Creating a Database Using MongoDB and Mongosh

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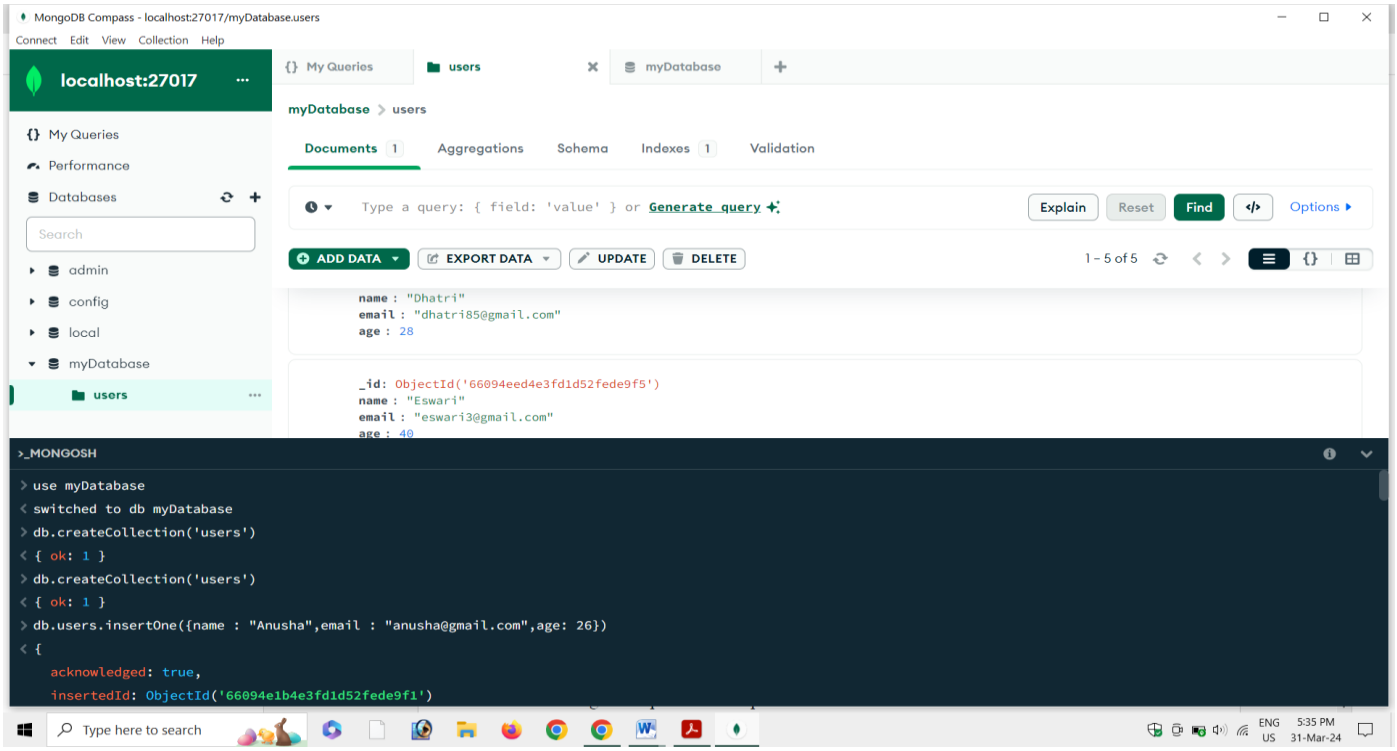
College Name: Vignan's Nirula Institute of Technology and Science For Women.

Creating Database:

"Use myDatabase" command is used to create and use the database called myDatabase.

"db.createCollection("users")" command is used to create a collection called users in myDatabase database.

Output:

