MUTATIONS

In this GraphQL tutorial I'll explain what mutations are, and how we can use them to add, change or delete our data.

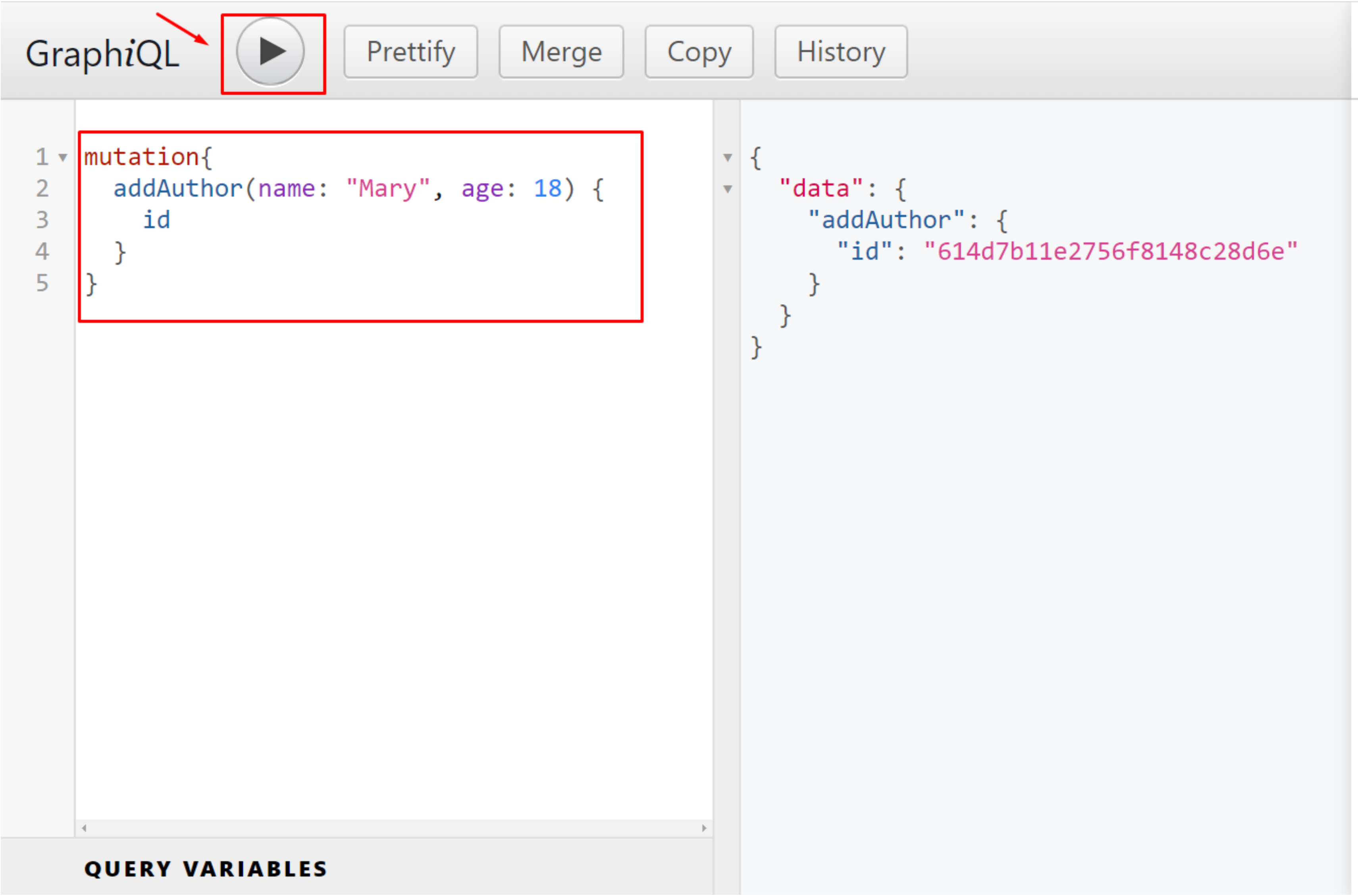
schema.js

```
const graphql = require('graphql');
const Book = require('../models/book');
const Author = require('../models/Author');
const _ = require('lodash');
const {...} = graphql;
...
const Mutation = new GraphQLObjectType({
    name: 'Mutation',
    fields: {
        addAuthor: {
            type: AuthorType,
            args: {
                name: { type: GraphQLString },
                age: { type: GraphQLInt }
            },
            resolve(parent, args){
                let author = new Author({
                    name: args.name,
                    age: args.age
                });
                return author.save();
            }
        }
    }
});

module.exports = new GraphQLSchema({
    query: RootQuery,
    mutation: Mutation
});
```

