DS108-01-12 - NoSQL - Lesson 1 Practice Hands-On

Requirements

This Hands-On is structured into *two* parts, and each part may ask you to run multiple queries. After each query, please take a screenshot and add it to a text document (or an equivalent) and name this file `NoSQL–HandsOn1`. This way, you will be able to submit your answers to each part all at once. You will continue working with the `appusers` collection in Atlas that you created during the lesson. Good luck!

> [!caution] Caution! Be sure to take screenshots of each of your queries.

> [!info] Info Be sure to zip and submit your `NoSQL–HandsOn1` text document when finished! You will not be able to re-submit, so be sure the screenshots to each part are located within this document.

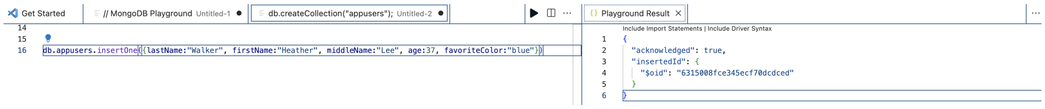
Part 1

1.1 Create 3 more users of your choosing

- Create three more users of your choosing
- Using the `insertOne()` query, and add them to the `appusers` collection.
- Include at least the `firstName`, `lastName`, and `age` fields.
- Feel free to also include any other fields you think would be useful data for an app user.

> [!caution] Caution! Please take a screenshot of each query you run (since you are inserting each user one-by-one using `insertOne()`, you will run at least three queries) and save it to your `NoSQL–HandsOn1` text document.

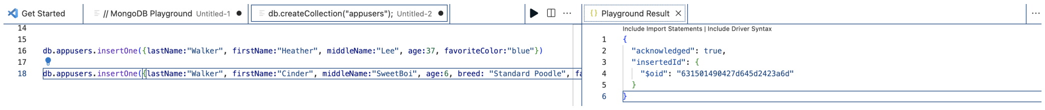
```
db.appusers.insertOne({lastName:"Walker", firstName:"Heather",
        middleName:"Lee", age:37, favoriteColor:"blue"})
```


Get Started
// MongoDB Playground Untitled-1 ●
db.createCollection("appusers"); Untitled-2 ●
Playground Result
Include Import Statements | Include Driver Syntax

```
db.appusers.insertOne({lastName:"Walker", firstName:"Heather", middleName:"Lee", age:37, favoriteColor:"blue"})
```

```
{
  "acknowledged": true,
  "insertedId": {
    "$oid": "6315008fce345ecf70dcdced"
  }
}
```

```
db.appusers.insertOne({lastName:"Walker", firstName:"Cinder",
        middleName:"SweetBoi", age:6, breed: "Standard Poodle",
        favoriteFood:"lamb"})
```

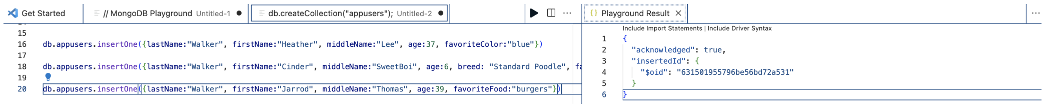

Get Started
// MongoDB Playground Untitled-1 ●
db.createCollection("appusers"); Untitled-2 ●
Playground Result
Include Import Statements | Include Driver Syntax

```
db.appusers.insertOne({lastName:"Walker", firstName:"Heather", middleName:"Lee", age:37, favoriteColor:"blue"})

db.appusers.insertOne({lastName:"Walker", firstName:"Cinder", middleName:"SweetBoi", age:6, breed: "Standard Poodle", fa
```

```
{
  "acknowledged": true,
  "insertedId": {
    "$oid": "631501490427d645d2423a6d"
  }
}
```

```
db.appusers.insertOne({lastName:"Walker", firstName:"Jarrod",
        middleName:"Thomas", age:39, favoriteFood:"burgers"})
```


