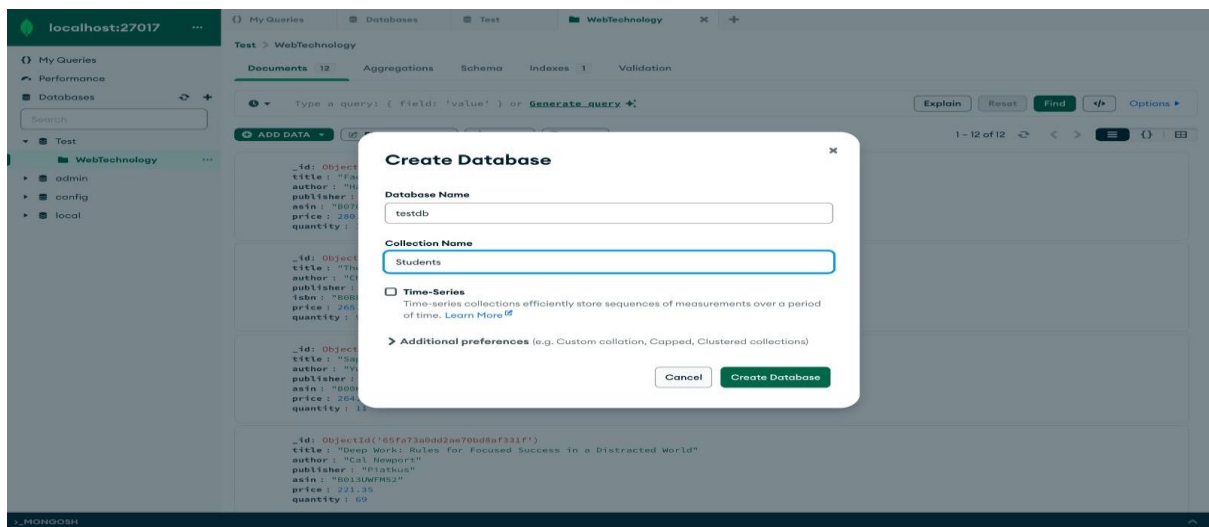


LAB ASSIGNMENT

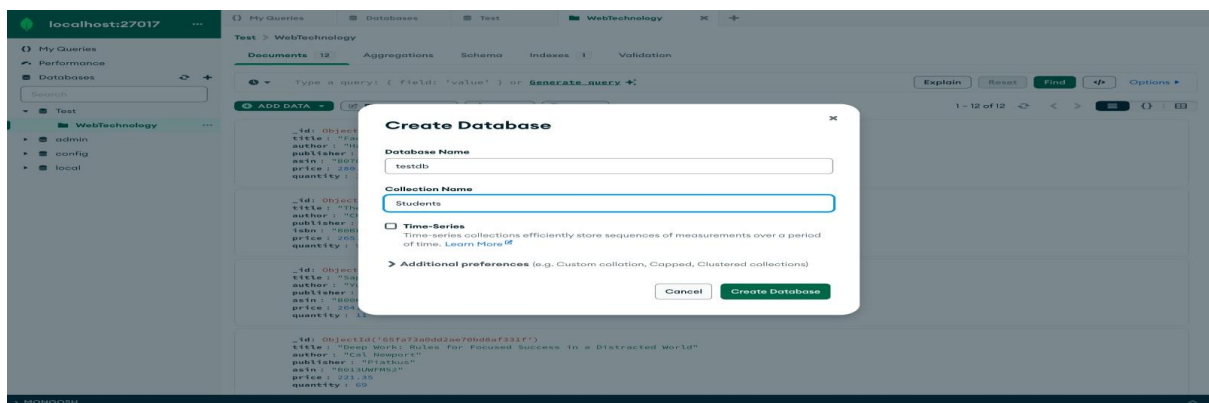
NAME-ANKIT VERMA

ROLL.NO-22CS3009

Q1



Q2



Q3

localhost:27017

testdb > Students

Documents | Aggregations | Schema | Indexes | Validation

type a query, a field, 'value' or generate query

ADD DATA | EXPORT DATA | UPDATE | DELETE

```
{
  "_id": {
    "name": "Samsat",
    "age": 20,
    "email": "saml@xyz"
  },
  "_id": {
    "name": "Sami",
    "age": 21,
    "email": "sml@xyz"
  },
  "_id": {
    "name": "Samsul",
    "age": 20,
    "email": "sml@trader"
  },
  "_id": {
    "name": "Samsy",
    "age": 23,
    "email": "samsy@xyz.com"
  },
  "_id": {
    "name": "Samsul",
    "age": 20,
    "email": "sml@ndshkalm"
  },
  "_id": {
    "name": "Samsat",
    "age": 20,
    "email": "samsat@hake"
  },
  "_id": {
    "name": "Samsy",
    "age": 27,
    "email": "samsy@gmail.com"
  },
  "_id": {
    "name": "Jaby",
    "age": 27,
    "email": "samsy@xyz.com"
  },
  "_id": {
    "name": "Riya",
    "age": 24,
    "email": "samsy@gmail.com"
  },
  "_id": {
    "name": "Ritika",
    "age": 20,
    "email": "samsy@xyz.com"
  },
  "_id": {
    "name": "Samsat",
    "age": 20,
    "email": "samsat@xyz"
  }
}
```

Q4

localhost:27017

testdb > Students

Documents | Aggregations | Schema | Indexes | Validation

Generate query | Reset | Analyze | Options

Looking for data modeling tools? Check out Hackolade Studio.

_id objectid

Inserted: 2024-03-20 08:02:44

age int32

27% 13.5% 0%

1 1 1 3 1 1 1 1 1

E-mail string

blat@xyz div@iya.com blande@myhair samsy@xyz.com naruto@hokage sumit@xyz Riya@gmail.com Jaby@koay.com
Tanmay@gmail.com bull@trader Sensei@xyz

Name string

Sensei Sumit Jaby Divya Samay Sunil naruto bla anshul Riya Tanmay

Q5,6,7

localhost:27017

testdb > Students

Documents 11 Aggregations Schema Indexes Validation

Generate query Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

1 - 11 of 11

Document modified.

CANCEL REPLACE

```
{
  "_id": "1",
  "Name": "Sumit",
  "age": 20,
  "E-mail": "sumit@xyz"
}
{
  "_id": "2",
  "Name": "Bla",
  "age": 21,
  "E-mail": "bla@xyz"
}
{
  "_id": "3",
  "Name": "anshul",
  "age": 19,
  "E-mail": "bul@trader"
}
{
  "_id": "4",
  "Name": "Samay",
  "age": 23,
  "E-mail": "samay@xyz.com"
}
{
  "_id": "5",
  "Name": "Sunil",
  "age": 16,
  "E-mail": "blonde@myhair"
}
{
  "_id": "6",
  "Name": "naruto",
  "age": 18,
  "E-mail": "naruto@hokage"
}
{
  "_id": "7",
  "Name": "Tanmay",
  "age": 17,
  "E-mail": "Tanmay@gmail.com"
}
```

Q8,9,10,11

localhost:27017

testdb > Students

Documents 11 Aggregations Schema Indexes Validation

Generate query Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

1 - 3 of 3

Delete 3 documents

testdb Students

Filter { age: 20 }

Export

Preview (sample of 3 documents)

```
{
  "_id": "65fa6dfedd2ae78bd8af3319",
  "Name": "Sumit",
  "age": 20,
  "E-mail": "sumit@xyz"
}
{
  "_id": "65fa6dfedd2ae78bd8af3328",
  "Name": "Divya",
  "age": 20,
  "E-mail": "div@iya.com"
}
{
  "_id": "65fa6dfedd2ae78bd8af3329",
  "Name": "Sensei",
  "age": 20,
  "E-mail": "Sensei@xyz"
}
```

Q12,13,14

localhost:27017

My Queries

Performance

Databases

Search

Test

WebTechnology

admin

config

local

testdb

Students

My Queries

Databases

Test

Students

testdb > Students

Documents 11 | Aggregations | Schema | Indexes 1 | Validation

\$group

Generate aggregation

Explain

Export

Run

Options

Untitled - modified | SAVE | CREATE NEW | EXPORT TO LANGUAGE

PREVIEW | STAGES | TEXT | WIZARD

1 Document in the collection

Stage 1 \$group

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 }

Output after \$group stage (Sample of 1 document)
_id: null
avgscore : 28.90909090909091

+ Add Stage

Learn more about aggregation pipeline stages

3_MONGOSH