

Lab2 MongoDB Commands

Create a Blogging Database, then give it 3 collections:

```
> use Blogging
```

```
> db.createCollection("Users"), > db.createCollection("Posts")
```

```
> db.createCollection("Non-Post Users")
```

After the Collections have been made, we pass the corresponding documents to each one:

- I used the insertMany function and passed in an array, instead of creating each document individually. These documents were passed into the 'Users' collection.

```
> db.Users.insertMany([{User: "Username"}, {pass: "Password"}, {name: "Real Name"}])
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('686378cd96fec9c10fee1c7d'),
    '1': ObjectId('686378cd96fec9c10fee1c7e'),
    '2': ObjectId('686378cd96fec9c10fee1c7f')
  }
}
```

I then updated the 'Real Name' document to be 'Email Address' instead:

```
> db.Users.updateOne({name: "Real Name"}, {$set: {name: "Email Address"}})
```

Then we insert the 'Posts' collection with its corresponding objects using the insertMany():

```
> db.Posts.insertMany([{header: "Title"}, {current: "Time"}, {content: "Description"}, {post: "Image"}])
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('68644c6f96fec9c10fee1c80'),
    '1': ObjectId('68644c6f96fec9c10fee1c81'),
    '2': ObjectId('68644c6f96fec9c10fee1c82'),
    '3': ObjectId('68644c6f96fec9c10fee1c83')
  }
}
```

There was an error with the naming convention of the 'Non-Post Users' so, we ran the appropriate command to rename it for better functionality:

```
> db.adminCommand({renameCollection: "Blogging.Non-Post Users", to: "Blogging.Audience"})
< { ok: 1 }
```

Lastly, we add documents with insertMany() into the newly named 'Audience' collection:

```
> db.Audience.insertMany([{post: "Like"}, {input: "Comment"}, {send: "Share"}])
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('686451b596fec9c10fee1c84'),
    '1': ObjectId('686451b596fec9c10fee1c85'),
    '2': ObjectId('686451b596fec9c10fee1c86')
  }
}
```

Here is the structure of the Blogging Database with its corresponding Collections, occupied by their respective documents:

The screenshot shows the MongoDB Compass interface. On the left, the 'My Queries' tab is active, and the 'CONNECTIONS (1)' section shows a connection to 'localhost:27017'. The 'Blogging' database is selected, showing three collections: 'Audience', 'Posts', and 'Users'. The main panel displays the details for these collections, sorted by 'Collection Name'.

Collection Name	Storage size	Documents	Avg. document size	Indexes
Audience	4.10 kB	0	0 B	1
Posts	20.48 kB	4	41.00 B	1
Users	20.48 kB	3	42.00 B	1