NoSQL-Mongo Lab1

Make sure from MongoDB Compass and Mongo Robo 3t Studio is valid installed

## with latest version

Use **MongoDBCompass** to create the following:

1. Create a Database named "ITI\_Mongo".
2. Create a Collection named "Students".
3. Use an online JSON formatter/syntax validator to validate your object first.
4. Insert a Single Document into the "Students" collection with at least fields for name, age, and track.
5. Insert Bulk Documents into the "Students" collection.
   1. Object: {\_id, firstName, lastName, age: 25, email, gender}
   2. Object: {\_id, name, age: 35, type, gender}
6. Try to find documents with age > 15 in the "Students" collection.
7. Try to update a single document in the "Students" collection.
8. Try to delete a document from the "Students" collection.

Use **Robo 3t** to create the following:

1. Create a Collection named "Staff".
2. Insert one document into the "Staff" collection: {\_id, name, age, gender, department}.
3. Insert many documents into the "Staff" collection:

* Object: {\_id, name, age: 20, gender: "male", department}
* Object: {\_id, name, age: 25, gender: "female", managerName, department}
* Object: {\_id, name, age: 15, gender, DOB}

1. Query to find data from the "Staff" collection:
   * 1) Find all documents.

* 2) Find documents where gender is "male".
* 3) Find documents with age between 20 and 25.
* 4) Find documents where age is 25 and gender is "female".
* 5) Find documents where age is 20 or gender is "female".

1. Update one document in the "Staff" collection where age is 15, set the name to "new student".
2. Update many documents in the "Staff" collection, setting the department to "AI".
3. Create a new collection called "test" and insert documents from Question 3.
4. Try to delete one document from the "test" collection where age is 15.
5. try to delete all male gender
6. Try to delete all documents in the "test" collection.