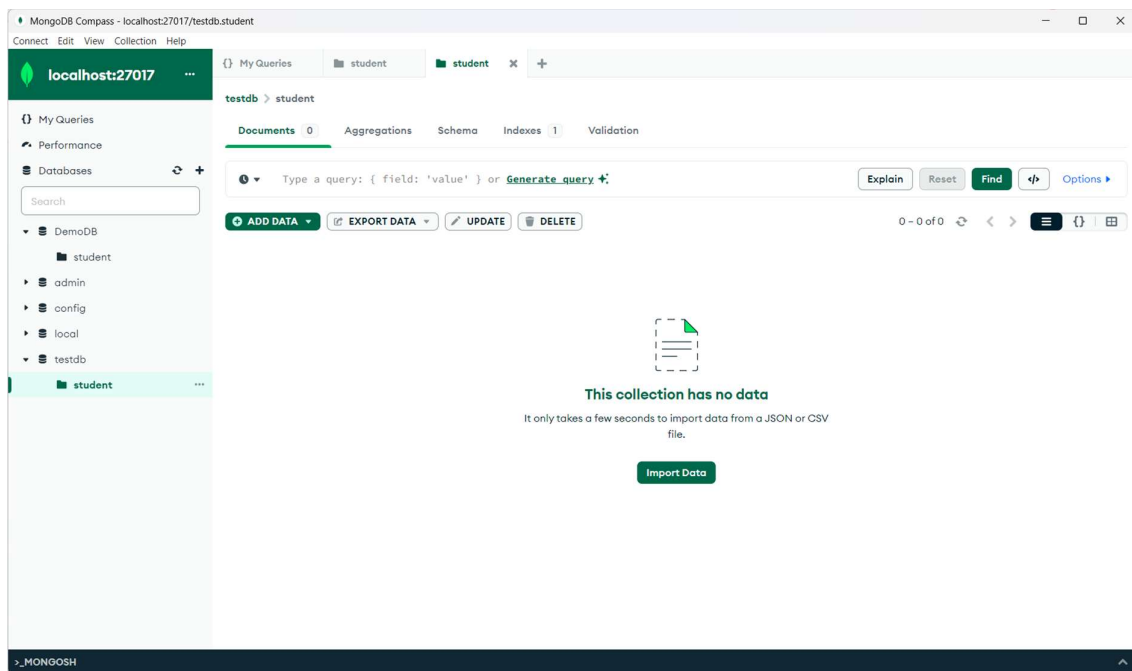
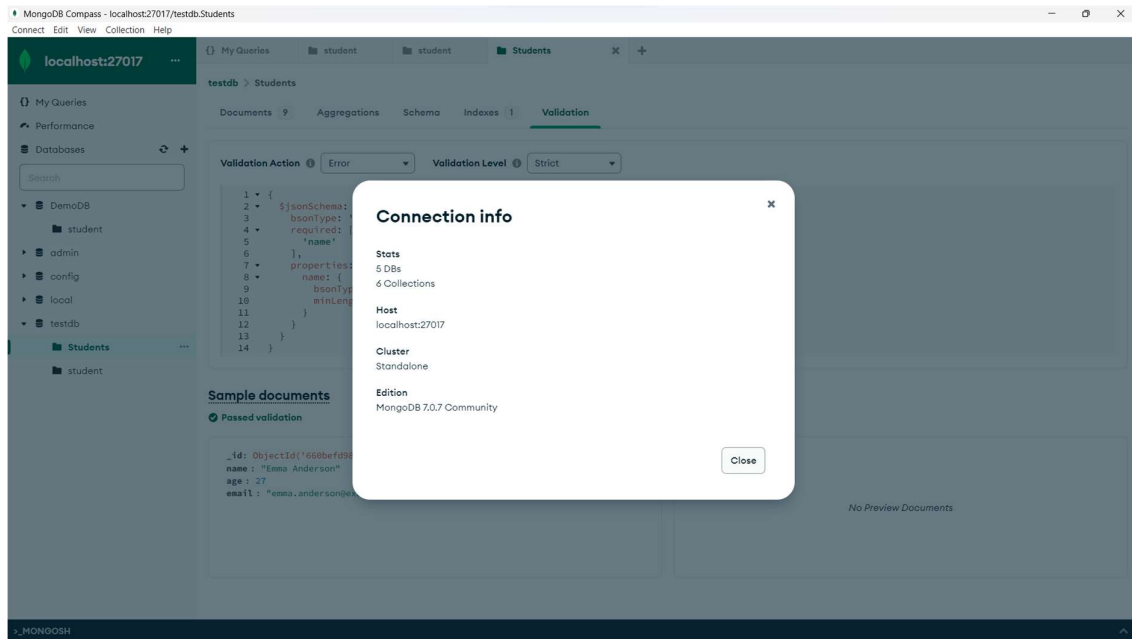
