**Activity 2: Creating Databases and Collections**

**Instructions**

**Part 1: Creating a Database and Collection Using mongosh**

1. Open **mongosh** from the Command Prompt or VS Code terminal.
2. Type the following command to switch to (or create) a new database:

use schoolDB

Output:

switched to db schoolDB

Note: MongoDB creates the database only when data is added.

1. Create a new collection named students:

db.createCollection("students")

1. Verify that the collection exists:

show collections

1. Add a simple document to ensure the database is saved:

db.students.insertOne({ name: "Maria Santos", age: 20, course: "BSIT" })

1. List all databases to confirm that schoolDB now appears:

show dbs

**Part 2: Creating Databases and Collections Using MongoDB Compass**

1. Open **MongoDB Compass**.
2. Connect to your local server:

mongodb://localhost:27017

1. Click **“Create Database”** (top-left corner).
2. Enter the following:
   * **Database Name:** companyDB
   * **Collection Name:** employees
3. Click **Create Database**.
4. Expand the database to verify that employees exists.
5. Add a new document by clicking **Add Data** and then **Insert Document** and enter:

{

"name": "Juan Dela Cruz",

"position": "Manager",

"department": "HR"

}

1. Click **Insert**.  
   You have now created a database and collection using the GUI.

**Part 3: Creating Databases and Collections Using Visual Studio Code**

1. Open **VS Code**.
2. Open the **MongoDB Explorer** (left sidebar, leaf icon).
3. Click **Connect**, and use the same connection string:

mongodb://localhost:27017

1. Click the **+** button to create a new database:
   * **Database Name:** libraryDB
   * **Collection Name:** books
2. After creating, right-click the books collection. Then click **Insert Document**.
3. Paste the following JSON:

{

"title": "Database Concepts",

"author": "Silberschatz",

"year": 2020

}

1. Save the document (Ctrl + S).
2. Verify that the new database appears in Compass or by typing in mongosh:

show dbs

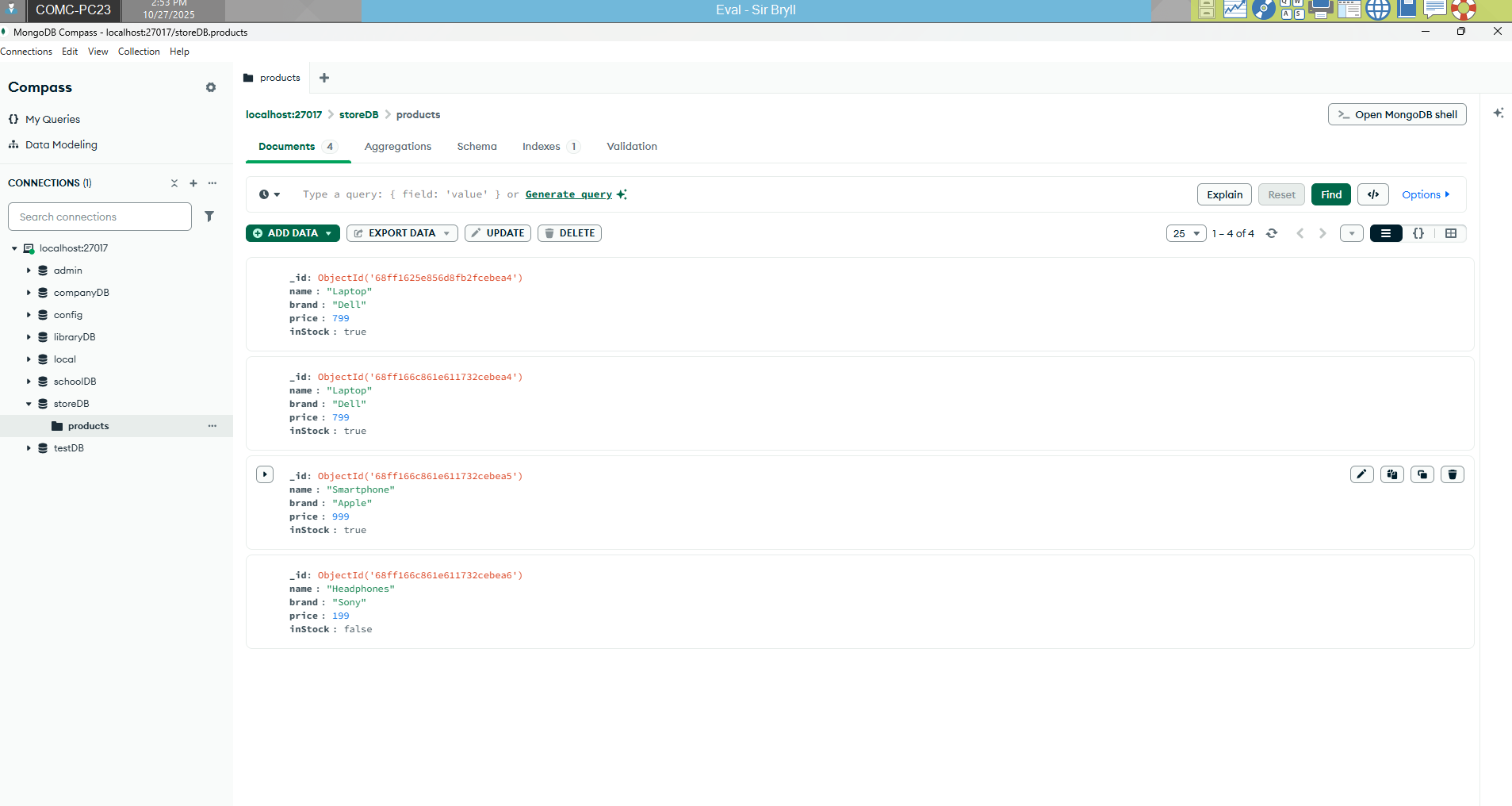
**Output**

After completing all parts, the following databases and collections should exist:

| **Database** | **Collection** | **Example Document Key** |
| --- | --- | --- |
| schoolDB | students | name, age, course |
| companyDB | employees | name, position |
| libraryDB | books | title, author |

**Challenges**

1. Create another database named storeDB with a collection products using VS Code. Add at least three documents.
2. In mongosh, run db.getCollectionNames() and verify all collections you created.
3. Use Compass to delete one collection, then check in mongosh to confirm it’s removed.



A screenshot of a computer program

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