Lab Assignment 9

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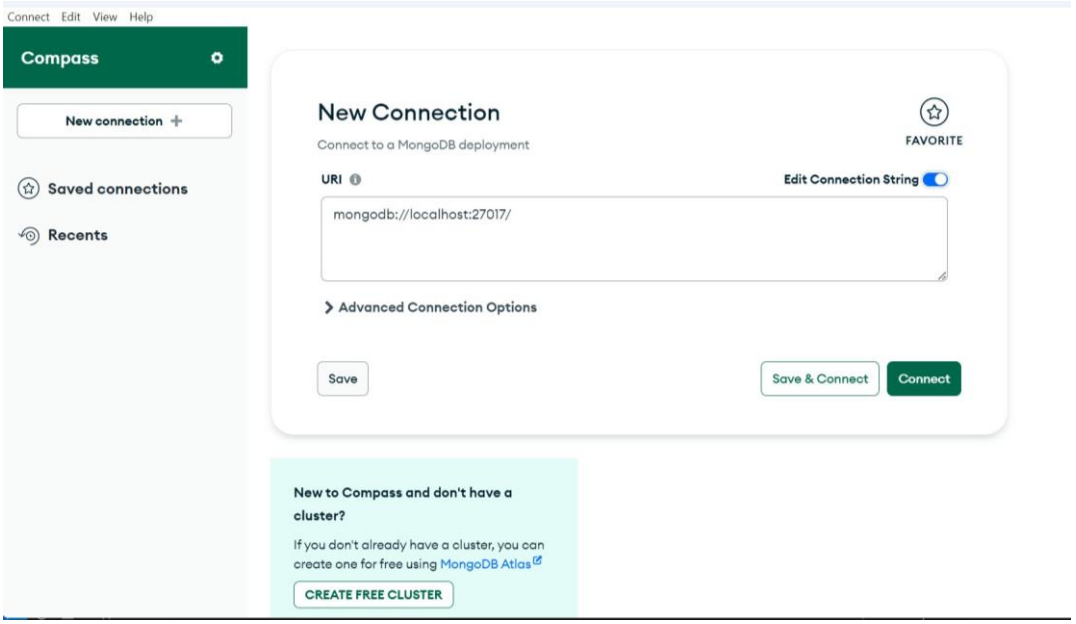
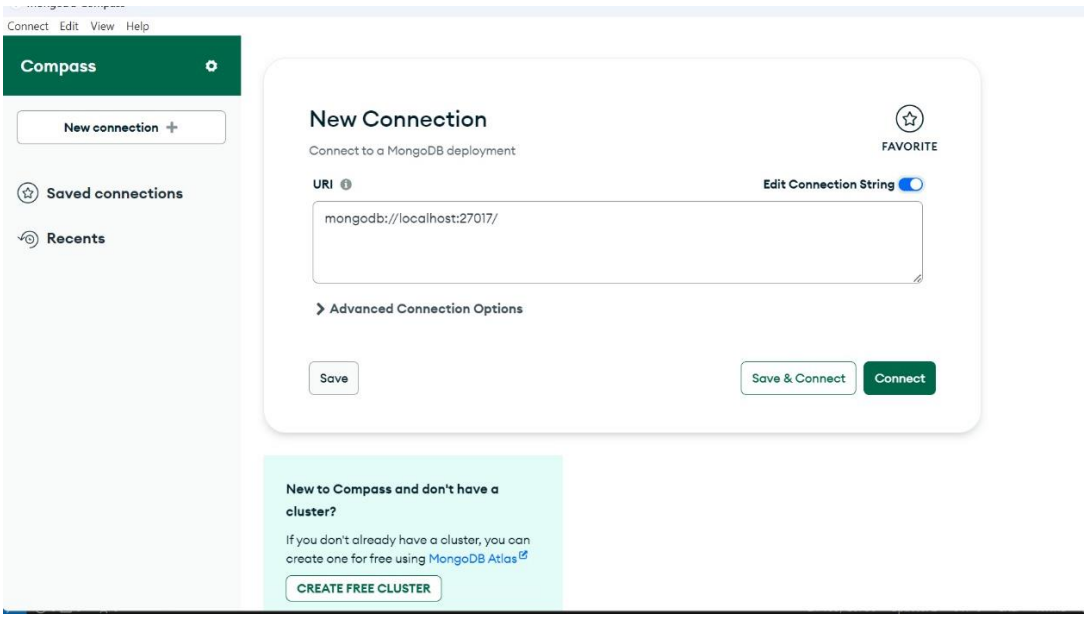
Roll no.- 22IT3008

