

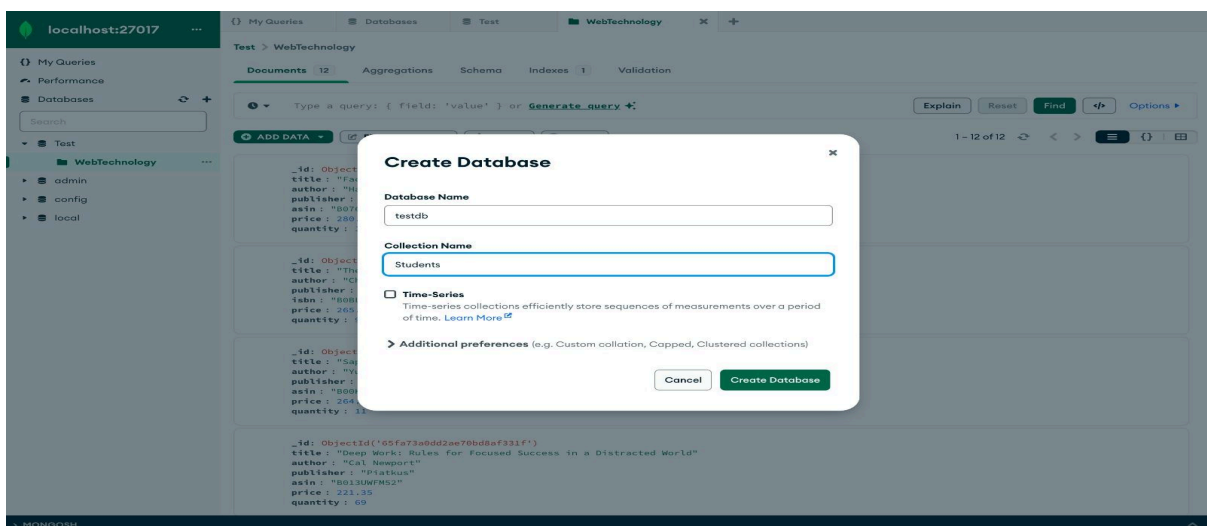
# Web Technology

## Assignment-10

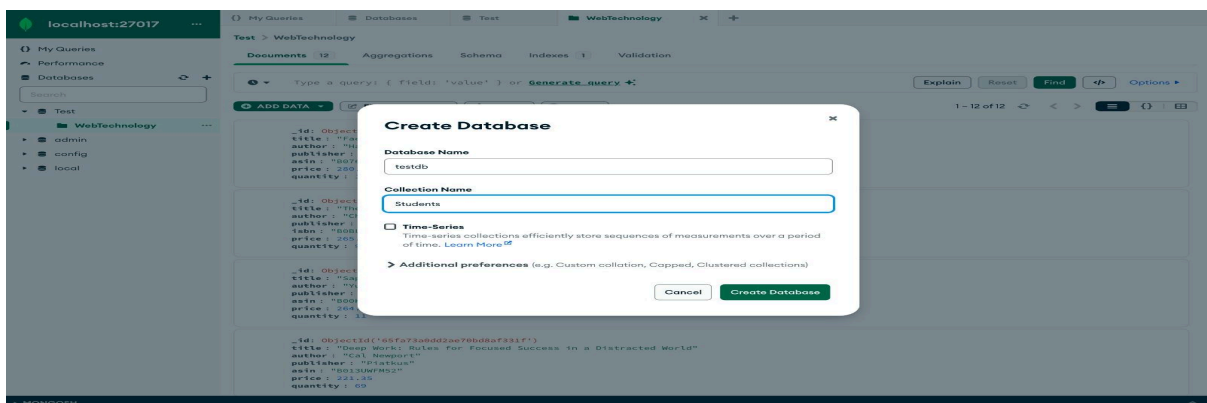
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### Task-1