Insert code

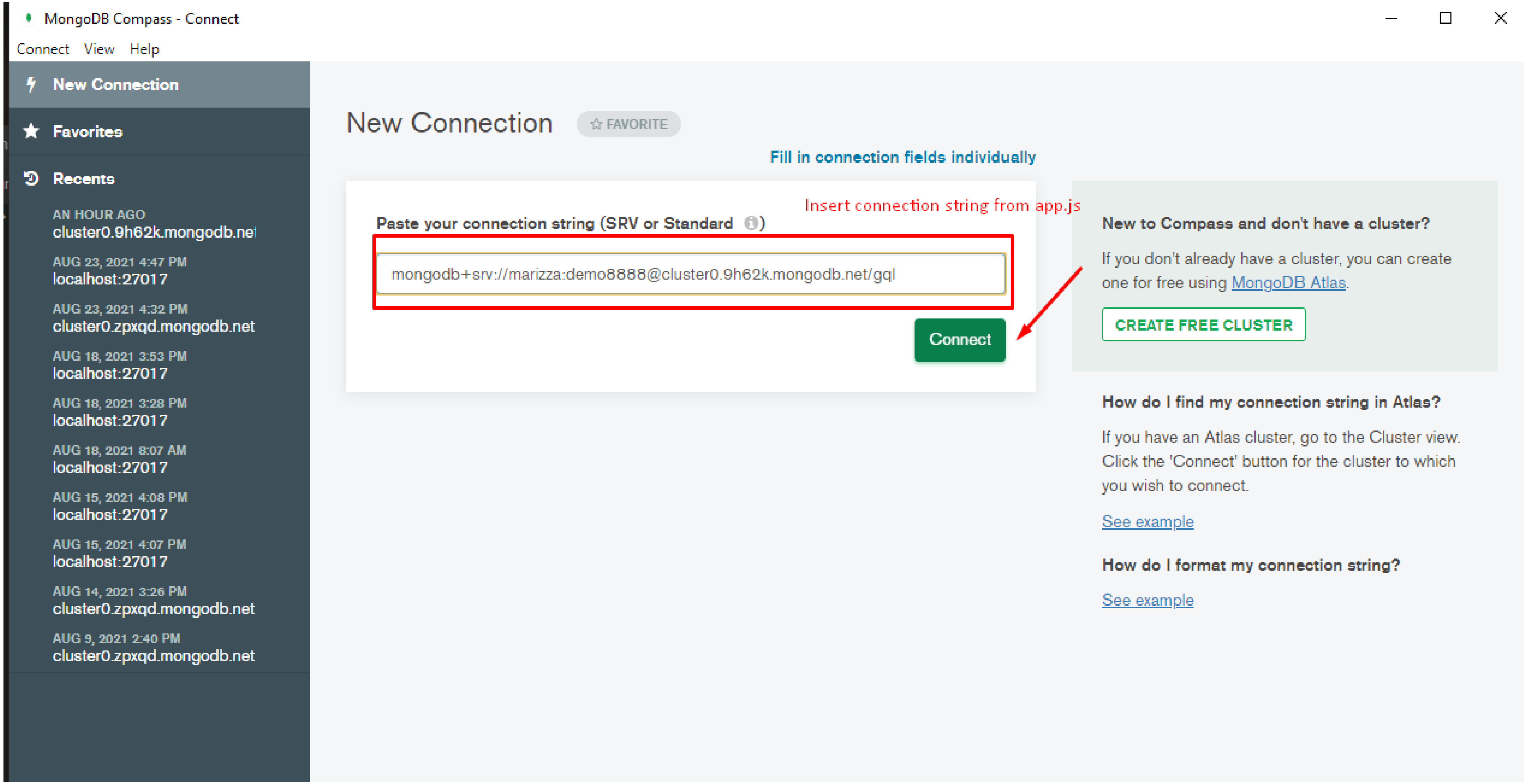
Go to http://localhost:4000/graphql



```
mutation{
  addAuthor(name: "Mary", age: 18) {
    id
  }
}
```

```
{
  "data": {
    "addAuthor": {
      "id": "614d7b11e2756f8148c28d6e"
    }
  }
}
```