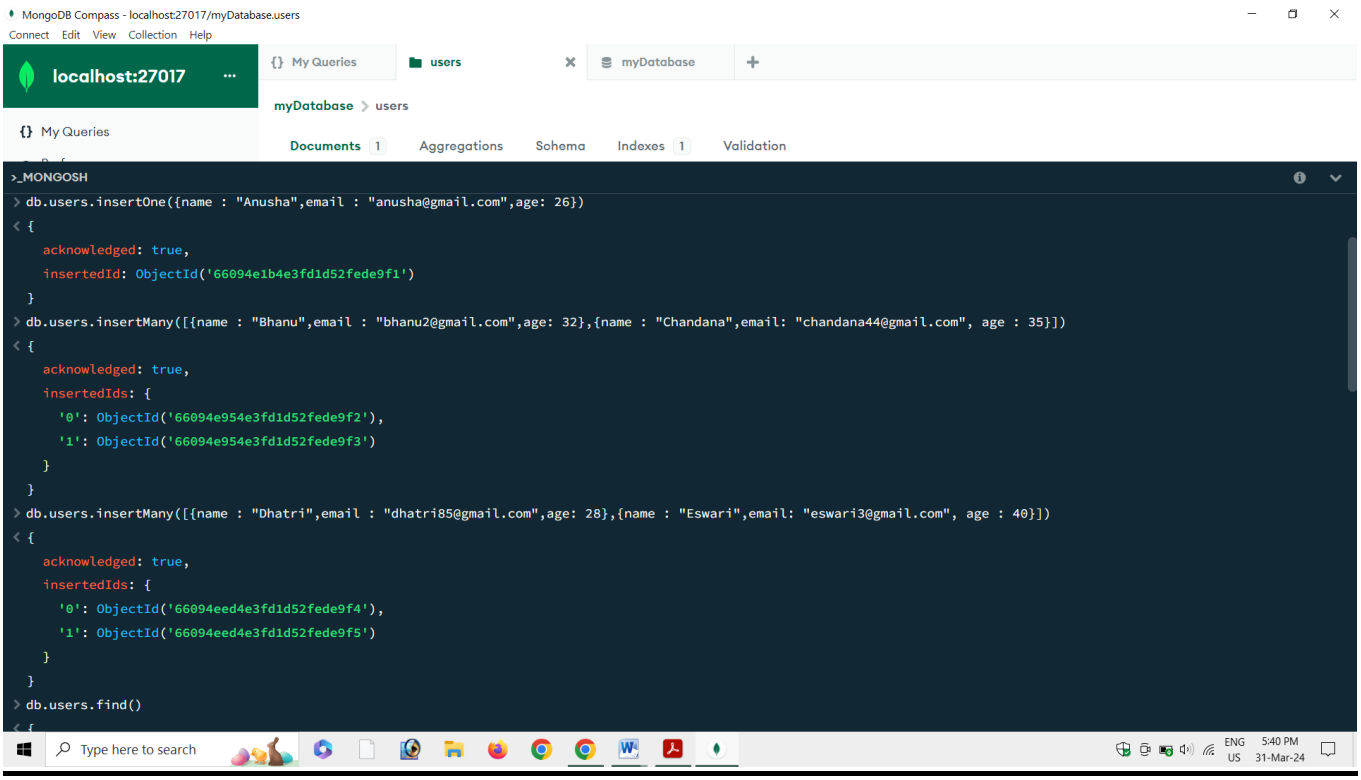


Inserting documents in to users collection:

“db.users.insertOne({ })”- This command is used to insert a single document in to the collection.

“db.users.insertMany([{ }])” – This command is used to insert multiple documents at a time in to the collection.

Output:


MongoDB Compass - localhost:27017/myDatabase.users
Connect Edit View Collection Help
localhost:27017
My Queries
users
myDatabase
myDatabase > users
Documents 1
Aggregations
Schema
Indexes 1
Validation
>_MONGOSH
> db.users.insertOne({name : "Anusha",email : "anusha@gmail.com",age: 26})
< {
acknowledged: true,
insertedId: ObjectId('66094e1b4e3fd1d52fede9f1')
}
> db.users.insertMany([{name : "Bhanu",email : "bhanu2@gmail.com",age: 32},{name : "Chandana",email: "chandana44@gmail.com", age : 35}])
< {
acknowledged: true,
insertedIds: {
'0': ObjectId('66094e954e3fd1d52fede9f2'),
'1': ObjectId('66094e954e3fd1d52fede9f3')
}
}
> db.users.insertMany([{name : "Dhatri",email : "dhatri85@gmail.com",age: 28},{name : "Eswari",email: "eswari3@gmail.com", age : 40}])
< {
acknowledged: true,
insertedIds: {
'0': ObjectId('66094eed4e3fd1d52fede9f4'),
'1': ObjectId('66094eed4e3fd1d52fede9f5')
}
}
> db.users.find()
Type here to search
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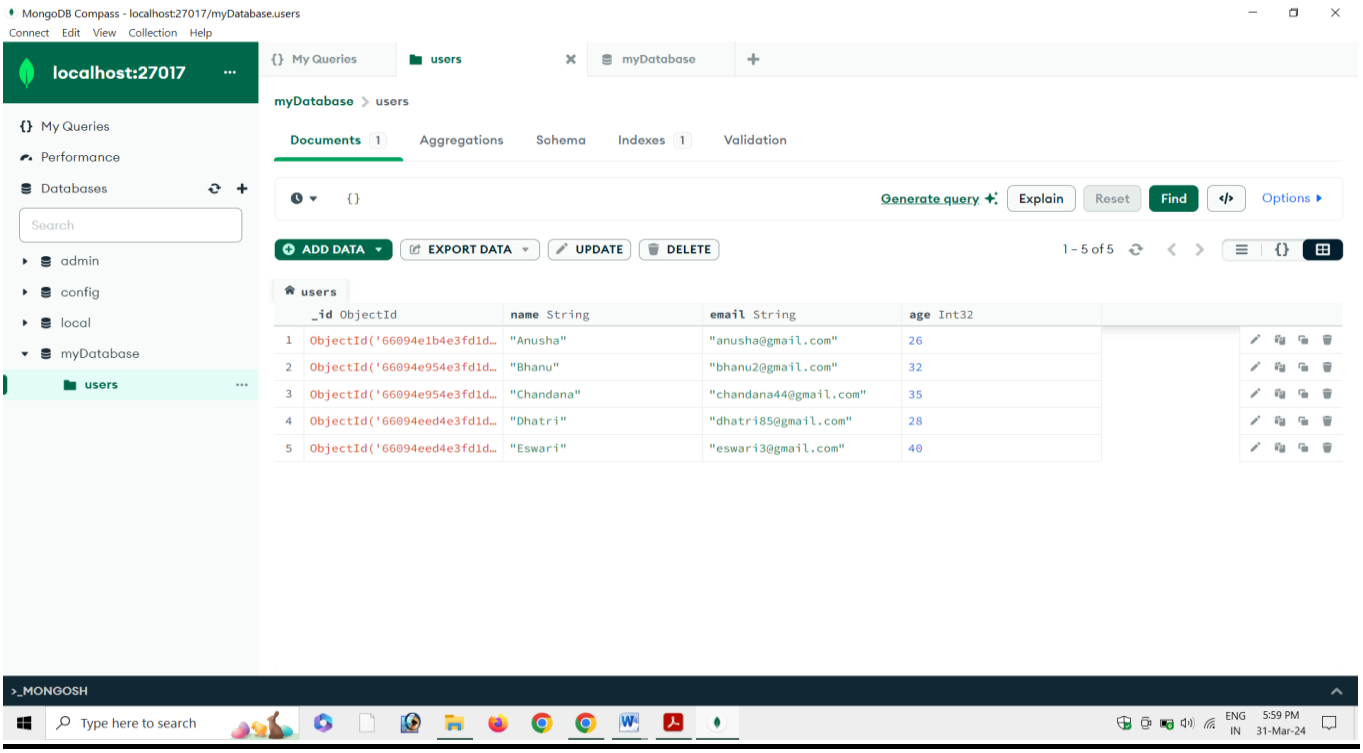
MongoDB Compass - localhost:27017/myDatabase.users
Connect Edit View Collection Help
localhost:27017
My Queries
Performance
Databases
Search
admin
config
local
myDatabase
users
myDatabase > users
Documents 1
Aggregations
Schema
Indexes 1
Validation
Generate query
Explain
Reset
Find
Options
ADD DATA
EXPORT DATA
UPDATE
DELETE
1 - 5 of 5
users
_id ObjectId
name String
email String
age Int32
1 ObjectId('66094e1b4e3fd1d... "Anusha" "anusha@gmail.com" 26
2 ObjectId('66094e954e3fd1d... "Bhanu" "bhanu2@gmail.com" 32
3 ObjectId('66094e954e3fd1d... "Chandana" "chandana44@gmail.com" 35
4 ObjectId('66094eed4e3fd1d... "Dhatri" "dhatri85@gmail.com" 28
5 ObjectId('66094eed4e3fd1d... "Eswari" "eswari3@gmail.com" 40
>_MONGOSH
Type here to search
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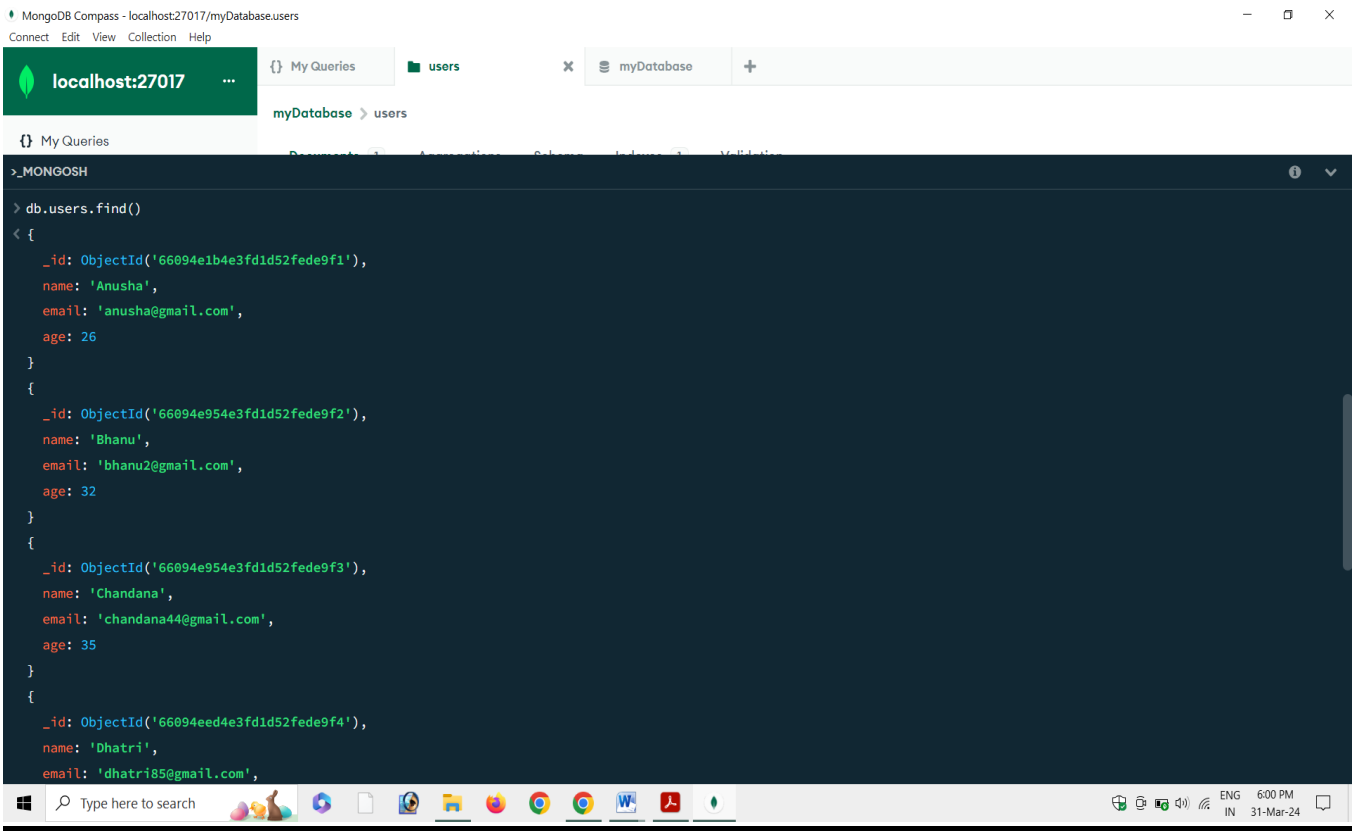
Retrieving the documents in collections:

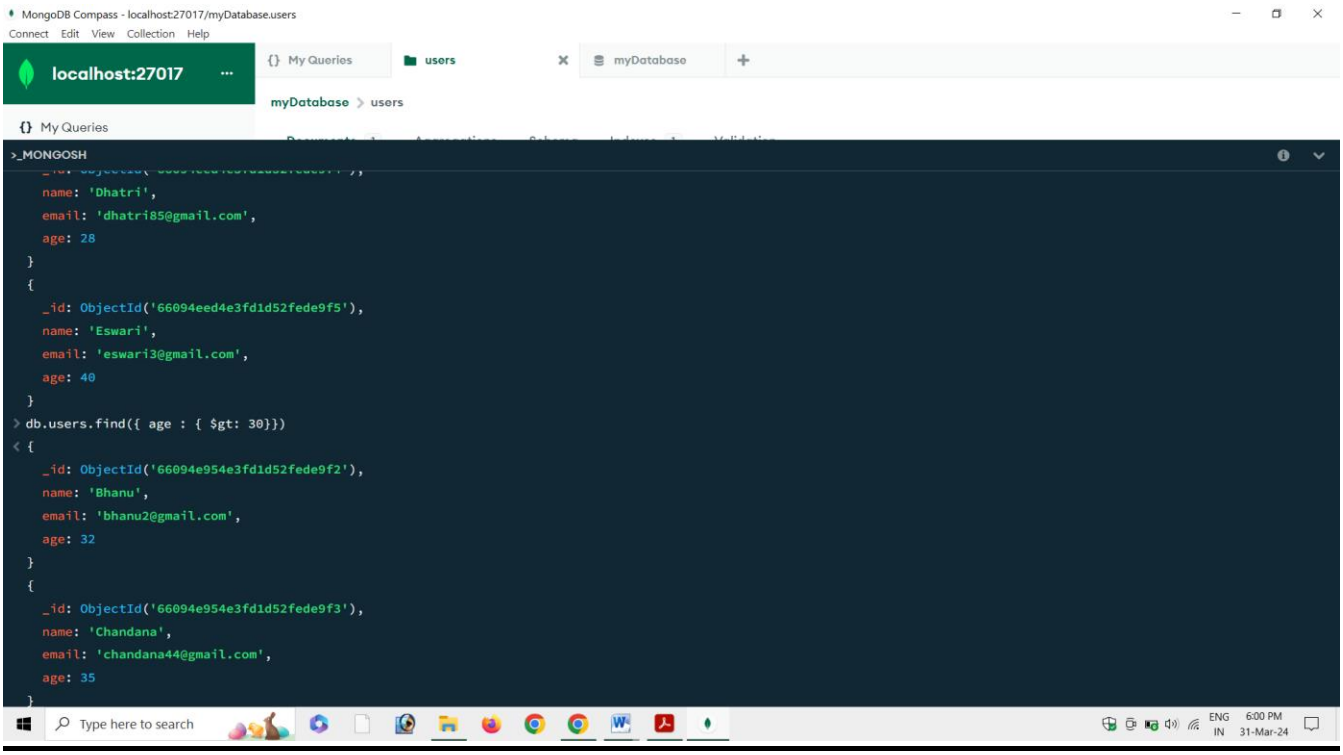
“db.users.find( )” – This command is used to retrieve all the documents in the users collections.

