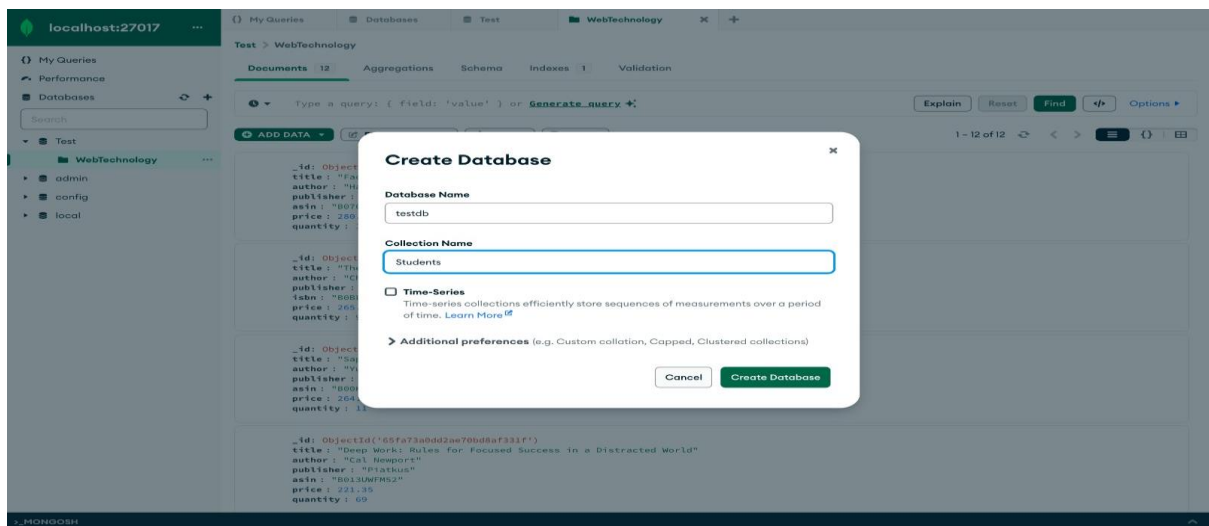


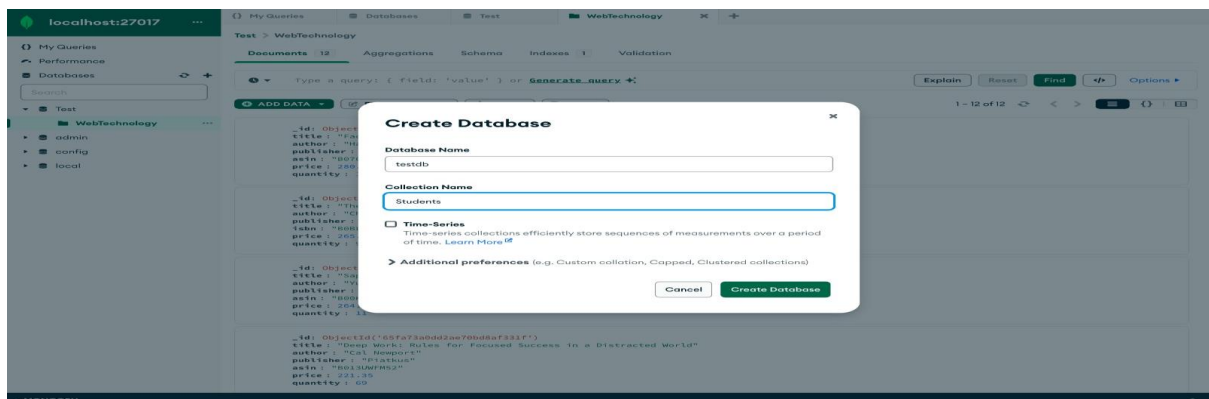
# Web Technology Assignment -10

Name-Bolla Uday  
Roll No.- 22CS3024

## Task-1



## Task-2



## Task-3

localhost:27017

My Queries Performance Databases Test Students

testdb > Students

Documents 11 Aggregations Schema Indexes 1 Validation

type a query | field: 'value' | or generate query

EXPLAIN RESET FIND OPTIONS

1- Full < > [1] [1]