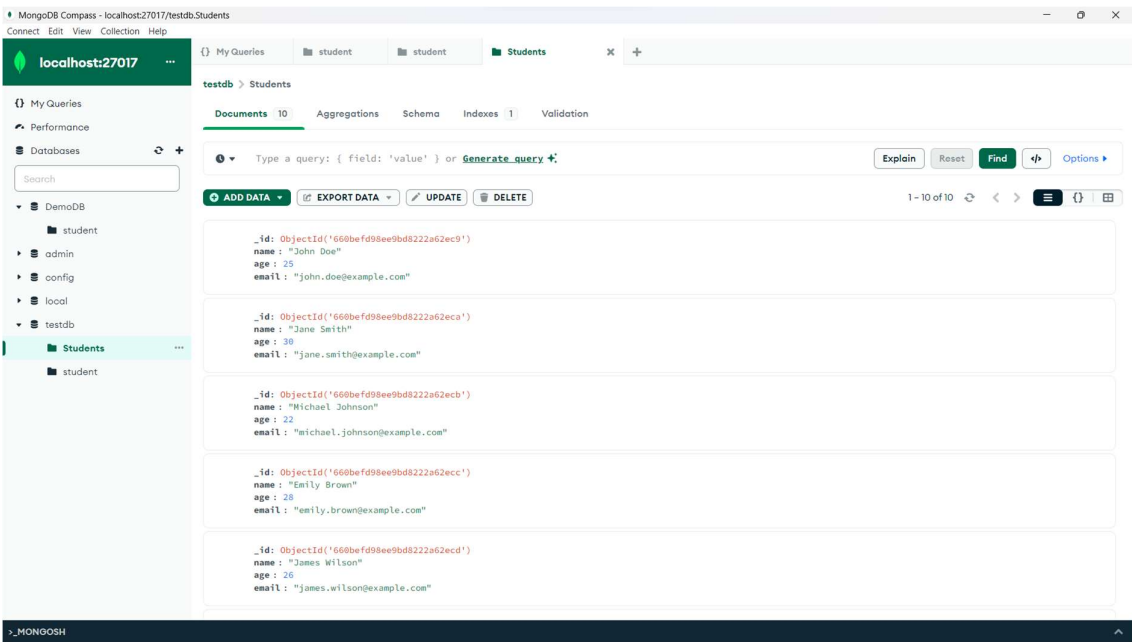
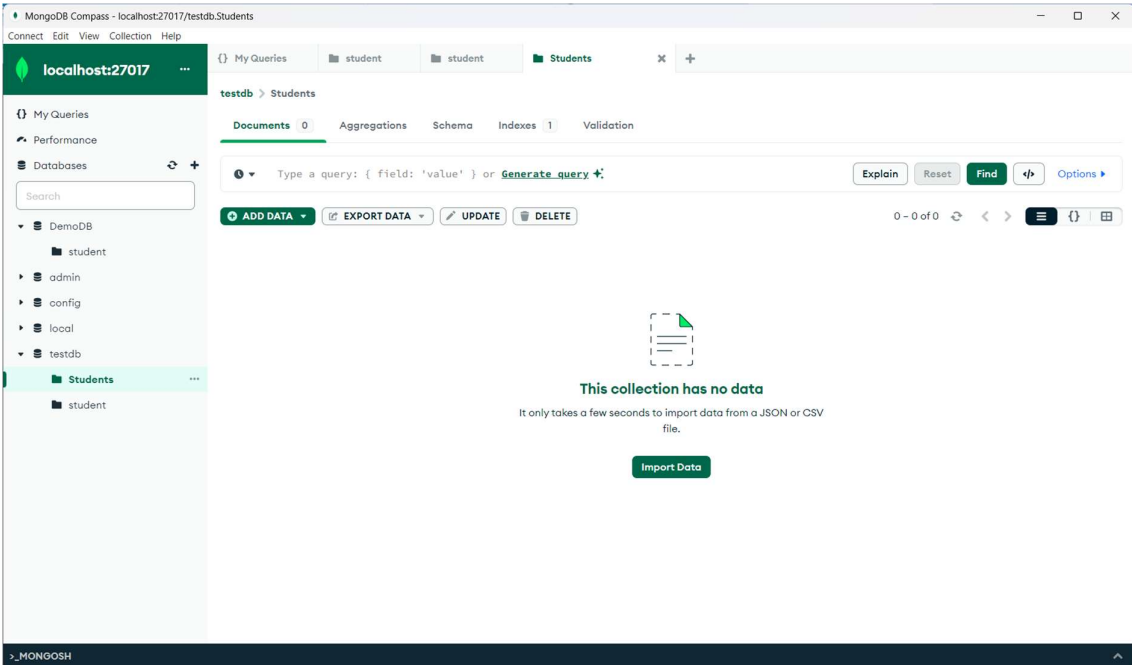


