Run MongoDB

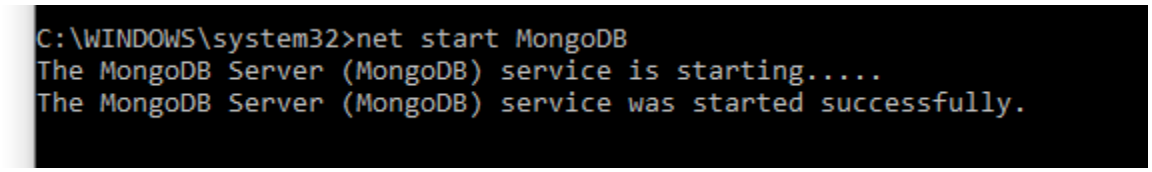
MongoDB runs as a **Windows service** by default.

- To start the service:

```
net start MongoDB
```

as shown below.

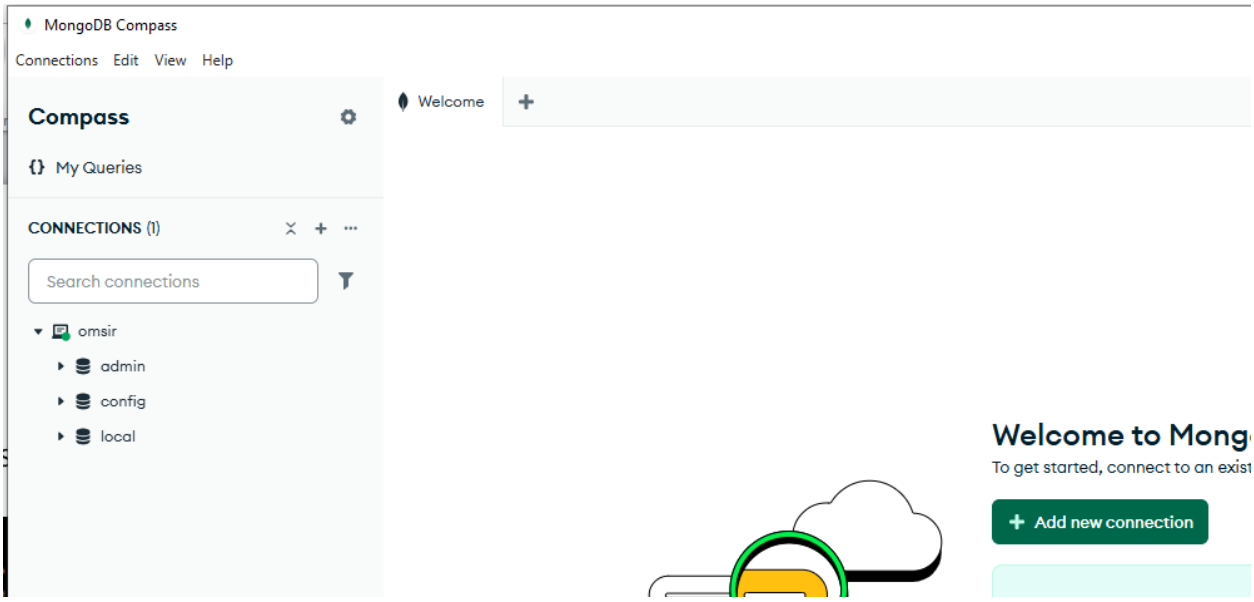
C:\WINDOWS\system32>net start MongoDB



- To stop it:

```
net stop MongoDB
```

Open mongo db compass & click on add new connection and enter your connection name as omsir and click on connect :-

