**Introduction**

MongoDB is a NoSQL database that stores data in flexible, JSON-like documents. For this assignment, I used **MongoDB Compass** (local installation) to create a database, insert data, export and import datasets, as well as perform update and delete operations. The dataset I chose is based on **African books**.

**Steps Taken**

**1. Creating a Database and Collection**

* Opened **MongoDB Compass** and connected to the local server.
* Created a new database named **plp\_bookstore**.
* Inside it, created a collection named **books**.

**2. Inserting Data**

* Inserted several book documents with fields such as:
  + title
  + author
  + genre
  + year
* Example document inserted:

{

"title": "Things Fall Apart",

"author": "Chinua Achebe",

"genre": "Fiction",

"year": 1958

}

**3. Viewing and Filtering Data**

* Used the **Filter box** in Compass to query documents.
* Example: To see only Fiction books:

{ "genre": "Fiction" }

**4. Updating Data**

* Updated one document using this command:

db.books.updateOne(

{ "title": "Things Fall Apart" },

{ $set: { "year": 1960 } }

)

**5. Deleting Data**

* Deleted one document in Compass by selecting it and clicking **DELETE**.
* Equivalent code example:

db.books.deleteOne({ "title": "Things Fall Apart" })

* Deleted many:

db.books.deleteMany({ "author": "Ngugi wa Thiong'o" })

**6. Exporting and Importing Data**

* Exported the dataset (books.json) from Compass for backup.
* Imported it back to confirm that the documents were restored successfully.