Name – Keshav Kumar

Roll No. – 22cs3034





MongoDB Compass - localhost:27017/testdb.Students

Connect Edit View Collection Help

localhost:27017

My Queries Performance Databases DemoDB student admin config local testdb **Students** student

testdb > Students

Documents 10 Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#)

Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

1 - 10 of 10

Document updated.

<code>{ "_id": ObjectId("660befd98ee9bd8222a62ec9"), "name": "John Doe", "age": 26, "email": "john.doe@example.com" }</code>
<code>{ "_id": ObjectId("660befd98ee9bd8222a62eca"), "name": "Jane Smith", "age": 38, "email": "jane.smith@example.com" }</code>
<code>{ "_id": ObjectId("660befd98ee9bd8222a62ecb"), "name": "Michael Johnson", "age": 22, "email": "michael.johnson@example.com" }</code>
<code>{ "_id": ObjectId("660befd98ee9bd8222a62ecc"), "name": "Emily Brown", "age": 28, "email": "emily.brown@example.com" }</code>
<code>{ "_id": ObjectId("660befd98ee9bd8222a62ecd"), "name": "James Wilson", "age": 26, "email": "james.wilson@example.com" }</code>

> MONGODB

MongoDB Compass - localhost:27017/testdb.Students

Connect Edit View Collection Help

localhost:27017

My Queries Performance Databases DemoDB student admin config local testdb **Students** student

testdb > Students

Documents 9 Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#)

Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

1 - 9 of 9

Document deleted.

<code>{ "_id": ObjectId("660befd98ee9bd8222a62ec9"), "name": "John Doe", "age": 26, "email": "john.doe@example.com" }</code>
<code>{ "_id": ObjectId("660befd98ee9bd8222a62ecb"), "name": "Michael Johnson", "age": 22, "email": "michael.johnson@example.com" }</code>
<code>{ "_id": ObjectId("660befd98ee9bd8222a62ecc"), "name": "Emily Brown", "age": 28, "email": "emily.brown@example.com" }</code>
<code>{ "_id": ObjectId("660befd98ee9bd8222a62ecd"), "name": "James Wilson", "age": 26, "email": "james.wilson@example.com" }</code>
<code>{ "_id": ObjectId("660befd98ee9bd8222a62ece"), "name": "Sarah Taylor", "age": 24, "email": "sarah.taylor@example.com" }</code>