Get Started
// MongoDB Playground Untitled-1 ●
db.createCollection("appusers"); Untitled-2 ●
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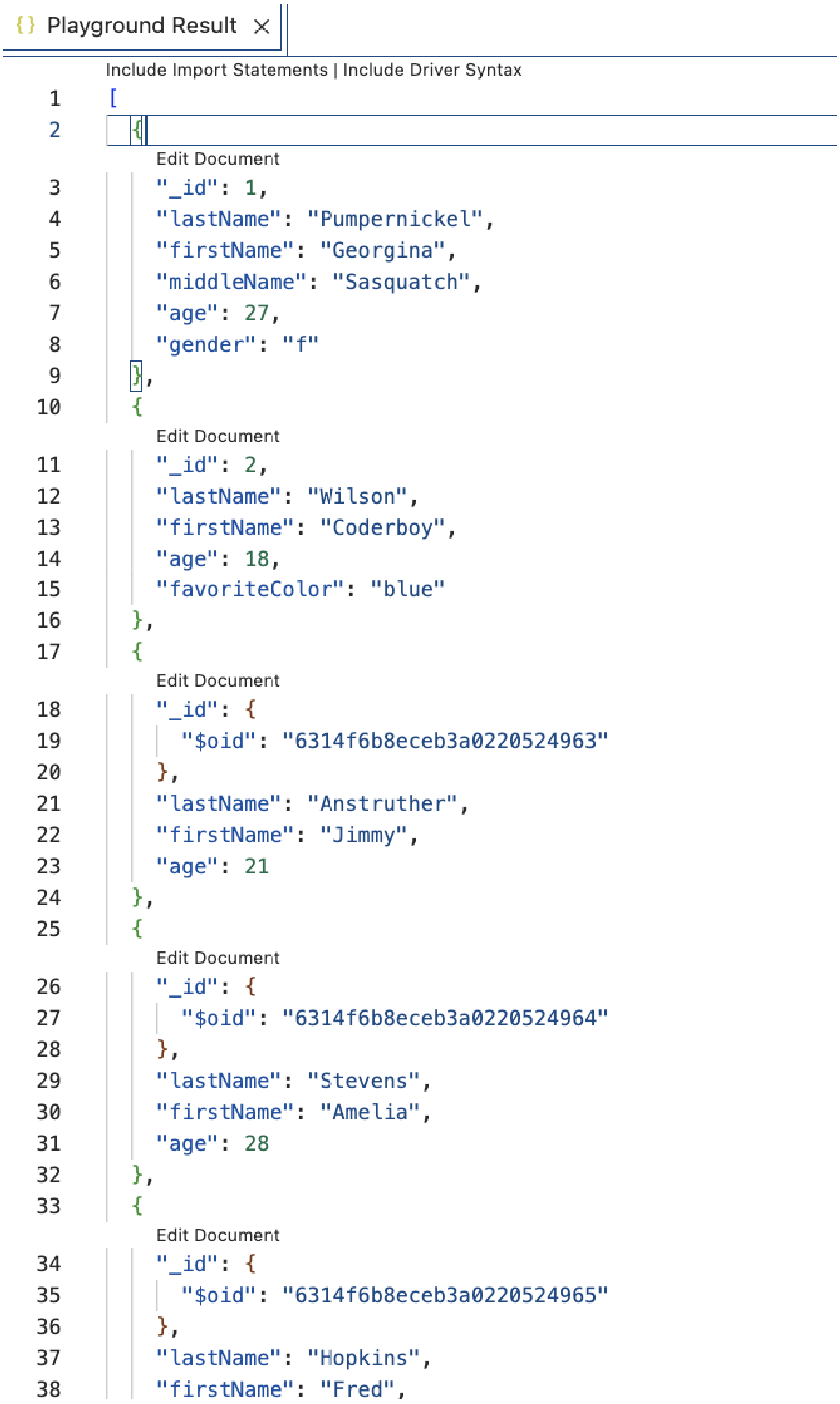
```
db.appusers.insertOne({lastName:"Walker", firstName:"Heather", middleName:"Lee", age:37, favoriteColor:"blue"})

db.appusers.insertOne({lastName:"Walker", firstName:"Cinder", middleName:"SweetBoi", age:6, breed: "Standard Poodle", fa

db.appusers.insertOne({lastName:"Walker", firstName:"Jarrod", middleName:"Thomas", age:39, favoriteFood:"burgers"})
```

