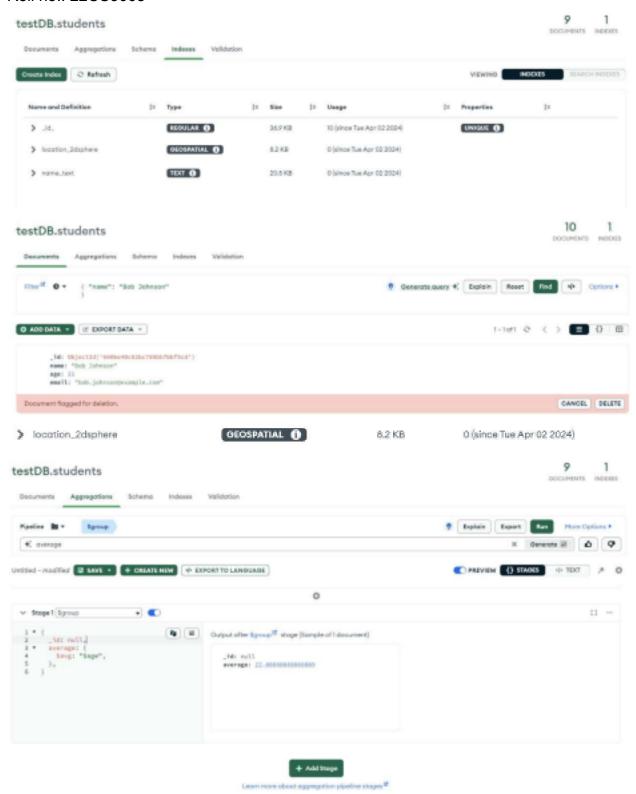Name : YASH PATEL
Roll no.: 22CS3068

## testDB.students

9 DOCUMENTS    1 INDEXES

Documents   Aggregations   Schema   **Indexes**   Validation

**Create Index**   ⟳ Refresh

VIEWING   **INDEXES**   SEARCH INDEXES

| Name and Definition | Type | Size | Usage | Properties |
|---|---|---|---|---|
| > _id_ | REGULAR ⓘ | 36.9 KB | 10 (since Tue Apr 02 2024) | UNIQUE ⓘ |
| > location_2dsphere | GEOSPATIAL ⓘ | 8.2 KB | 0 (since Tue Apr 02 2024) | |
| > name_text | TEXT ⓘ | 20.5 KB | 0 (since Tue Apr 02 2024) | |

## testDB.students

10 DOCUMENTS    1 INDEXES

**Documents**   Aggregations   Schema   Indexes   Validation

Filter ⓘ ▾   { "name": "Bob Johnson" }

💡 Generate query   Explain   Reset   **Find**   ⟨⟩   Options ▸

⊕ ADD DATA ▾   ⬑ EXPORT DATA ▾

1-1of1   ⟲   ‹ › ☰ {} ⊞

```
_id: ObjectId('660be40c82bc79908768ftcd')
name: "Bob Johnson"
age: 21
email: "bob.johnson@example.com"
```

Document flagged for deletion.    CANCEL   DELETE

> location_2dsphere    GEOSPATIAL ⓘ    8.2 KB    0 (since Tue Apr 02 2024)

## testDB.students

9 DOCUMENTS    1 INDEXES

Documents   **Aggregations**   Schema   Indexes   Validation

Pipeline 📁 ▾   $group

💡 Explain   Export   **Run**   More Options ▸

+ average    ✕   Generate ✦   👍   👎

Untitled – modified   💾 SAVE ▾   + CREATE NEW   ⬑ EXPORT TO LANGUAGE

◉ PREVIEW   {} STAGES   ⟨⟩ TEXT   🔧   ⚙

⊕

∨ Stage 1 $group    ▾ 🔵

```
1 ▾ {
2     _id: null,
3 ▾   average: {
4       $avg: "$age",
5     },
6   }
```

Output after $group stage [Sample of 1 document]

```
_id: null
average: 21.86868686868689
```

+ Add Stage

Learn more about aggregation pipeline stages ⬈

Documents    Aggregations    Schema    **Indexes**    Validation

Create Index    ⟳ Refresh

VIEWING    **INDEXES**    SEARCH INDEXES

| Name and Definition | ⇅ | Type | ⇅ | Size | ⇅ | Usage | ⇅ | Properties | ⇅ |
|---|---|---|---|---|---|---|---|---|---|
| ➤  _id_ | | REGULAR ⓘ | | 36.9 KB | | 8 (since Tue Apr 02 2024) | | UNIQUE ⓘ | |
| ➤  name_text | | TEXT ⓘ | | 20.5 KB | | 0 (since Tue Apr 02 2024) | | | |

| Project | { field: 0 } | | |
|---|---|---|---|
| Sort | {"age": -1} | MaxTimeMS | 60000 |
| Collation | { locale: 'simple' } | Skip  0 | Limit  0 |