### Task-2



# Task-3

The screenshot shows the MongoDB Compass interface. On the left, the 'testdb' database is selected, and the 'Students' collection is visible. The main panel displays a list of 10 documents, each representing a student. Each document has a unique '\_id' and contains fields for 'name', 'age', and 'email'. The documents are as follows:

_id	name	age	email
blond	blonde	20	blonde@xyz.com
bulld	bull	21	bull@trader.com
naruto	naruto	22	naruto@hokage.com
sumit	sumit	23	sumit@xyz.com
kiya	Kiya	24	Kiya@gmail.com
jaby	Jaby	25	Jaby@koay.com
sensei	Sensei	26	Sensei@xyz.com
tanmay	Tanmay	27	Tanmay@gmail.com
sunil	Sunil	28	sunil@xyz.com
divya	Divya	29	divya@xyz.com

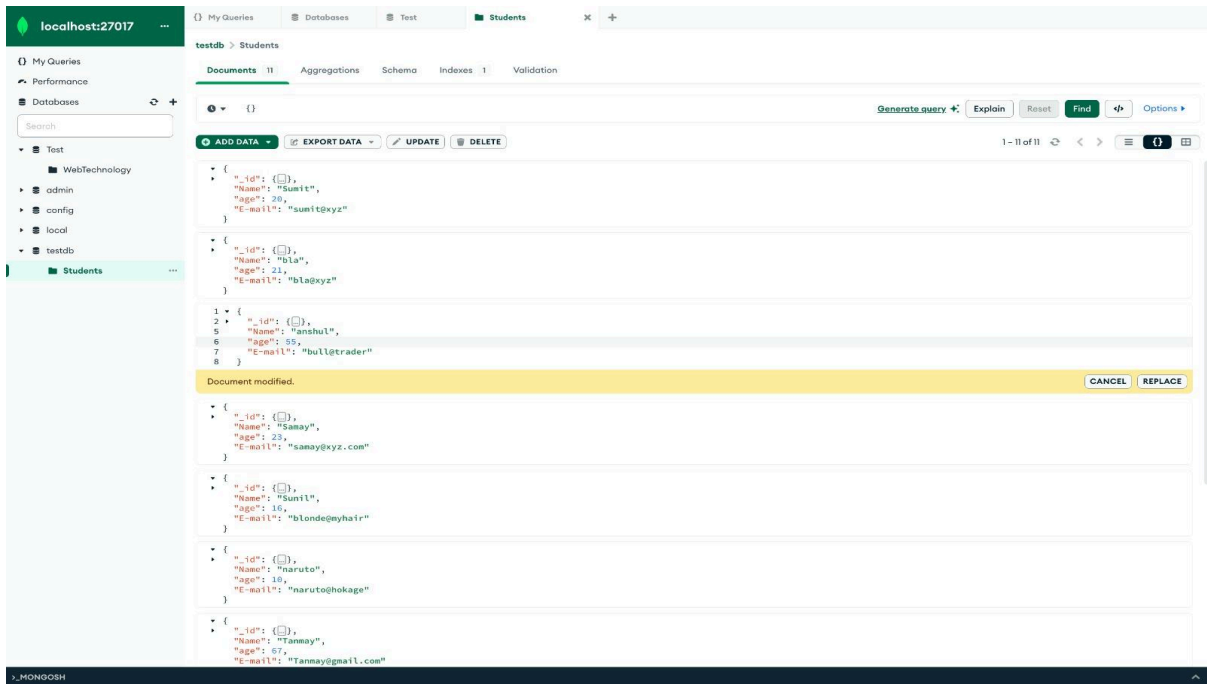
# Task-4

The screenshot shows the MongoDB Compass interface with the 'Students' collection selected. The 'Schema' tab is active, displaying the structure of the collection. The schema includes the following fields:

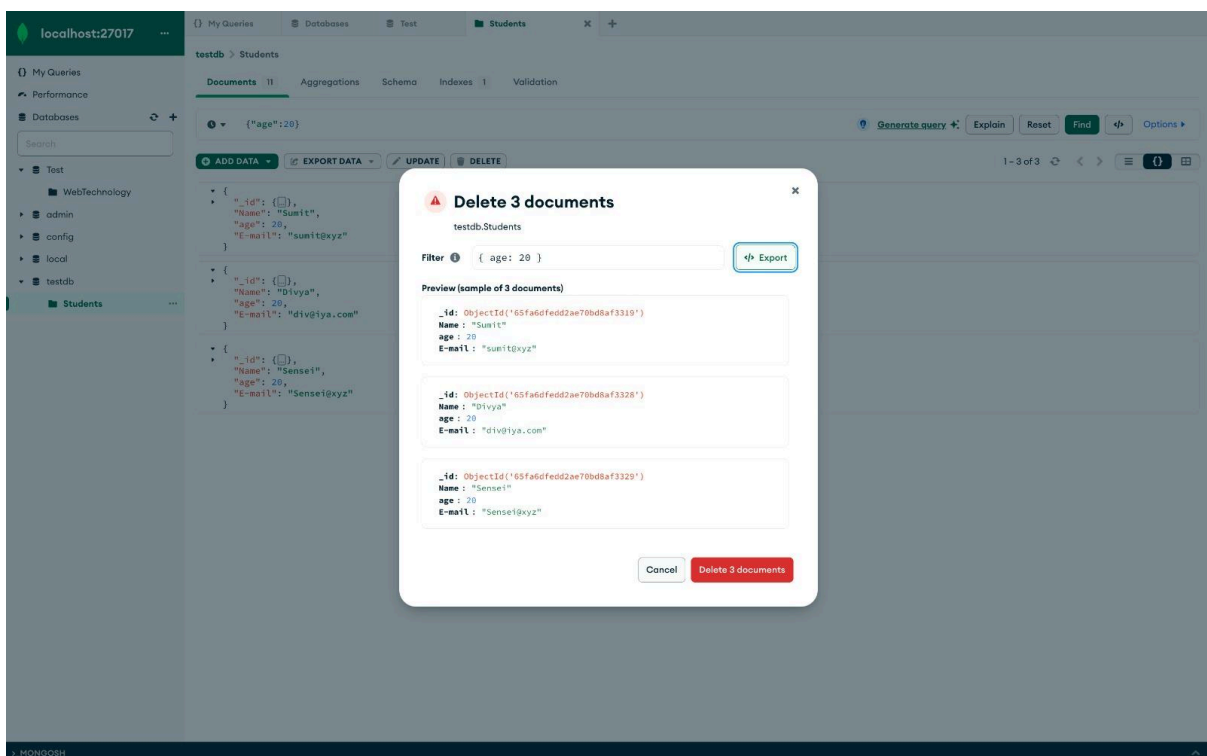
- \_id**: ObjectId, indexed.
- age**: Integer, indexed.
- E-mail**: String, indexed.
- Name**: String, indexed.

The 'age' field is highlighted, showing a distribution chart with a peak at 20. The 'E-mail' field is also highlighted, showing a list of email addresses: bla@xyz, div@xyz.com, blonde@myhair, samay@xyz.com, naruto@hokage, sumit@xyz, Kiya@gmail.com, Jaby@koay.com, Tanmay@gmail.com, bull@trader, and Sensei@xyz.

## 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 'Students' collection is selected under the 'testdb' database. The main panel shows the 'Aggregations' tab with a single stage named '\$group'. The pipeline editor on the left contains 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 }
```

On the right, the 'Output after \$group stage (Sample of 1 document)' is shown as a JSON object:

```
{
  "_id": null,
  "avgscore": 28.90909090909091
}
```

Below the output, there is a '+ Add Stage' button and a link to 'Learn more about aggregation pipeline stages'.

# THE END