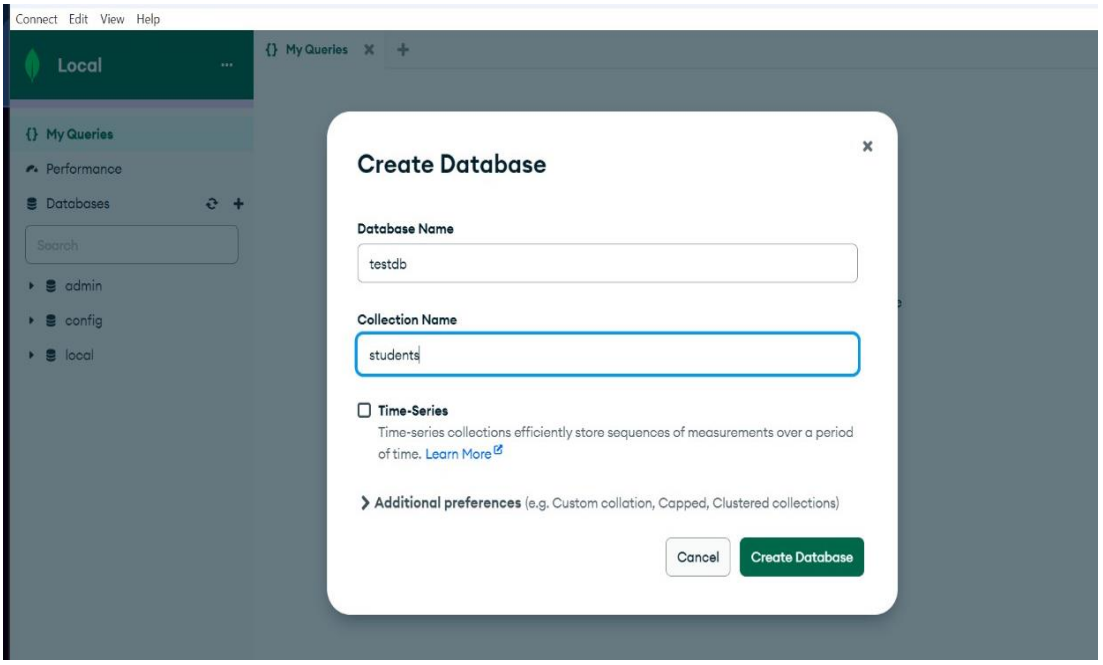
Q.1



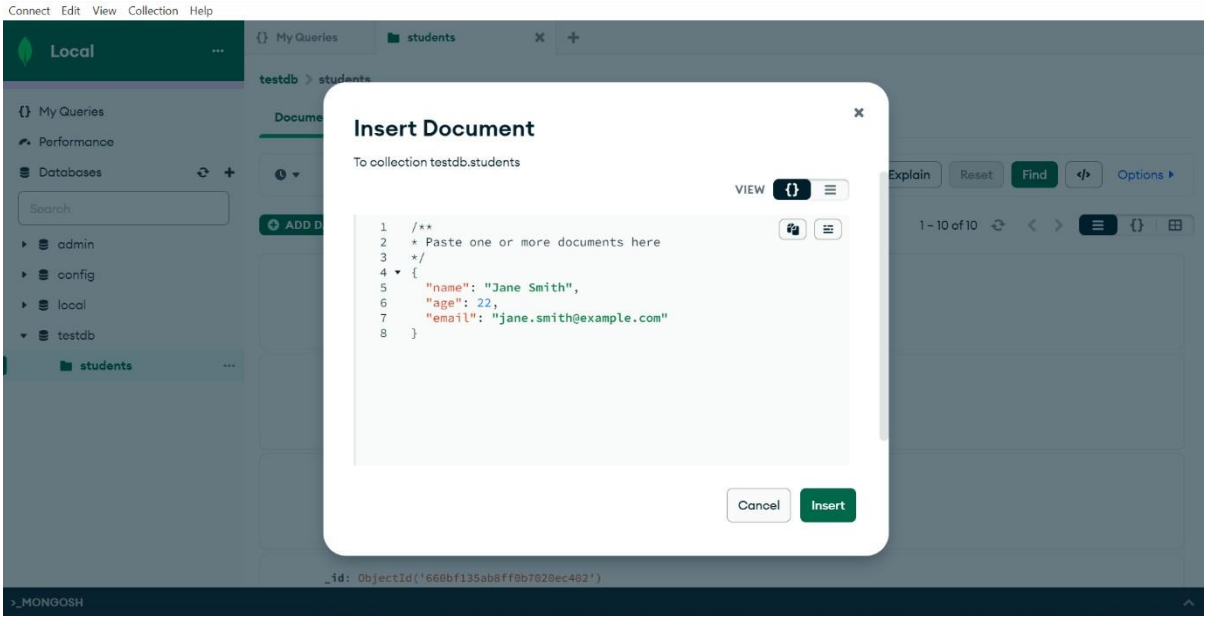
Q.2



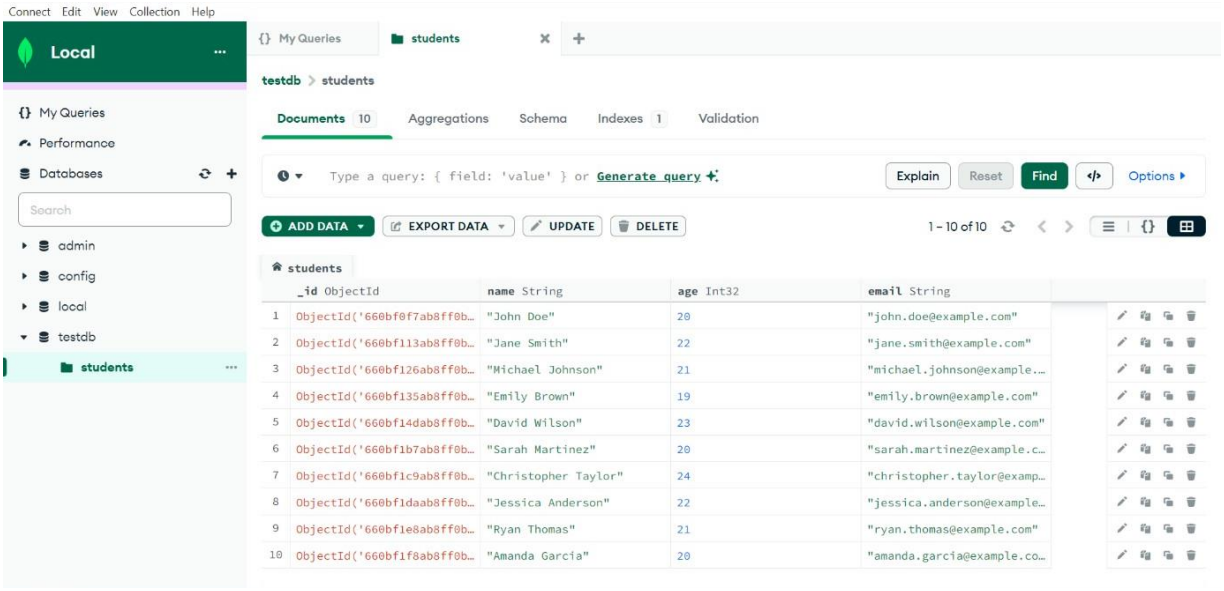
Q.3


Connect Edit View Help
Local
My Queries
Performance
Databases
Search
admin
config
local
My Queries
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