ADD DATA EXPORT DATA UPDATE DELETE

```
{
  "_id": 1,
  "name": "Sensei",
  "age": 20,
  "email": "sensei@xyz.com"
},
{
  "_id": 2,
  "name": "Sumit",
  "age": 21,
  "email": "sumit@xyz.com"
},
{
  "_id": 3,
  "name": "Jabir",
  "age": 22,
  "email": "jabir@xyz.com"
},
{
  "_id": 4,
  "name": "Divya",
  "age": 23,
  "email": "divya@xyz.com"
},
{
  "_id": 5,
  "name": "Samay",
  "age": 24,
  "email": "samay@xyz.com"
},
{
  "_id": 6,
  "name": "Sunil",
  "age": 25,
  "email": "sunil@xyz.com"
},
{
  "_id": 7,
  "name": "Naruto",
  "age": 26,
  "email": "naruto@xyz.com"
},
{
  "_id": 8,
  "name": "Anshul",
  "age": 27,
  "email": "anshul@xyz.com"
},
{
  "_id": 9,
  "name": "Riya",
  "age": 28,
  "email": "riya@xyz.com"
},
{
  "_id": 10,
  "name": "Tannay",
  "age": 29,
  "email": "tannay@xyz.com"
}
```

## Task-4

localhost:27017

My Queries Performance Databases Test Students

testdb > Students

Documents 11 Aggregations Schema Indexes 1 Validation

Generate query RESET ANALYZE OPTIONS

This report is based on a sample of 11 documents. Learn more

Looking for data modeling tools? Check out Haxelade Studio

\_id  
objectId

age  
int32

E-mail  
string

Name  
string

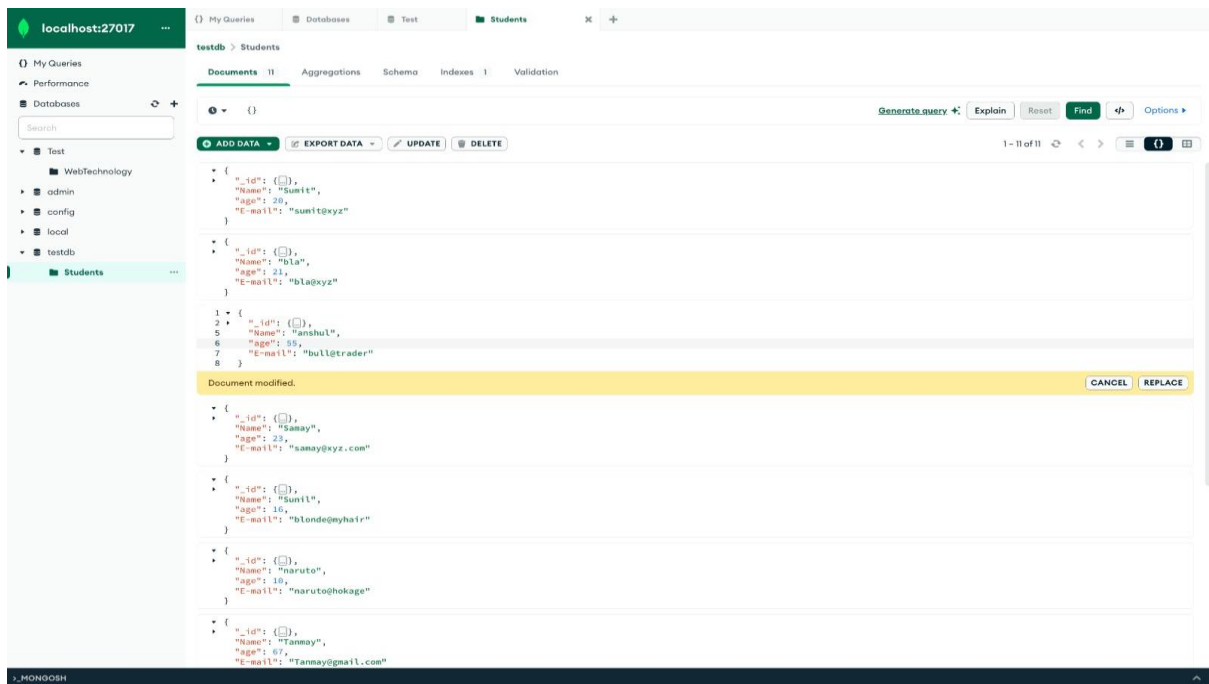
Inserted: 2024-03-20 05:02:54