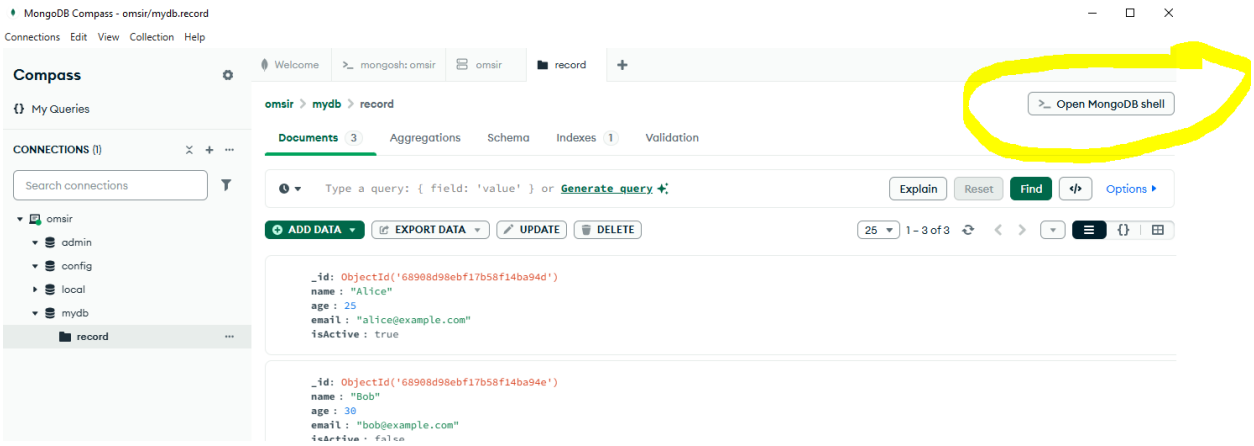


And enter database and record as shown below :-

Using MongoDB Compass (GUI):-

1. Open Compass and connect to `mongodb://localhost:27017`
2. Click **"Create Database"**
   - Name: `myDatabase`
   - Collection: `users`
3. Once created, you can:
   - Insert documents (rows)
   - View and query data
   - Manage collections

And open MongoDB shell :-



3. Example Document (Row) Insertion:-

1. Using the Mongo Shell (`mongo` or `mongosh`)

▶ Create a Database

```
use myDatabase
```

This switches to (or creates) the database called `myDatabase`.

▶□ Create a Collection (like a table)

```
db.createCollection("users")
```

Or just insert a document, and MongoDB will auto-create the collection:

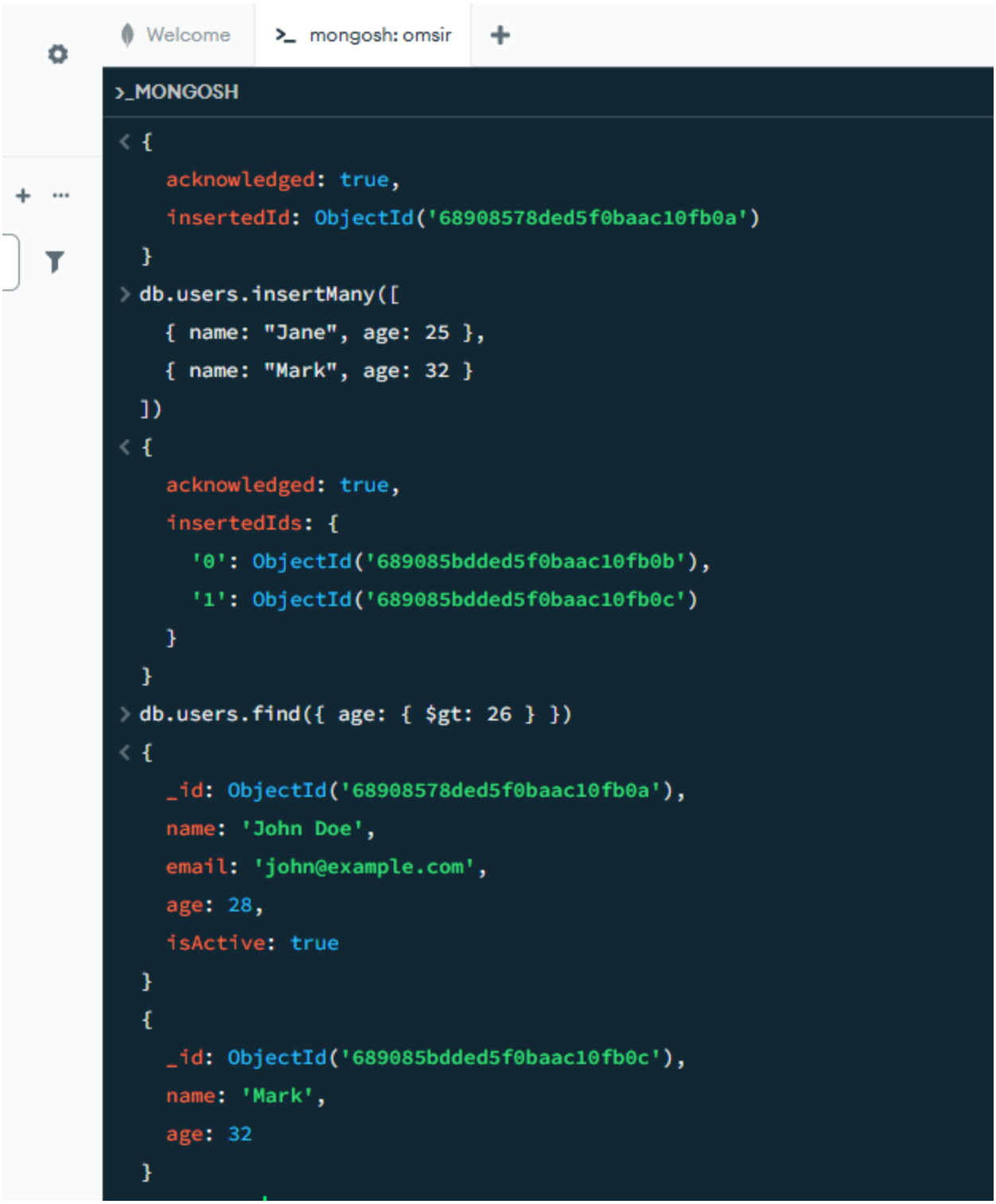
```
db.users.insertOne({ name: "Alice", age: 30 })
```

```
db.users.insertOne({
  name: "John Doe",
  email: "john@example.com",
  age: 28,
  isActive: true
})
```

You can also insert multiple:

```
db.users.insertMany([
  { name: "Jane", age: 25 },
  { name: "Mark", age: 32 }
])
```

As shown below example :-


Welcome
mongosh: omsir
>_MONGOSH
{
acknowledged: true,
insertedId: ObjectId('68908578ded5f0baac10fb0a')
}
db.users.insertMany([
{ name: "Jane", age: 25 },
{ name: "Mark", age: 32 }
])
{
acknowledged: true,
insertedIds: {
'0': ObjectId('689085bdded5f0baac10fb0b'),
'1': ObjectId('689085bdded5f0baac10fb0c')
}
}
db.users.find({ age: { $gt: 26 } })
{
_id: ObjectId('68908578ded5f0baac10fb0a'),
name: 'John Doe',
email: 'john@example.com',
age: 28,
isActive: true
}
{
_id: ObjectId('689085bdded5f0baac10fb0c'),
name: 'Mark',
age: 32
}

4. Query Example

```
db.users.find({ age: { $gt: 26 } })
```

And command to filter age > 26:-

Here's how to **update** and **delete** records in the **MongoDB shell (`mongo` or `mongosh`)**.

