

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)



```
1 -- create
2 CREATE TABLE student (
3   Id INTEGER PRIMARY KEY,
4   name TEXT NOT NULL,
5   dept TEXT NOT NULL
6 );
7
8 -- insert
9 INSERT INTO student VALUES (1, 'dhanush', 'mtse');
10 INSERT INTO student VALUES (2, 'vds', 'btech');
11 INSERT INTO student VALUES (3, 'gowtham', 'btech');
12
13 -- fetch
14 SELECT * FROM student;
```

Output:

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

## 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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---

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)

queries.sql

+

3z9wvur4h

NEW

MYSQL

RUN

:

```
1
2 -- create
3 CREATE TABLE student (
4   Id INTEGER PRIMARY KEY,
5   name TEXT NOT NULL,
6   dept TEXT NOT NULL
7 );
8
9 -- insert
10 INSERT INTO student VALUES (1, 'dhanush', 'mtse');
11 INSERT INTO student VALUES (2, 'vds', 'btech');
12 INSERT INTO student VALUES (3, 'gowtham', 'btech');
13
14 -- fetch
15 SELECT * FROM student;
16 -- update
17 update student set dept="mtse" where Id=2;
18 SELECT * FROM student;
```

STDIN

Input for the program ( Optional )

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

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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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Output:

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

Id	name	dept
1	dhanush	mtse
3	gowtham	btech

(OR)

queries.sql

+

3z9wvur4h

NEW

MYSQL

RUN

:

```
1
2 -- create
3 CREATE TABLE student (
4   Id INTEGER PRIMARY KEY,
5   name TEXT NOT NULL,
6   dept TEXT NOT NULL
7 );
8
9 -- insert
10 INSERT INTO student VALUES (1, 'dhanush', 'mtse');
11 INSERT INTO student VALUES (2, 'vds', 'btech');
12 INSERT INTO student VALUES (3, 'gowtham', 'btech');
13
14 -- fetch
15 SELECT * FROM student;
16 -- delete
17 delete from student where Id=2;
18 SELECT * FROM student;
```

STDIN

Input for the program ( Optional )

Output:

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

Id	name	dept
1	dhanush	mtse
3	gowtham	btech

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## **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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---

-- 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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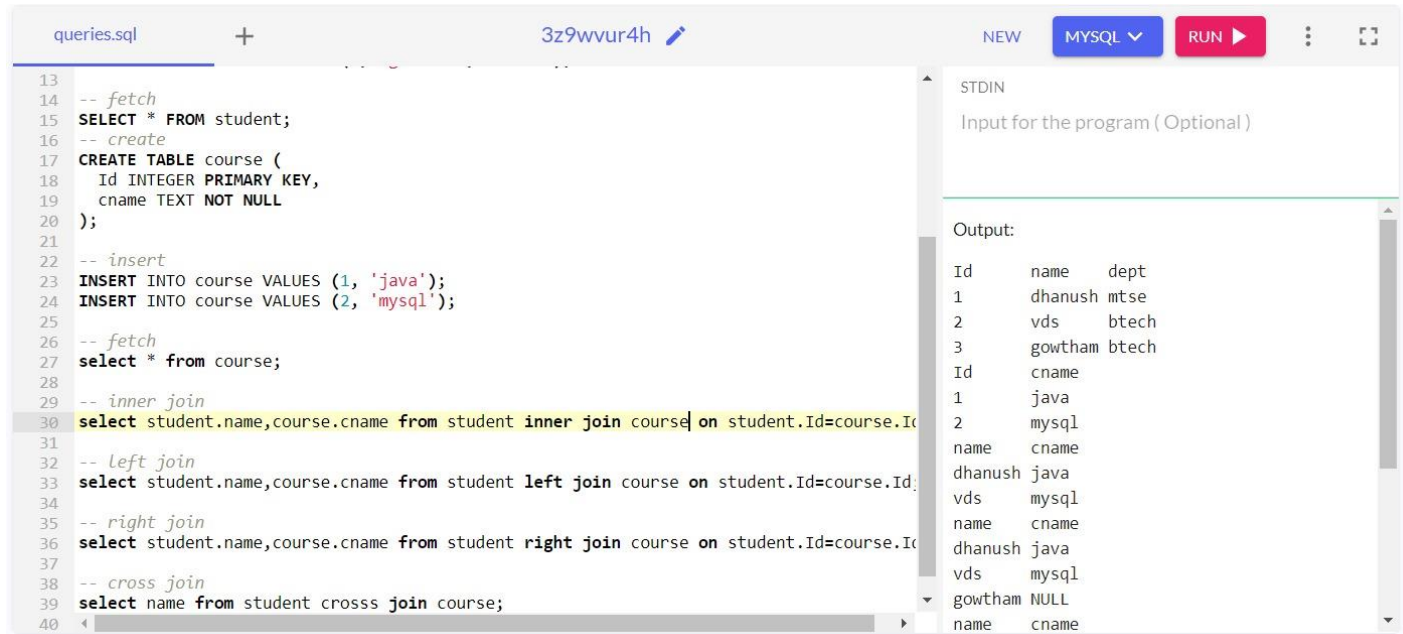
Date: 28-05-23

