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NAAC GRADE A+ ACCREDITED UNIVERSITY

Experiment No. 10

Student Name: Rishav Kumar **UID: 22MCC20039**
Branch: MCA - CCD **Section/Group: 22MCD1 / Grp A**
Semester: II **Date of Performance: 9th May 2023**
Subject Name: AIP Lab **Subject Code: 22CAP-686**

1. Aim/Overview of the Practical

Implement CRUD operation with database on NodeJS with MongoDB

2. Task to be done/Algorithm

To create a database and table in MongoDB and then connect it with Node JS program. Perform the CRUD operation in Node JS program by connecting it with database & running the program on command prompt.

3. Code/Step for the Practical

---------- ws10.js ----------

```
const { MongoClient } = require('mongodb');
// or as an es module:
// import { MongoClient } from 'mongodb'

// Connection URL
const url = 'mongodb://127.0.0.1:27017';
const client = new MongoClient(url);

// Database Name
const dbName = 'amar_db';

async function getData()
{
  // Use connect method to connect to the server
  let result=await  client.connect();
  console.log('Connected successfully to server');
  //const db = client.db(dbName);
  let db=result.db(dbName);
  let collection = db.collection('new_table_name');
  let response=await collection.find({}).toArray();
```

```
  console.log(response);
}

async function insertData()
{
const myDB = client.db(dbName);
const myColl = myDB.collection('new_table_name');

const doc = { name: "Amar", section: "MCD1", UID: 20005 };
const result = await myColl.insertOne(doc);
console.log(
  `A document was INSERTED with the _id: ${result.insertedId}`,
);
}

async function deleteData()
{
const myDB = client.db(dbName);
const myColl = myDB.collection('new_table_name');

const doc = { event: "Projet Expo" };
const deleteResult = await myColl.deleteOne(doc);
console.log(
  `A document was DELETED with the _id: ${deleteResult.insertedId}`,
);
}

async function updateData()
{
const myDB = client.db(dbName);
const myColl = myDB.collection("new_table_name");

const query = { company: "Apple" };
const update = { $set: { company: "Nokia", product: "N65A", price: 63500}};
const options = {};
const updateResult = await myColl.updateOne(query, update, options);
console.log(
  `A document was UPDATED with the _id: ${updateResult.insertedId}`,
);
}
```

```
insertData();
updateData();
deleteData();
getData();
```

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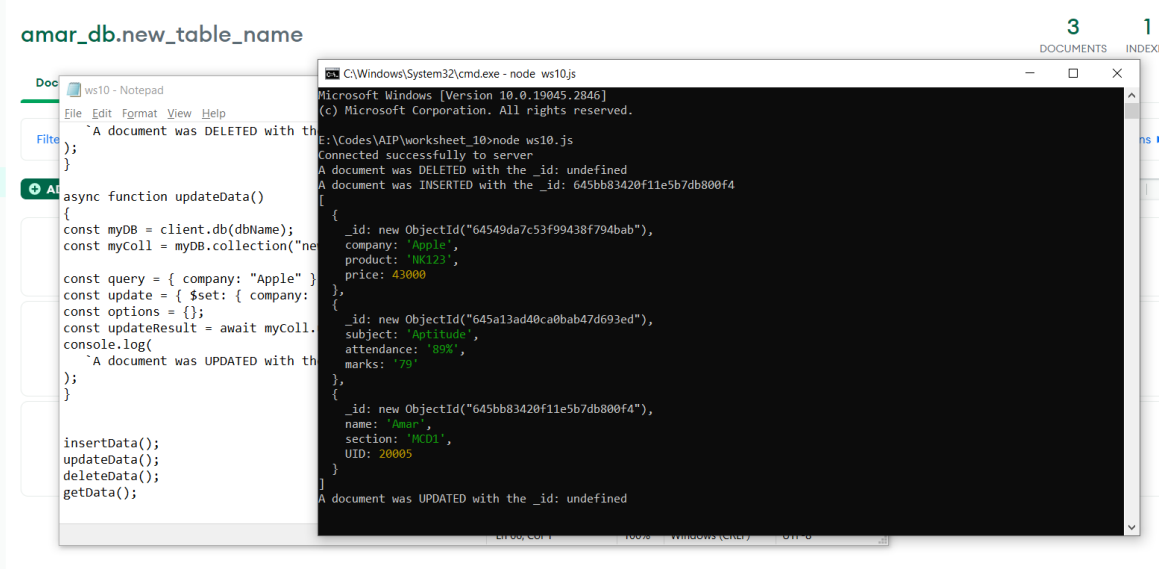
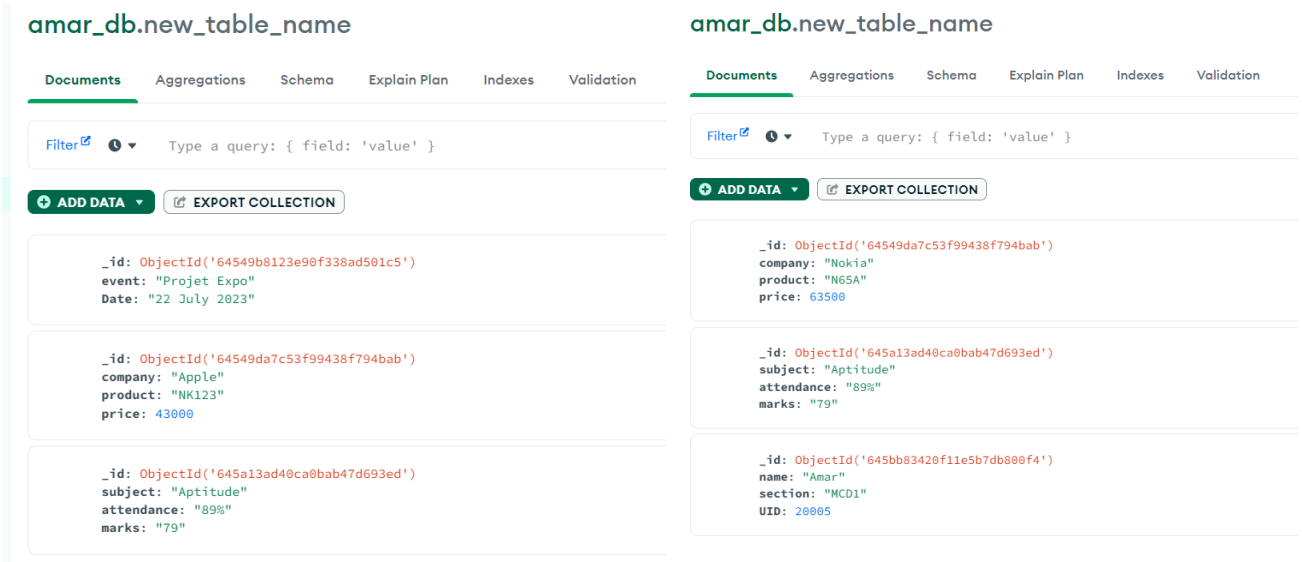
4. Result/Output/Writing Summary





5. Learning Outcomes (What I have learned)

⇨ I Learned to: -

- Create a node js file and write scripts.
- To connect database with NodeJS.
- To perform CRUD operation on NodeJS with MongoDB.