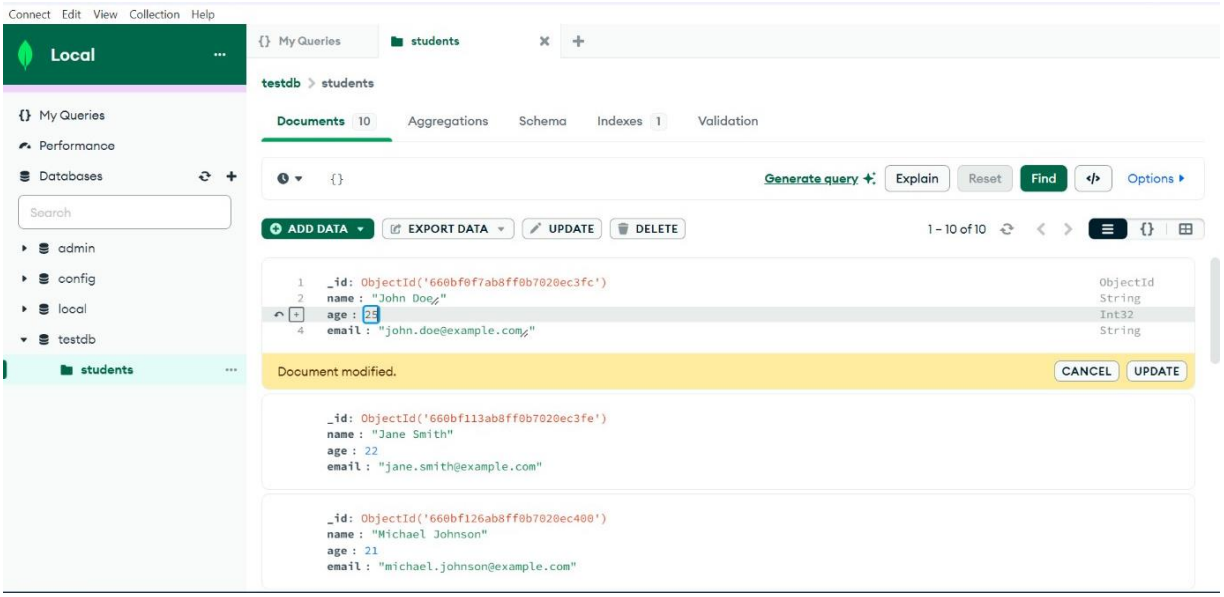
Q.4


Connect Edit View Collection Help
Local
My Queries
Performance
Databases
Search
admin
config
local
testdb
students
My Queries
students
testdb > students
Insert Document
To collection testdb.students
VIEW
1 /**
2 * Paste one or more documents here
3 */
4 {
5 "name": "Jane Smith",
6 "age": 22,
7 "email": "jane.smith@example.com"
8 }
Cancel
Insert
Explain
Reset
Find
Options
1 - 10 of 10
_id: ObjectId('660bf135ab8ff0b7020ec402')
>_MONGOSH

