

# **ASSIGNMENT-4**

## **FULL STACK DEVELOPMENT (MERN STACK)**

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# Creating a Database Using MongoDB and Mongosh



## Database Setup and Collection Creation

MongoDB Compass - localhost:27017/myDatabase.users

Connect Edit View Collection Help

localhost:27017 ... {} My Queries myDatabase users X +

myDatabase.users 0 1 DOCUMENTS INDEXES

Documents Aggregations Schema Indexes Validation

Filter Type a query: { field: 'value' } or [Generate query](#) Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE 1-1 of 1

```
{
  "_id": ObjectId("65f9650b26601e50d5bcf817"),
  "name": "kishore",
  "email": "sathambakamkishore2002@gmail.com",
  "age": 44
}
```

> MONGOSH

```
> use myDatabase
< switched to db myDatabase
> db.createCollection('users')
< { ok: 1 }
> db.users.insertOne({'name': 'kishore', 'email': 'sathambakamkishore2002@gmail.com', 'age': 44})
< {
  acknowledged: true,
  insertedId: ObjectId('65f9650b26601e50d5bcf817')
}
myDatabase>
```

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Search

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# Document Insertion

MongoDB Compass - localhost:27017/myDatabase.users

localhost:27017

myDatabase.users

Documents Aggregations Schema Indexes Validation

Filter Type a query: { field: 'value' } or Generate query

ADD DATA EXPORT DATA UPDATE DELETE

1 - 3 of 3

```
{ "_id": ObjectId("65f965e826601e50d5bcf818"),  
  "name": "prudhvi",  
  "email": "prudhviraj143@gmail.com",  
  "age": 38  
}
```

```
{ "_id": ObjectId("65f9665e26601e50d5bcf819"),  
  "name": "sai",  
  "email": "nagasaikumar123@gmail.com",  
  "age": 40  
}
```

```
> _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')  
}
```

# Update Operation

MongoDB Compass - localhost:27017/myDatabase.users

localhost:27017

myDatabase.users

Documents Aggregations Schema Indexes Validation

```
> _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": "sathambakamkishore2002@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  
  }
```

# Deletion Operation

MongoDB Compass - localhost:27017/myDatabase.users

Connect Edit View Collection Help

localhost:27017

My Queries myDatabase users

myDatabase.users

0 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Indexes Validation

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

EXPLAIN Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

1 - 3 of 3

```
>_MONGOSH
> 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('65f965e826601e50d5bcf818'),
  name: 'prudhvi',
  email: 'prudhviraj143@gmail.com',
  age: 34
}
}
myDatabase>
```

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# Index Creation

MongoDB Compass - localhost:27017/myDatabase.users

Connect Edit View Collection Help

localhost:27017

My Queries myDatabase users

myDatabase.users

2 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Indexes Validation

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

EXPLAIN Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

1 - 2 of 2

```
>_MONGOSH
> 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('65f965e826601e50d5bcf818'),
  name: 'prudhvi',
  email: 'prudhviraj143@gmail.com',
  age: 34
}
}
myDatabase>
```

28°C Mostly cloudy

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