BIRUNTHA KRISHNAMOORTHY

MONGODB EXERCISE: CRUD

Week 12: CRUD OPERATON

Create Operation:

Creating a new database named "library" and switching to it.

```
Microsoft Windows [Version 10.0.22631.4602]
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C:\Users\Bindhu>mongosh Log ID: 675dad100e60e5cc04893bf7
Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.3.4
Using MongoBs: 8.0.4
Using Mongosh: 2.3.4
mongosh 2.3.6 is available for download: https://www.mongodb.com/try/download/shell

For mongosh info see: https://www.mongodb.com/docs/mongodb=shell/

-----
The server generated these startup warnings when booting
    2024-12-14T14:42:58.363+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----
test> use library
switched to db library
library>
```

Create a collection named "books" with the fields title, author, and published_year. Insert

into the "books" collection with the details of my favourite book.

```
test> use library
switched to db library
library> db.createCollection("books")
{ ok: 1 }
library>

test> use library
switched to db library
switched to db library
library> db.createCollection("books")
{ ok: 1 }
library> db.books.insertOne({title:"More than words",author:"Jill Santopolo",published_year:2020})
{
    acknowledged: true,
    insertedId: ObjectId('675dafef481b30b050893bf8')
}
library>
```

Read Operation

Retrieve all documents from the "books" collection

Find and display a certain document by using some condition

Fetch and display the document with the earliest published year.

Update Operation

Update the published year of the book with title "Golden Girl."

```
library> db.books.update({title:"Golden Girl"},{$set:{published_year:2024}})

DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 1,
   modifiedCount: 1,
   upsertedCount: 0
}
library>
```

Add a new field "genre" with the value "Fiction" to all documents

Delete Operation

Remove the document with the title "Golden Girl."

Delete all documents where the published year is after 2020

```
library> db.books.remove({published_year:{$gt:2020}})
{    acknowledged: true, deletedCount: 1 }
library> db.books.find()
[
{
    _id: ObjectId('675dafef481b30b050893bf8'),
    title: 'More than words',
    author: 'Jill Santopolo',
    published_year: 2020,
    genre: 'Fiction'
},
{
    _id: ObjectId('675db171481b30b050893bfb'),
    title: 'What you wish for',
    author: 'Watherine Center',
    published_year: 2020,
    genre: 'Fiction'
}
}library>
```

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