“db.users.find({ field: { $gt: value}})” – This command is used to retrieve the specific field with specific value.

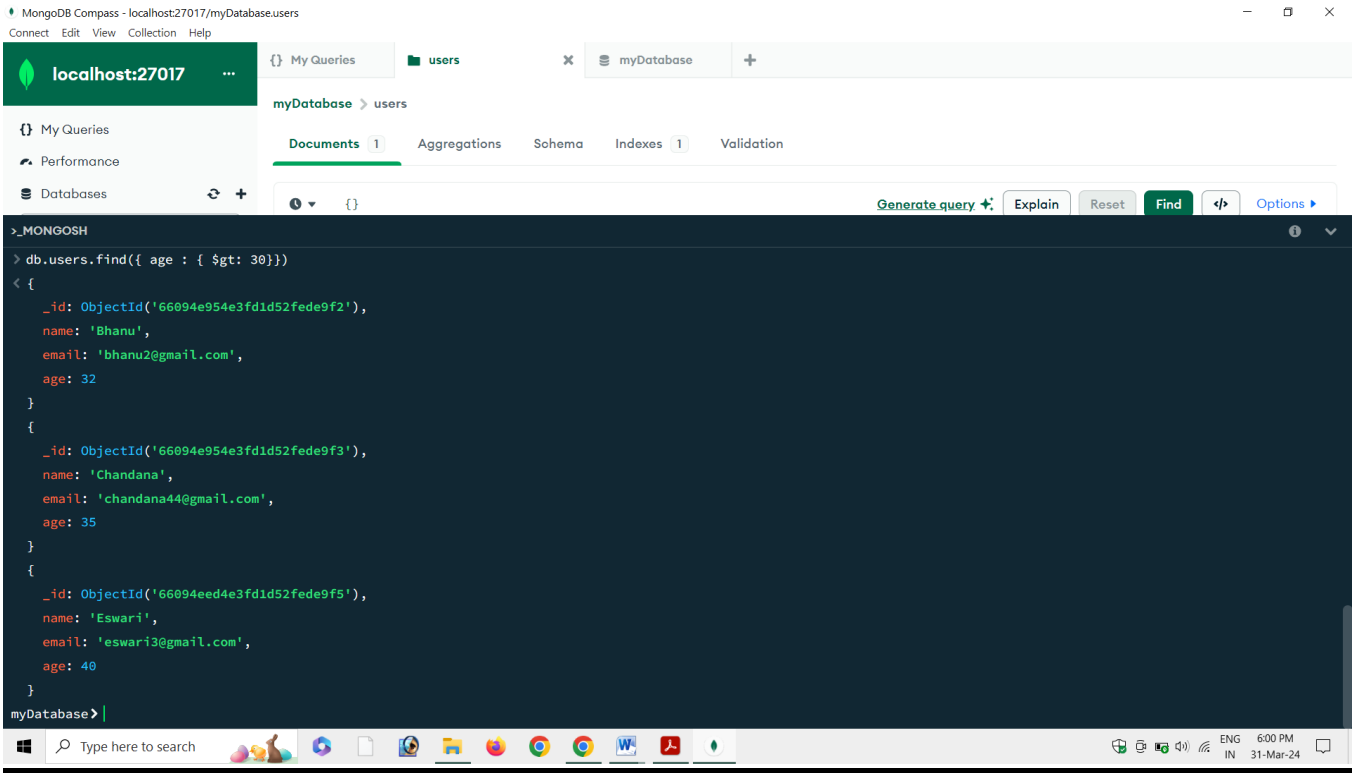
“db.users.find({ age : { $gt: 30 }})” – This command is used to retrieve the documents of the persons whose age is greater than 30.