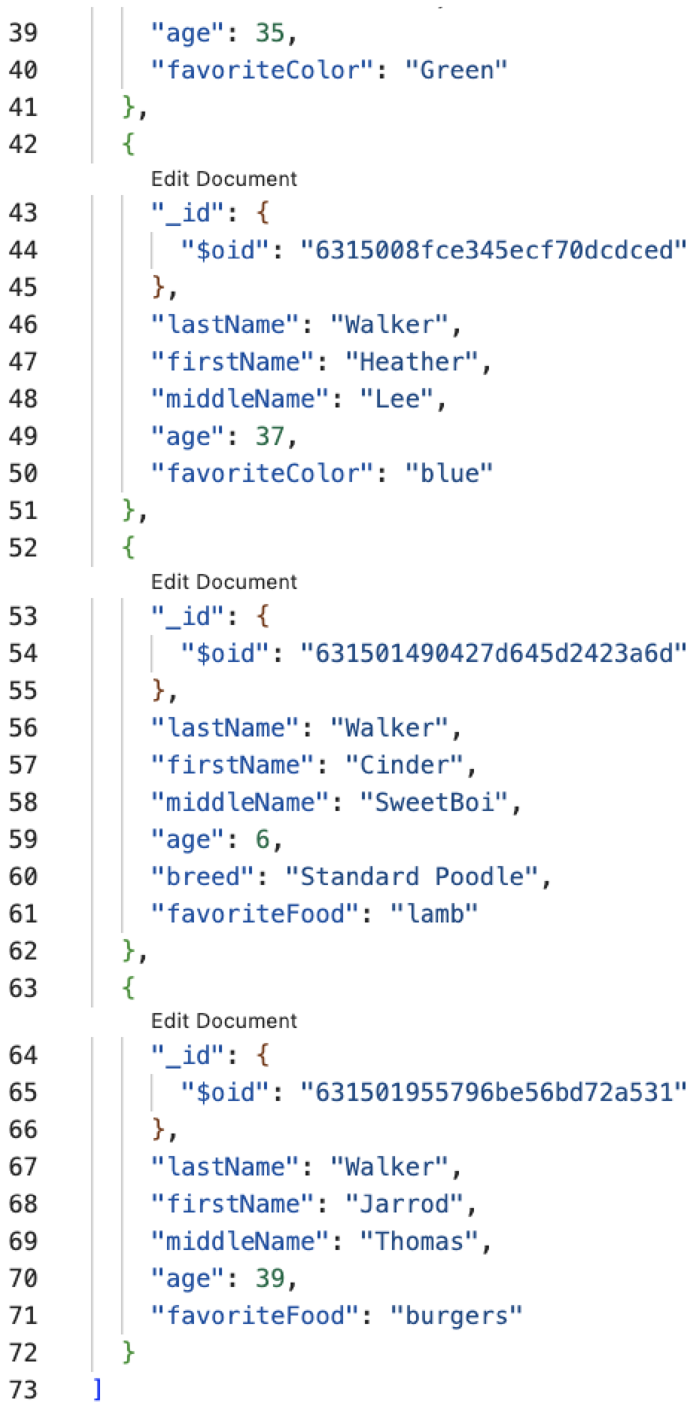
```
{
  "acknowledged": true,
  "insertedId": {
    "$oid": "631501955796be56bd72a531"
  }
}
```