Go to MongoDB Compas



AN HOUR AGO
cluster0.9h62k.mongodb.net

AUG 23, 2021 4:47 PM
localhost:27017

AUG 23, 2021 4:32 PM
cluster0.zpxqd.mongodb.net

AUG 18, 2021 3:53 PM
localhost:27017

AUG 18, 2021 3:28 PM
localhost:27017

AUG 18, 2021 8:07 AM
localhost:27017

AUG 15, 2021 4:08 PM
localhost:27017

AUG 15, 2021 4:07 PM
localhost:27017

AUG 14, 2021 3:26 PM
cluster0.zpxqd.mongodb.net

AUG 9, 2021 2:40 PM
cluster0.zpxqd.mongodb.net

New Connection

Paste your connection string (SRV or Standard ⓘ)

```
mongodb+srv://marizza:demo8888@cluster0.9h62k.mongodb.net/gql
```

Insert connection string from app.js

New to Compass and don't have a cluster?

If you don't already have a cluster, you can create one for free using MongoDB Atlas.

How do I find my connection string in Atlas?

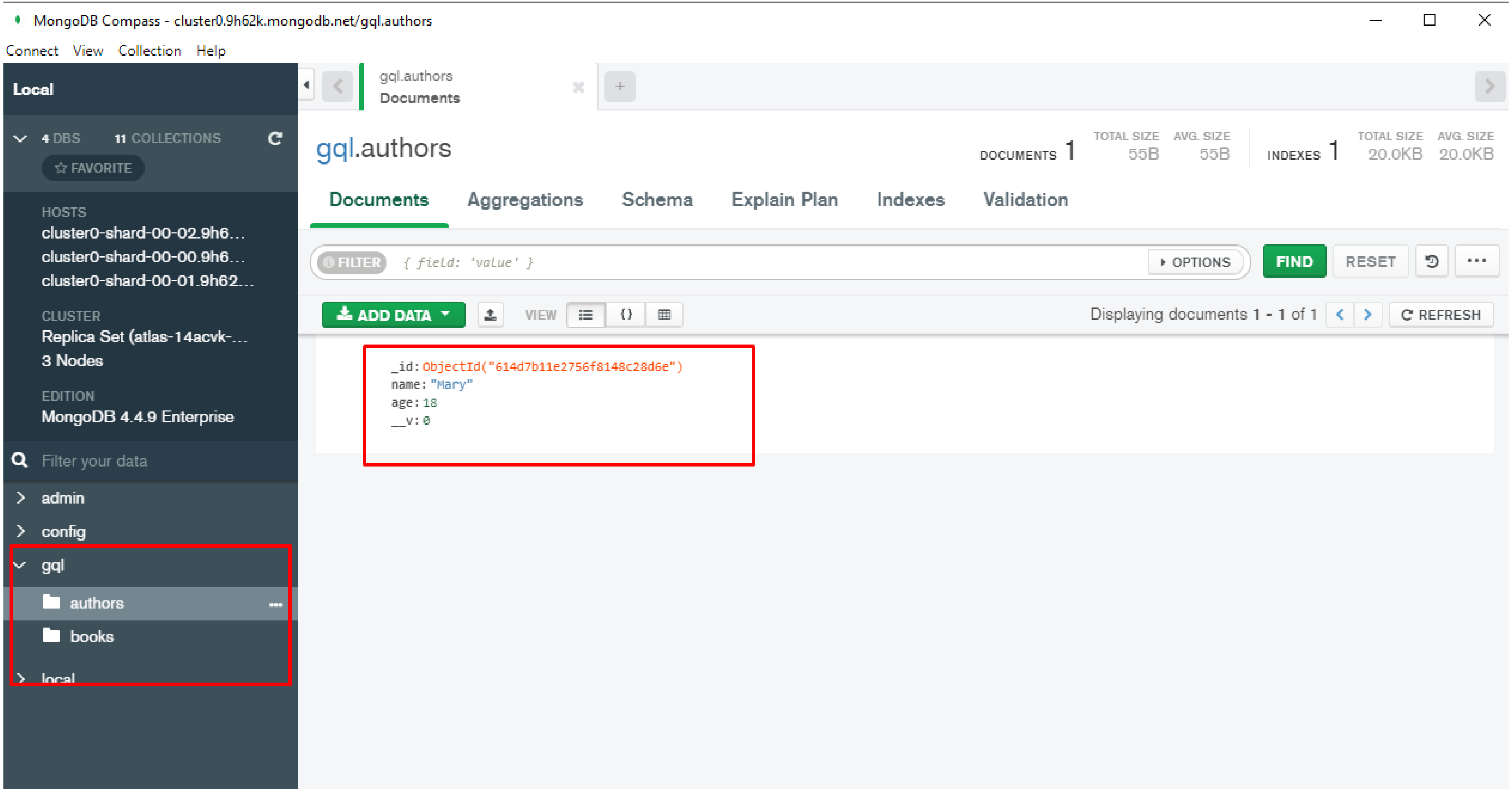
If you have an Atlas cluster, go to the Cluster view. Click the 'Connect' button for the cluster to which you wish to connect.