Output:





Retrieving the documents whose age is greater than 30:

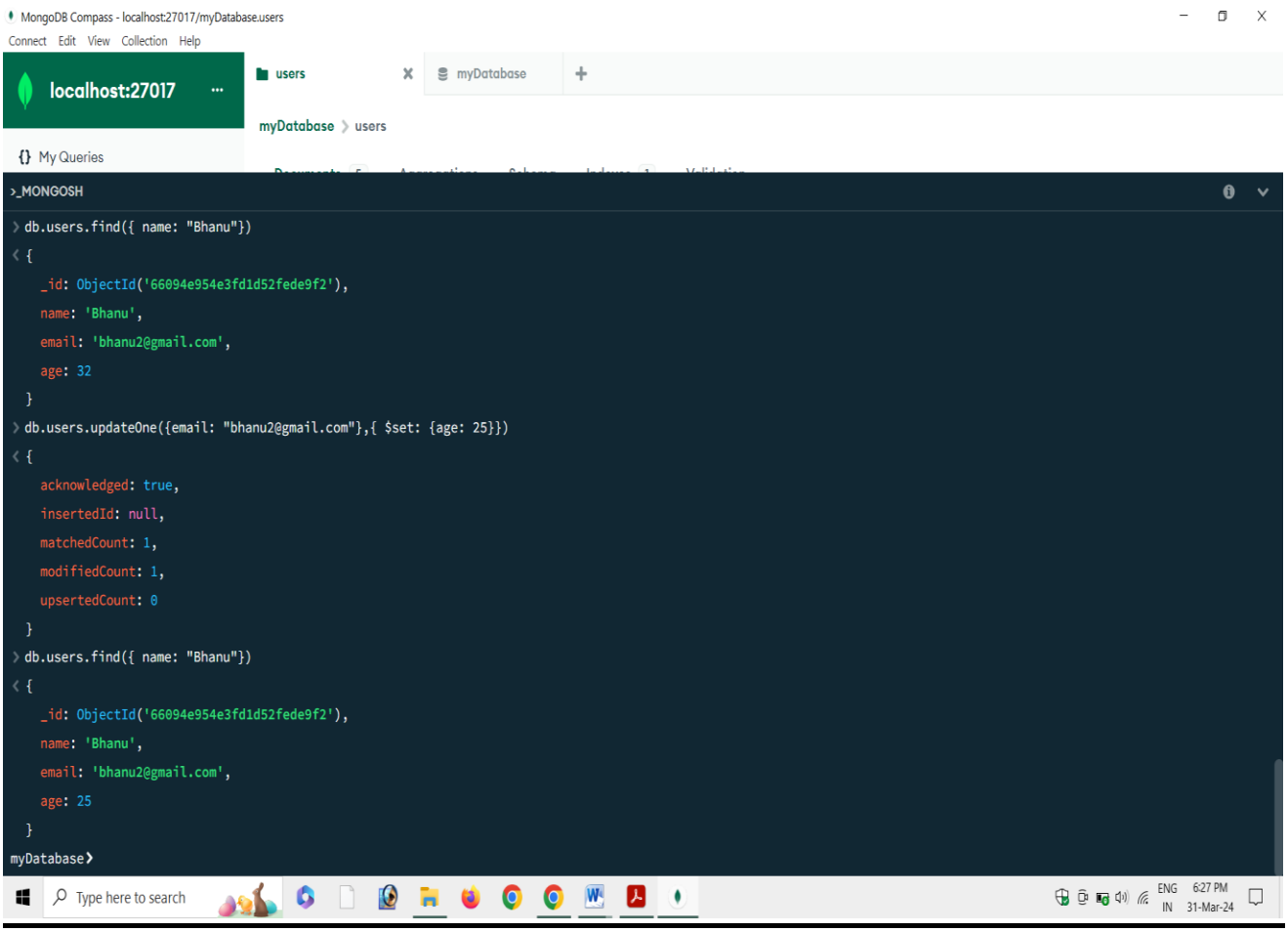


Update Operation:

“db.users.updateOne({field: value}, { $set: {field: value}})” – This command is used to update the document of a specific user.

