VIT-AP UNIVERSITY, ANDHRA PRADESH
SMARTBRIDGE EXTERNSHIP
Modern Application Development (Java spring boot)

Student name: A V D h a n u s h

Branch/ Class: B.Tech/M.Tech
Date: 28-05-23
School: SCOPE
Reg. no.: 20MIS7058

A s s i g n m e n t 2

---

1. Create, Update , Delete commands in MySQL.

Create

```
--create
CREATE TABLE student (
  Id INTEGER PRIMARY KEY,
  Name TEXT NOT NULL,
  Dept TEXT NOT NULL
);

  --Insert
INSERT INTO student VALUES (1, 'dhanush', 'mtse');
INSERT INTO student VALUES (2, 'vds', 'btech');
INSERT INTO student VALUES (3, 'gowtham', 'btech');

  --Fetch
SELECT * FROM student;
```

Output:

Id	name	dept
1	dhanush	mtse
2	vds	btech
3	gowtham	btech

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(OR)

```
-- create
CREATE TABLE student (
  Id INTEGER PRIMARY KEY,
  name TEXT NOT NULL,
  dept TEXT NOT NULL
);

-- insert
INSERT INTO student VALUES (1, 'dhanush', 'mtse');
INSERT INTO student VALUES (2, 'vds', 'btech');
INSERT INTO student VALUES (3, 'gowtham', 'btech');

-- fetch
SELECT * FROM student;
```

Update

```
--Create
CREATE TABLE student (
 Id INTEGER PRIMARY KEY,
 Name TEXT NOT NULL,
 Dept TEXT NOT NULL
);

--Insert
INSERT INTO student VALUES (1, 'dhanush', 'mtse');
INSERT INTO student VALUES (2, 'vds', 'btech');
INSERT INTO student VALUES (3, 'gowtham', 'btech');

--Fetch
SELECT * FROM student;
--Update
Update student set dept="mtse" where Id=2;
```

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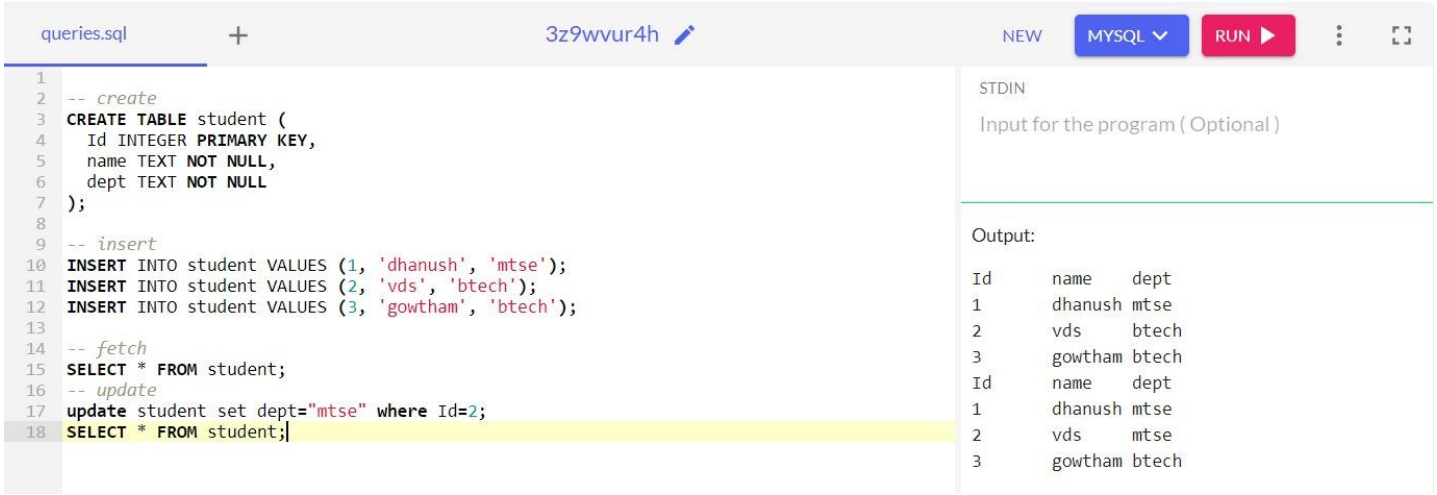
A s s i g n m e n t 2

SELECT * FROM student;

Output:

```
Id      name    dept
1       dhanush mtse
2       vds     btech
3       gowtham btech
Id      name    dept
1       dhanush mtse
2       vds     mtse
3       gowtham btech
```

