Modern Application Development (Java Spring Boot) Assignment-2

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1) create, update and delete commands in mysql

Create:

Schema:

create schema myschema;

use myschema;

Table:

```
CREATE TABLE users (
id INT PRIMARY KEY AUTO_INCREMENT,
name VARCHAR(50),
email VARCHAR(50),
age INT
);
```

Insert:

INSERT INTO users (name, email, age)

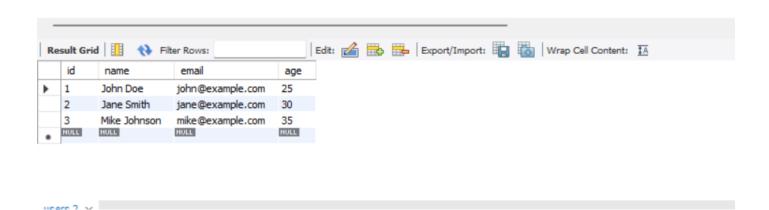
VALUES

```
('John Doe', 'john@example.com', 25),
```

('Jane Smith', 'jane@example.com', 30),

('Mike Johnson', 'mike@example.com', 35);



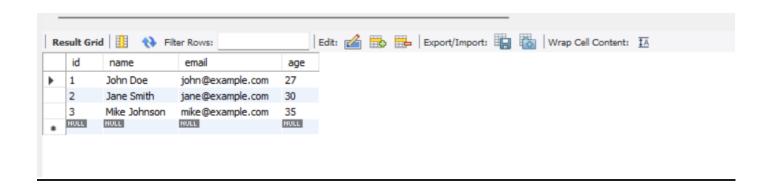


Update:

UPDATE users

SET age = 27

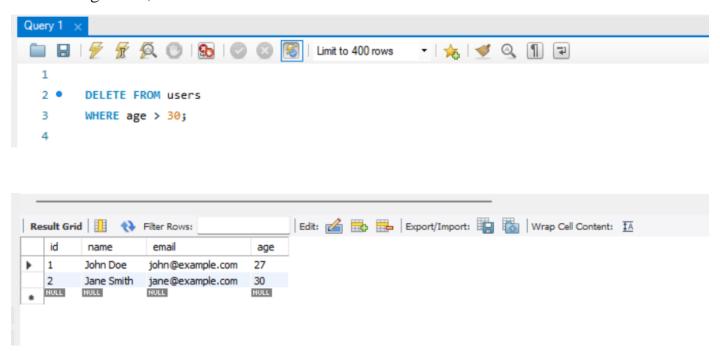
WHERE name = 'John Doe';



Delete:

DELETE FROM users

WHERE age > 30;



2) Create tables and perform join operation:

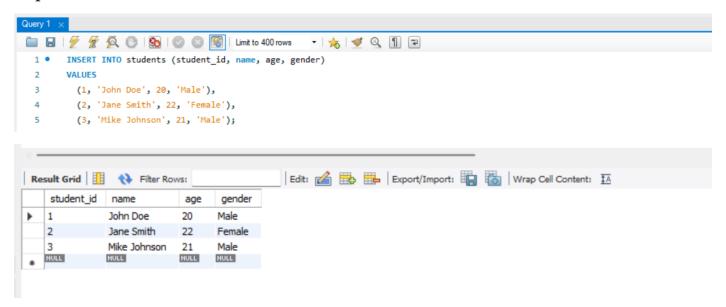
Step 1: Create the students table

```
Query 1 ×

CREATE TABLE students (
student_id INT PRIMARY KEY,
name VARCHAR(50),
age INT,
gender VARCHAR(10)

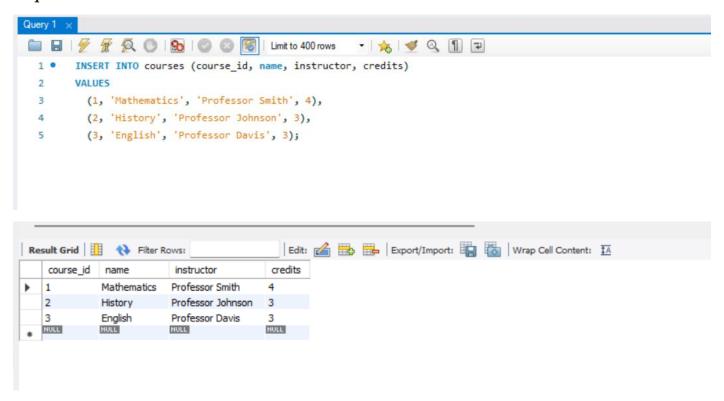
);
```

Step 2: Insert data into the students table

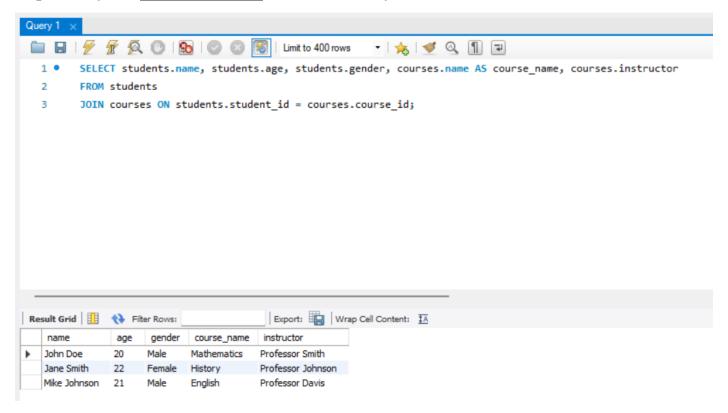


Step 3: Create the courses table

Step 4: Insert data into the courses table



Step 5: Perform a join operation to retrieve data from both tables



3) Create, insert, update, delete in mongodb

Create:

db.createCollection("users");

```
>_MONGOSH

> db.createCollection("users");

< { ok: 1 }
test>
```

Insert:

```
db.users.insertMany([
    { name: "Jane Smith", age: 30, email: "jane@example.com" },
    { name: "Mike Johnson", age: 35, email: "mike@example.com" }
]);
```

Update:

```
> db.users.find()

< {
    _id: ObjectId("647329ec72c3f9e37d4c966b"),
    name: 'Jane Smith',
    age: 27,
    email: 'updated@example.com'
}

{
    _id: ObjectId("647329ec72c3f9e37d4c966c"),
    name: 'Mike Johnson',
    age: 35,
    email: 'mike@example.com'
}

test>
```

Delete:

db.users.deleteOne({ name: "Jane Smith" });

```
> db.users.deleteOne({ name: "Jane Smith" });

< {
    acknowledged: true,
    deletedCount: 1
  }

test>
```

```
> db.users.find()

< {
    _id: ObjectId("647329ec72c3f9e37d4c966c"),
    name: 'Mike Johnson',
    age: 35,
    email: 'mike@example.com'
  }

test>
```

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