“db.users.updateOne({email:bhanu2@gmail.com},{$set:{age: 25}})”

Output:

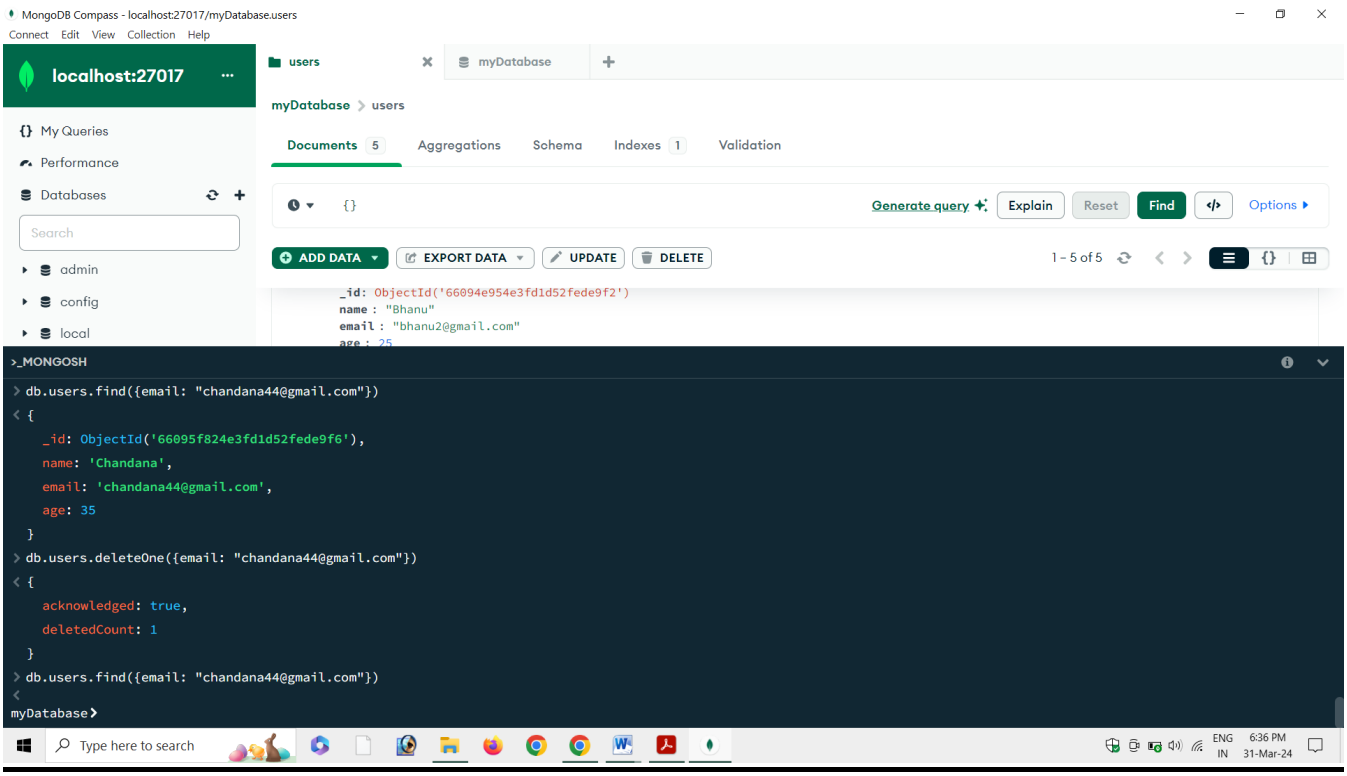


Delete Operation:

“db.users.deleteOne( )” –This command is used delete a document from the collection.

“db.users.deleteOne({email: chandana44@gmail.com})”