> MONGODB

MongoDB Compass - localhost:27017/testdb.Students

Connect Edit View Collection Help

localhost:27017

My Queries Performance Databases Search

DemoDB

- student
- admin
- config
- local
- testdb
 - Students
 - student

testdb > Students

Documents Aggregations Schema Indexes Validation

Generate aggregation + Explain Export Run Options

Untitled - modified SAVE CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT WIZARD

0 Documents in the collection

Preview of documents

Stage 1 \$group

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

Output after \$group stage (Sample of 1 document)

```
_id: null
averageAge: 26.22222222222222
```

+ Add Stage

Learn more about aggregation pipeline stages

> MONGODB

MongoDB Compass - localhost:27017/testdb.Students

Connect Edit View Collection Help

localhost:27017

My Queries Performance Databases Search

DemoDB

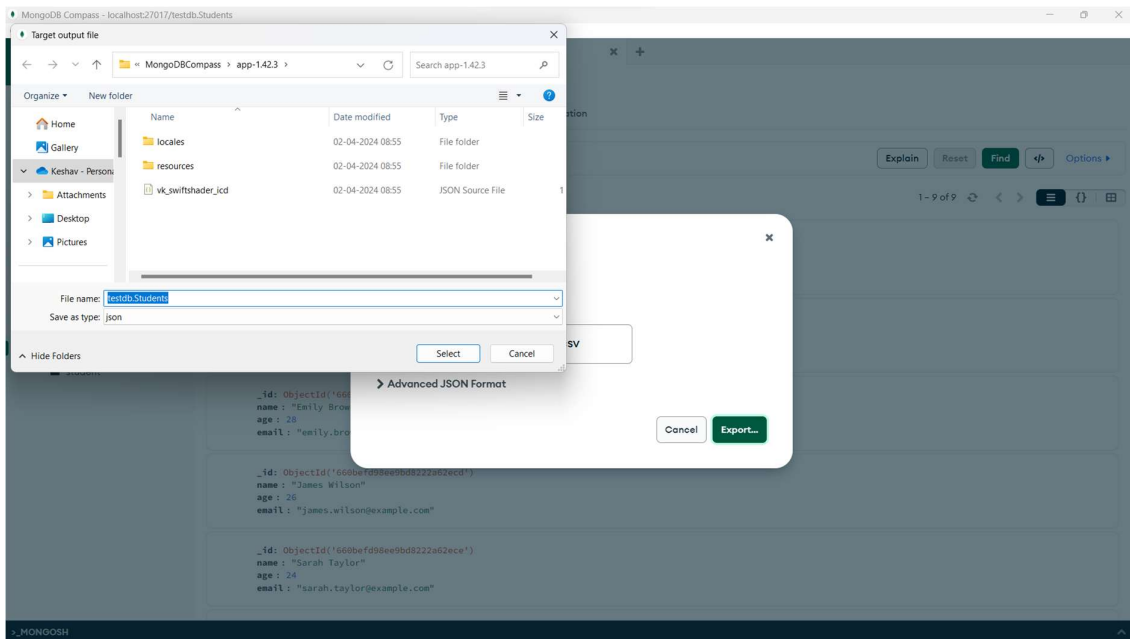
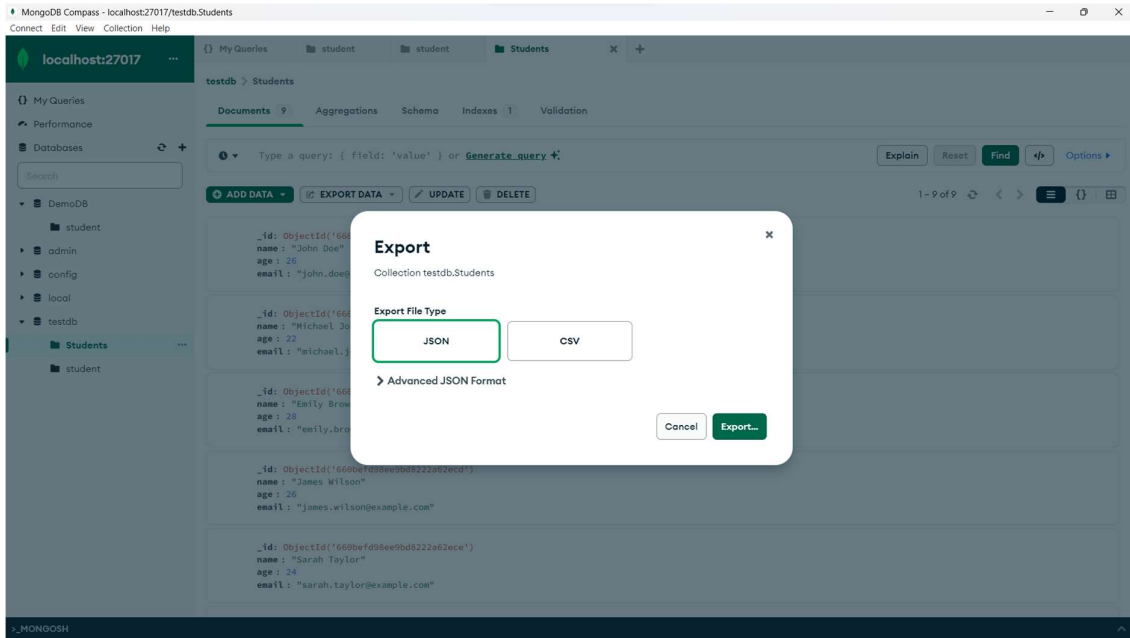
- student
- admin
- config
- local
- testdb
 - Students
 - student

