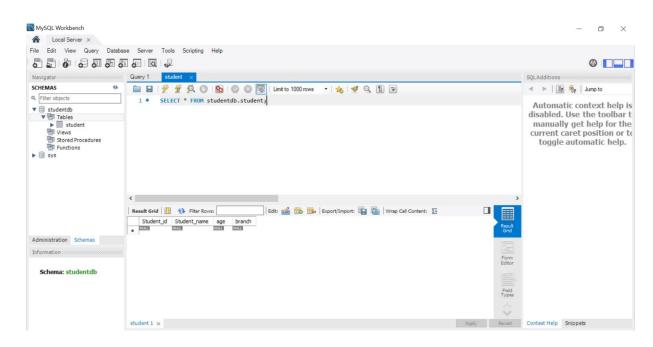
MODERN APPLICATION DEVELOPMENT (JAVA SPRING BOOT) ASSIGNMENT-2

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1) Create, update and delete commands in mysql

• CREATE table statement:

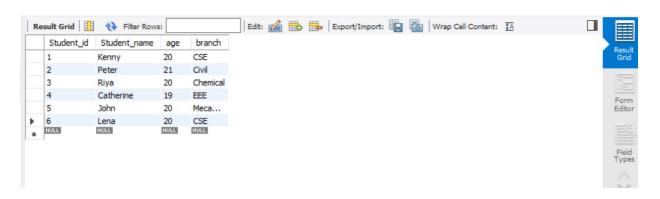
SELECT * FROM studentdb.student;



• <u>Insert statements:</u>

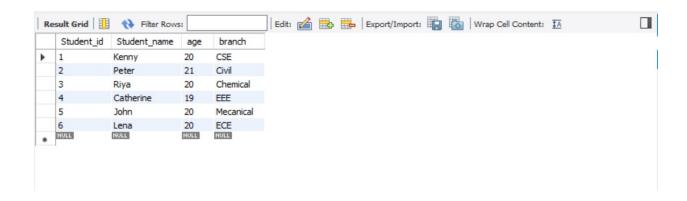
```
INSERT INTO 'studentdb'.'student' ('Student_id', 'Student_name', 'age', 'branch')
VALUES ('1', 'Kenny', '20', 'CSE');
INSERT INTO 'studentdb'.'student' ('Student_id', 'Student_name', 'age', 'branch')
VALUES ('2', 'Peter', '21', 'Civil');
INSERT INTO 'studentdb'.'student' ('Student_id', 'Student_name', 'age', 'branch')
VALUES ('3', 'Riya', '20', 'Chemical');
INSERT INTO 'studentdb'.'student' ('Student_id', 'Student_name', 'age', 'branch')
VALUES ('4', 'Catherine', '19', 'EEE');
INSERT INTO 'studentdb'.'student' ('Student_id', 'Student_name', 'age', 'branch')
VALUES ('5', 'John', '20', 'Mechanical');
INSERT INTO 'studentdb'.'student' ('Student_id', 'Student_name', 'age', 'branch')
VALUES ('6', 'Lena', '20', 'CSE');
```

SELECT * FROM studentdb.student;



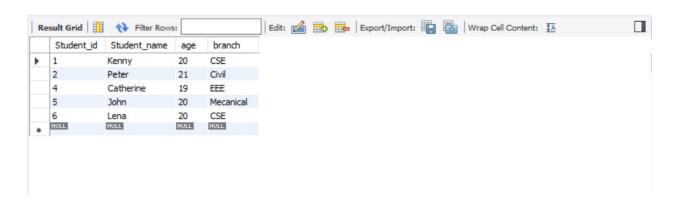
• <u>Update statements:</u>

UPDATE `studentdb`.`student` SET branch='ECE' WHERE Student_id='6'; SELECT* FROM `studentdb`.`student`;



• <u>Delete statement:</u>

DELETE FROM `studentdb`.`student` WHERE (`Student_id` = '3'); SELECT* FROM `studentdb`.`student`;