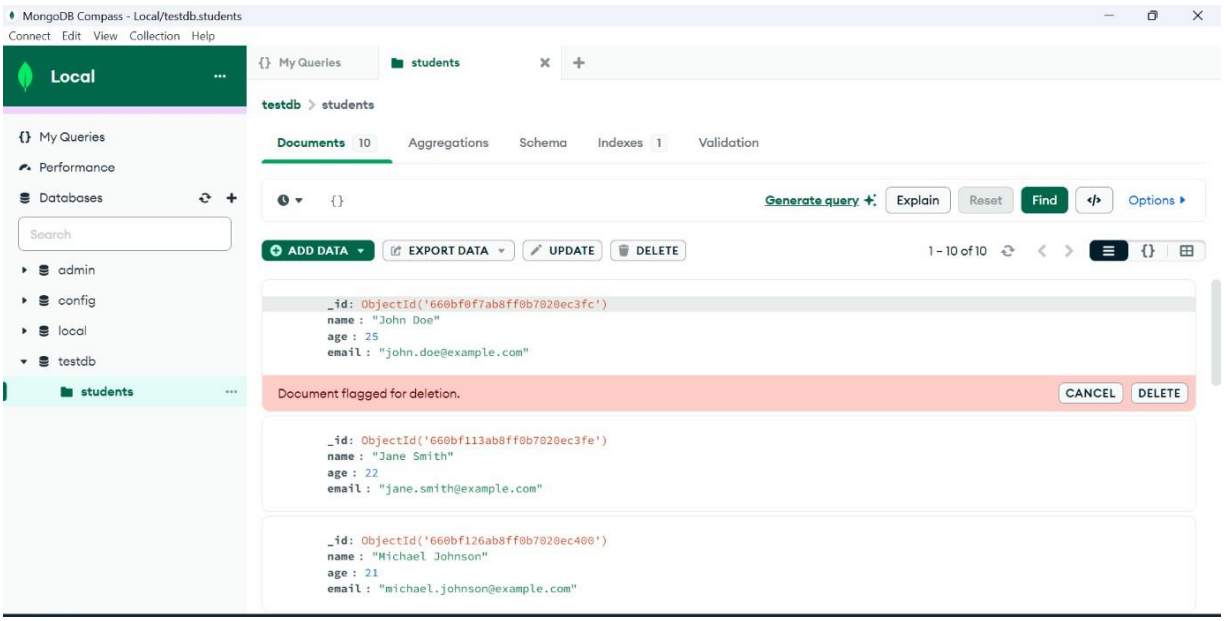
Q.5


Connect Edit View Collection Help
Local
My Queries
Performance
Databases
Search
admin
config
local
testdb
students
My Queries
students
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
students
_id ObjectId
name String
age Int32
email String
1 ObjectId('660bf0f7ab8ff0b... "John Doe" 20 "john.doe@example.com"
2 ObjectId('660bf113ab8ff0b... "Jane Smith" 22 "jane.smith@example.com"
3 ObjectId('660bf126ab8ff0b... "Michael Johnson" 21 "michael.johnson@example....
4 ObjectId('660bf135ab8ff0b... "Emily Brown" 19 "emily.brown@example.com"
5 ObjectId('660bf14dab8ff0b... "David Wilson" 23 "david.wilson@example.com"
6 ObjectId('660bf1b7ab8ff0b... "Sarah Martinez" 20 "sarah.martinez@example.c...
7 ObjectId('660bf1c9ab8ff0b... "Christopher Taylor" 24 "christopher.taylor@examp...
8 ObjectId('660bf1daab8ff0b... "Jessica Anderson" 22 "jessica.anderson@example...
9 ObjectId('660bf1e8ab8ff0b... "Ryan Thomas" 21 "ryan.thomas@example.com"
10 ObjectId('660bf1f8ab8ff0b... "Amanda Garcia" 20 "amanda.garcia@example.co...

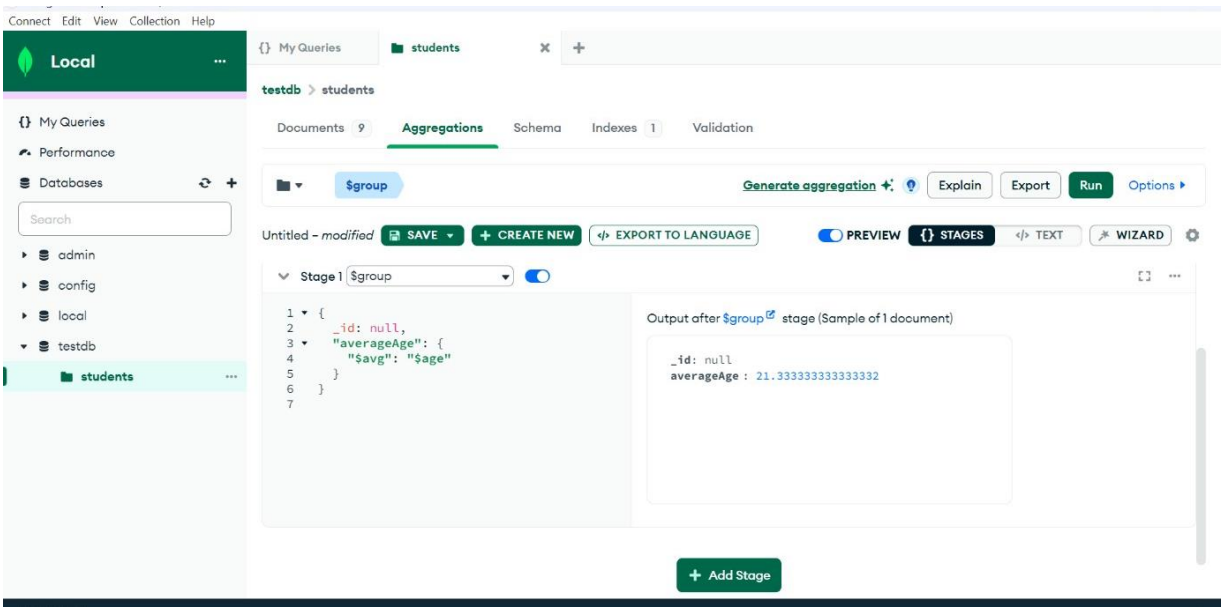
Q.6


Connect Edit View Collection Help
Local
My Queries
Performance
Databases
Search
admin
config
local
testdb
students
My Queries
students
testdb > students
Documents 10
Aggregations
Schema
Indexes 1
Validation
Generate query
Explain
Reset
Find
Options
ADD DATA
EXPORT DATA
UPDATE
DELETE
1 - 10 of 10
1 _id: ObjectId('660bf0f7ab8ff0b7020ec3fc') ObjectId
2 name : "John Doe" String
3 age : 25 Int32
4 email : "john.doe@example.com" String
Document modified.
CANCEL
UPDATE
_id: ObjectId('660bf113ab8ff0b7020ec3fe')
name : "Jane Smith"
age : 22
email : "jane.smith@example.com"
_id: ObjectId('660bf126ab8ff0b7020ec400')
name : "Michael Johnson"
age : 21
email : "michael.johnson@example.com"