testdb > Students

Documents Aggregations Schema Indexes Validation

Create Index Refresh VIEWING INDEXES SEARCH INDEXES

Name and Definition	Type	Size	Usage	Properties
> _id_	REGULAR	36.9 KB	5 (since Tue Apr 02 2024)	UNIQUE
> name_text	TEXT	20.5 KB	0 (since Tue Apr 02 2024)	



MongoDB Compass - localhost:27017/testdb.Students

Connect Edit View Collection Help

localhost:27017

My Queries Performance Databases DemoDB student admin config local testdb Students student

testdb > Students

Documents 9 Aggregations Schema Indexes Validation

Sort Generate aggregation + Explain Export Run Options

Untitled - modified SAVE CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT WIZARD

0 Documents in the collection

Preview of documents

Stage 1 Sort

1 { age:-1
2
3 }
4

Output after \$sort stage (Sample of 9 documents)

```
{ "_id": ObjectId("660befd98ee9bd822a62ed2"), "name": "Olivia Garcia", "age": 31, "email": "olivia.garcia@example.com" }
{ "_id": ObjectId("660befd98ee9bd822a62ecf"), "name": "David Martinez", "age": 29, "email": "david.martinez@example.com" }
```

+ Add Stage

Export completed. 9 documents written. SHOW FILE

Learn more about aggregation pipeline stages

MongoDB Compass - localhost:27017/testdb.Students

Connect Edit View Collection Help

localhost:27017

My Queries Performance Databases DemoDB student admin config local testdb Students student

testdb > Students

Documents 9 Aggregations Schema Indexes Validation

Sort Generate aggregation + Explain Export Run Options

Untitled - modified SAVE CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT WIZARD