1.2 Run a basic `find()` query

- Next, run a basic `find()` query to see all of your documents within your database through the Mongo Shell.



```
[
  {
    "_id": 1,
    "lastName": "Pumpernickel",
    "firstName": "Georgina",
    "middleName": "Sasquatch",
    "age": 27,
    "gender": "f"
  },
  {
    "_id": 2,
    "lastName": "Wilson",
    "firstName": "Coderboy",
    "age": 18,
    "favoriteColor": "blue"
  },
  {
    "_id": {
      "$oid": "6314f6b8eceb3a0220524963"
    },
    "lastName": "Anstruther",
    "firstName": "Jimmy",
    "age": 21
  },
  {
    "_id": {
      "$oid": "6314f6b8eceb3a0220524964"
    },
    "lastName": "Stevens",
    "firstName": "Amelia",
    "age": 28
  },
  {
    "_id": {
      "$oid": "6314f6b8eceb3a0220524965"
    },
    "lastName": "Hopkins",
    "firstName": "Fred",
```

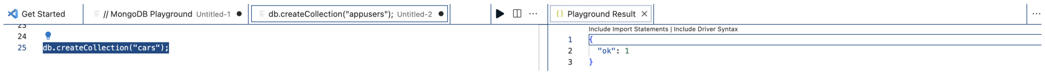


```
    "age": 35,
    "favoriteColor": "Green"
  },
  {
    Edit Document
    "_id": {
      "$oid": "6315008fce345ecf70dcdced"
    },
    "lastName": "Walker",
    "firstName": "Heather",
    "middleName": "Lee",
    "age": 37,
    "favoriteColor": "blue"
  },
  {
    Edit Document
    "_id": {
      "$oid": "631501490427d645d2423a6d"
    },
    "lastName": "Walker",
    "firstName": "Cinder",
    "middleName": "SweetBoi",
    "age": 6,
    "breed": "Standard Poodle",
    "favoriteFood": "lamb"
  },
  {
    Edit Document
    "_id": {
      "$oid": "631501955796be56bd72a531"
    },
    "lastName": "Walker",
    "firstName": "Jarrod",
    "middleName": "Thomas",
    "age": 39,
    "favoriteFood": "burgers"
  }
]
```

Part 2

2.1 Create a new collection

- This new collection should be named `cars`.


Get Started
// MongoDB Playground Untitled-1
db.createCollection("appusers"); Untitled-2
Playground Result
Include Import Statements | Include Driver Syntax

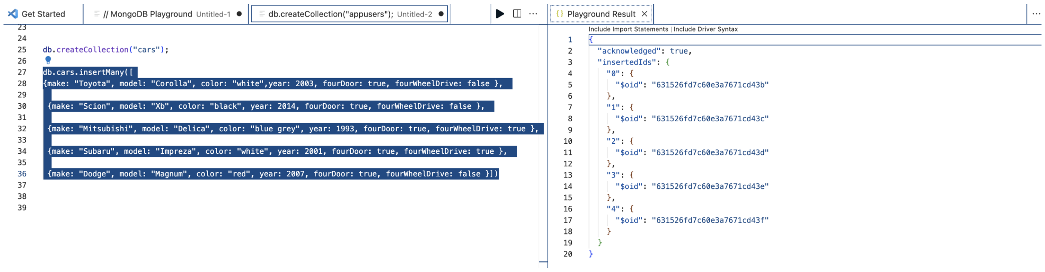
```
db.createCollection("cars");
```

```
{
  "ok": 1
}
```

2.2 Insert 5 cars into this collection

- Include the following fields: `make`, `model`, `color`, `year`, `fourDoor`, and `fourWheelDrive`.
- The last two fields, `fourDoor` and `fourWheelDrive`, should be of type Boolean (i.e. true or false).

```
db.cars.insertMany([
{make: "Toyota", model: "Corolla", color: "white",year: 2003,
        fourDoor: true, fourWheelDrive: false },

 {make: "Scion", model: "Xb", color: "black", year: 2014, fourDoor:
        true, fourWheelDrive: false },

 {make: "Mitsubishi", model: "Delica", color: "blue grey", year: 1993,
        fourDoor: true, fourWheelDrive: true },

 {make: "Subaru", model: "Impreza", color: "white", year: 2001,
        fourDoor: true, fourWheelDrive: true },

 {make: "Dodge", model: "Magnum", color: "red", year: 2007, fourDoor:
        true, fourWheelDrive: false }])
```


