SMARTBRIDGE EXTERNSHIP Modern Application Development (Java Spring Boot)

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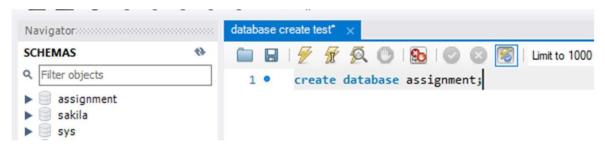
EMAIL: kulasekaran.2020@vitstudent.ac.in

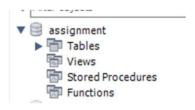
WEEK 2 ASSIGNMENT – SQL AND MONGO

SQL:

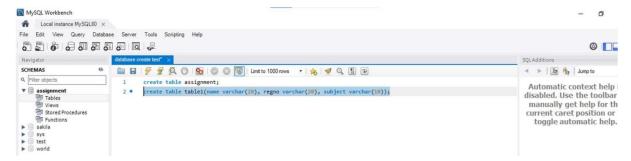
CREATE DATABASE:

create database assignment;

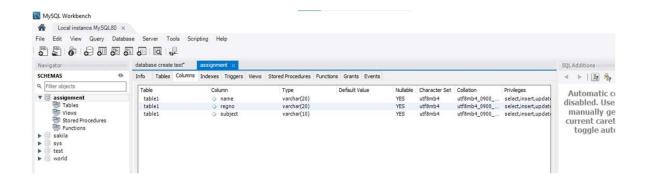




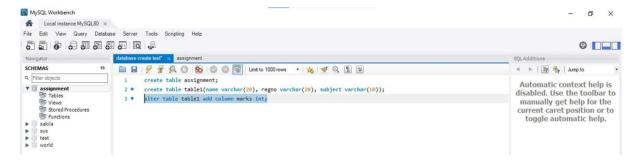
CREATE TABLE:



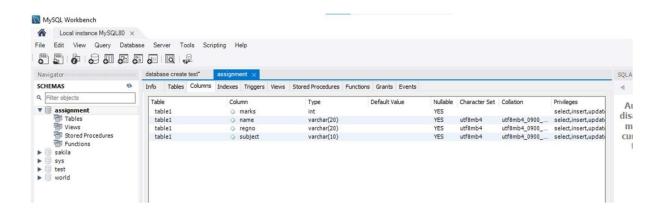
create table table1(name varchar(20), regno varchar(20), subject varchar(10));



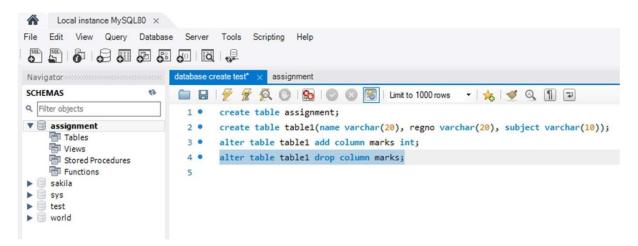
ADD COLUMN



alter table table1 add column marks int;



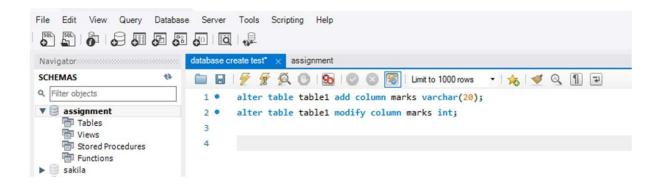
DROP COLUMN



alter table table1 drop column marks;



MODIFY



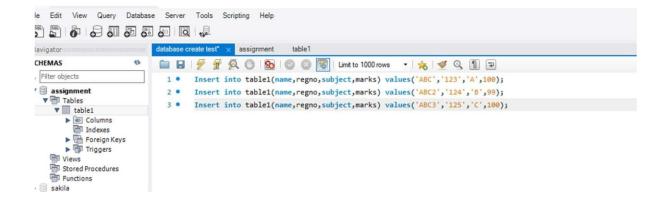
alter table table1 add column marks varchar(20);



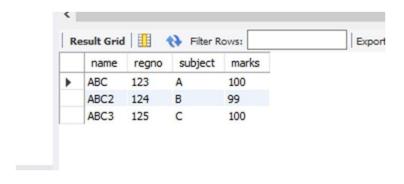
alter table table1 modify column marks int;