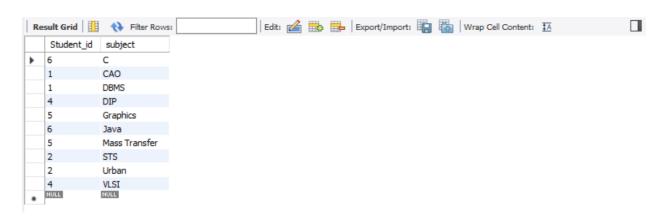


2) Create tables and perform joins in mysql

• <u>Table created:</u>

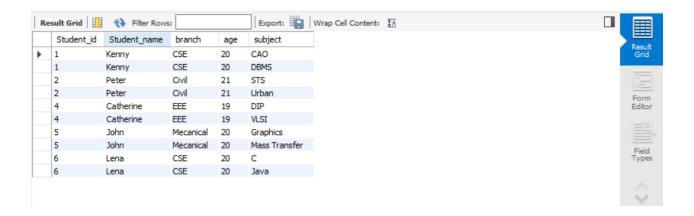
```
INSERT INTO 'studentdb'.'subjects' ('Student_id', 'subject') VALUES ('1', 'DBMS'); INSERT INTO 'studentdb'.'subjects' ('Student_id', 'subject') VALUES ('1', 'CAO'); INSERT INTO 'studentdb'.'subjects' ('Student_id', 'subject') VALUES ('2', 'Urban'); INSERT INTO 'studentdb'.'subjects' ('Student_id', 'subject') VALUES ('2', 'STS'); INSERT INTO 'studentdb'.'subjects' ('Student_id', 'subject') VALUES ('4', 'VLSI'); INSERT INTO 'studentdb'.'subjects' ('Student_id', 'subject') VALUES ('4', 'DIP'); INSERT INTO 'studentdb'.'subjects' ('Student_id', 'subject') VALUES ('5', 'Mass Transfer'); INSERT INTO 'studentdb'.'subjects' ('Student_id', 'subject') VALUES ('5', 'Graphics'); INSERT INTO 'studentdb'.'subjects' ('Student_id', 'subject') VALUES ('6', 'C'); INSERT INTO 'studentdb'.'subjects' ('Student_id', 'subject') VALUES ('6', 'C');
```

SELECT * FROM studentdb.subjects;



• <u>Join statement:</u>

```
SELECT sd.Student_id,
sd.Student_name,
sd.branch,
sd.age,
s.subject
FROM studentdb.student AS sd
LEFT JOIN studentdb.subjects AS s ON sd.Student_id=s.Student_id;
```

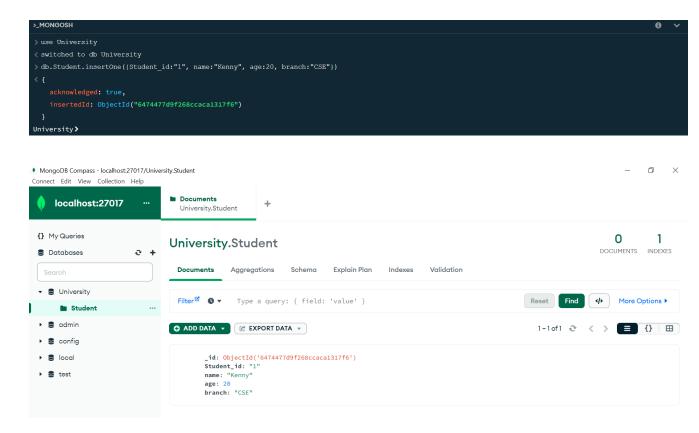


3) Create, update and delete commands in MongoDB

• Insert commands

<u>Inserting single record:</u>

db.Student.insertOne({Student_id:"1", name:"Kenny", age:20, branch:"CSE"})