Get Started
// MongoDB Playground Untitled-1
db.createCollection("appusers"); Untitled-2
Playground Result
Include Import Statements | Include Driver Syntax

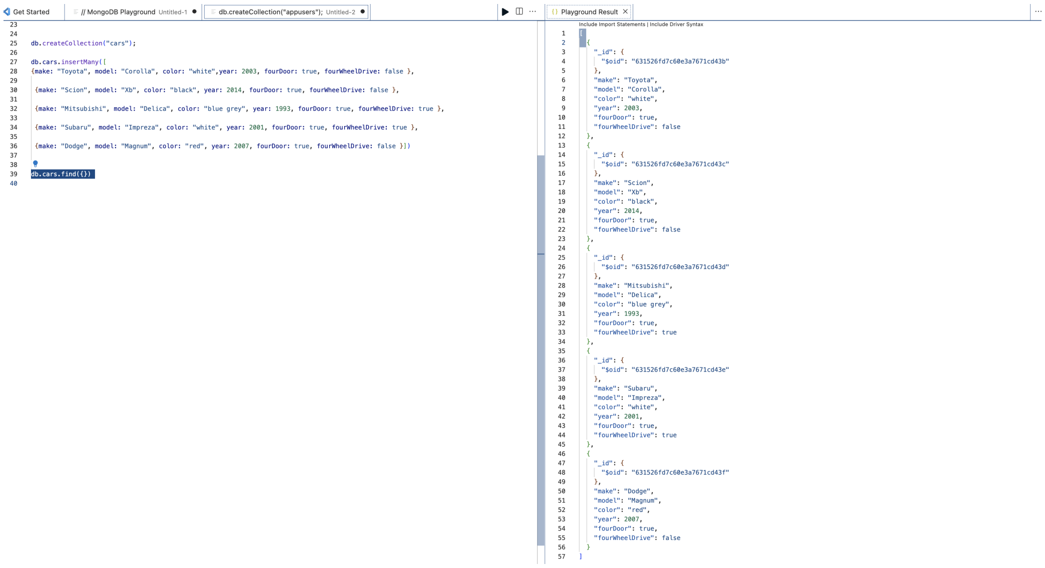
```


db.createCollection("cars");

db.cars.insertMany([
{make: "Toyota", model: "Corolla", color: "white",year: 2003, fourDoor: true, fourWheelDrive: false },

 {make: "Scion", model: "Xb", color: "black", year: 2014, fourDoor: true, fourWheelDrive: false },

 {make: "Mitsubishi", model: "Delica", color: "blue grey", year: 1993, fourDoor: true, fourWheelDrive: true },

 {make: "Subaru", model: "Impreza", color: "white", year: 2001, fourDoor: true, fourWheelDrive: true },

 {make: "Dodge", model: "Magnum", color: "red", year: 2007, fourDoor: true, fourWheelDrive: false }])
```

```
{
  "acknowledged": true,
  "insertedIds": {
    "0": {
      "$oid": "631526fd7c60e3a7671cd43b"
    },
    "1": {
      "$oid": "631526fd7c60e3a7671cd43c"
    },
    "2": {
      "$oid": "631526fd7c60e3a7671cd43d"
    },
    "3": {
      "$oid": "631526fd7c60e3a7671cd43e"
    },
    "4": {
      "$oid": "631526fd7c60e3a7671cd43f"
    }
  }
}
```

2.3 Run a `find()` query

- Once that is done, run a `find()` query to see your newly created documents.

```
db.cars.find({})
```

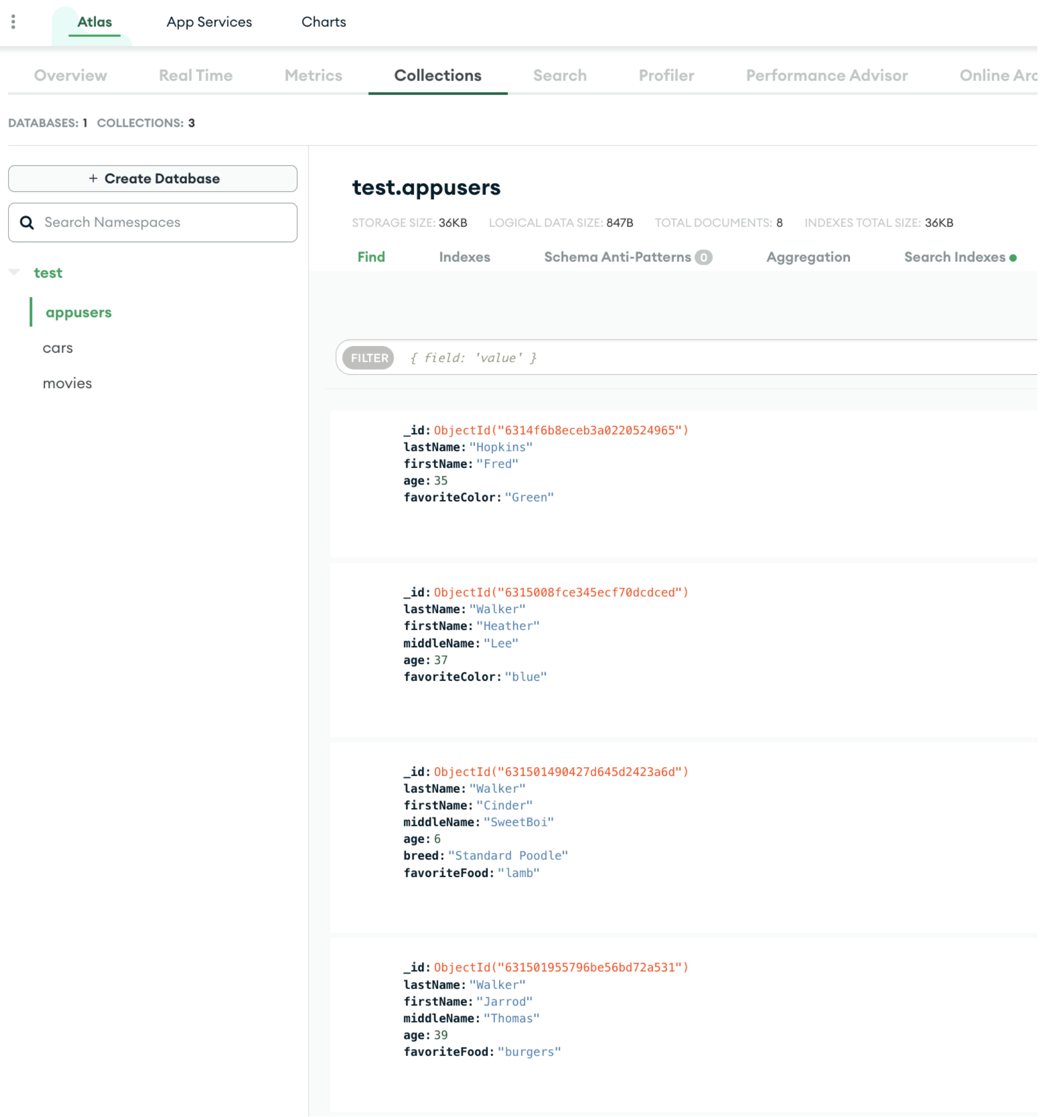

Get Started
// MongoDB Playground Untitled-1
db.createCollection("appusers"); Untitled-2
Playground Result
Include Import Statements | Include Driver Syntax

```


db.createCollection("cars");

db.cars.insertMany([
{make: "Toyota", model: "Corolla", color: "white",year: 2003, fourDoor: true, fourWheelDrive: false },

 {make: "Scion", model: "Xb", color: "black", year: 2014, fourDoor: true, fourWheelDrive: false },

 {make: "Mitsubishi", model: "Delica", color: "blue grey", year: 1993, fourDoor: true, fourWheelDrive: true },

 {make: "Subaru", model: "Impreza", color: "white", year: 2001, fourDoor: true, fourWheelDrive: true },

 {make: "Dodge", model: "Magnum", color: "red", year: 2007, fourDoor: true, fourWheelDrive: false }])


db.cars.find({})

```

```
[
  {
    "_id": {
      "$oid": "631526fd7c60e3a7671cd43b"
    },
    "make": "Toyota",
    "model": "Corolla",
    "color": "white",
    "year": 2003,
    "fourDoor": true,
    "fourWheelDrive": false
  },
  {
    "_id": {
      "$oid": "631526fd7c60e3a7671cd43c"
    },
    "make": "Scion",
    "model": "Xb",
    "color": "black",
    "year": 2014,
    "fourDoor": true,
    "fourWheelDrive": false
  },
  {
    "_id": {
      "$oid": "631526fd7c60e3a7671cd43d"
    },
    "make": "Mitsubishi",
    "model": "Delica",
    "color": "blue grey",
    "year": 1993,
    "fourDoor": true,
    "fourWheelDrive": true
  },
  {
    "_id": {
      "$oid": "631526fd7c60e3a7671cd43e"
    },
    "make": "Subaru",
    "model": "Impreza",
    "color": "white",
    "year": 2001,
    "fourDoor": true,
    "fourWheelDrive": true
  },
  {
    "_id": {
      "$oid": "631526fd7c60e3a7671cd43f"
    },
    "make": "Dodge",
    "model": "Magnum",
    "color": "red",
    "year": 2007,
    "fourDoor": true,
    "fourWheelDrive": false
  }
]
```

2.4 View your collection and documents in MongoDB Atlas

- Lastly, return to Atlas and view your collection and documents there.

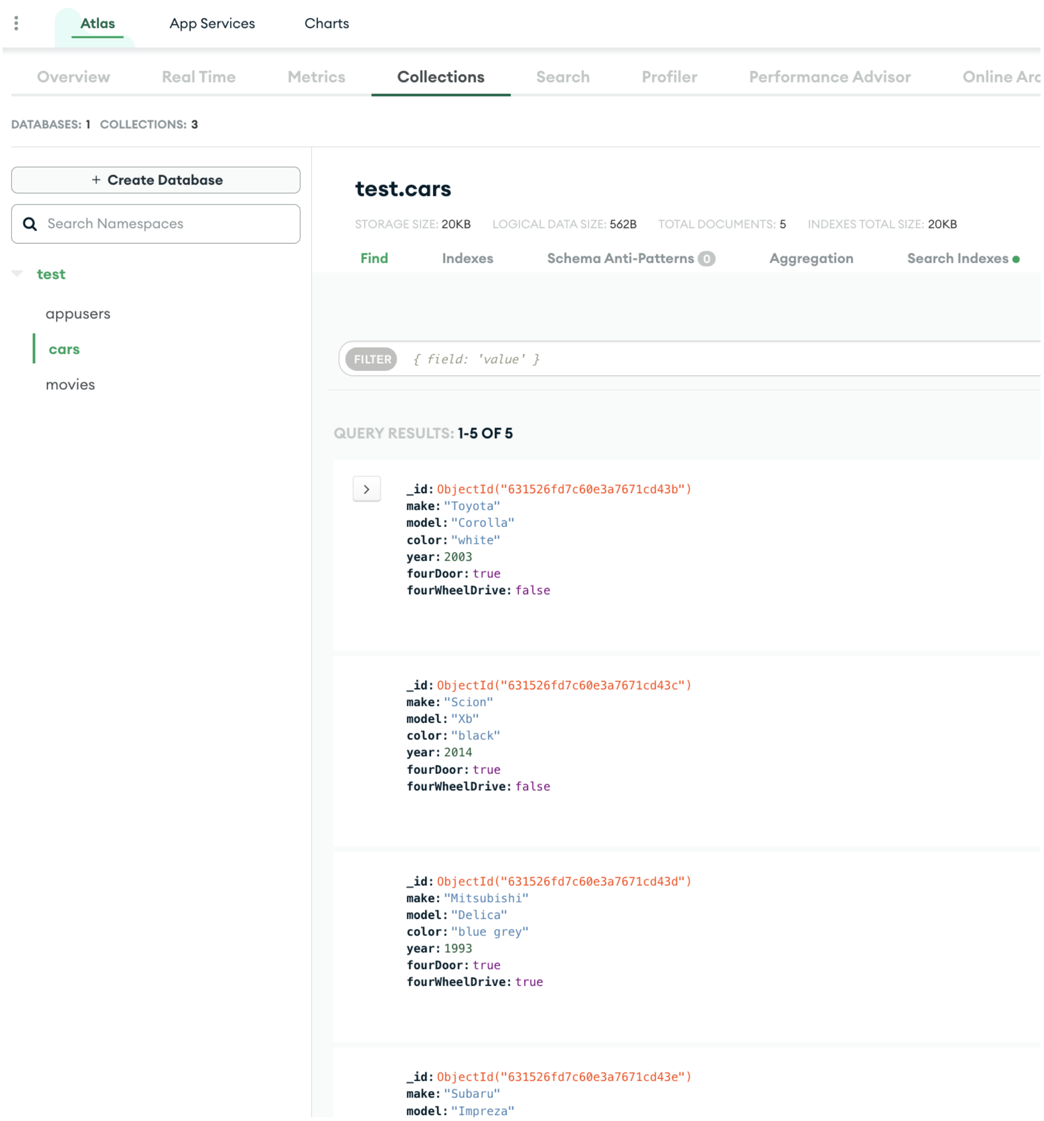


```
_id: ObjectId("6314f6b8eceb3a0220524965")
lastName: "Hopkins"
firstName: "Fred"
age: 35
favoriteColor: "Green"
```

```
_id: ObjectId("6315008fce345ecf70dcdced")
lastName: "Walker"
firstName: "Heather"
middleName: "Lee"
age: 37
favoriteColor: "blue"
```

```
_id: ObjectId("631501490427d645d2423a6d")
lastName: "Walker"
firstName: "Cinder"
middleName: "SweetBoi"
age: 6
breed: "Standard Poodle"
favoriteFood: "lamb"
```

```
_id: ObjectId("631501955796be56bd72a531")
lastName: "Walker"
firstName: "Jarrod"
middleName: "Thomas"
age: 39
favoriteFood: "burgers"
```



DATABASES: 1 COLLECTIONS: 3

test.cars

STORAGE SIZE: 20KB LOGICAL DATA SIZE: 562B TOTAL DOCUMENTS: 5 INDEXES TOTAL SIZE: 20KB

QUERY RESULTS: 1-5 OF 5

```
_id: ObjectId("631526fd7c60e3a7671cd43b")
make: "Toyota"
model: "Corolla"
color: "white"
year: 2003
fourDoor: true
fourWheelDrive: false
```

```
_id: ObjectId("631526fd7c60e3a7671cd43c")
make: "Scion"
model: "Xb"
color: "black"
year: 2014
fourDoor: true
fourWheelDrive: false
```

```
_id: ObjectId("631526fd7c60e3a7671cd43d")
make: "Mitsubishi"
model: "Delica"
color: "blue grey"
year: 1993
fourDoor: true
fourWheelDrive: true
```

```
_id: ObjectId("631526fd7c60e3a7671cd43e")
make: "Subaru"
model: "Impreza"
```