(OR)




```sql
-- create
CREATE TABLE student (
  Id INTEGER PRIMARY KEY,
  name TEXT NOT NULL,
  dept TEXT NOT NULL
);

-- insert
INSERT INTO student VALUES (1, 'dhanush', 'mtse');
INSERT INTO student VALUES (2, 'vds', 'btech');
INSERT INTO student VALUES (3, 'gowtham', 'btech');

-- fetch
SELECT * FROM student;
-- update
update student set dept="mtse" where Id=2;
SELECT * FROM student;
```

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DELETE

```
    --Create
CREATE TABLE student (
  Id INTEGER PRIMARY KEY,
  Name TEXT NOT NULL,
  Dept TEXT NOT NULL
);

    --Insert
INSERT INTO student VALUES (1, 'dhanush', 'mtse');
INSERT INTO student VALUES (2, 'vds', 'btech');
INSERT INTO student VALUES (3, 'gowtham', 'btech');

  --Fetch
SELECT * FROM student;
    --Delete
Delete from student where Id=2;
SELECT * FROM student;
```

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A s s i g n m e n t 2

Output:

```
Id      name    dept
1       dhanush mtse
2       vds     btech
3       gowtham btech
Id      name    dept
1       dhanush mtse
3       gowtham btech
```

(OR)

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A s s i g n m e n t 2

---

2. Create tables and perform joins in MySQL.

```
-- create
CREATE TABLE student (
  Id INTEGER PRIMARY KEY,
  name TEXT NOT NULL,
  dept TEXT NOT NULL
);

-- insert
INSERT INTO student VALUES (1, 'dhanush', 'mtse');
INSERT INTO student VALUES (2, 'vds', 'btech');
INSERT INTO student VALUES (3, 'gowtham', 'btech');

-- fetch
SELECT * FROM student;
-- create
CREATE TABLE course (
  Id INTEGER PRIMARY KEY,
  cname TEXT NOT NULL
);

-- insert
INSERT INTO course VALUES (1, 'java');
INSERT INTO course VALUES (2, 'mysql');

-- fetch
select * from course;

-- inner join
select student.name,course.cname from student inner join course on student.Id=course.Id;

-- left join
select student.name,course.cname from student left join course on student.Id=course.Id;
```

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A s s i g n m e n t 2 **Reg. no.:** 20MIS7058

```
-- right join
select student.name,course.cname from student right join course on student.Id=course.Id;

-- cross join
select name from student crosss join course;
```

Output:

```
Id      name    dept
1       dhanush mtse
2       vds     btech
3       gowtham btech
Id      cname
1       java
2       mysql
name    cname
dhanush java
vds     mysql
name    cname
dhanush java
vds     mysql
gowtham NULL
name    cname
```

(OR)

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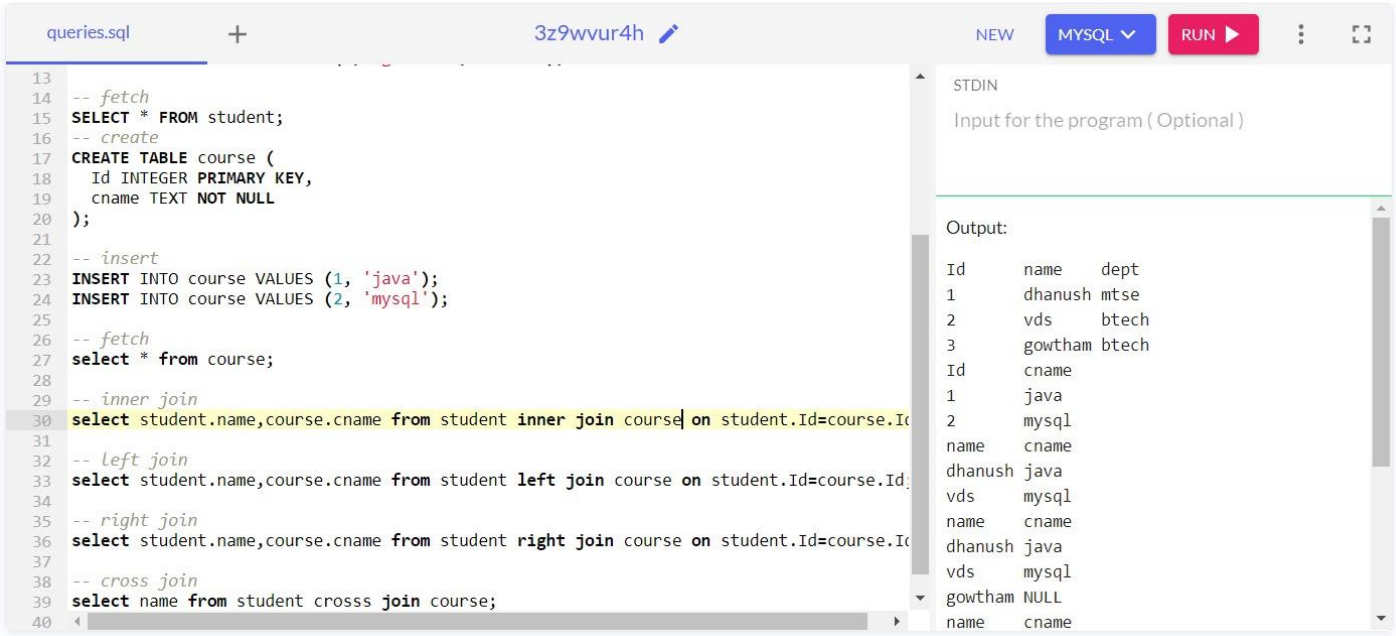