0 Documents in the collection

Preview of documents

Stage 1 Sort

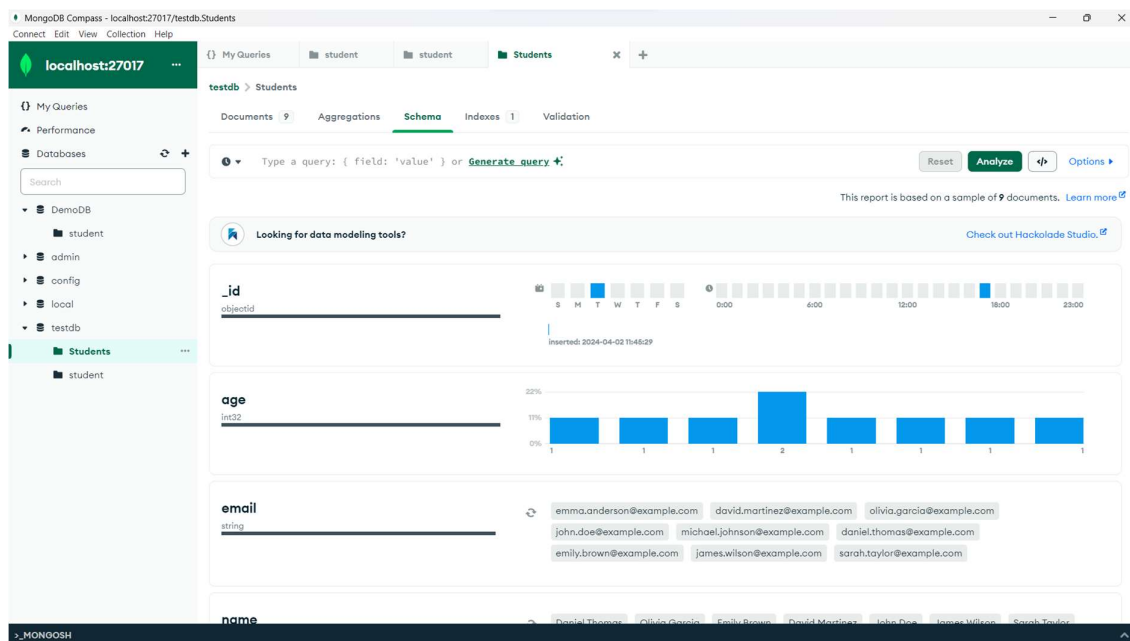
1 { age:-1
2
3 }
4

Output after \$sort stage (Sample of 9 documents)

```
{ "_id": ObjectId("660befd98ee9bd822a62ed2"), "name": "Olivia Garcia", "age": 31, "email": "olivia.garcia@example.com" }
{ "_id": ObjectId("660befd98ee9bd822a62ecf"), "name": "David Martinez", "age": 29, "email": "david.martinez@example.com" }
{ "_id": ObjectId("660befd98ee9bd822a62ed9"), "name": "Emily Brown", "age": 28, "email": "emily.brown@example.com" }
{ "_id": ObjectId("660befd98ee9bd822a62ed8"), "name": "Emma Anderson", "age": 27, "email": "emma.anderson@example.com" }
{ "_id": ObjectId("660befd98ee9bd822a62ec9"), "name": "John Doe", "age": 26, "email": "john.doe@example.com" }
{ "_id": ObjectId("660befd98ee9bd822a62ecd"), "name": "James Wilson", "age": 26, "email": "james.wilson@example.com" }
```

+ Add Stage

Export completed. 9 documents written. SHOW FILE



MongoDB Compass - localhost:27017/testdb.Students

Connect Edit View Collection Help

localhost:27017

My Queries Performance Databases Search

DemoDB student admin config local testdb Students student

testdb > Students

Documents Aggregations Schema Indexes Validation

Validation Action Error Validation Level Strict

```
1 {
2   $jsonSchema: {
3     bsonType: 'object',
4     required: [
5       'name'
6     ],
7     properties: {
8       name: {
9         bsonType: 'string',
10        minLength: 1
11      }
12    }
13  }
14 }
```

Sample documents

Passed validation Failed validation

Load document Load document

>_MONGODB

MongoDB Compass - localhost:27017/testdb.Students

Connect Edit View Collection Help

localhost:27017

My Queries Performance Databases Search

DemoDB student admin config local testdb Students student

testdb > Students

Documents Aggregations Schema Indexes Validation

Validation Action Error Validation Level Strict

```
1 {
2   $jsonSchema: {
3     bsonType: 'object',
4     required: [
5       'name'
6     ],
7     properties: {
8       name: {
9         bsonType: 'string',
10        minLength: 1
11      }
12    }
13  }
14 }
```

Sample documents

Passed validation Failed validation

```
_id: ObjectId('660befd98eebd822a62ed9')
name: "Emma Anderson"
age: 27
email: "emma.anderson@example.com"
```

No Preview Documents

>_MONGODB