

NoSQL-Mongo Lab1

Make sure from Mongo Robo 3t Studio is valid installed

with latest version

Insert Data First From Folder Mongo Data and Syntax / File All Data

Notes

- If a **Key** has no value → add any value.
- If test data is missing → insert it before testing.
- **Verify and test** your data, and provide a **justification** for your answer.
- **Validate your JSON** using an online or Offline tool. (Any tool) like
 - <https://jsonformatter.curiousconcept.com/#>
 - <https://jsonviewer.stack.hu/>

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

1. Create a Database named "ITI_Mongo".
2. Create a Collection named "Staff".
3. Insert one document into the "Staff" collection: {_id, name, age, gender, department}.
4. 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}
5. 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".
6. Update one document in the "Staff" collection where age is 15, set the name to "your name".
7. Update many documents in the "Staff" collection, update the **department** to "AI".
8. Create a new collection called "test" and insert documents from Question 4.
9. Try to delete one document from the "test" collection where age is 15.
 - a. With **justification**, explain which document will be deleted if more than one has age = 15. (Try it.)

- b. First insert: `db.collection.insertOne({ _id: 5, name: "ahmed", age: 15 })`
 - c. Second insert: `db.collection.insertOne({ _id: 6, name: "eman", age: 15 })`
 - d. b. When you run `deleteOne`, will it delete **ahmed** or **eman**?
10. try to delete all male gender
11. Try to delete all documents in the "test" collection.