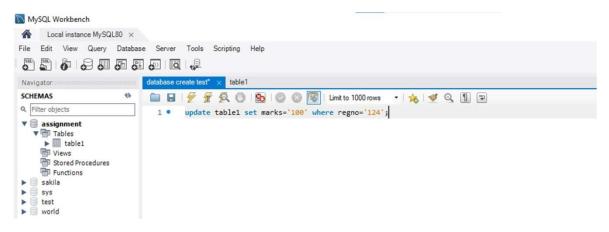
INSERT



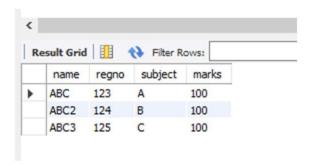
Insert into table1(name,regno,subject,marks) values('ABC','123','A',100); Insert into table1(name,regno,subject,marks) values('ABC2','124','B',99); Insert into table1(name,regno,subject,marks) values('ABC3','125','C',100);



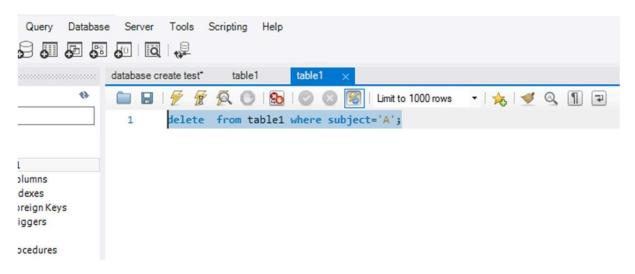
UPDATE



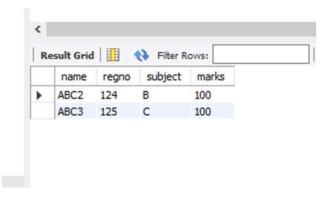
update table1 set marks='100' where regno='124';



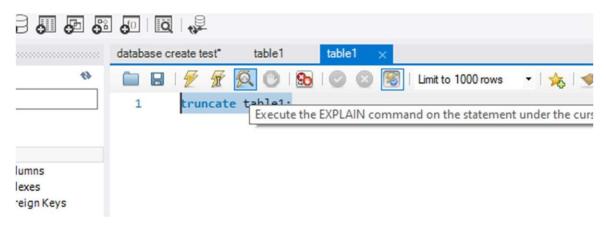
DELETE:



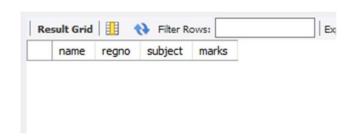
delete from table1 where subject='A';



TRUNCATE



truncate table1;



JOINS:

```
0 6 6 6 6 6 6
                     SQL File 5° × student.professor
                     🚞 🗟 | 🌮 💯 👰 🔘 | 🗞 | 🔘 🚳 💮 🚳 | Limit to 1000 rows 🔻 | 🌟 🝼 🔍 🗻
                             create table student1(sno int, marks int, sname varchar(20), class int, PRIMARY KEY(sno));
                             create table professor(fno int, pname varchar(20), class int, sno int, PRIMARY KEY(fno), FOREIGN KEY(sno) REFERENCES s
ent
ables
                             insert into student1(sno,marks,sname,class) values(1,100,'A',1);
professor
student1
                             insert into student1(sno,marks,sname,class) values(2,100,'8',2);
                             insert into student1(sno,marks,sname,class) values(3,100,'C',3);
ews
ored Procedures
                             insert into professor(fno,pname,class,sno) values(1,'Z',1,1);
                             insert into professor(fno,pname,class,sno) values(2,'Y',2,2);
ınctions
                             insert into professor(fno,pname,class,sno) values(3,'X',3,3);
                      11
                      12
```

create database student;

create table student1(sno int, marks int, sname varchar(20), class int, PRIMARY KEY(sno));

create table professor(fno int, pname varchar(20), class int, sno int, PRIMARY KEY(fno), FOREIGN KEY(sno) REFERENCES student1(sno));

insert into student1(sno,marks,sname,class) values(1,100,'A',1);

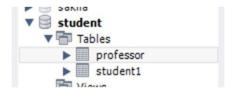
insert into student1(sno,marks,sname,class) values(2,100,'B',2);

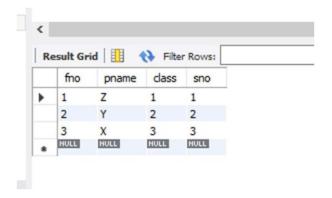
insert into student1(sno,marks,sname,class) values(3,100,'C',3);

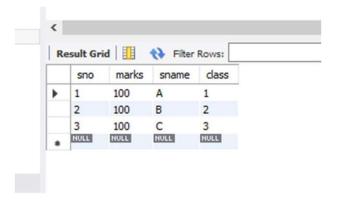
insert into professor(fno,pname,class,sno) values(1,'Z',1,1);

insert into professor(fno,pname,class,sno) values(2,'Y',2,2);