27%  
15.5%  
0%  
1 1 1 3 1 1 1 1 1 1

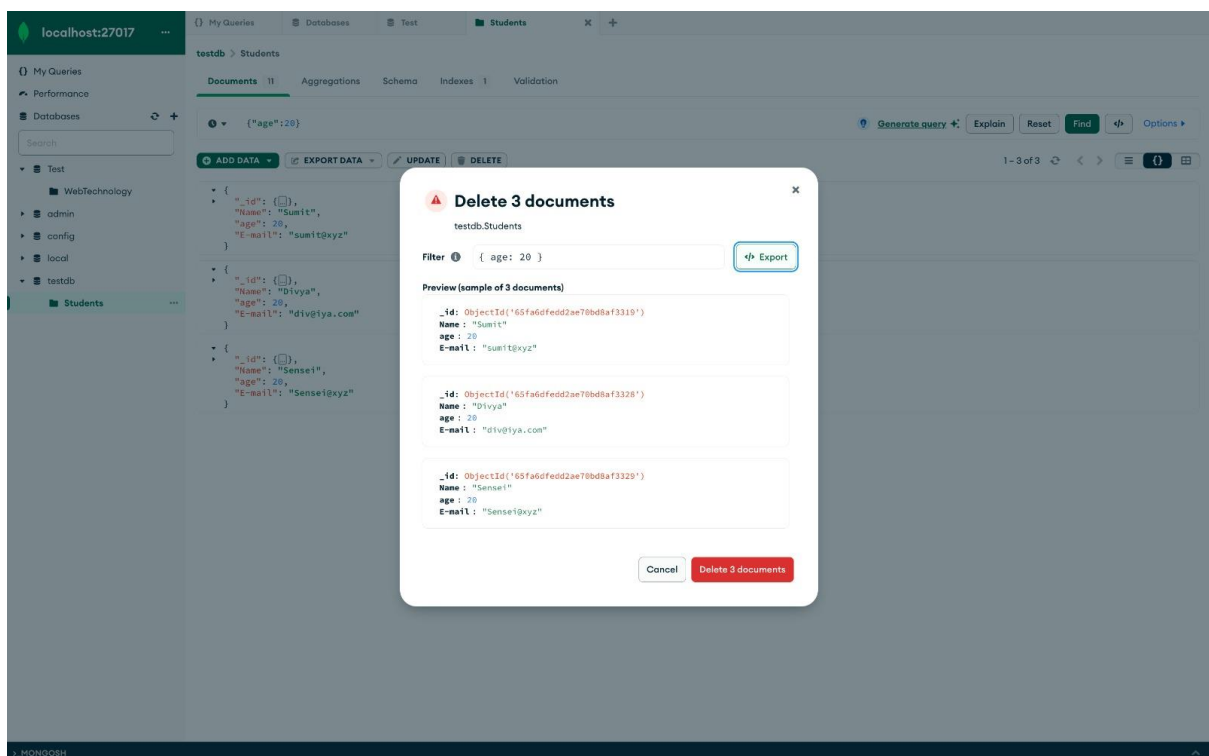
bla@xyz div@xyz.com blande@myhair samay@xyz.com naruto@hokage sumit@xyz Riya@gmail.com Jabir@koay.com  
Tannay@gmail.com bull@trader Sensei@xyz

Sensei Sumit Jabir Divya Samay Sunil naruto bla anshul Riya Tannay

## Task-5,6,7



## Task-8,9,10,11



## Task-12,13,14

The screenshot displays the MongoDB Compass web interface. On the left sidebar, the 'Databases' section is expanded, showing a list of databases including 'testdb'. The 'Students' database is selected. The main panel shows the 'Aggregations' tab for the 'Students' collection. A single aggregation stage, '\$group', is added to the pipeline. The pipeline editor shows the following JavaScript code:

```
1 // **
2 //   _id: The id of the group.
3 //   fieldN: The first field name.
4 // **
5 {
6   _id: null,
7   avgscore: {
8     $avg: "$age"
9   }
10 }
```

Below the code editor, the 'Output after \$group stage (Sample of 1 document)' is displayed as a JSON object:

```
{
  "_id": null,
  "avgscore": 28.909090909090901
}
```

At the bottom of the interface, there is a green button labeled '+ Add Stage' and a link that says 'Learn more about aggregation pipeline stages'.

# THE END