MongoDB Fundamentals - (Basic Commands)

Let's talk about MongoDB - **The database for modern applications**

MongoDB is a general purpose, document-based, distributed database built for modern application developers and for the cloud era. No database makes you more productive.

Installation

- These Link provide instructions to install MongoDB Community Edition for supported Linux systems.
- These Link provide instructions to install MongoDB Community Edition for macOS systems.
- These Link provide instructions to install MongoDB Community Edition for Windows systems.

Basic MongoDB commands

- To start the mongoDB shell

```
mongo
```

- Will create a database named amazon and switch to it

```
use amazon
```

- Will show you the current database you're in

```
db
```

- Will display all databases you have

```
show dbs
```

- Will create a collection called `products` with documents `name` and `macbook` value in the amazon database

```
db.products.insert({name: "macbook"})
```

- Will create a collection of users

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

- Will show a list of collections in your database

```
show collections
```

- Will delete the collection users from the database

```
db.users.drop()
```

- Will delete the entire database you are currently on

```
db.dropDatabase()
```

- Creates a collection products and inserts one document into it

```
db.products.insertOne({name: "macbook", price: 1500, category: "Comp uters"})
```

- Will help us find all the documents in the products collection

```
db.products.find()
```

- Will creates many documents into the product collection

```
db.products.insertMany([{name: "iPhone 11", price: 1900, category: " Electronic
s"}, {name: "Headphone", price: 120, category: "Electronics" }])
```

Reading (flittering) query's from mongoDB

- The `find()` helps us find every document in a collection e.g in products below

```
db.products.find()
```

- Returns the `collection` results in JSON format

```
db.products.find().pretty()
```

- Finds a specific item passed in, if it exists

```
db.products.find({name: "macbook"})
```

- Finds a specific key only

```
db.products.find({}, {name: 1})
```

- Finds a specific key only and hide the _id

```
db.products.find({}, {name: 1, _id: 0})
```

- Finds a specific key only, hide the _id and show only the first 2

```
db.products.find({}, {name: 1, _id:0}).limit(2)
```

- Finds every item that is `less than` 150

```
db.products.find({price : {$lt: 150} })
```

- Finds every item that is `less than` or `equal to` 150

```
db.products.find({price : {$lte: 150} })
```

- Finds every item that is `grater than` 800

```
db.products.find({price : {$gt: 800} })
```

- Finds every item that is `grater than` or `equal to` 800

```
db.products.find({price : {$gte: 800} })
```

- Finds every item that its price is `less than` 200 `and` belongs to the category of `Electronics`

```
db.products.find({$and: [{price: {$lt:200}}, {category: "Electronics"} ]})
```

- Finds every item that its price is `greater than` 500 `or` belongs to the category of `Electronics`

```
db.products.find({$or: [{price: {$gt:500}}, {category: "Electronics"} ]})
```

Tomorrow we will talk about updating queries

Tutorials by Vincent Iroleh