

# ASSIGNMENT-4

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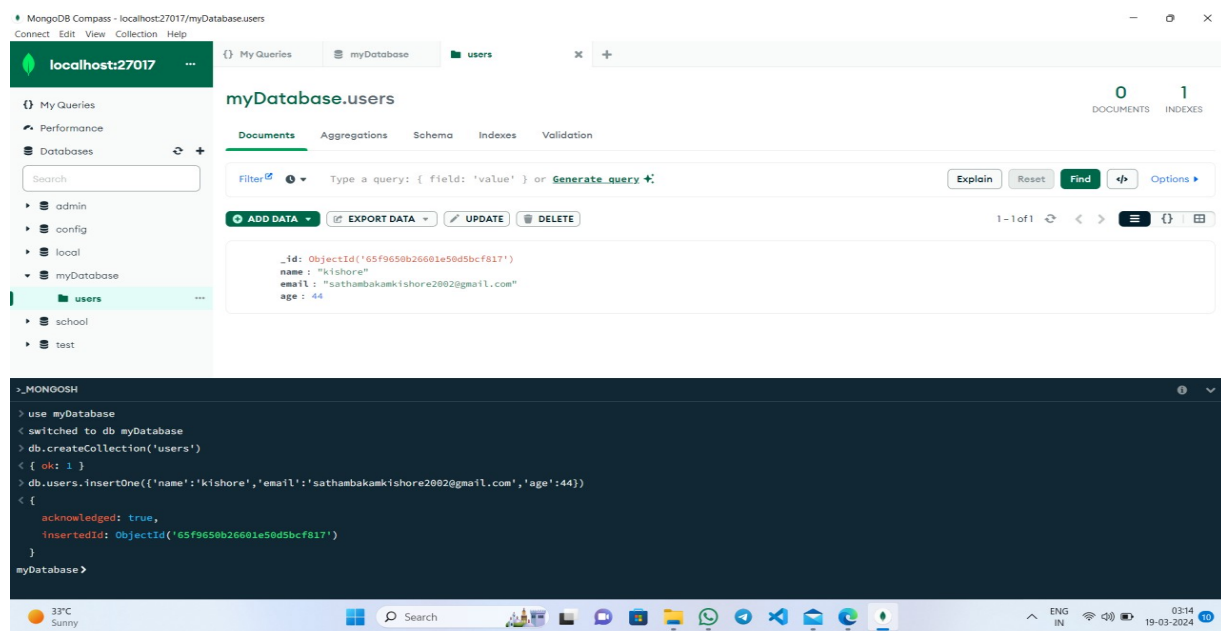
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Course: Full Stack Development (MERN STACK)

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## Creating a Database Using MongoDB and Mongosh Database Setup and Collection Creation



# Document Insertion

The screenshot displays the MongoDB Compass interface for the 'myDatabase.users' collection. The left sidebar shows the database structure with 'users' selected. The main panel shows the 'Documents' tab with two documents listed. Below the documents, the MongoDB shell is open, showing the commands used to insert the documents:

```
>_MONGOOSH
> db.users.insertOne({'name':'prudhvi','email':'prudhviraj143@gmail.com','age':38})
< {
  acknowledged: true,
  insertedId: ObjectId('65f965e826601e50d5bcf818')
}
> db.users.insertOne({'name':'sai','email':'nagasaikumar123@gmail.com','age':40})
< {
  acknowledged: true,
  insertedId: ObjectId('65f9665e26601e50d5bcf819')
}
```

The status bar at the bottom indicates the system temperature is 33°C and the date is 19-03-2024.

# Update Operation

The screenshot displays the MongoDB Compass interface for the 'myDatabase.users' collection. The left sidebar shows the database structure with 'users' selected. The main panel shows the 'Documents' tab with two documents listed. Below the documents, the MongoDB shell is open, showing the commands used to update a document and find all documents:

```
>_MONGOOSH
> db.users.updateOne({'email':'prudhviraj143@gmail.com'},{$set:{'age':34}})
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
> db.users.find()
< {
  _id: ObjectId('65f9650b26601e50d5bcf817'),
  name: 'kishore',
  email: 'sathabakamkishore2002@gmail.com',
  age: 44
}
{
  _id: ObjectId('65f965e826601e50d5bcf818'),
  name: 'prudhvi',
  email: 'prudhviraj143@gmail.com',
  age: 34
}
{
  _id: ObjectId('65f9665e26601e50d5bcf819'),
  name: 'sai',
  email: 'nagasaikumar123@gmail.com',
  age: 40
}
```

The status bar at the bottom indicates the system temperature is 35°C and the date is 19-03-2024.

# Deletion Operation

The screenshot shows the MongoDB Compass interface. The left sidebar displays the database structure with 'myDatabase' and 'users' collection. The main panel shows the 'users' collection with 0 documents and 1 index. The 'Documents' tab is active, showing a list of documents. The 'Filter' bar is empty. The 'ADD DATA' button is highlighted. The terminal window at the bottom shows the following commands and output:

```
> db.users.deleteOne({'email':'nagasaikumar123@gmail.com'})
{
  acknowledged: true,
  deletedCount: 1
}
> db.users.find()
{
  "_id": ObjectId("65f9650b26601e50d5bcf817"),
  "name": "kishore",
  "email": "sathambakamkishore2002@gmail.com",
  "age": 44
}
{
  "_id": ObjectId("65f9650b26601e50d5bcf818"),
  "name": "prudhvi",
  "email": "prudhviraj143@gmail.com",
  "age": 34
}
```

## Index Creation

The screenshot shows the MongoDB Compass interface. The left sidebar displays the database structure with 'myDatabase' and 'users' collection. The main panel shows the 'users' collection with 2 documents and 1 index. The 'Documents' tab is active, showing a list of documents. The 'Filter' bar is empty. The 'ADD DATA' button is highlighted. The terminal window at the bottom shows the following commands and output:

```
> use myDatabase
switched to db myDatabase
> db.users.ensureIndex({'email':1})
{
  "email_1" : 1
}
> db.users.find()
{
  "_id": ObjectId("65f9650b26601e50d5bcf817"),
  "name": "kishore",
  "email": "sathambakamkishore2002@gmail.com",
  "age": 44
}
{
  "_id": ObjectId("65f9650b26601e50d5bcf818"),
  "name": "prudhvi",
  "email": "prudhviraj143@gmail.com",
  "age": 34
}
```