3. Create, Update, Delete commands in MongoDB.

Create

```
Db.student.insertMany([
  {Id: 1, name: ‘dhanush’, dept: ‘btech’ },
  {Id: 2, name: ‘vds’, dept: ‘mtse’ },
  {Id: 3, name: ‘gowtham’, dept: ‘mtse’ }
]);

Db.student.find();
```

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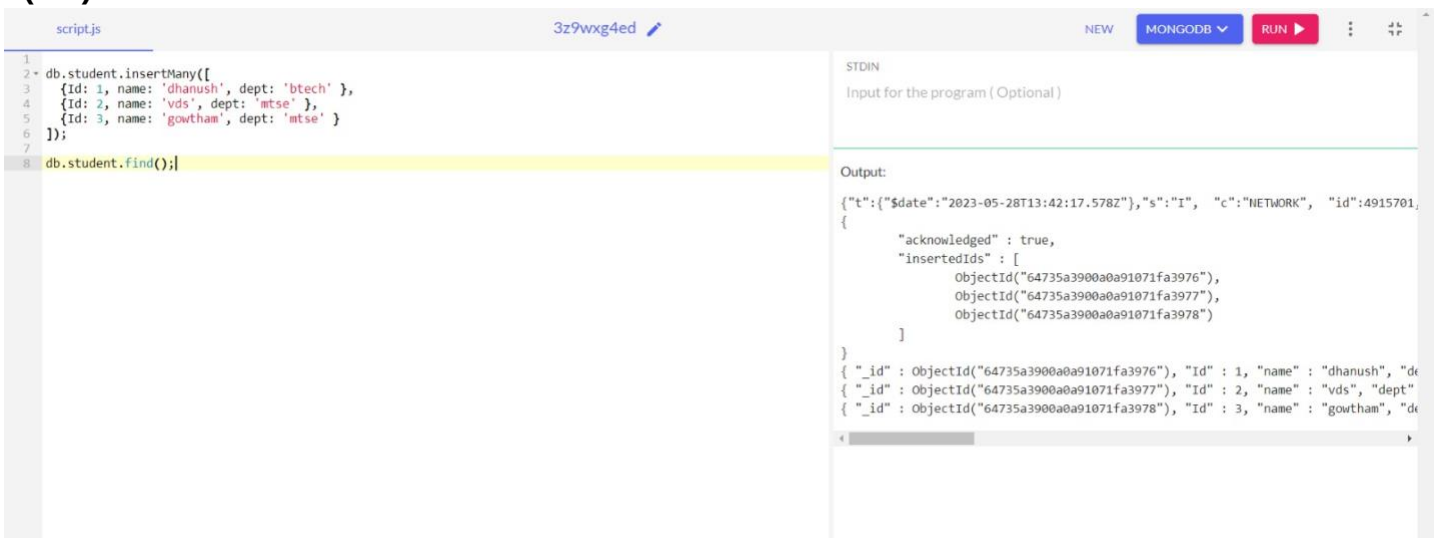
Output:

```
{"t":{"$date":"2023-05-28T13:42:17.578Z"},"s":"I",  "c":"NETWORK",  "id":4915701,
{
        "acknowledged" : true,
        "insertedIds" : [
                ObjectId("64735a3900a0a91071fa3976"),
                ObjectId("64735a3900a0a91071fa3977"),
                ObjectId("64735a3900a0a91071fa3978")
        ]
}
{ "_id" : ObjectId("64735a3900a0a91071fa3976"), "Id" : 1, "name" : "dhanush", "de
{ "_id" : ObjectId("64735a3900a0a91071fa3977"), "Id" : 2, "name" : "vds", "dept"
{ "_id" : ObjectId("64735a3900a0a91071fa3978"), "Id" : 3, "name" : "gowtham", "de
```

(OR)



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Update

```
Db.student.insertMany([
  {Id: 1, name: 'dhanush', dept: 'btech' },
  {Id: 2, name: 'vds', dept: 'mtse' },
  {Id: 3, name: 'gowtham', dept: 'mtse' }
]);

Db.student.find();

Db.student.updateOne( { Id: 1 }, { $set: { dept: "mtse" } } )
```