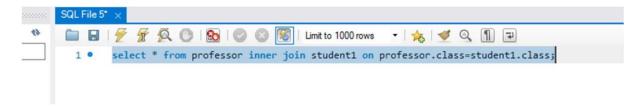
insert into professor(fno,pname,class,sno) values(3,'X',3,3);



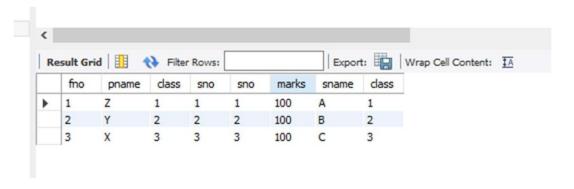




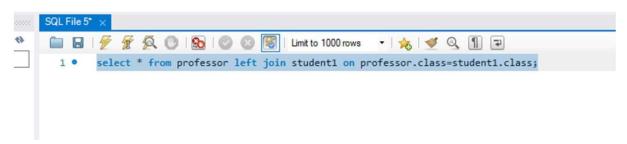
INNER JOIN



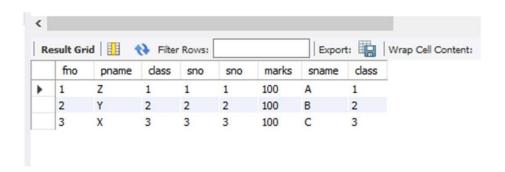
select * from professor inner join student1 on professor.class=student1.class;



LEFT OUTER JOIN:



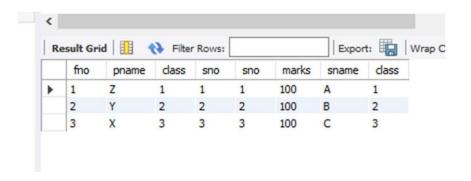
select * from professor left join student1 on professor.class=student1.class;



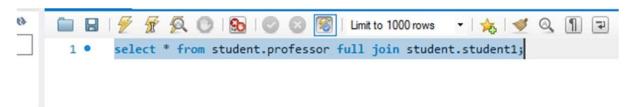
RIGHT OUTER JOIN:



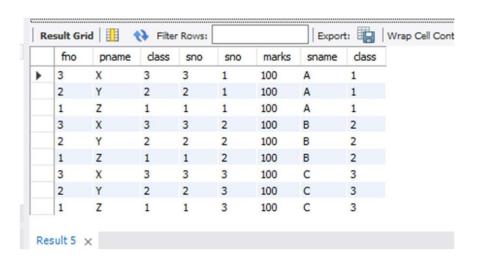
select * from professor right join student1 on professor.class=student1.class;



FULL JOIN:



select * from student.professor full join student.student1;



MONGO DB:

INSERT:

```
use database1
db.createCollection("details")
db.details.insertOne({
 name: "abc",
 id: "1",
 gender: "f",
 age:20,
 date: Date()
})
db.details.insertOne({
 name: "abc",
 id: "1",
gender: "f",
 age:20,
 date: Date()
})
```

db.details.find()

db.details.find()

UPDATE:

GETTING ERROR

```
>db.details.updateOne({name:"abc"},{$set:{id:"7"}})
2023-05-28T16:44:10.944+0000 E QUERY [thread1] SyntaxError: invalid property id @(shell):1:35
```

DELETE:

```
db.details.deleteOne({ id: "3" })
db.details.find()
```

```
>db.details.deleteOne({id:"3"})
{ "acknowledged" : true, "deleteCount" : 1 }
>db.details.find()
( ".ju" : ObjectId("647383659b45e4ce9clbd86c"), "name" : "abc", "id" : "2", "gender" : "f", "age" : 20, "date" : "Sun May 28 2023 16:35:37 GMT+0000 (UTC)" }
( ".ju" : ObjectId("647383659b45e4ce9clbd86c"), "name" : "ijk", "id" : "2", "gender" : "m", "age" : 20, "date" : "Sun May 28 2023 16:37:57 GMT+0000 (UTC)" }

>#
```

```
db.details.insertOne({
  name: "abc",
  id: "1",
  gender: "f",
  age:20,
  date: Date()
})
db.posts.deleteMany({ gender: "f" })
db.details.find()
```

```
>db.details.insertOne({
    name: "abc",
    id: "1",
    gender: "f",
    age:20,
    date: Date()
})

{
    "acknowledged": true,
    "insertedId": ObjectId("647385e3d712bd9d202c59f7")
}
>db.details.deleteMany({ gender: "f" })
{    "acknowledged": true, "deletedCount": 2 }
>db.details.find()
{    "_id": ObjectId("647383659b45e4ce9c1bd86c"), "name": "ijk", "id": "2", "gender": "m", "age": 20, "date": "Sun May 28 2023 16:37:57 GMT+0000 (UTC)" }
>1
```