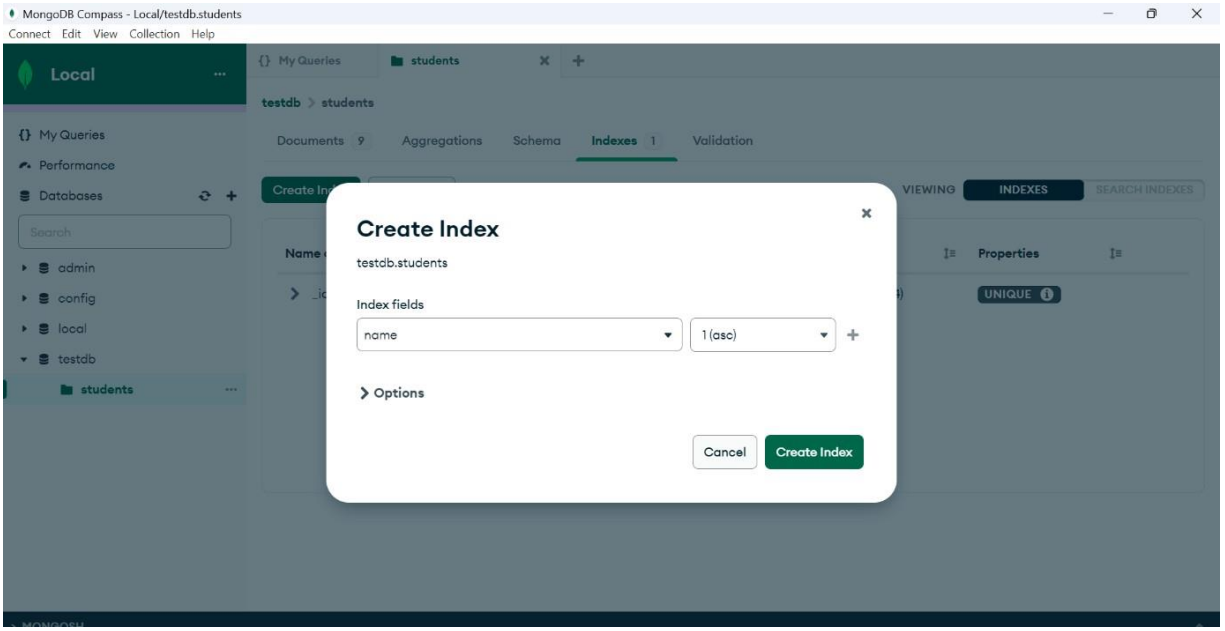
Q.7


MongoDB Compass - Local/testdb.students
Connect Edit View Collection Help
Local
My Queries
Performance
Databases
Search
admin
config
local
testdb
students
My Queries
students
testdb > students
Documents 10
Aggregations
Schema
Indexes 1
Validation
Generate query
Explain
Reset
Find
Options
ADD DATA
EXPORT DATA
UPDATE
DELETE
1 - 10 of 10
_id: ObjectId('660bf0f7ab8ff0b7020ec3fc')
name : "John Doe"
age : 25
email : "john.doe@example.com"
Document flagged for deletion.
CANCEL
DELETE
_id: ObjectId('660bf113ab8ff0b7020ec3fe')
name : "Jane Smith"
age : 22
email : "jane.smith@example.com"
_id: ObjectId('660bf126ab8ff0b7020ec400')
name : "Michael Johnson"
age : 21
email : "michael.johnson@example.com"