Output:

```
{
        "acknowledged" : true,
        "insertedIds" : [
                ObjectId("64735b6ea4270232a711bde2"),
                ObjectId("64735b6ea4270232a711bde3"),
                ObjectId("64735b6ea4270232a711bde4")
        ]
}
{ "_id" : ObjectId("64735b6ea4270232a711bde2"), "Id" : 1, "name" : "dhanush", "de
{ "_id" : ObjectId("64735b6ea4270232a711bde3"), "Id" : 2, "name" : "vds", "dept"
{ "_id" : ObjectId("64735b6ea4270232a711bde4"), "Id" : 3, "name" : "gowtham", "de
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
```

(OR)

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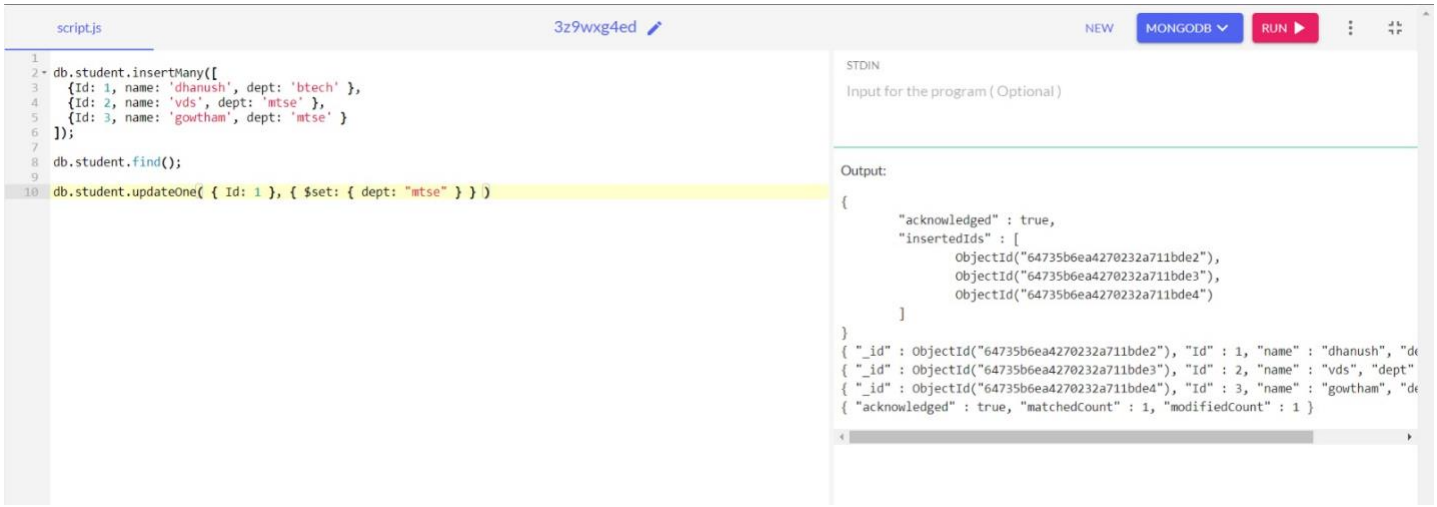

Delete

```
Db.student.insertMany([
  {Id: 1, name: ‘dhanush’, dept: ‘btech’ },
  {Id: 2, name: ‘vds’, dept: ‘mtse’ },
  {Id: 3, name: ‘gowtham’, dept: ‘mtse’ }
]);

Db.student.find();

Db.student.remove({‘Id’:2})
Db.student.find();
```

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Output:

```
{
        "acknowledged" : true,
        "insertedIds" : [
                ObjectId("64735c40dd22dacaf6216c5d"),
                ObjectId("64735c40dd22dacaf6216c5e"),
                ObjectId("64735c40dd22dacaf6216c5f")
        ]
}
{ "_id" : ObjectId("64735c40dd22dacaf6216c5d"), "Id" : 1, "name" : "dhanush", "de
{ "_id" : ObjectId("64735c40dd22dacaf6216c5e"), "Id" : 2, "name" : "vds", "dept"
{ "_id" : ObjectId("64735c40dd22dacaf6216c5f"), "Id" : 3, "name" : "gowtham", "de
WriteResult({ "nRemoved" : 1 })
{ "_id" : ObjectId("64735c40dd22dacaf6216c5d"), "Id" : 1, "name" : "dhanush", "de
{ "_id" : ObjectId("64735c40dd22dacaf6216c5f"), "Id" : 3, "name" : "gowtham", "de
```

(OR)