See example

How do I format my connection string?

See example

Go to MongoDB Compas



MongoDB Compass - cluster0.9h62k.mongodb.net/gql.authors

HOSTS
cluster0-shard-00-02.9h6…
cluster0-shard-00-00.9h6…
cluster0-shard-00-01.9h62…

CLUSTER
Replica Set (atlas-14acvk-…
3 Nodes

EDITION
MongoDB 4.4.9 Enterprise

gql.authors

DOCUMENTS	TOTAL SIZE	AVG. SIZE	INDEXES	TOTAL SIZE	AVG. SIZE
1	55B	55B	1	20.0KB	20.0KB

Displaying documents 1 - 1 of 1

```
_id: ObjectId("614d7b11e2756f8148c28d6e")
name: "Mary"
age: 18
__v: 0
```

schema.js

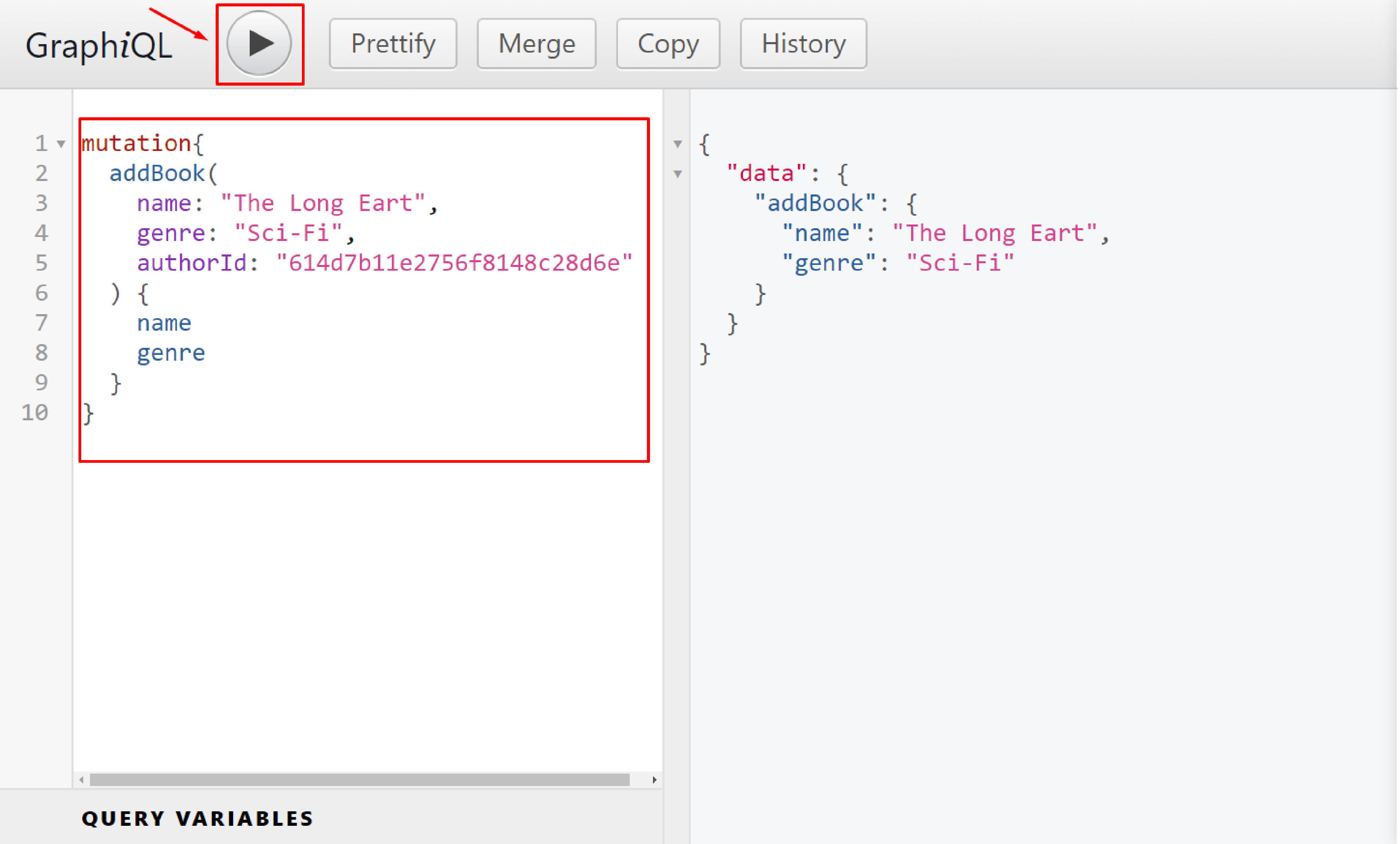
```
const graphql = require('graphql');
const Book = require('../models/book');
const Author = require('../models/Author');
const _ = require('lodash');
const {...} = graphql;

const Mutation = new GraphQLObjectType({
    name: 'Mutation',
    fields: {
        addAuthor: {...},
        addBook: {
            type: BookType,
            args: {
                name: { type: GraphQLString },
                genre: { type: GraphQLString },
                authorId: { type: GraphQLID }
            },
            resolve(parent, args){
                let book = new Book({
                    name: args.name,
                    genre: args.genre,
                    authorId: args.authorId
                });
                return book.save();
            }
        }
    }
});

module.exports = new GraphQLSchema({
    query: RootQuery,
    mutation: Mutation
});
```