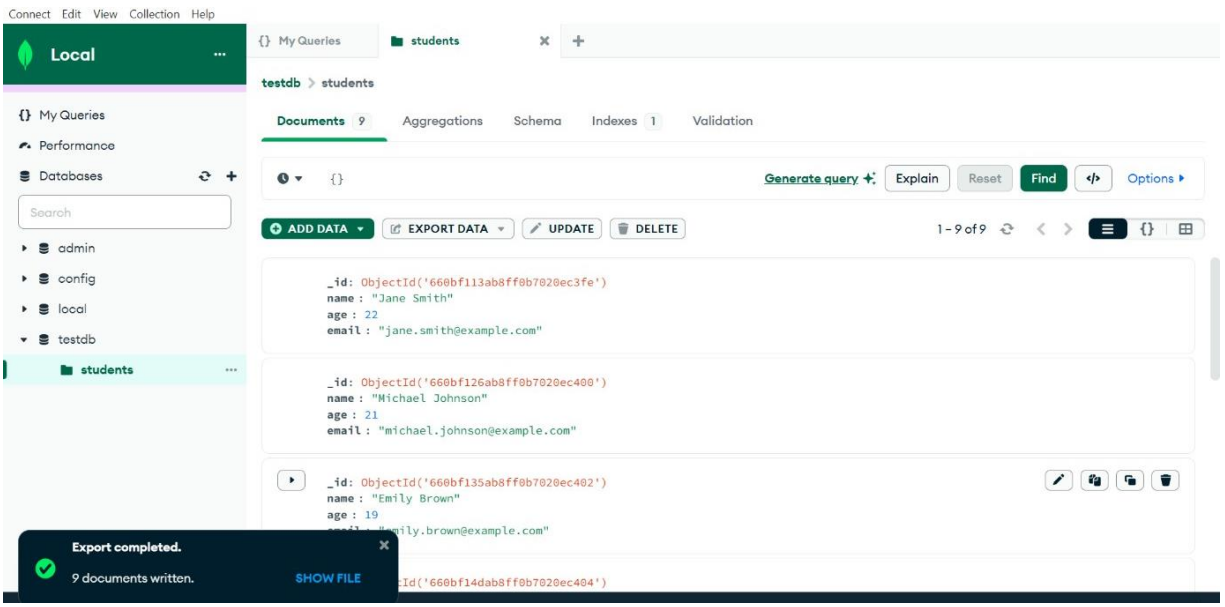
Q.8


Connect Edit View Collection Help
Local
My Queries
Performance
Databases
Search
admin
config
local
testdb
students
My Queries
students
testdb > students
Documents 9
Aggregations
Schema
Indexes 1
Validation
$group
Generate aggregation
Explain
Export
Run
Options
Untitled - modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
PREVIEW
STAGES
TEXT
WIZARD
Stage 1 $group
1 {
2 _id: null,
3 "averageAge": {
4 "$avg": "$age"
5 }
6 }
7
Output after $group stage (Sample of 1 document)
_id: null
averageAge : 21.333333333333332
Add Stage

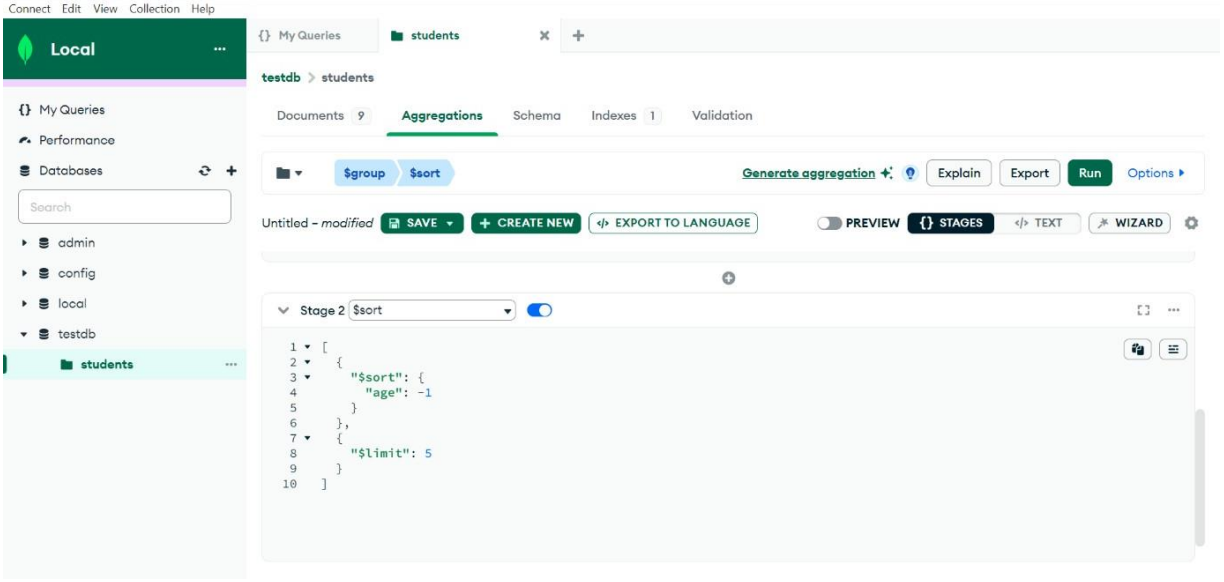
Q.9


MongoDB Compass - Local/testdb.students
Connect Edit View Collection Help
Local
My Queries
Performance
Databases
Search
admin
config
local
testdb
students
testdb > students
Documents 9
Aggregations
Schema
Indexes 1
Validation
VIEWING
INDEXES
SEARCH INDEXES
Properties
UNIQUE
Create Index
testdb.students
Index fields
name
1 (asc)
Options
Cancel
Create Index

