

NAME: KAGANA KARTHIKEYA

REG NO: 20BCE0490

COURSE: MODERN APPLICATION DEVELOPMENT

EMAIL: kaganakarthykeya.2020@vitstudent.ac.in

ASSIGNMENT-2

QUESTION-1

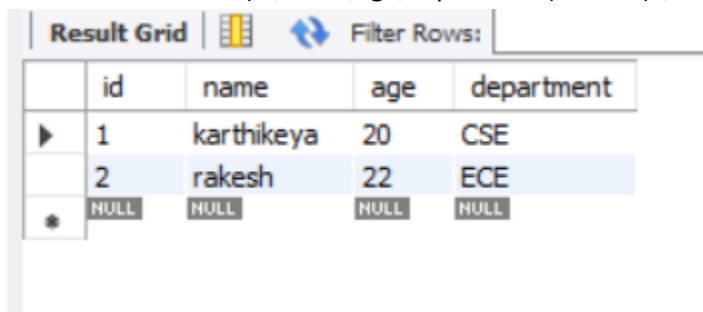
Create update delete commands in mysql

Table:

```
CREATE TABLE students (  
  id INT PRIMARY KEY,  
  name VARCHAR(50),  
  age INT,  
  department VARCHAR(50)  
);
```

Create:

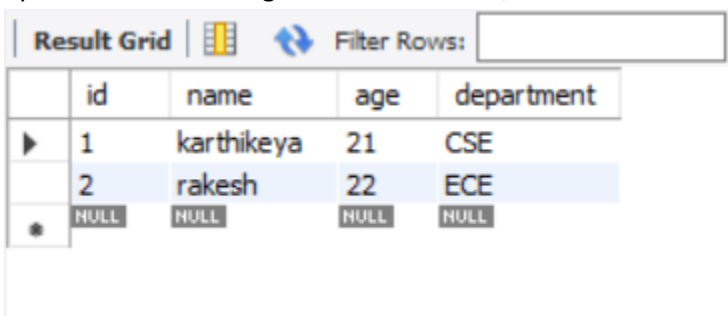
insert into students (id,name,age,department) values(1,"karthikeya",20,"CSE");



	id	name	age	department
▶	1	karthikeya	20	CSE
	2	rakesh	22	ECE
*	NULL	NULL	NULL	NULL

Update:

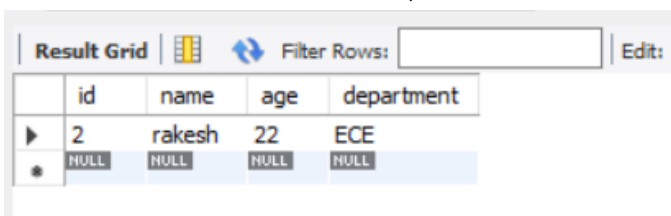
update students set age = 21 where id = 1;



	id	name	age	department
▶	1	karthikeya	21	CSE
	2	rakesh	22	ECE
*	NULL	NULL	NULL	NULL

Delete:

delete from students where id = 1;



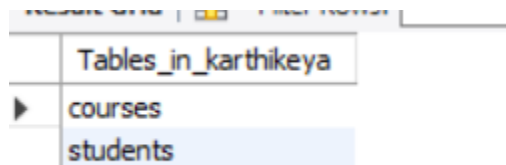
	id	name	age	department
▶	2	rakesh	22	ECE
*	NULL	NULL	NULL	NULL

QUESTION-2

Create tables and perform joins in mysql

Creating tables:

```
CREATE TABLE students (  
  id INT PRIMARY KEY,  
  name VARCHAR(50),  
  age INT,  
  department VARCHAR(50)  
);  
  
CREATE TABLE courses (  
  course_id INT PRIMARY KEY,  
  course_name VARCHAR(50),  
  student_id INT,  
  FOREIGN KEY (student_id) REFERENCES students(id)  
);
```

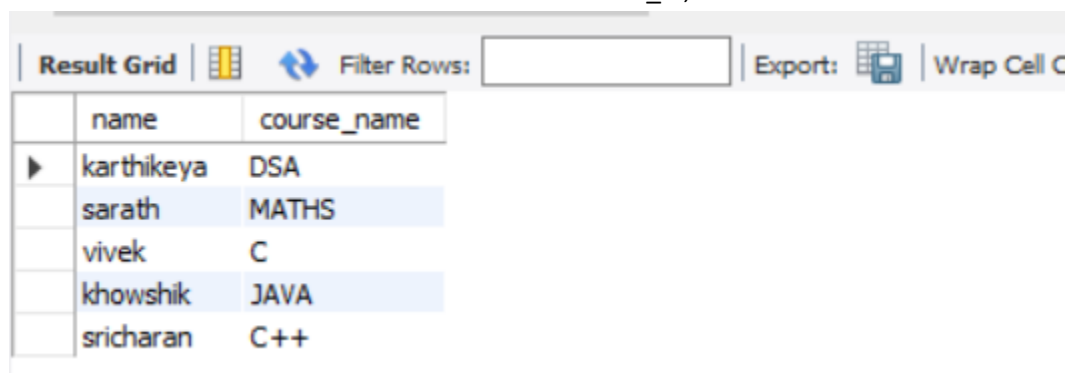


Tables_in_karthikeya
courses
students

Joins:

Inner join:

```
SELECT students.name, courses.course_name  
FROM students  
INNER JOIN courses ON students.id = courses.student_id;
```



	name	course_name
▶	karthikeya	DSA
	sarath	MATHS
	vivek	C
	khowshik	JAVA
	sricharan	C++

Left join:

```
SELECT students.name, courses.course_name  
FROM students  
LEFT JOIN courses ON students.id = courses.student_id;
```

Result Grid			Filter Rows:
	name	course_name	
▶	karthikeya	DSA	
	sarath	MATHS	
	vivek	C	
	khowshik	JAVA	
	sricharan	C++	
	rahul	NULL	
	hruhtik	NULL	

Right join:

```
SELECT students.name, courses.course_name
FROM students
RIGHT JOIN courses ON students.id = courses.student_id;
```

Result Grid			Filter Rows:
	name	course_name	
▶	karthikeya	DSA	
	sarath	MATHS	
	vivek	C	
	khowshik	JAVA	
	sricharan	C++	

Cross join:

```
SELECT students.name, courses.course_name
FROM students
CROSS JOIN courses ON students.id = courses.student_id;
```

Result Grid			Filter Rows:
	name	course_name	
▶	karthikeya	DSA	
	sarath	MATHS	
	vivek	C	
	khowshik	JAVA	
	sricharan	C++	

QUESTION-3

Create update and delete commands in mongo

Create:

Insertone

```
db.test.insertOne({name:
"Karthikeya",age:20,phone_number:"9347224585",address:"vellore",gender:"male"})
```

```
> db.test.insertOne({name: "Karthikeya",age:20,phone_number:"9347224585",address:"vellore",gender:"male"})
< {
  acknowledged: true,
  insertedId: ObjectId("647259bdef25c2d612baae82")
}
```

Insertmany

```
db.test.insertMany([{name:"koushik",age:20,phone_number:"99999999",address:"vellore",gender:"male"},{name : "sarath",age:20,phone_number:"66565655",address:"vellore",gender:"male"}])
```

```
> db.test.insertMany([{name:"koushik",age:20,phone_number:"99999999",address:"vellore",gender:"male"},{name : "sarath",age:20,phone_number:"66565655",address:"vellore",gender:"male"}])
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64725bb5ef25c2d612baae84"),
    '1': ObjectId("64725bb5ef25c2d612baae85")
  }
}
```

Update:

Update one

```
db.test.updateOne({name : "karthikeya"},{$set :{ age : 21,phone_number:"9347224598"}});
```

```
> db.test.updateOne({name : "karthikeya"},{$set :{ age : 21,phone_number:"9347224598"}});
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
```

Update many

```
db.test.updateMany({gender:"male"},{$set:{age:22}});
```

```
> db.test.updateMany({gender:"male"},{$set:{age:22}});  
< {  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 3,  
  modifiedCount: 3,  
  upsertedCount: 0  
}
```

```
{  
  _id: ObjectId("647259bdef25c2d612baae82"),  
  name: 'Karthikeya',  
  age: 22,  
  phone_number: '9347224585',  
  address: 'vellore',  
  gender: 'male'  
}  
{  
  _id: ObjectId("64725a75ef25c2d612baae83")  
}  
{  
  _id: ObjectId("64725bb5ef25c2d612baae84"),  
  name: 'koushik',  
  age: 22,  
  phone_number: '99999999',  
  address: 'vellore',  
  gender: 'male'  
}  
{  
  _id: ObjectId("64725bb5ef25c2d612baae85"),  
  name: 'sarath',  
  age: 22,  
  phone_number: '66565655',  
  address: 'vellore',  
  gender: 'male'  
}
```

Delete:

Deleteone

```
db.test.deleteOne({name : "sarath"});
```

```
> db.test.deleteOne({name : "sarath"});  
< {  
  acknowledged: true,  
  deletedCount: 1  
}
```

Deletemany

```
db.test.deleteMany({gender: "male"});
```

```
> db.test.deleteMany({gender: "male"});  
< {  
  acknowledged: true,  
  deletedCount: 2  
}
```

```
> db.test.find().pretty();
< {
  _id: ObjectId("64725983ef25c2d612baae80")
}
{
  _id: ObjectId("6472598bef25c2d612baae81")
}
{
  _id: ObjectId("64725a75ef25c2d612baae83")
}
{
  _id: ObjectId("64725e1cef25c2d612baae86"),
  name: 'priyanka',
  age: 21,
  phone_number: '456874',
  address: 'vellore',
  gender: 'female'
}
```