Hashim Aziz Muhammad

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L3T04 - Database Interaction with MongoDB

and Mongoose

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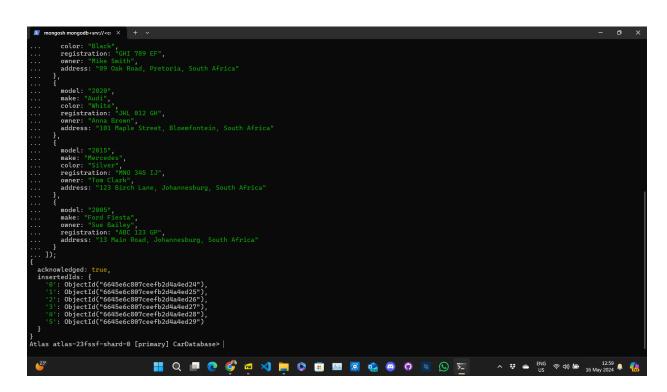
+27832521214

```
mongosh mongodb+srv://<ci ×</p>
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka
.ms/PSWindows
PS C:\Users\hashi> mongosh "mongodb+srv://practicecluster.bweei76.mongodb.ne
t/" --apiVersion 1 --username hashim
Enter password: ***********
Current Mongosh Log ID: 6645e5d407ceefb2d4a4ed23
                       mongodb+srv://<credentials>@practicecluster.bweei76.
Connecting to:
mongodb.net/?appName=mongosh+2.0.0
Using MongoDB:
                       7.0.8 (API Version 1)
                       2.0.0
Using Mongosh:
mongosh 2.2.5 is available for download: https://www.mongodb.com/try/downloa
d/shell
For mongosh info see: https://docs.mongodb.com/mongodb-shell/
Atlas atlas-23fssf-shard-0 [primary] test>
```

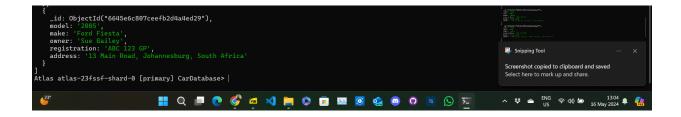
Comment: This screenshot shows the successful connection to the MongoDB instance using mongosh.

```
×
                                                                       mongosh mongodb+srv://<ci ×
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka
.ms/PSWindows
PS C:\Users\hashi> mongosh "mongodb+srv://practicecluster.bweei76.mongodb.ne
t/" --apiVersion 1 --username hashim
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                       mongodb+srv://<credentials>@practicecluster.bweei76.
Connecting to:
mongodb.net/?appName=mongosh+2.0.0
Using MongoDB:
                        7.0.8 (API Version 1)
Using Mongosh:
                       2.0.0
mongosh 2.2.5 is available for download: https://www.mongodb.com/try/downloa
d/shell
For mongosh info see: https://docs.mongodb.com/mongodb-shell/
Atlas atlas-23fssf-shard-0 [primary] test> use CarDatabase;
switched to db CarDatabase
Atlas atlas-23fssf-shard-0 [primary] CarDatabase> |
```

Comment: This screenshot verifies the creation and selection of the CarDatabase database.



Comment: The screenshots demonstrates the insertion of multiple car documents into the cars collection.



Comment: The screenshots displays all documents currently stored in the cars collection.

```
Atlas atlas-23fssf-shard-0 [primary] CarDatabase> db.cars.updateOne(
... { owner: "Sue Bailey" },
... { $set: { address: "21 Maureen Street, Bluemater Bay, Port Elizabeth, South Africa" } }
... }

{ acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
 }

Atlas atlas-23fssf-shard-0 [primary] CarDatabase> |
```

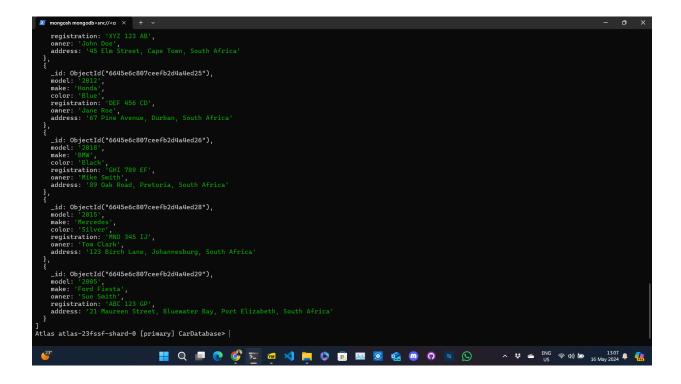
Comment: This screenshot shows the update of Sue Bailey's address in the database.

```
Atlas atlas-23fssf-shard-0 [primary] CarDatabase> db.cars.updateOne(
... { owner: "Sue Bailey" },
... { $ set: { owner: "Sue Smith" } }
... };
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    upsertedCount: 0
}
Atlas atlas-23fssf-shard-0 [primary] CarDatabase> |
```

Comment: This screenshot demonstrates the update of Sue Bailey's surname to Smith.

```
Actas atlas-23fssf-shard-0 [primary] CarDatabase> db.cars.find({ model: { 5lt: "2010" } }).pretty();

[
| id: ObjectId("6645e66807ceefb2d4a4ed24"),
| make: 'Toyota',
| color: 'Red', registration: 'NYZ 123 AB',
| omner: 'John Obe',
| address: '45 Elm Street, Cape Town, South Africa'
| id: ObjectId("6645e6807ceefb2d4a4ed25"),
| model: '2812',
| make: 'Handa',
| color: 'Blue', registration: 'OFF 485 CD',
| owner: 'John Obe',
| address: 'G' Pline Avenue, Durban, South Africa'
| id: ObjectId("6645e6807ceefb2d4a4ed26"),
| model: '2818',
| make: 'BBM',
| color: 'Black', registration: 'GHI 789 EF',
| owner: 'Rike Satth',
| address: '390 Oak Road, Pretoria, South Africa'
| id: ObjectId("6645e66807ceefb2d4a4ed28"),
| model: '2818',
| make: 'Bmcredes',
| color: '5810er',
| registration: 'NON 345 I3',
| owner: 'Road Cale',
| address: '123 Birch Lane, Johannesburg, South Africa'
| id: ObjectId("6645e6807ceefb2d4a4ed28"),
| make: 'Marcedes',
| color: '5810er',
| registration: 'NON 345 I3',
| owner: 'Road Cale',
| address: '123 Birch Lane, Johannesburg, South Africa'
| id: ObjectId("6645e6807ceefb2d4a4ed28"),
| owner: 'Road Cale',
| address: '123 Birch Lane, Johannesburg, South Africa'
| id: ObjectId("6645e6807ceefb2d4a4ed28"),
| owner: 'Road Cale',
| address: '123 Birch Lane, Johannesburg, South Africa'
| id: ObjectId("6645e6807ceefb2d4a4ed28"),
| owner: 'Road Cale',
| address: 'Road Cale'
```



Comment: The screenshots lists all cars older than 5 years from the cars collection.

Comment: This screenshot shows the insertion of another Ford Fiesta owned by Sue Smith.

Comment: This screenshot demonstrates the removal of the original Sue Smith's (formerly Sue Bailey) car.

Comment: This screenshot displays the insertion of a car document with a list of previous owners.