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

## Assignment 2



The screenshot shows a MySQL query editor with a file named 'queries.sql'. The editor contains several SQL queries for creating a table, inserting data, and performing various types of joins. The output of the queries is displayed on the right side of the editor.

```
13
14 -- fetch
15 SELECT * FROM student;
16 -- create
17 CREATE TABLE course (
18   Id INTEGER PRIMARY KEY,
19   cname TEXT NOT NULL
20 );
21
22 -- insert
23 INSERT INTO course VALUES (1, 'java');
24 INSERT INTO course VALUES (2, 'mysql');
25
26 -- fetch
27 select * from course;
28
29 -- inner join
30 select student.name,course.cname from student inner join course on student.Id=course.Id;
31
32 -- left join
33 select student.name,course.cname from student left join course on student.Id=course.Id;
34
35 -- right join
36 select student.name,course.cname from student right join course on student.Id=course.Id;
37
38 -- cross join
39 select name from student crosss join course;
40
```

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
dhanush	java
vds	mysql
gowtham	NULL
name	cname

### 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)



```
script.js 3z9wxg4ed NEW MONGODB RUN
```

```
1
2 db.student.insertMany([
3   {Id: 1, name: 'dhanush', dept: 'btech' },
4   {Id: 2, name: 'vds', dept: 'mtse' },
5   {Id: 3, name: 'gowtham', dept: 'mtse' }
6 ]);
7
8 db.student.find();
```

STDIN

Input for the program ( Optional )

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
```

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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", "dept" : "btech" }
{ "_id" : ObjectId("64735b6ea4270232a711bde3"), "Id" : 2, "name" : "vds", "dept" : "mtse" }
{ "_id" : ObjectId("64735b6ea4270232a711bde4"), "Id" : 3, "name" : "gowtham", "dept" : "mtse" }
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
```

**(OR)**

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```
script.js 3z9wxg4ed NEW MONGODB RUN
```

```
1 db.student.insertMany([
2   {Id: 1, name: 'dhanush', dept: 'btech' },
3   {Id: 2, name: 'vds', dept: 'mtse' },
4   {Id: 3, name: 'gowtham', dept: 'mtse' }
5 ]);
6
7
8 db.student.find();
9
10 db.student.updateOne( { Id: 1 }, { $set: { dept: "mtse" } } )
```

STDIN

Input for the program ( Optional )

Output:

```
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("64735b6ea4270232a711bde2"),
    ObjectId("64735b6ea4270232a711bde3"),
    ObjectId("64735b6ea4270232a711bde4")
  ]
}
```

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

### 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", "dept" : "btech" }
{ "_id" : ObjectId("64735c40dd22dacaf6216c5e"), "Id" : 2, "name" : "vds", "dept" : "mtse" }
{ "_id" : ObjectId("64735c40dd22dacaf6216c5f"), "Id" : 3, "name" : "gowtham", "dept" : "mtse" }
WriteResult({ "nRemoved" : 1 })
{ "_id" : ObjectId("64735c40dd22dacaf6216c5d"), "Id" : 1, "name" : "dhanush", "dept" : "btech" }
{ "_id" : ObjectId("64735c40dd22dacaf6216c5f"), "Id" : 3, "name" : "gowtham", "dept" : "mtse" }
```

(OR)

```
script.js 3z9wxg4ed NEW MONGODB RUN
```

```
1 db.student.insertMany([
2   {Id: 1, name: 'dhanush', dept: 'btech' },
3   {Id: 2, name: 'vds', dept: 'mtse' },
4   {Id: 3, name: 'gowtham', dept: 'mtse' }
5 ]);
6
7
8 db.student.find();
9
10 db.student.remove({'Id':2})
11 db.student.find();
```

STDIN

Input for the program ( Optional )

Output:

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