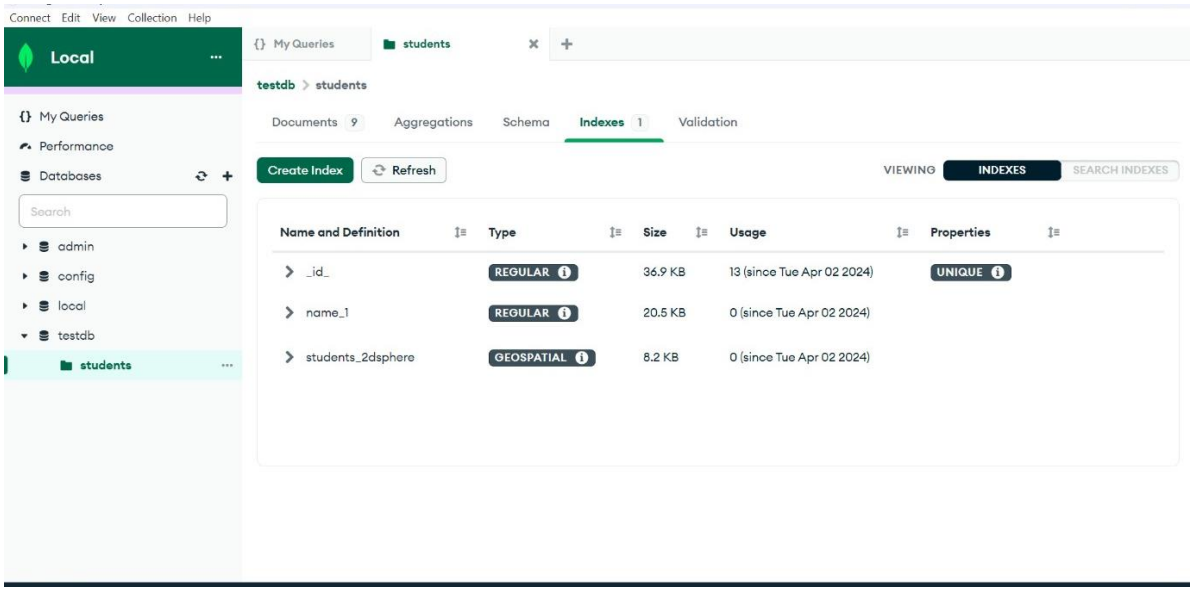
Q.10


Connect Edit View Collection Help
Local
My Queries
Performance
Databases
Search
admin
config
local
testdb
students
testdb > students
Documents 9
Aggregations
Schema
Indexes 1
Validation
Generate query
Explain
Reset
Find
Options
ADD DATA
EXPORT DATA
UPDATE
DELETE
1 - 9 of 9
_id: ObjectId('660bf113ab8ff0b7020ec3fe')
name : "Jane Smith"
age : 22
email : "jane.smith@example.com"
_id: ObjectId('660bf126ab8ff0b7020ec400')
name : "Michael Johnson"
age : 21
email : "michael.johnson@example.com"
_id: ObjectId('660bf135ab8ff0b7020ec402')
name : "Emily Brown"
age : 19
Export completed.
9 documents written.
SHOW FILE

Q.11


Connect Edit View Collection Help
Local
My Queries
Performance
Databases
Search
admin
config
local
testdb
students
My Queries
students
testdb > students
Documents 9
Aggregations
Schema
Indexes 1
Validation
$group
$sort
Generate aggregation
Explain
Export
Run
Options
Untitled – modified
SAVE
CREATE NEW
EXPORT TO LANGUAGE
PREVIEW
STAGES
TEXT
WIZARD
Stage 2 $sort
[
{
"$sort": {
"age": -1
}
},
{
"$limit": 5
}
]

Q.12


Connect Edit View Collection Help
Local
My Queries
Performance
Databases
Search
admin
config
local
testdb
students
My Queries
students
testdb > students
Documents 9
Aggregations
Schema
Indexes 1
Validation
Create Index
Refresh
VIEWING
INDEXES
SEARCH INDEXES
Name and Definition
Type
Size
Usage
Properties
_id_
REGULAR
36.9 KB
13 (since Tue Apr 02 2024)
UNIQUE
name_1
REGULAR
20.5 KB
0 (since Tue Apr 02 2024)
students_2dsphere
GEOSPATIAL
8.2 KB
0 (since Tue Apr 02 2024)