---

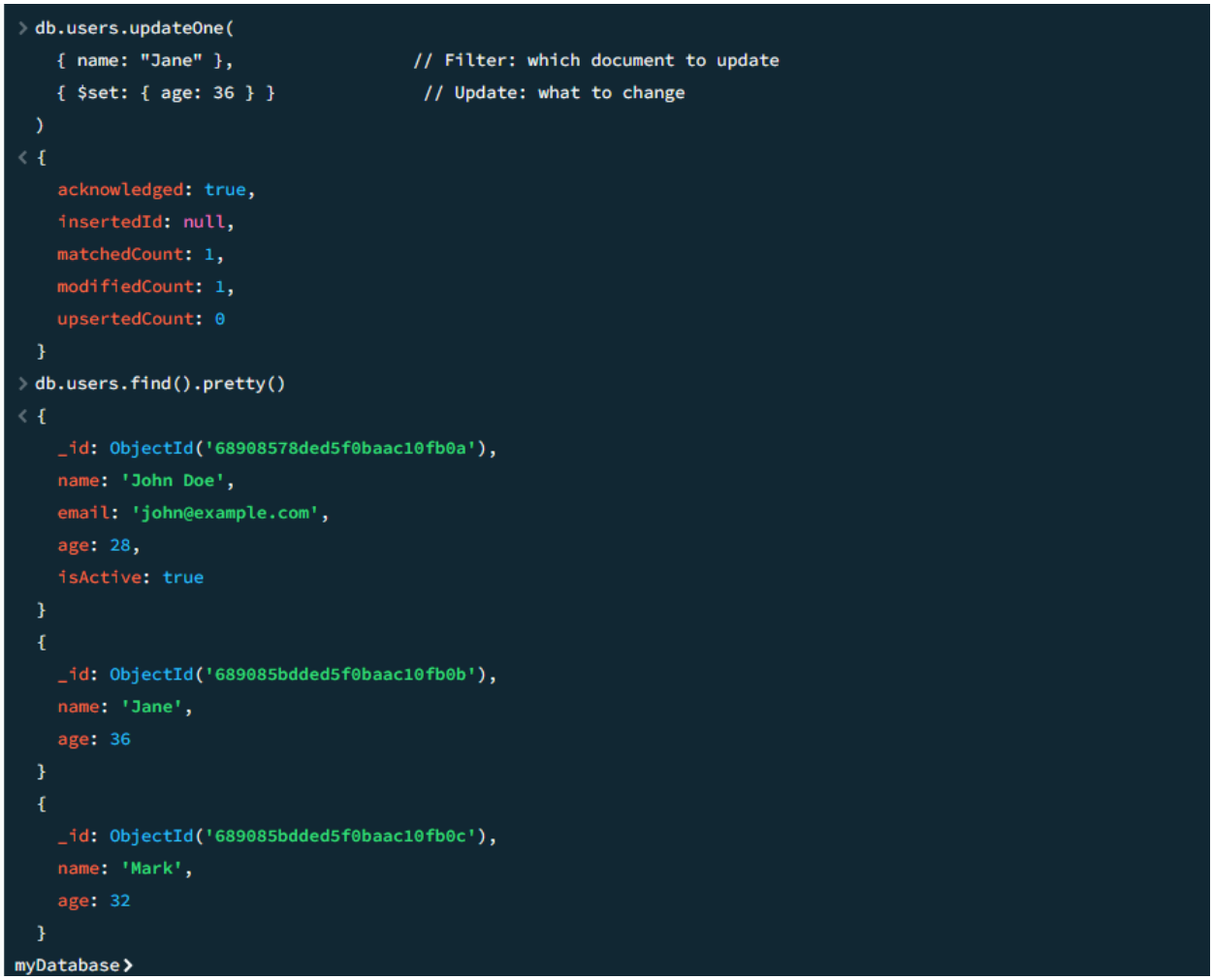
1. UPDATE a Document

Syntax:

```
db.collection.updateOne(filter, update)
```

Example: Update one user's age

```
db.users.updateOne(
  { name: "Alice" },                 // Filter: which document to update
  { $set: { age: 26 } }              // Update: what to change
)
```



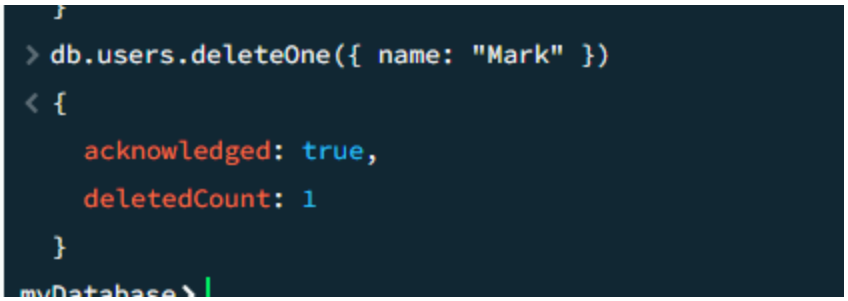
□ Update Multiple Documents

```
db.users.updateMany(
  { age: { $lt: 30 } },              // Filter: users younger than 30
  { $set: { isActive: true } }       // Set a new field
)
```

