# Modern Application Development Java Spring Boot

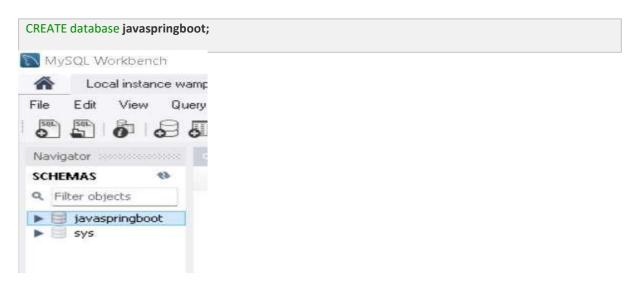
**Assignment -2** 

# **MySQL**

# 1. Create Command

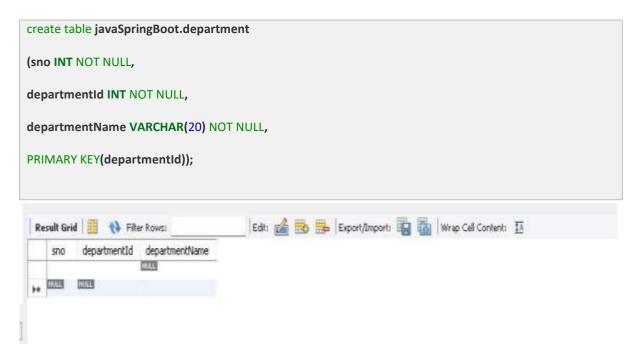
# **Create Database:**

Create database (database\_name);



## **Create Table:**

Create table table\_name (columns\_name with datatype)



### 2. Insert Command

Insert into database.table\_name values( )

**INSERT INTO** javaSpringBoot.DEPARTMENT **VALUES(1,1,'CSE')**;



## 3. Delete Command

**Delete** from table\_name **where** column\_name = 'any data';

**Delete from** javaspringBoot.department **where** sno=1;

# 4. Create tables and perform joins

#### **Create tables:**

**create table** javaSpringBoot.department(sno INT **NOT NULL**, departmentId INT **NOT NULL**, departmentName VARCHAR(**20**) **NOT NULL**, **PRIMARY KEY**(departmentId));

**Create table** javaSpringBoot.faculty(SNO INT,departmentId INT,facultyId INT,facuLtyName varchar(2), **PRIMARY KEY**(SNO), **FOREIGN KEY**(departmentId) **REFERENCES** department(departmentId));

**create table** javaSpringBoot.Student(sno INT,departmentId INT,studentId INT, StudentName varchar(20), primary key(sno), foreign key(departmentId) references department(departmentId));

#### **Inserting values:**

#### **Department Table**

```
INSERT INTO javaSpringBoot.DEPARTMENT VALUES(1,1,'CSE') INSERT INTO javaSpringBoot.DEPARTMENT VALUES(2,2,'MAT); INSERT INTO javaSpringBoot.DEPARTMENT VALUES(3,3,'IT'); INSERT INTO javaSpringBoot.DEPARTMENT VALUES(4,4,'BCA');
```

## **Faculty Table**

```
INSERT INTO javaSpringBoot.FACULTY VALUES(1,1,1, 'AB'); INSERT INTO javaSpringBoot.FACULTY VALUES(2,1,1, 'CD'); INSERT INTO javaSpringBoot.FACULTY VALUES(3,2,5, 'EF') INSERT INTO javaSpringBoot.FACULTY VALUES(4,3,9, 'GH');
```

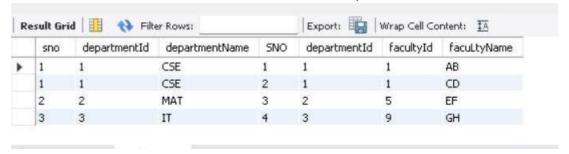
#### **Department Table**

```
INSERT INTO javaSpringBoot.STUDENT VALUES(1,1,1,'XY');
INSERT INTO javaSpringBoot.STUDENT VALUES(2,4,1,'WW');
INSERT INTO javaSpringBoot.STUDENT VALUES(4,3,1,'GG');
INSERT INTO javaSpringBoot.STUDENT VALUES(9,2,1,'HH');
```

#### Join comments:

#### 1. INNER JOIN

**SELECT \* FROM** javaSpringBoot.DEPARTMENT **JOIN** javaSpringBoot.FACULTY **ON** DEPARTMENT.DEPARTMENTID=FACULTY.DEPARTMENTID;



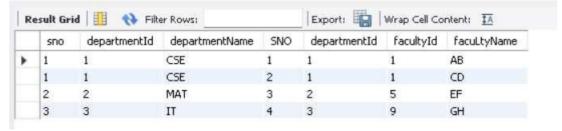
## 2.LEFT (OUTER JOIN)

**SELECT \* FROM** javaSpringBoot.DEPARTMENT **LEFT JOIN** javaSpringBoot.FACULTY **ON** DEPARTMENT.DEPARTMENTID=FACULTY.DEPARTMENTID;



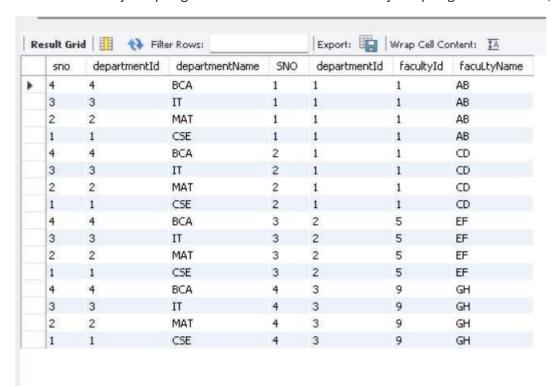
# 3. RIGHT (OUTER JOIN)

**SELECT \* FROM** javaSpringBoot.DEPARTMENT **RIGHT JOIN** javaSpringBoot.FACULTY **ON** DEPARTMENT.DEPARTMENTID=FACULTY.DEPARTMENTID;



#### **4. FULL OUTER JOIN**

**SELECT \* FROM** javaSpringBoot.DEPARTMENT **FULL JOIN** javaSpringBoot.FACULTY;



# **Mongo**

## 1. Create Command

# Insert into mongo collection:

db.student.insertOne({'studentName':'abc'})
db.student.insertOne({name:"Andrew",age:45})

```
> db.student.insertOne({'studentName':'abc'})

< {
    acknowledged: true,
    insertedId: ObjectId("647360cd066f8da5f9f25712")
}

> db.student.insertOne({name:"Andrew",age:45})

< {
    acknowledged: true,
    insertedId: ObjectId("647363d8066f8da5f9f25713")
}</pre>
```

# 2. Update Command

db.student.updateOne({name:'Andrew'},{\$set: {age:20} })

# 3. Delete Command

db.student.deleteOne({name:"Andrew"})

```
db.student.deleteOne({name: "Andrew"})

{
    acknowledged: true,
    deletedCount: 1
}

db.student.find()

{
    _id: ObjectId("647360cd066f8da5f9f25712"),
    studentName: 'abc'
}
```