Insert
code

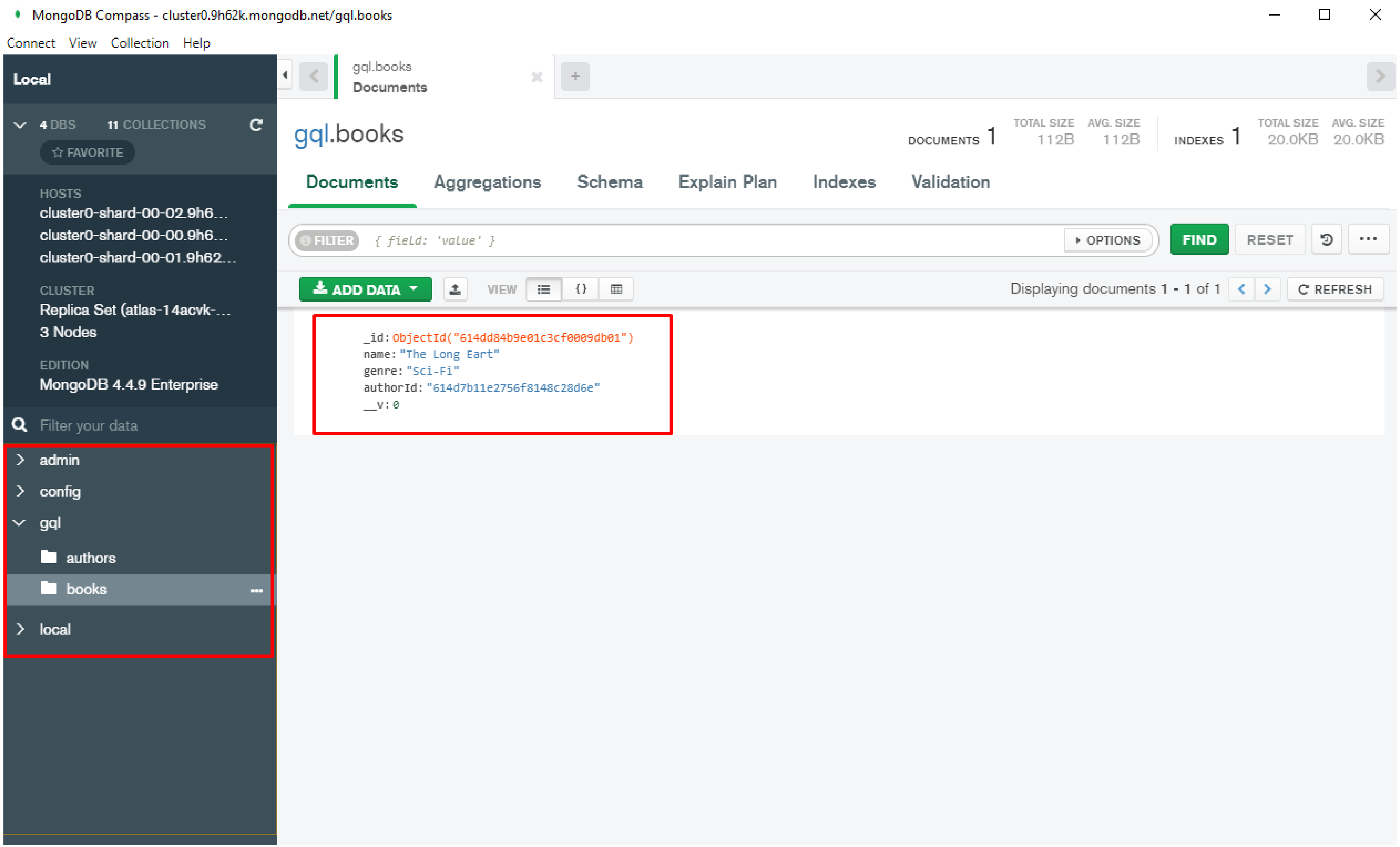
Go to http://localhost:4000/graphql



```
mutation{
  addBook(
    name: "The Long Eart",
    genre: "Sci-Fi",
    authorId: "614d7b11e2756f8148c28d6e"
  ) {
    name
    genre
  }
}
```

```
{
  "data": {
    "addBook": {
      "name": "The Long Eart",
      "genre": "Sci-Fi"
    }
  }
}
```

Go to MongoDB Compas



```
_id: ObjectId("614dd84b9e01c3cf0009db01")
name: "The Long Eart"
genre: "Sci-Fi"
authorId: "614d7b11e2756f8148c28d6e"
__v: 0
```