□ 2. DELETE a Document

□ Delete One Document

```
db.users.deleteOne({ name: "Mark" })
as shown below :-
```



Deletes the first document where name is "Mark"

□ Delete Multiple Documents

```
db.users.deleteMany({ age: { $gt: 40 } })
```

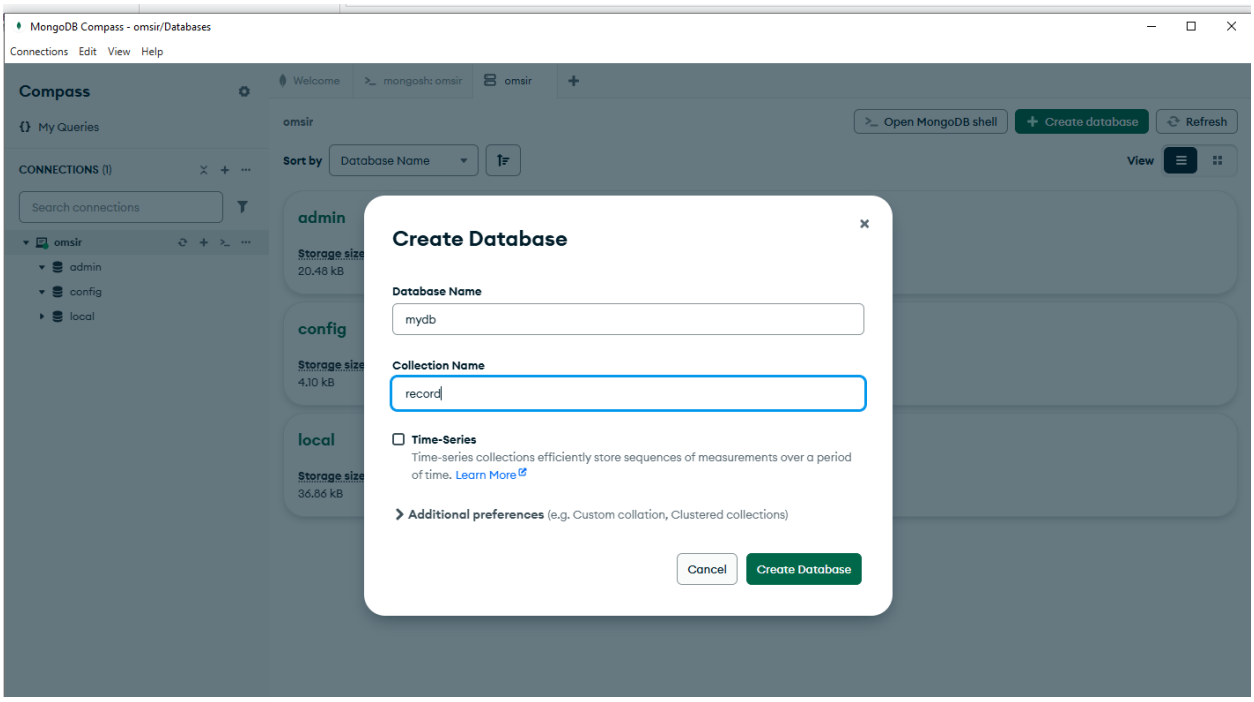
Deletes all users older than 40

□ Check After Update/Delete

To confirm the changes:

```
db.users.find().pretty()
```

And in mongodb compass you can see following option to create database :-



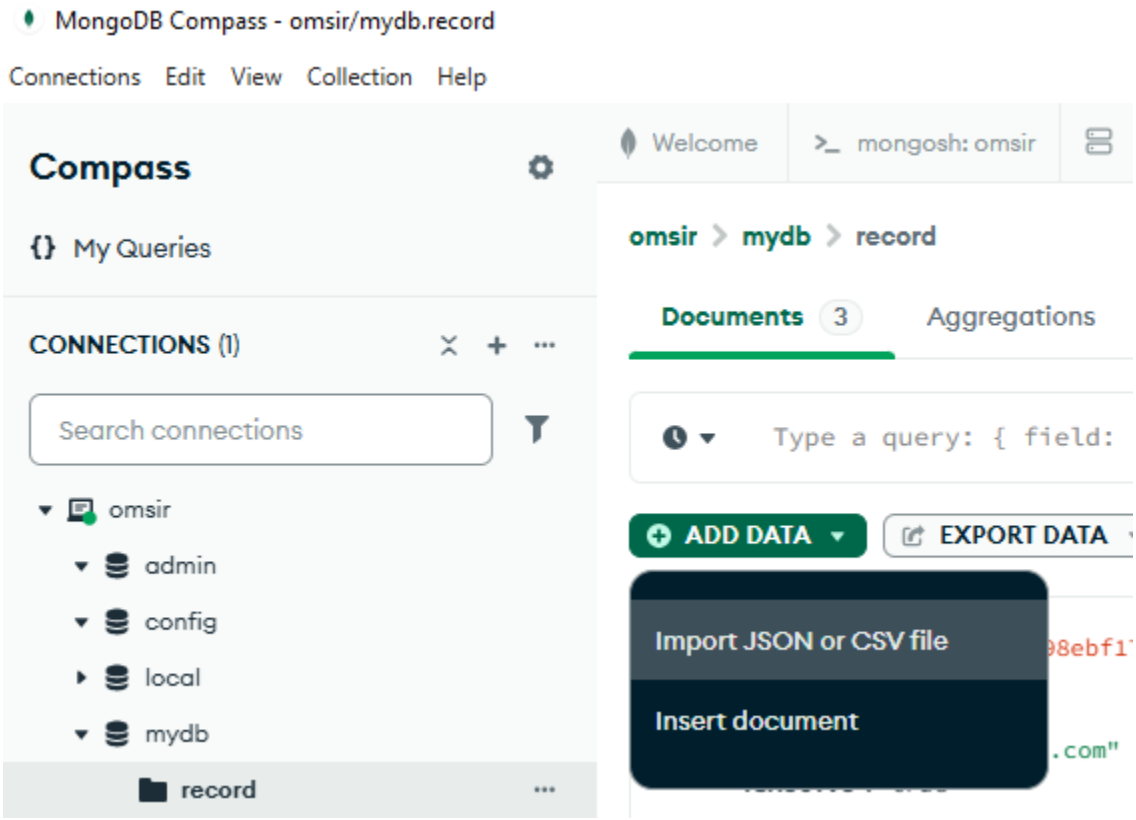
And after creating collection and now how to import data in json format.