Output: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Connect Edit View Collection Help
localhost:27017
My Queries
Performance
Databases
Search
admin
config
local
users
myDatabase
myDatabase > users
Documents 5
Aggregations
Schema
Indexes 1
Validation
Generate query
Explain
Reset
Find
Options
ADD DATA
EXPORT DATA
UPDATE
DELETE
1 - 5 of 5
_id: ObjectId('66094e954e3fd1d52fede9f2')
name : "Bhanu"
email : "bhanu2@gmail.com"
>_MONGOSH
> db.users.find({email: "chandana44@gmail.com"})
{
_id: ObjectId('66095f824e3fd1d52fede9f6'),
name: 'Chandana',
email: 'chandana44@gmail.com',
age: 35
}
> db.users.deleteOne({email: "chandana44@gmail.com"})
{
acknowledged: true,
deletedCount: 1
}
> db.users.find({email: "chandana44@gmail.com"})
myDatabase>
Type here to search
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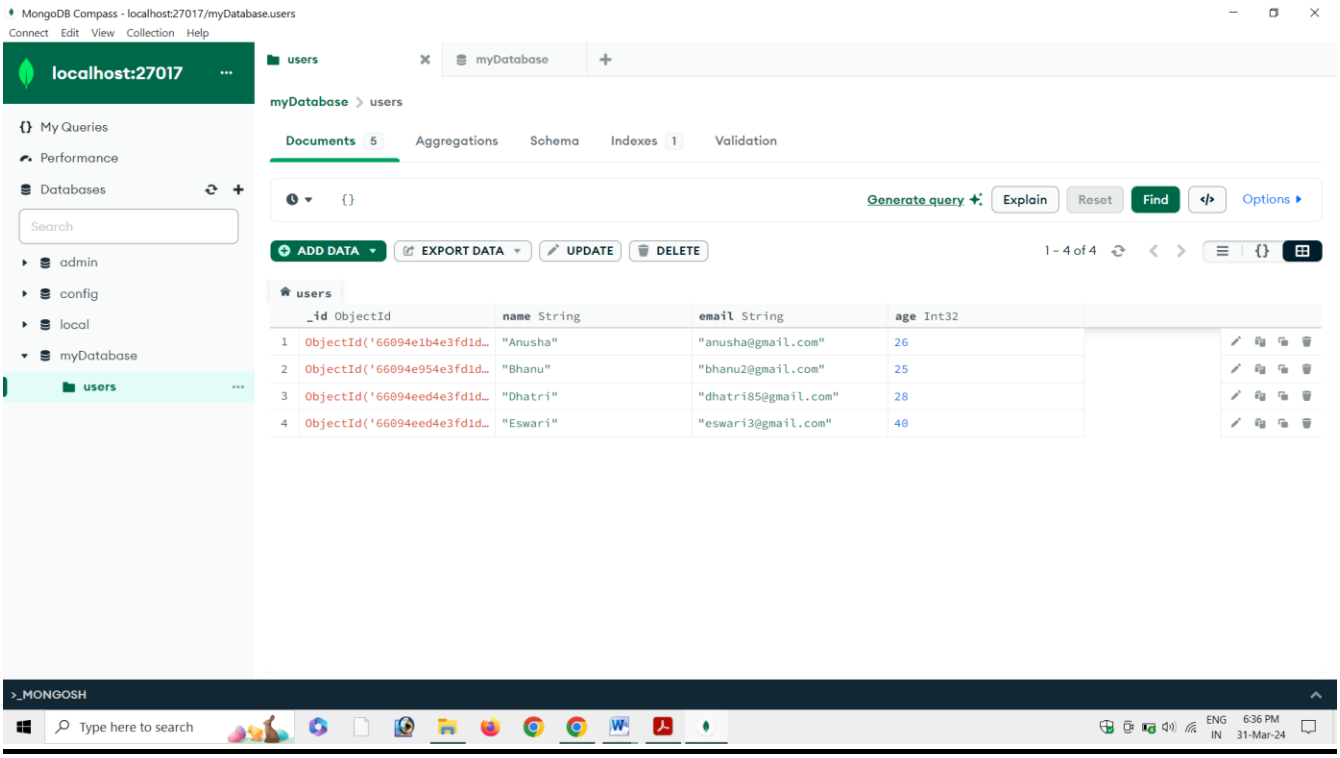
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localhost:27017
My Queries
Performance
Databases
Search
admin
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local
myDatabase
users
myDatabase > users
Documents 5
Aggregations
Schema
Indexes 1
Validation
Generate query
Explain
Reset
Find
Options
ADD DATA
EXPORT DATA
UPDATE
DELETE
1 - 4 of 4
users
_id ObjectId
name String
email String
age Int32
1 ObjectId('66094e1b4e3fd1d... "Anusha" "anusha@gmail.com" 26
2 ObjectId('66094e954e3fd1d... "Bhanu" "bhanu2@gmail.com" 25
3 ObjectId('66094eed4e3fd1d... "Dhatri" "dhatri85@gmail.com" 28
4 ObjectId('66094eed4e3fd1d... "Eswari" "eswari3@gmail.com" 40
>_MONGOSH
Type here to search
ENG IN
6:36 PM 31-Mar-24

Index Creation:

“db.users.createIndex({email:”text”})” –This command is used to create index for email field.

Output: