Challenge 8 NoSQL

NOTE: This challenge will require you to take THREE snapshots and paste them into this document.

Part 1: Getting started with MongoDB Compass

Open MongoDB Compass and connect to your MongoDB instance.

Once connected, you should see a list of databases on the left-hand side of the screen. Create a new database called *FirstNameLastName*. Include a collection named *Students*.

Part 2: Creating a collection and insert data

In the selected database:

Add the following fields and data to the collection:

student_id (int32)
first_name (string)
last_name (string)
program (string)

Add following data documents into the "Students" collection:

student_id: 1001, **first_name:** John, **last_name:** Smith, **program:** Computer Science

student_id: 1002, **first_name**: *Your First Name*, **last_name:** *Your Last Name*, **program:** Business Administration

student_id: 1003, **first_name**: David, last_name: Lee, **program:** Mechanical Engineering

- **Note:** Replace the italicized text above with your First and your Last Name

Part 3: Querying data

1. Open **Mongosh**. Clear the screen and write a query that retrieves all the students in the "Students" collection.
   o Take a snapshot of your Mongosh: Ensure the snapshot displays the command used to gather the results and all three documents that you created in part 2.
     [Paste snapshot here]

2. Switch back to **MongoDB Compas**s. Write a query to retrieve only students in the "Computer Science" program.
   o Paste a snapshot of your MongoDB Compass. Ensure that the picture includes the following:
     ▪ The database and collection names
     ▪ The query that you used
     ▪ The results of the query
   o **Note:** You may need to research how to accomplish this using MongoDB Compass
   [Paste your snapshot here]

3. Write a query using **Mongosh** to retrieve ONLY the first_name **_and_** program of the student with student_id 1001. Take a snapshot of your Mongosh. Ensure the snapshot displays the command used to obtain the results and the record results.
   [Paste your snapshot here]

Congratulations! You have completed the challenge.