⊕ ADD DATA ▾    ⇳ EXPORT DATA ▾          1–9 of 9  ⟳  < >  ☰ {} ▭

```
  name: "John Doe"
  age: 35
  email: "john.doe@example.com"

  _id: ObjectId('660be40c62bc7856b7b6f9d3')
  name: "James Brown"
  age: 24
  email: "james.brown@example.com"

  _id: ObjectId('660be40c62bc7856b7b6f9ce')
  name: "Emily Davis"
  age: 25
  email: "emily.davis@example.com"

  _id: ObjectId('660be40c62bc7856b7b6f9cc')
  name: "Alice Smith"
  age: 22
  email: "alice.smith@example.com"
```

# Create Database

**Database Name**

testDB

**Collection Name**

☐ **Time-Series**
Time-series collections efficiently store sequences of measurements over a period of time. Learn More

❯ **Additional preferences** (e.g. Custom collation, Capped, Clustered collections)

ℹ️ Before MongoDB can save your new database, a collection name must also be specified at the time of creation. **More Information**

Cancel    Create Database

---

**testDB.students**

10 DOCUMENTS    1 INDEXES

Documents    Aggregations    Schema    Indexes    Validation

Filter   ⊙ ▾    Type a query: { field: 'value' } or **generate_query** ✦

Explain    Reset    **Find**    ◆    Options ▸

⊕ ADD DATA ▾    ☑ EXPORT DATA ▾    1–10 of 10   ↻   ‹ ›

```
_id: ObjectId('660be46c02bc7858b7bbf5cb')
name: "John Doe"
age: 20
email: "john.doe@example.com"

_id: ObjectId('660be46c02bc7858b7bbf5cc')
name: "Alice Smith"
age: 22
email: "alice.smith@example.com"

_id: ObjectId('660be46c02bc7858b7bbf5cd')
name: "Bob Johnson"
age: 21
email: "bob.johnson@example.com"

_id: ObjectId('660be46c02bc7858b7bbf5ce')
name: "Emily Davis"
age: 23
email: "emily.davis@example.com"

_id: ObjectId('660be46c02bc7858b7bbf5cf')
name: "Michael Wilson"
```

## Insert Document

To collection testDB.students

VIEW {} ≡

```
 1 ▾ [
 2 ▾     {
 3           "name": "John Doe",
 4           "age": 20,
 5           "email": "john.doe@example.com"
 6       },
 7 ▾     {
 8           "name": "Alice Smith",
 9           "age": 22,
10           "email": "alice.smith@example.com"
11       },
12 ▾     {
13           "name": "Bob Johnson",
14           "age": 21,
15           "email": "bob.johnson@example.com"
16       },
17 ▾     {
18           "name": "Emily Davis",
19           "age": 23,
20           "email": "emily.davis@example.com"
21       },
22 ▾     {
23           "name": "Michael Wilson",
24           "age": 19,
25           "email": "michael.wilson@example.com"
26       },
27 ▾     {
28           "name": "Sophia Martinez",
```

Cancel    Insert

## Export

Collection testDB.students

### Export File Type

JSON    CSV

> Advanced JSON Format

Cancel    Export...

## testDB.students

9 DOCUMENTS  1 INDEXES

Documents  Aggregations  **Schema**  Indexes  Validation

Filter  ⚙ ▾   {}

Generate query  ✚  [ Reset ]  [ Analyze ]  ⬍  Options ▾

**Project**  { field: 0 }

**Sort**  {"age": -1}    **MaxTimeMS**  60000

**Collation**  { locale: 'simple' }    **Skip**  0    **Limit**  0

This report is based on a sample of 9 documents. Learn more

🔖  Looking for data modeling tools?    Check out Hackolade Studio

**_id**
objectId

S M T W T F S    0:00   6:00   12:00   18:00   23:00

Inserted 2024-04-02 10:44:08

**age**
int32

22%

11%

0%

---

## testDB.students

10 DOCUMENTS  1 INDEXES

**Documents**  Aggregations  Schema  Indexes  Validation

Filter  ⚙ ▾   { "name": "Bob Johnson"
}

💡 Generate query ✚  [ Explain ]  [ Reset ]  [ **Find** ]  ⬍  Options ▸

[ ⊕ ADD DATA ▾ ]  [ ⬆ EXPORT DATA ▾ ]    1-1 of 1  ↻  ‹ ›  ▣  {}  ▦

```
_id: ObjectId("568be40c82bc7868876f9c0f")
name: "Bob Johnson"
age: 31
email: "bob.johnson@example.com"
```

Document flagged for deletion.    [ CANCEL ]  [ DELETE ]

---

🟢 MongoDB Compass - localhost:27017

Connect  Edit  View  Help

🍃  **localhost:27017**  ⋯

**My Queries**  Databases  Performance

{} My Queries

🗄 Databases    ↻ ✚

Search

# Create Database

✕

**Database Name**

testDB

**Collection Name**

students

☐ **Time-Series**

Time-series collections efficiently store sequences of measurements over a period of time. Learn More ⧉

❯ **Additional preferences** (e.g. Custom collation, Capped, Clustered collections)

[ Cancel ]    [ **Create Database** ]