

ASSIGNMENT 2

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Technology Track : Modern Application Development (Java Spring Boot)

1. Create, update, delete commands in mysql.

```
CREATE TABLE students (  
    id INTEGER PRIMARY KEY,  
    name VARCHAR(30) NOT NULL,  
    gender CHAR(1) NOT NULL  
);
```

-- insert some values

```
INSERT INTO students VALUES (1, 'Ryan', 'M');  
INSERT INTO students VALUES (2, 'Joanna', 'F');  
INSERT INTO students VALUES (3, 'Rita', 'F');
```

-- fetch some values

```
SELECT * FROM students;
```

-- update

```
update students set name='Meetal' WHERE id=1;  
SELECT * FROM students;
```

-- delete

```
DELETE FROM students where id=2;
```

```
SELECT * FROM students;
```

2. Create tables and perform joins.

```
-- Create table for school_fees
```

```
CREATE TABLE school_fees (  
    student_id INT PRIMARY KEY,  
    student_name VARCHAR(50),  
    fee_amount DECIMAL(10, 2),  
    payment_status VARCHAR(20)  
);
```

```
-- Create table for students
```

```
CREATE TABLE students (  
    student_id INT PRIMARY KEY,  
    student_name VARCHAR(50),  
    class VARCHAR(10),  
    section VARCHAR(10),  
    address VARCHAR(100)  
);
```

```
-- Insert sample data into school_fees table
```

```
INSERT INTO school_fees (student_id, student_name, fee_amount, payment_status)  
VALUES (1, 'John Doe', 1000.00, 'Paid'),  
      (2, 'Jane Smith', 1500.00, 'Pending'),
```

```
(3,'joe', 1001.00,'pending');
```

```
-- Insert sample data into students table
```

```
INSERT INTO students (student_id, student_name, class, section, address)
```

```
VALUES (1, 'John Doe', '10th Grade', 'A', '123 Main St'),
```

```
(2, 'Jane Smith', '11th Grade', 'B', '456 Elm St'),
```

```
(4,'kim','12th Grade','B','176 ememt st');
```

```
-- Perform INNER JOIN between school_fees and students table
```

```
SELECT school_fees.student_id, school_fees.student_name, school_fees.fee_amount,  
students.class, students.section, students.address
```

```
FROM school_fees
```

```
INNER JOIN students ON school_fees.student_id = students.student_id;
```

```
-- Perform LEFT JOIN between school_fees and students table
```

```
SELECT school_fees.student_id, school_fees.student_name, school_fees.fee_amount,  
students.class, students.section, students.address
```

```
FROM school_fees
```

```
LEFT JOIN students ON school_fees.student_id = students.student_id;
```

```
-- Perform RIGHT JOIN between school_fees and students table
```

```
SELECT school_fees.student_id, school_fees.student_name, school_fees.fee_amount,  
students.class, students.section, students.address
```

```
FROM school_fees
```

```
RIGHT JOIN students ON school_fees.student_id = students.student_id;
```

```
-- Perform FULL JOIN between school_fees and students table
```

```
SELECT school_fees.student_id, school_fees.student_name, school_fees.fee_amount,  
students.class, students.section, students.address
```

```
FROM school_fees
```

```
FULL JOIN students ON school_fees.student_id = students.student_id;
```

3. Create, update and delete commands in mongodb.

```
// Connect to MongoDB

const MongoClient = require('mongodb').MongoClient;

const uri = 'mongodb://localhost:27017';

const client = new MongoClient(uri, { useNewUrlParser: true, useUnifiedTopology: true });


// Create a document in the school_fees collection

const createDocument = async () => {

  try {

    await client.connect();

    const database = client.db('your_database_name');

    const collection = database.collection('school_fees');


    const newDocument = {

      student_id: 1,

      student_name: 'John Doe',

      fee_amount: 500.00,

      payment_status: 'Paid'

    };


    await collection.insertOne(newDocument);

    console.log('Document created successfully.');
```

```
  } finally {

    await client.close();

  }

};


// Update a document in the school_fees collection
```

```
const updateDocument = async () => {  
  try {  
    await client.connect();  
    const database = client.db('your_database_name');  
    const collection = database.collection('school_fees');  
  
    const filter = { student_id: 1 };  
    const update = { $set: { fee_amount: 750.00 } };  
  
    await collection.updateOne(filter, update);  
    console.log('Document updated successfully.');  } finally {  
    await client.close();  
  }  
};
```

// Delete a document from the school_fees collection

```
const deleteDocument = async () => {  
  try {  
    await client.connect();  
    const database = client.db('your_database_name');  
    const collection = database.collection('school_fees');  
  
    const filter = { student_id: 1 };  
  
    await collection.deleteOne(filter);  
    console.log('Document deleted successfully.');  } finally {  
    await client.close();  
  }  
};
```

```
}  
};
```

```
// Call the functions to perform operations
```

```
createDocument()
```

```
.then(() => updateDocument())
```

```
.then(() => deleteDocument())
```

```
.catch(console.error);
```