

Name : Saksham Goyal

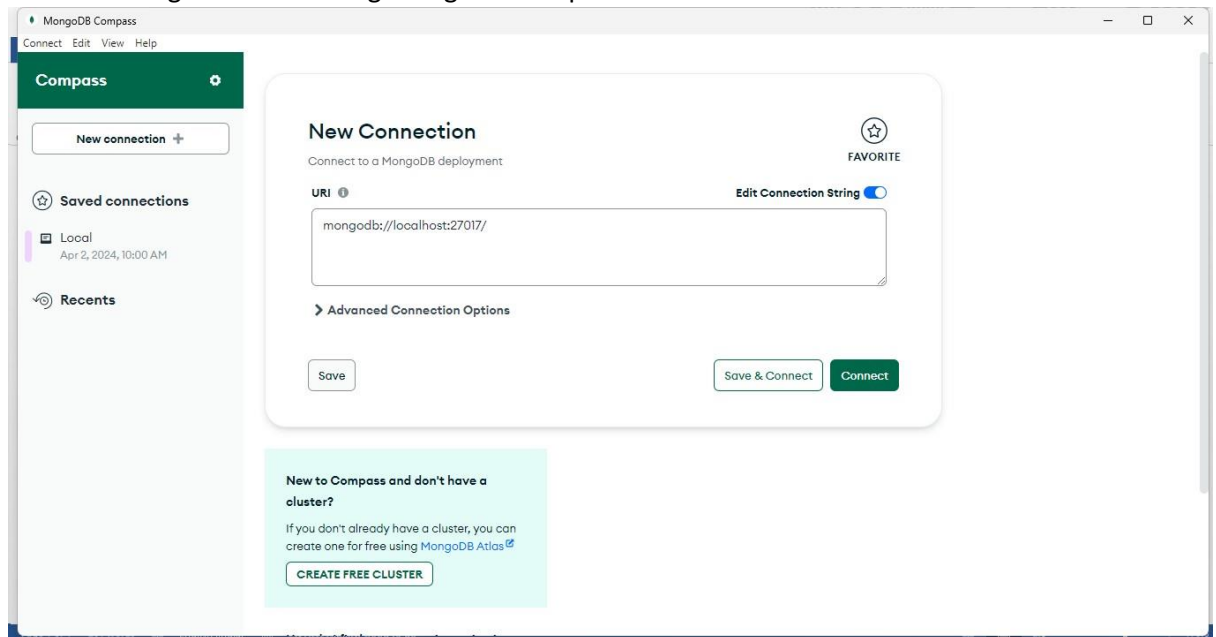
Branch : IT

Roll No. : 22IT3041

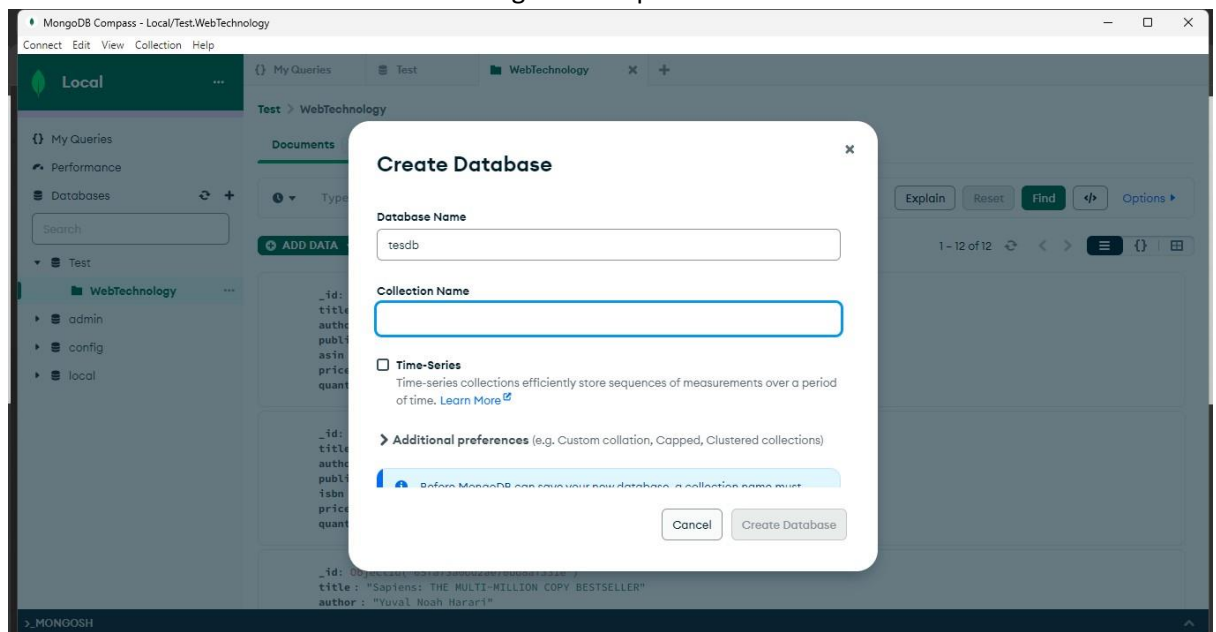
