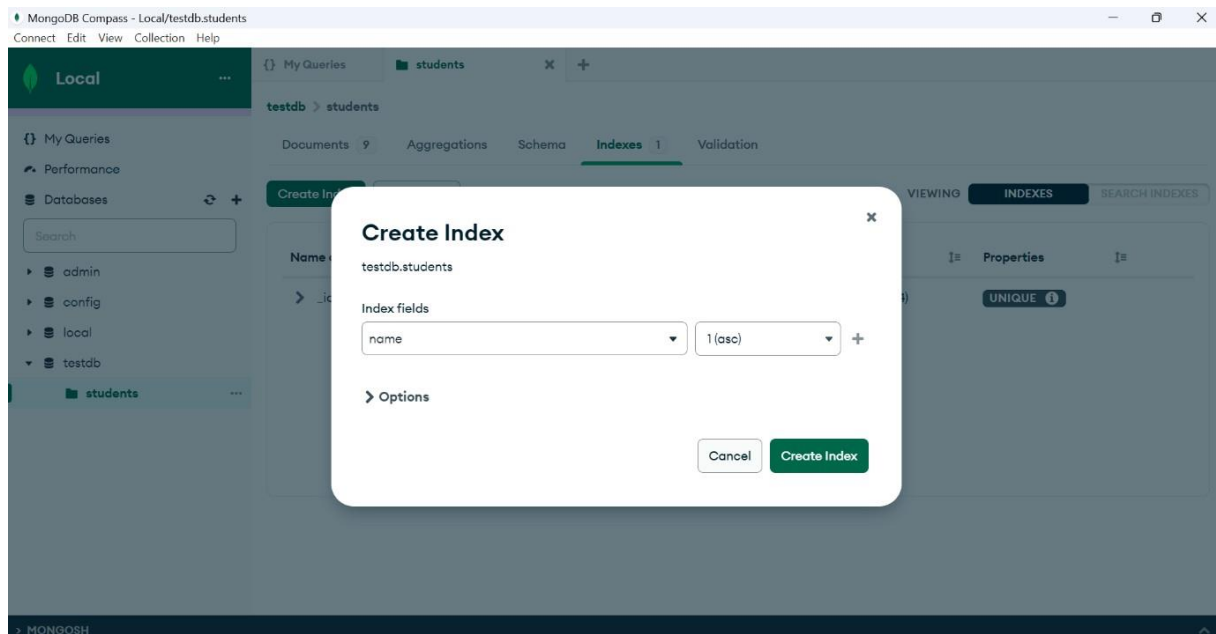
Delete a document from the "students" collection based on a specific condition.



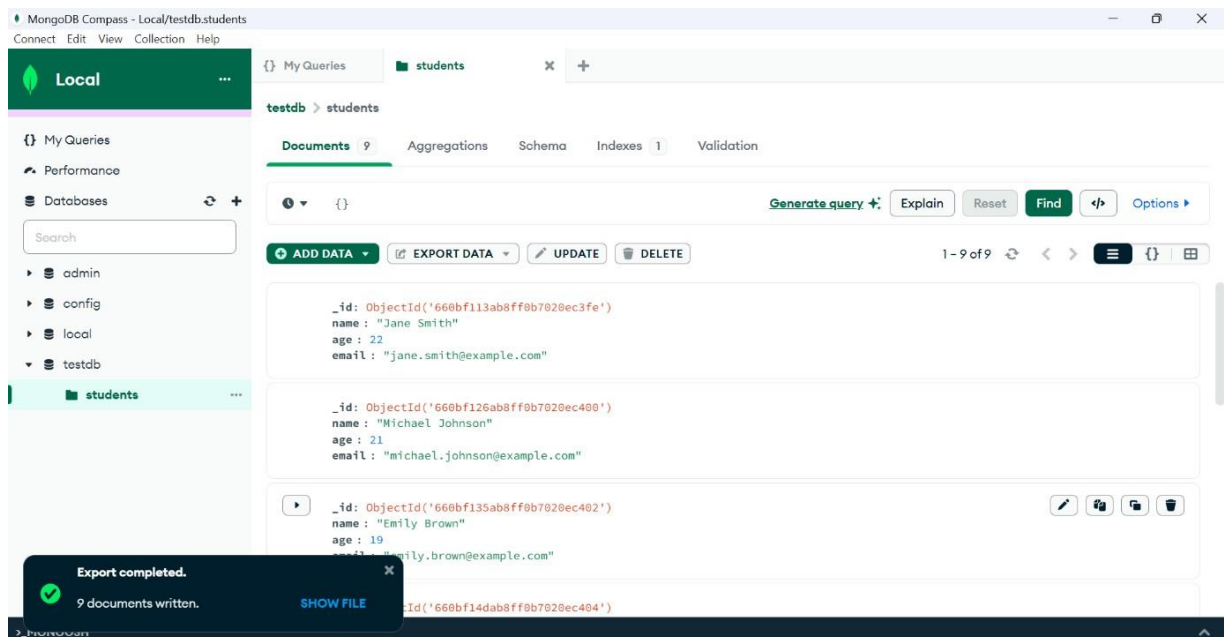
Use the aggregation pipeline to calculate the average age of all students in the "students" collection.



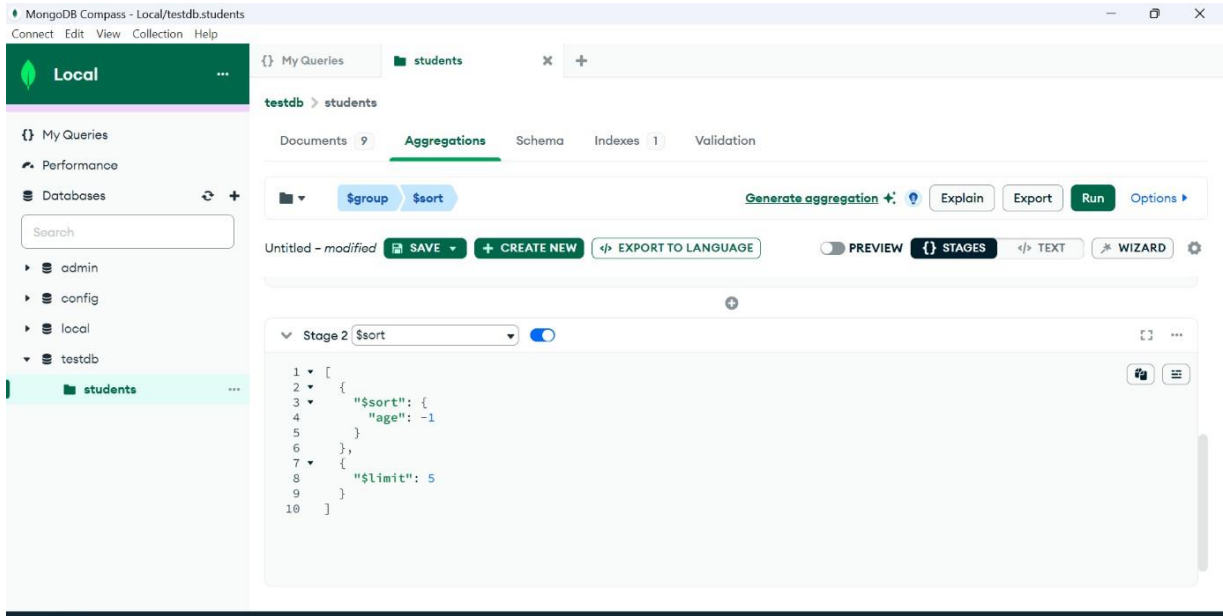
Create an index on the "name" field in the "students" collection.



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.



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