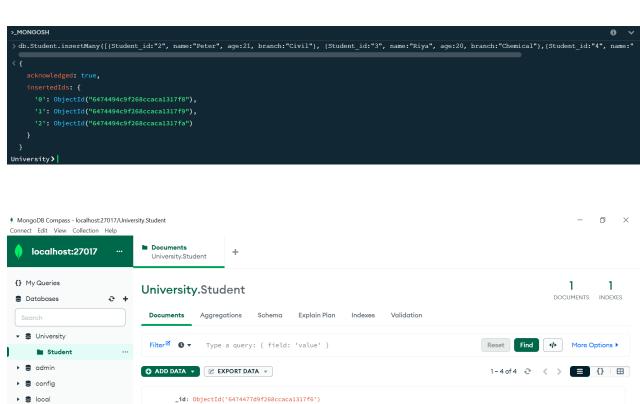
Inserting multiple records:

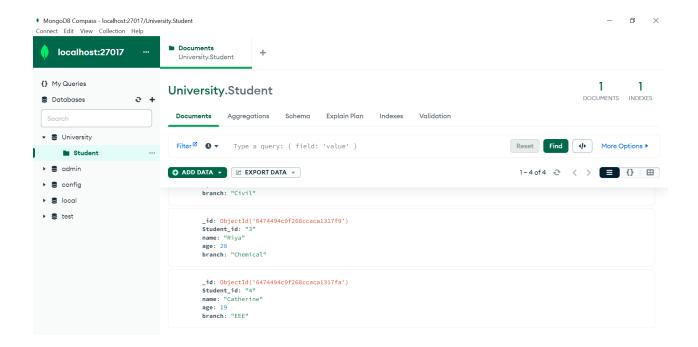
db.Student.insertMany([{Student_id:"2", name:"Peter", age:21, branch:"Civil"}, {Student_id:"3", name:"Riya", age:20, branch:"Chemical"},{Student_id:"4", name:"Catherine", age:19, branch:"EEE"}])

Student_id: "1"
name: "Kenny"
age: 20
branch: "CSE"

Student_id: "2"
name: "Peter"
age: 21
branch: "Civil"

_id: ObjectId('6474494c9f268ccaca1317f8')



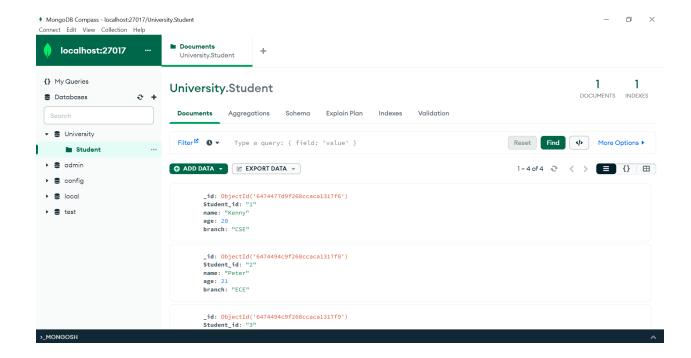


• Update commands

db.Student.updateOne({Student_id: "2"}, {\$set: {branch: "ECE"}})

```
> db.Student.updateOne({Student_id: "2"}, {$set: {branch: "ECE"}})

< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
    }
University>|
```

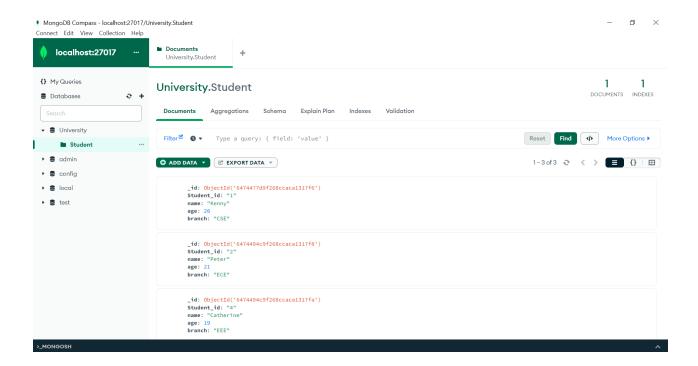


• Delete commands

Delete with condition:

 $db. Student.remove(\{name: "Riya"\})\\$

```
> db.Student.remove({name: "Riya"})
< DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
< {
    acknowledged: true,
    deletedCount: 1
  }
University>
```



Delete all records:

db.Student.remove({})

```
> db.Student.remove({})

< {
    acknowledged: true,
    deletedCount: 3
}
University>
```