Create record.json file as shown below :-

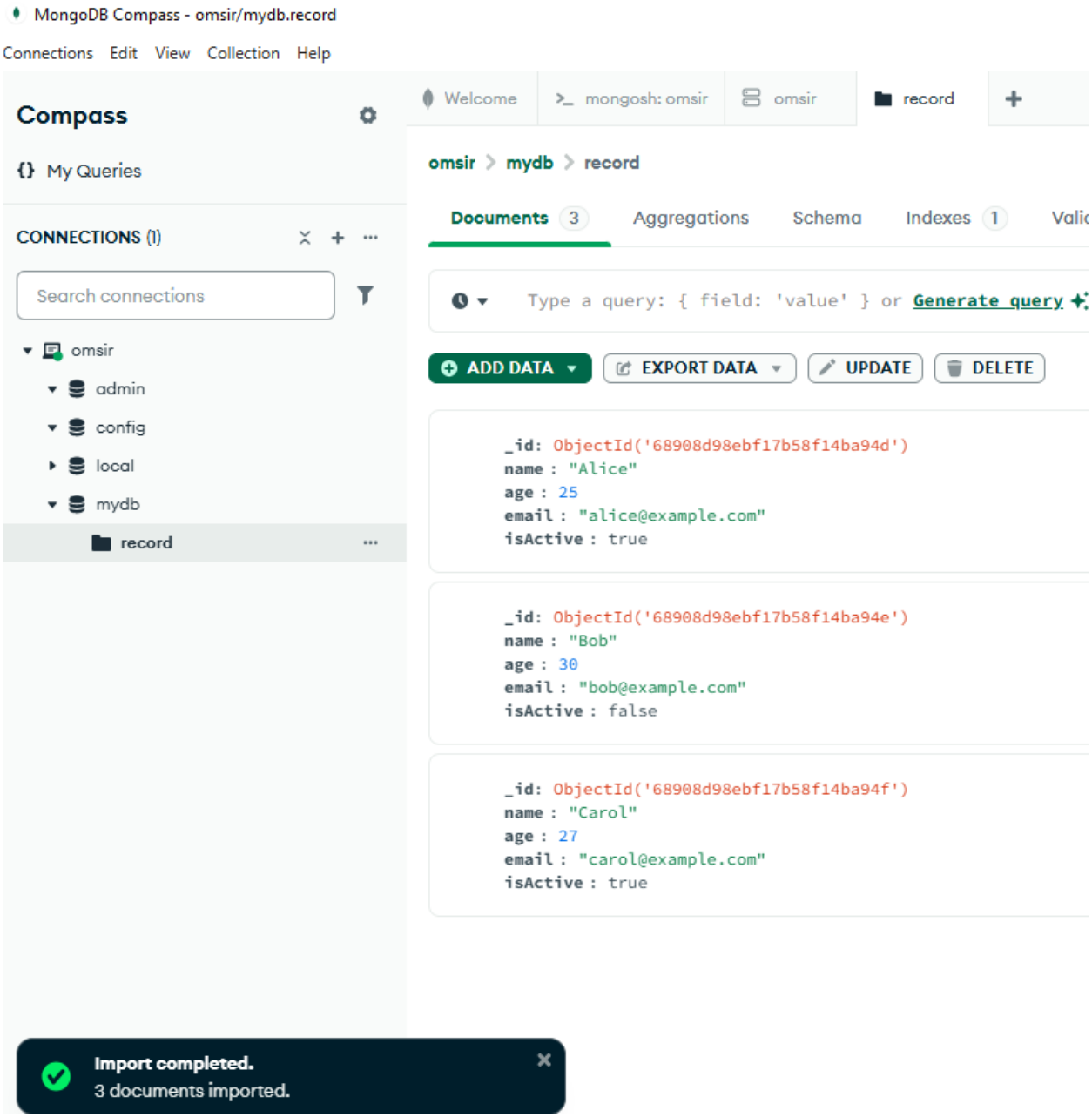
```
[
 {
  "name": "Alice",
  "age": 25,
  "email": "alice@example.com",
  "isActive": true
 },
 {
  "name": "Bob",
  "age": 30,
  "email": "bob@example.com",
  "isActive": false
 },
```

```
 {
   "name": "Carol",
   "age": 27,
   "email": "carol@example.com",
   "isActive": true
 }
]
```

And then select your collection record and click on add data as shown below.



After it you will see record is imported.


MongoDB Compass - omsir/mydb.record
Connections Edit View Collection Help
Compass
My Queries
CONNECTIONS (1)
Search connections
omsir
admin
config
local
mydb
record
Welcome
mongosh: omsir
omsir
record
omsir > mydb > record
Documents 3
Aggregations
Schema
Indexes 1
Type a query: { field: 'value' } or Generate query
ADD DATA
EXPORT DATA
UPDATE
DELETE
_id: ObjectId('68908d98ebf17b58f14ba94d')
name : "Alice"
age : 25
email : "alice@example.com"
isActive : true
_id: ObjectId('68908d98ebf17b58f14ba94e')
name : "Bob"
age : 30
email : "bob@example.com"
isActive : false
_id: ObjectId('68908d98ebf17b58f14ba94f')
name : "Carol"
age : 27
email : "carol@example.com"
isActive : true
Import completed.
3 documents imported.