Subject : Web Technology

Lab 9

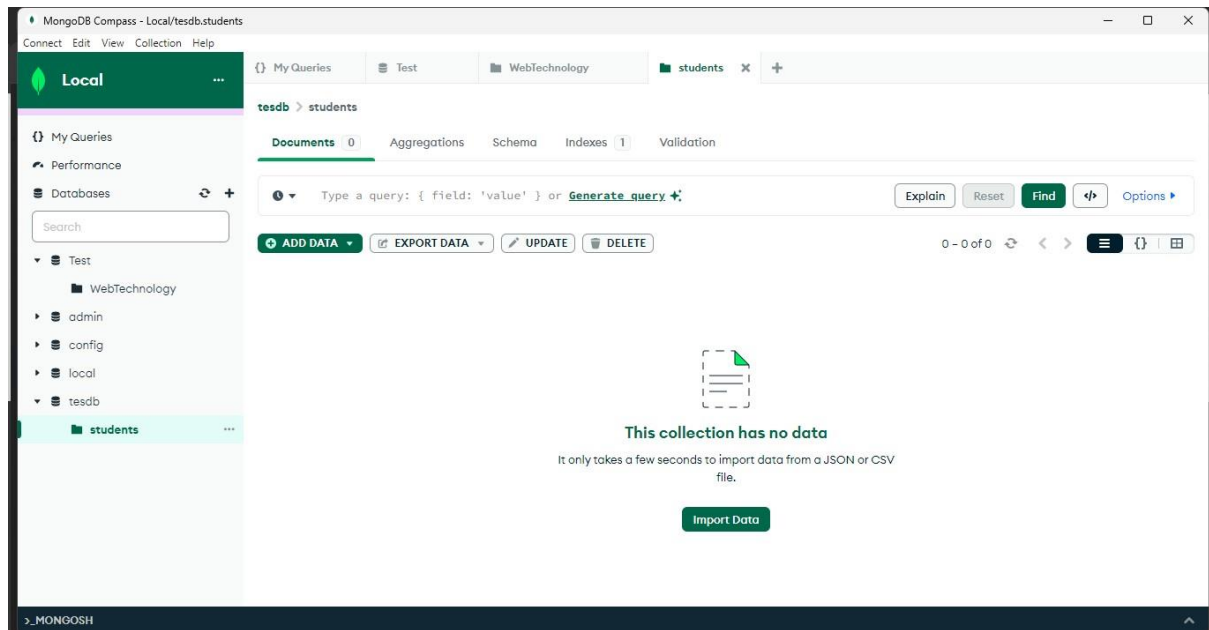
1. Connect to a MongoDB server using MongoDB Compass.



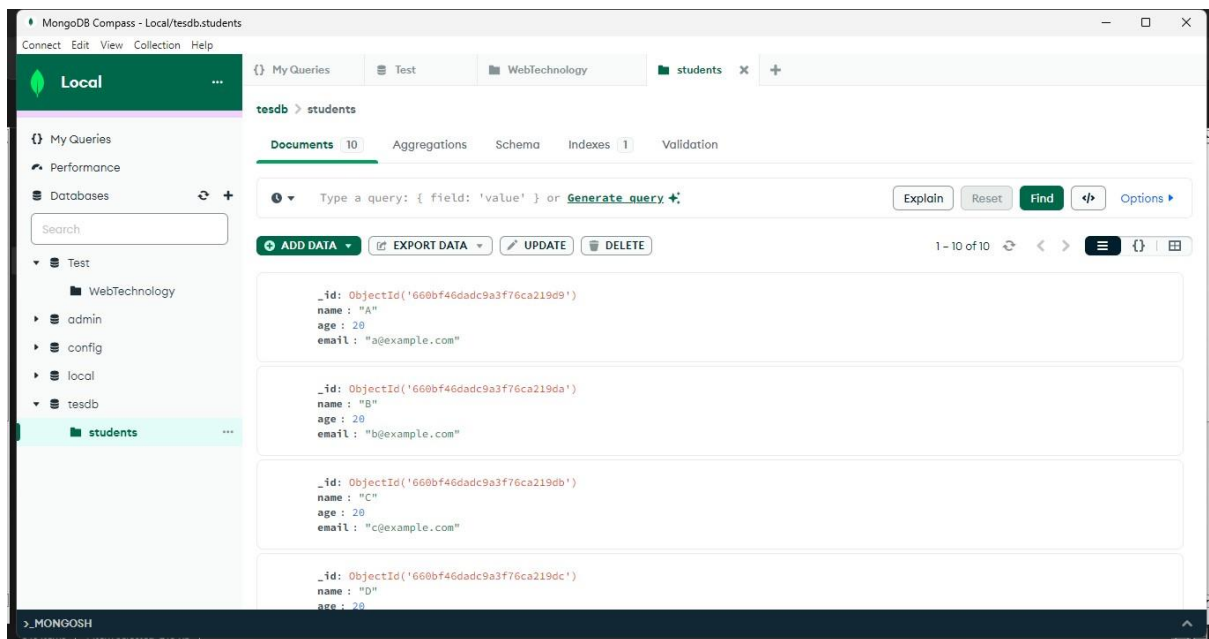
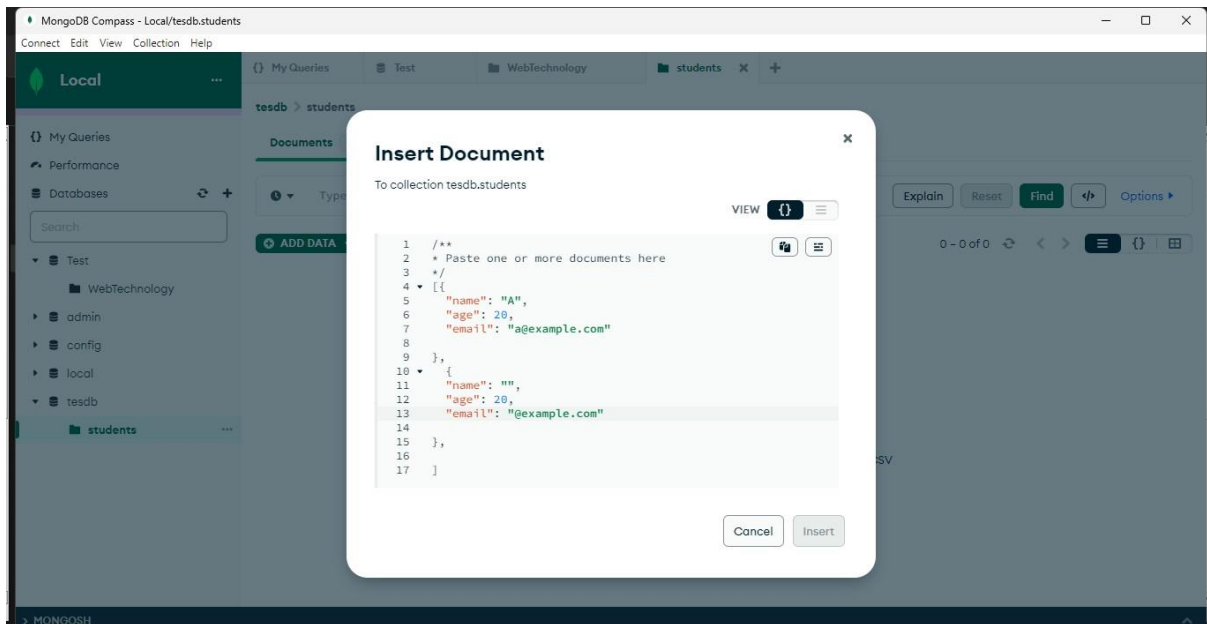
2. Create a new database named "testdb" in MongoDB Compass.



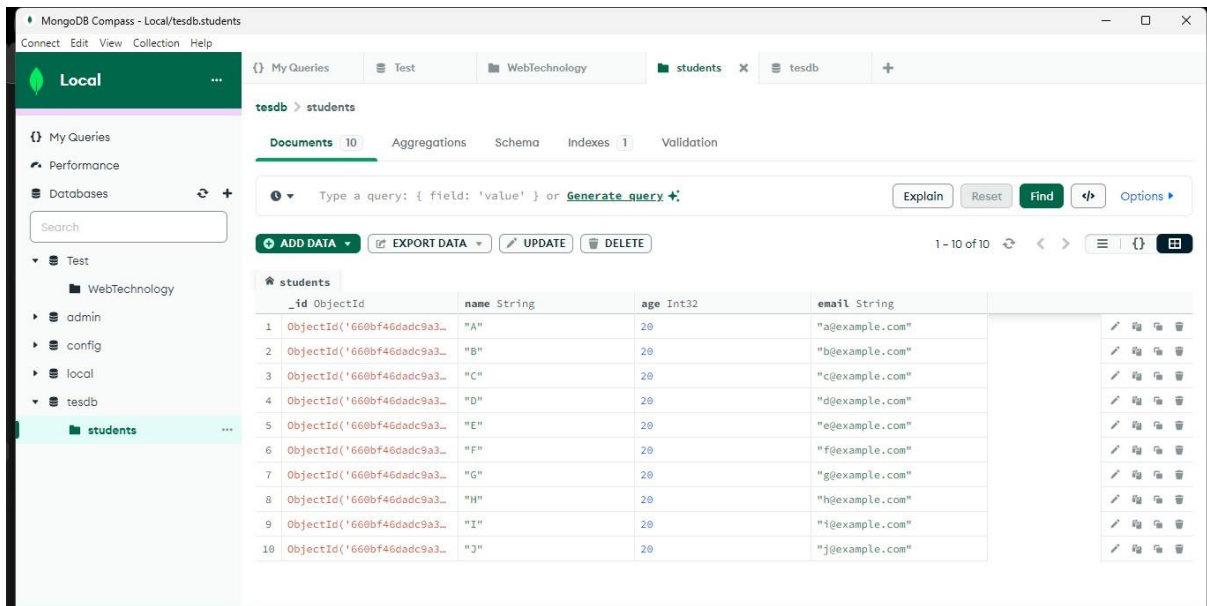
3. Create a new collection named "students" in the "testdb" database.



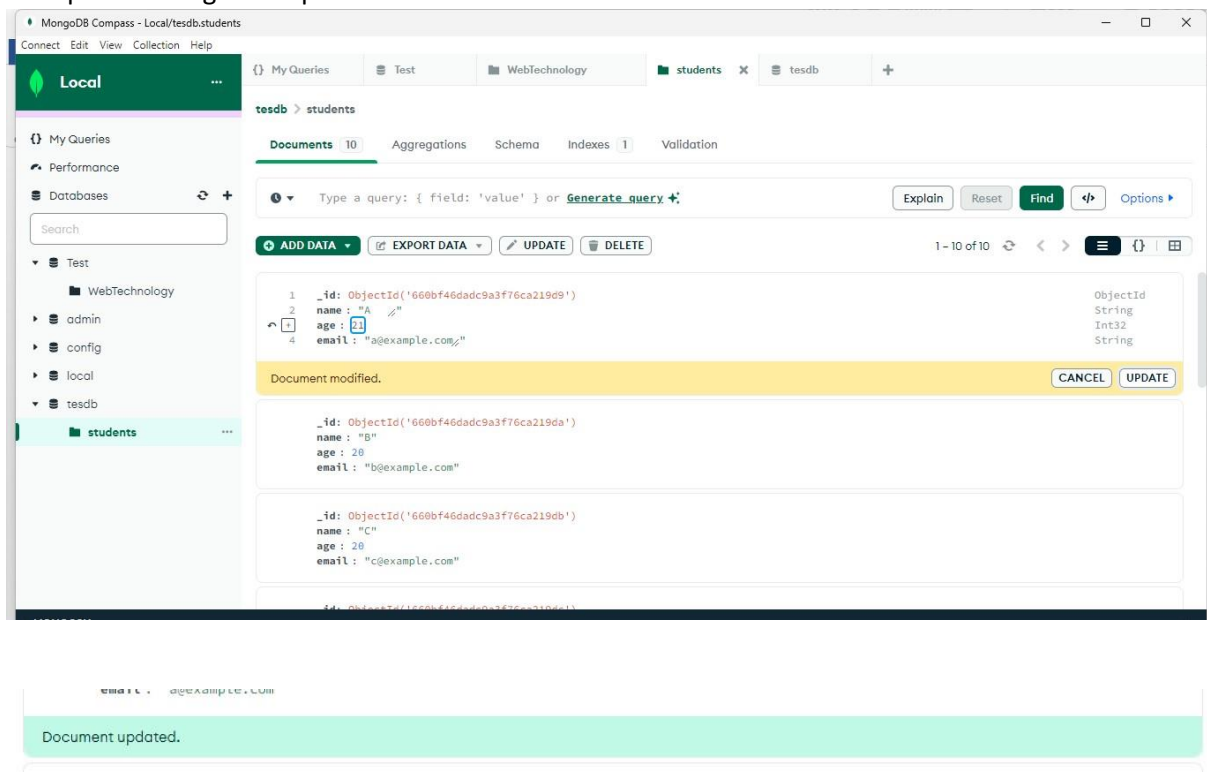
4. Insert ten documents into the "students" collection with the following fields: name, age, and email.



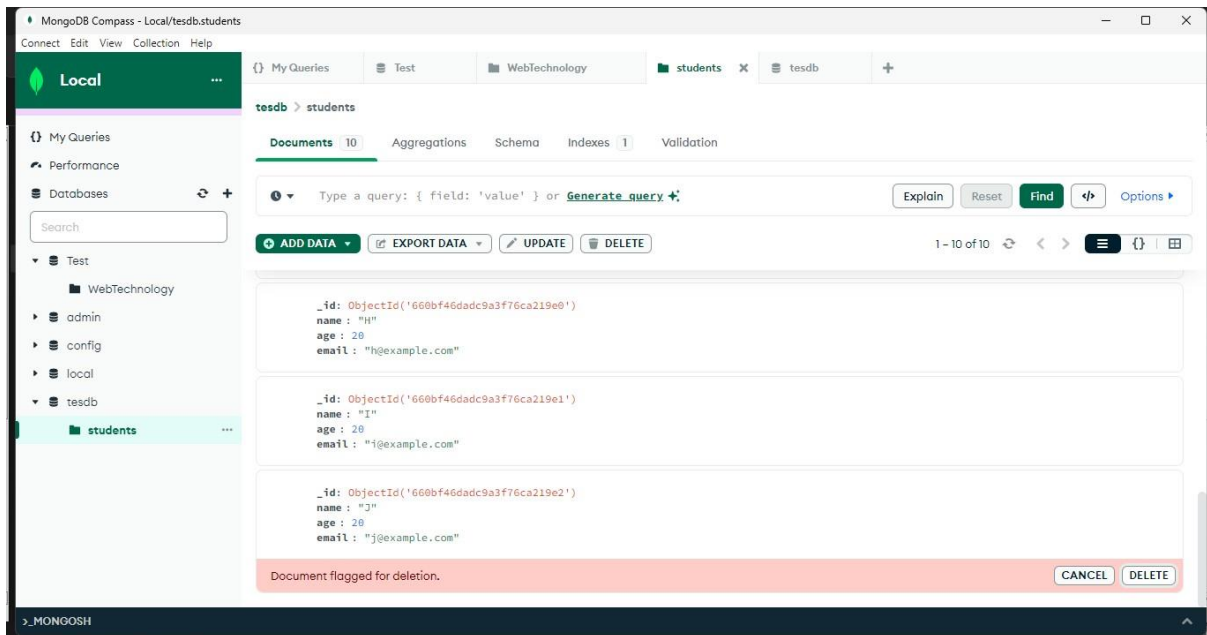
5. View the contents of the "students" collection.



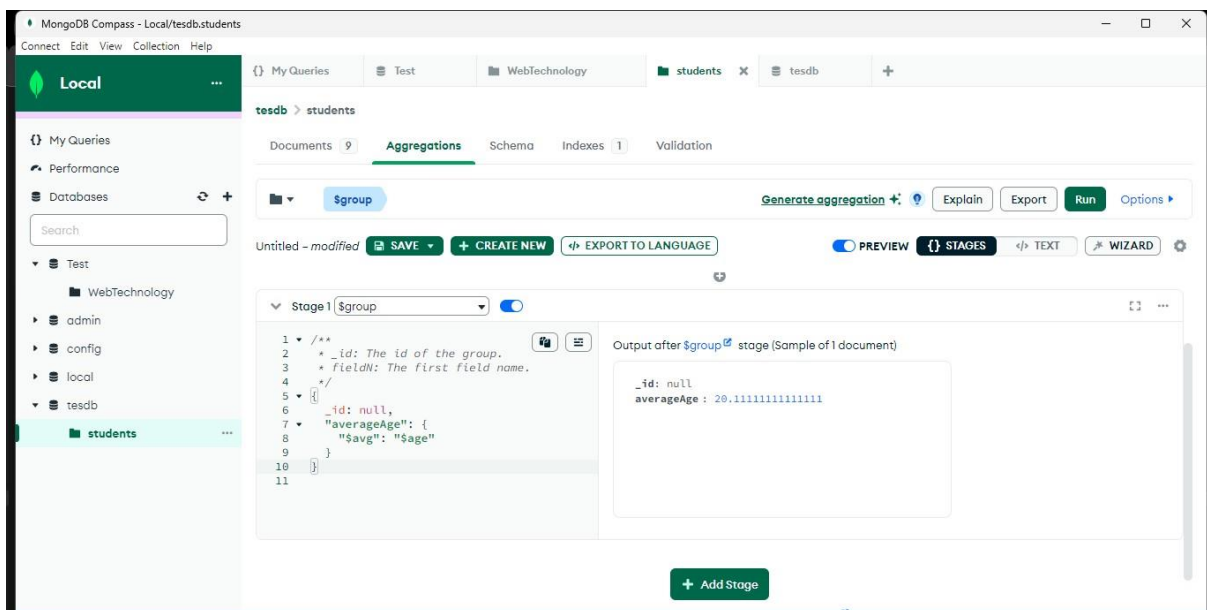
6. Update the age of a specific student in the "students" collection.



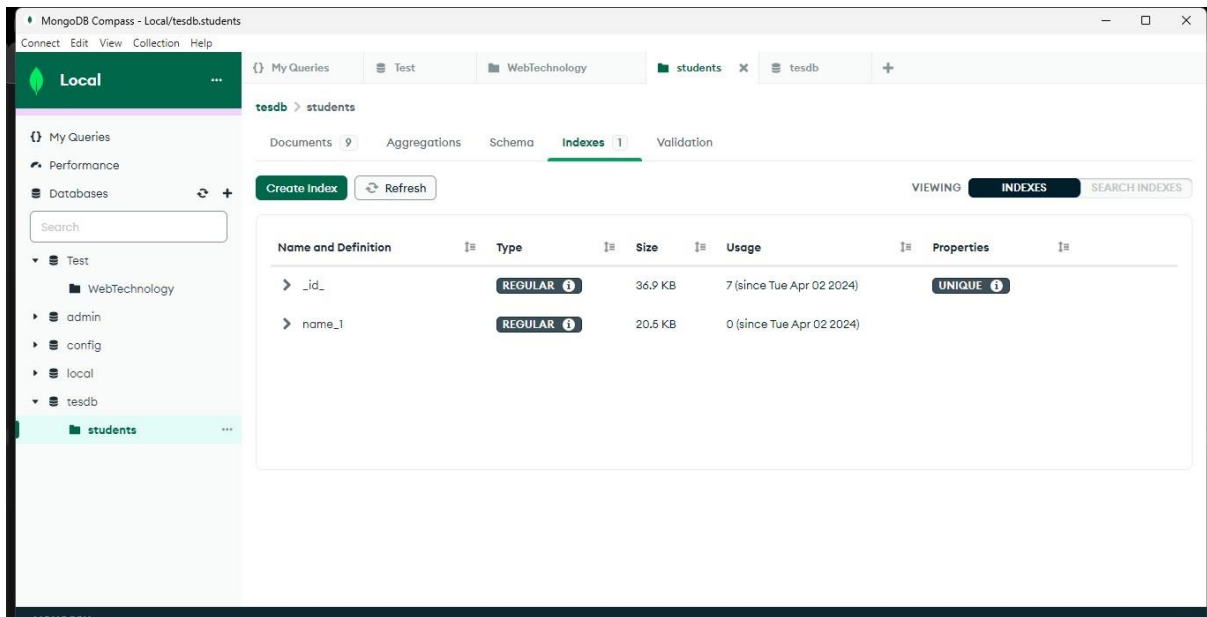
7. Delete a document from the "students" collection based on a specific condition.



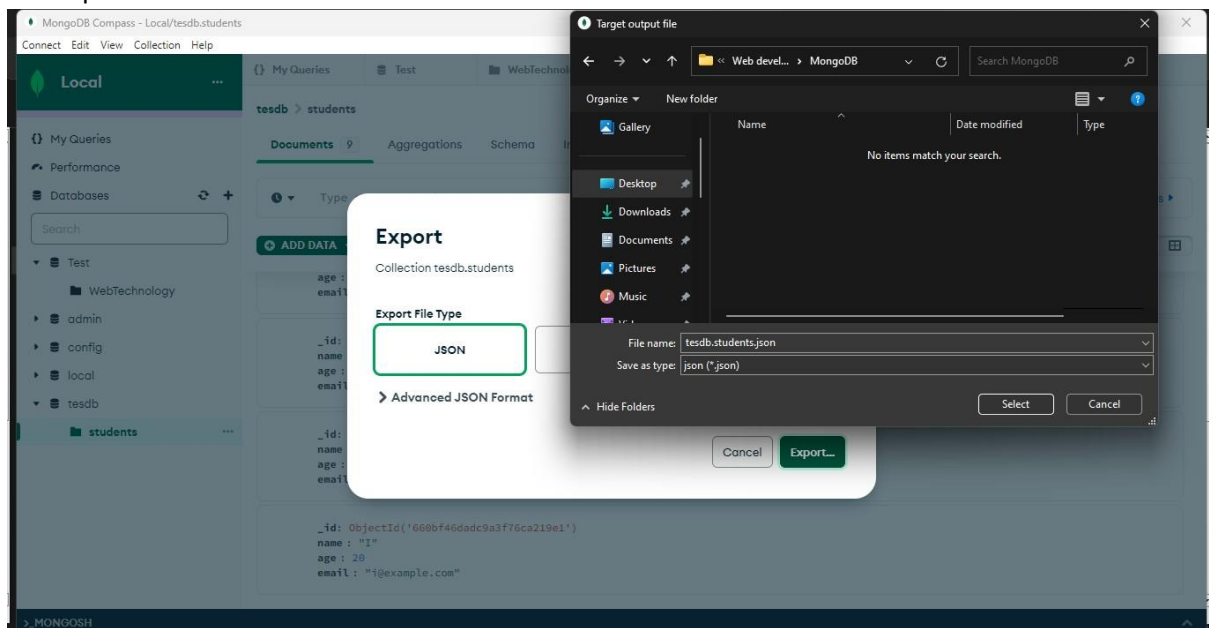
- Use the aggregation pipeline to calculate the average age of all students in the "students" collection.



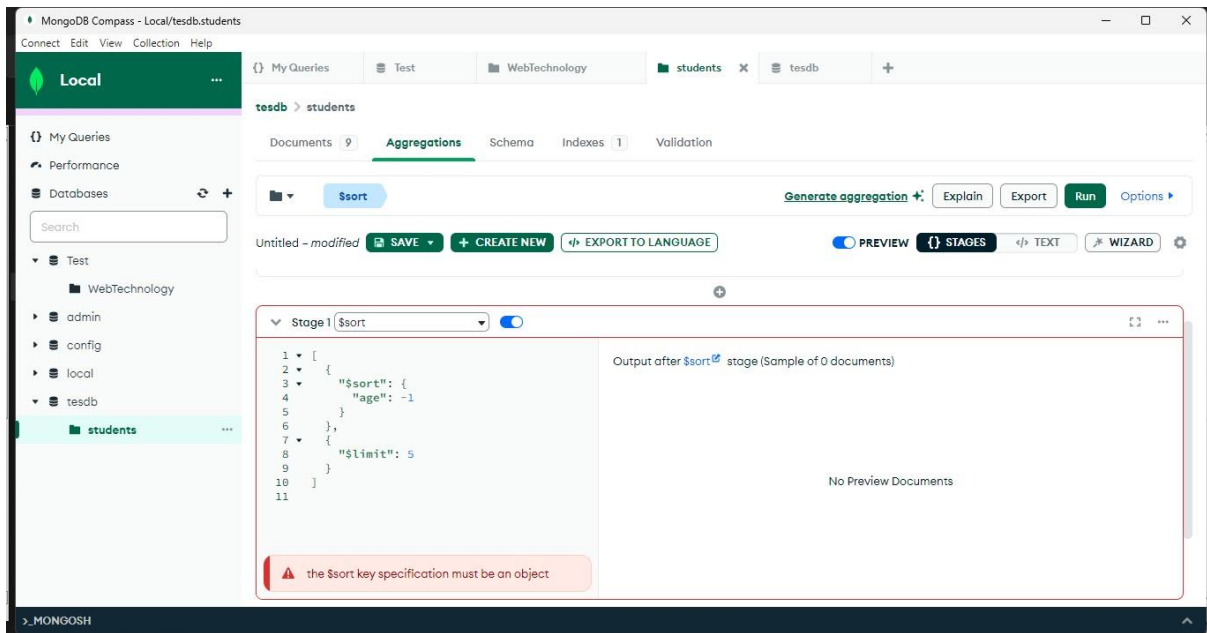
- Create an index on the "name" field in the "students" collection.



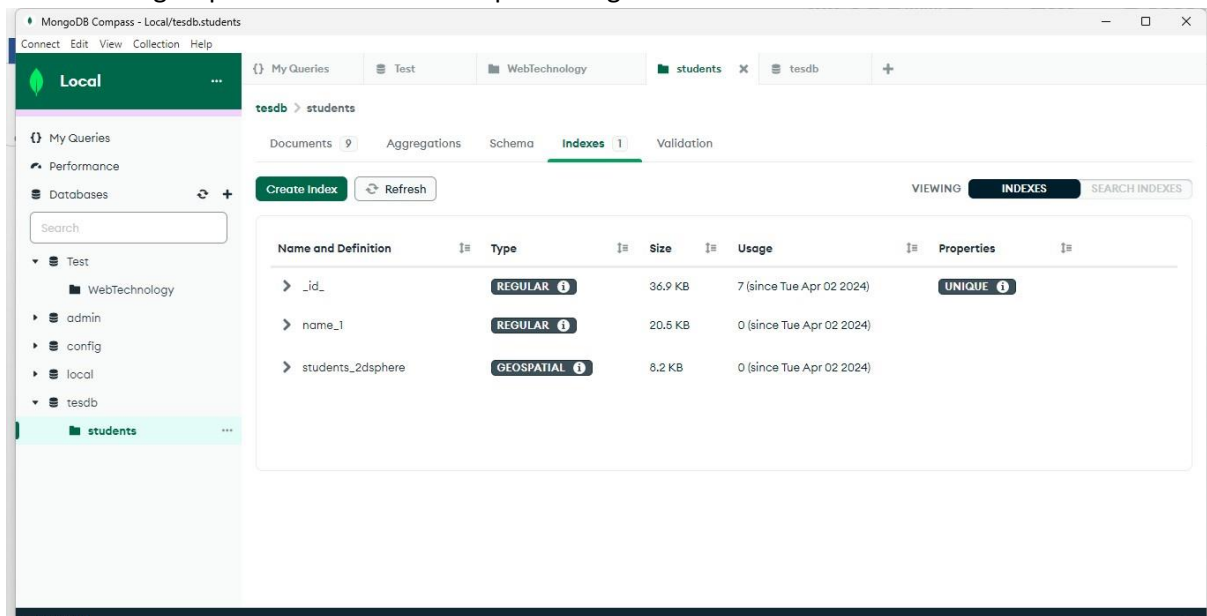
10. Export the contents of the "students" collection to a JSON file.



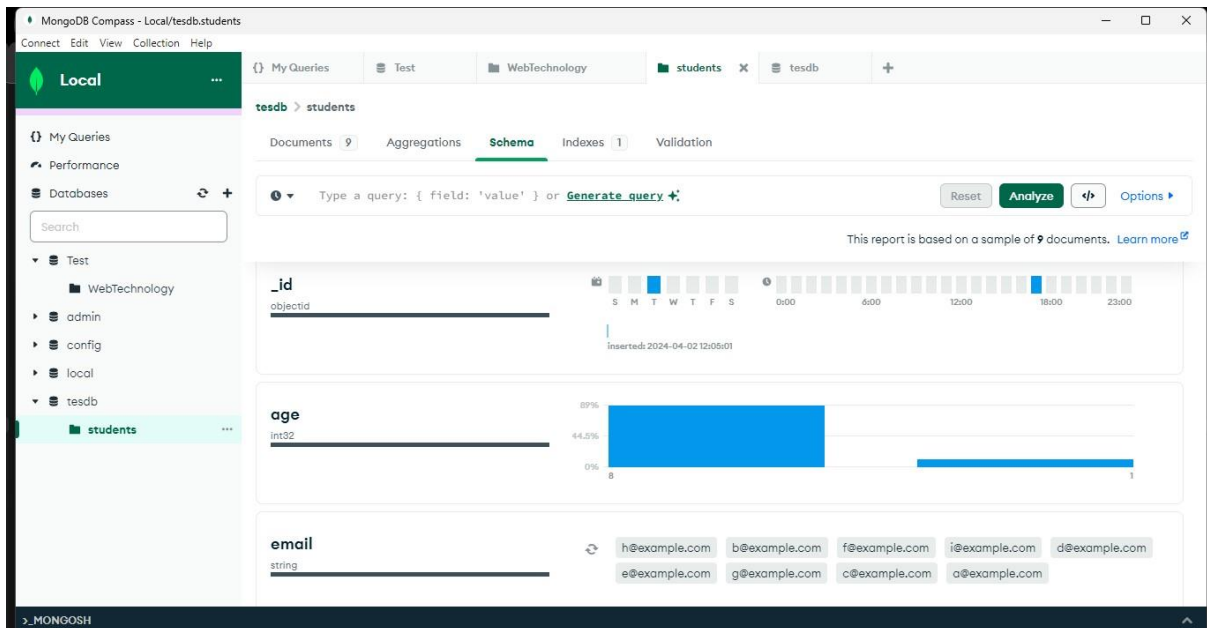
11. Perform a complex aggregation operation to find the top 5 oldest students in the "students" collection.



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



13. Use MongoDB Compass to visualize the data distribution in the "students" collection.



- Set up a data validation rule to ensure that documents in the "students" collection must have a non-empty name field.

