

# Web Technology

## Lab Assignment – 10

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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)	

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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('660be40c82bc785bb7bbf5cd'),
  "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)

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DocumentsAggregationsSchemaIndexesValidation

Pipeline

\$group

average

ExplainExportRunMore Options

Generate

Untitled - modifiedSAVECREATE NEWEXPORT TO LANGUAGEPREVIEWSTAGESTEXT

Stage1\$group

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

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

```
_id: null
average: 22.88888888888889
```

Add Stage

Learn more about aggregation pipeline stages

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DocumentsAggregationsSchemaIndexesValidation

Create IndexRefresh

VIEWINGINDEXESSearch 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}

Collation

{ locale: 'simple' }

MaxTimeMS

60000

Skip

0

Limit

0

ADD DATA

EXPORT DATA

1 - 9 of 9

name: "John Doe"

age: 35

email: "john.doe@example.com"

\_id: ObjectId('660be40c82bc705bb7bbf5d3')

name: "James Brown"

age: 24

email: "james.brown@example.com"

\_id: ObjectId('660be40c82bc705bb7bbf5ce')

name: "Emily Davis"

age: 23

email: "emily.davis@example.com"

\_id: ObjectId('660be40c82bc705bb7bbf5cc')

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)

i

Before MongoDB can save your new database, a collection name must also be specified at the time of creation. [More Information](#)

Cancel

Create Database



×

Export

Collection testDB.students

Export File Type

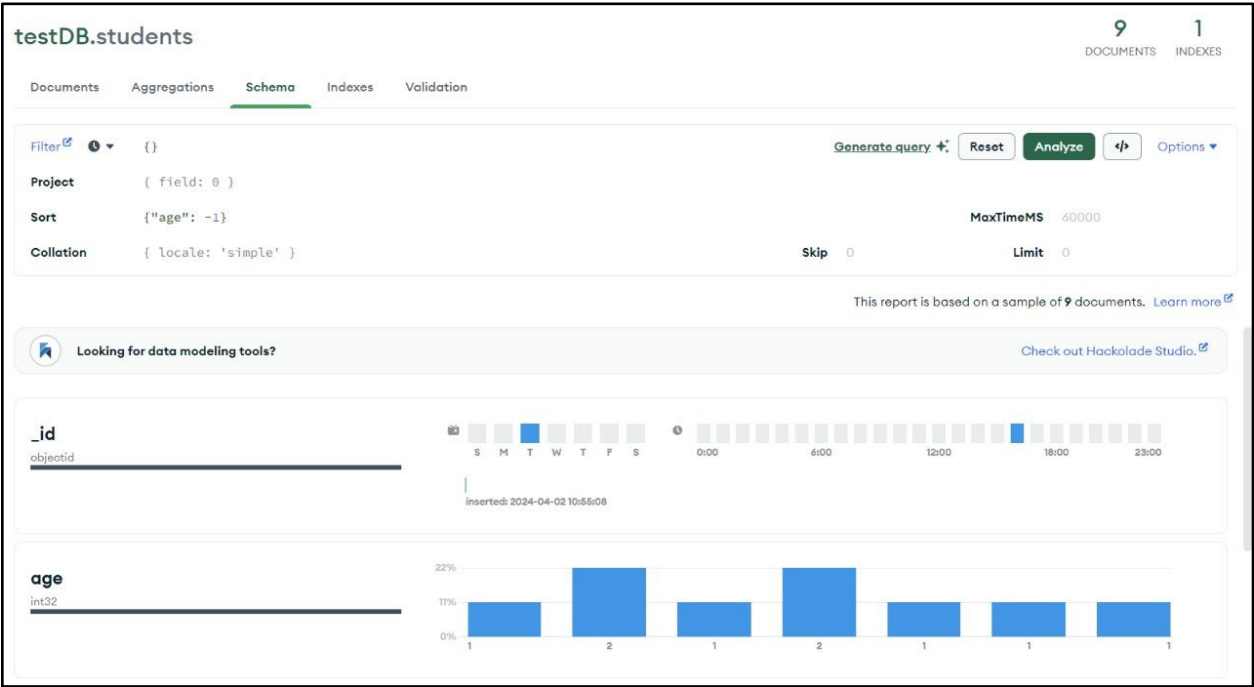
JSON

CSV

> Advanced JSON Format

Cancel

Export...



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DOCUMENTSINDEXES

DocumentsAggregationsSchemaIndexesValidation

Filter

{ "name": "Bob Johnson" }

Generate query

Explain

Reset

Find

Options

ADD DATA

EXPORT DATA

1 - 1 of 1

\_id: ObjectId('660be40c82bc705bb7bbf5cd')

name: "Bob Johnson"

age: 21

email: "bob.johnson@example.com"

Document flagged for deletion.

CANCELDELETE

MongoDB Compass - localhost:27017

ConnectEditViewHelp

localhost:27017

My QueriesDatabasesPerformance

My Queries

Databases

Search

Validation ActionErrorValidation LevelStrict

1 {  
2 required: [  
3 'name'  
4 ],  
5 properties: {  
6 name: {  
7 bsonType: 'string',  
8 description: 'Name must be a present.'  
9 }  
10 }  
11 }

Sample documents

Passed validation

No Preview Documents

Failed validation

\_id: ObjectId('660be40c82bc705bb7bbf5d0')

name: "Sophia Martinez"

age: 20

email: "sophia.martinez@example.com"

## 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

testDB.students

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Documents

Aggregations

Schema

Indexes

Validation

Filter

{

"name": "John Doe"

}

Generate query

Explain

Reset

Find

Options

ADD DATA

EXPORT DATA

1 - 1 of 1

1	_id	ObjectId('660be40c82bc705bb7bbf5cb')	ObjectId
2	name	"John Doe"	String
3	age	28	Int32
4	email	"john.doe@example.com"	String

CANCEL

UPDATE

Filter ⓘ

⌵

{  
 "name": "John Doe"  
}

Generate query ⚡

Explain

Reset

Find

↩

Options ⌵

ADD DATA ⌵

EXPORT DATA ⌵

1 - 1 of 1

⌵

⌵

⌵

⌵

⌵

▶

\_id: ObjectId('660be40c82bc705bb7bbf5cb')

name: "John Doe"

age: 35

email: "john.doe@example.com"

✎

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