Spring Boot Week-2 Assignment

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Creating Table:

```
CREATE TABLE Employee(

Id int primary key,

FirstName varchar(50),

LastName varchar(50),

Address varchar(200),

City varchar(50)

);

Insert into Employee values (1, 'Pawan', 'Kalyan', 'Andhra Pradesh','RJY');

Insert into Employee values (2, 'Allu', 'Arjun', 'Telangana','Hyderabad');

Insert into Employee values (3, 'Ram', 'Charan', 'Tamil Nadu','Chennai');

Insert into Employee values (4, 'Mahesh', 'Babu', 'Karnataka','Banglore');
```

Select * from Employee

Output:

Output

Output:				
Id	FirstNa	me	LastName	Address City
1	Pawan	Kalyan	Andhra Pradesh	RJY
2	Allu	Arjun	Telangana	Hyderabad
3	Ram	Charan	Tamil Nadu	Chennai
4	Mahesh	Babu	Karnataka	Banglore

Update from table

CREATE TABLE Employee(

Id int primary key,

FirstName varchar(50),

LastName varchar(50),

Address varchar(200),

City varchar(50)

```
);
Insert into Employee values (1, 'Pawan', 'Kalyan', 'Andhra Pradesh','RJY');
Insert into Employee values (2, 'Allu', 'Arjun', 'Telangana','Hyderabad');
Insert into Employee values (3, 'Ram', 'Charan', 'Tamil Nadu','Chennai');
Insert into Employee values (4, 'Mahesh', 'Babu', 'Karnataka','Banglore');

UPDATE Employee

SET LastName= 'Arvind', City= 'KDP' WHERE Id = 2;
```

Select * from Employee

Output:

Output:				
Id	FirstNa	me	LastName	Address City
1	Pawan	Kalyan	Andhra Pradesh	RJY
2	Allu	Arvind	Telangana	KDP
3	Ram	Charan	Tamil Nadu	Chennai
4	Mahesh	Babu	Karnataka	Banglore

Delete from table

```
CREATE TABLE Employee(

Id int primary key,

FirstName varchar(50),

LastName varchar(50),

Address varchar(200),

City varchar(50)

);

Insert into Employee values (1, 'Pawan', 'Kalyan', 'Andhra Pradesh','RJY');

Insert into Employee values (2, 'Allu', 'Arjun', 'Telangana','Hyderabad');

Insert into Employee values (3, 'Ram', 'Charan', 'Tamil Nadu','Chennai');

Insert into Employee values (4, 'Mahesh', 'Babu', 'Karnataka','Banglore');
```

DELETE from Employee WHERE Id=4;

Select * from Employee

Output:

Output:

Id	FirstName		LastName	Address City
1	Pawan	Kalyan	Andhra Pradesh	RJY
2	Allu	Arjun	Telangana	Hyderabad
3	Ram	Charan	Tamil Nadu	Chennai

Create tables for Join operation

```
CREATE TABLE Books(
Id INT PRIMARY KEY,
Name VARCHAR (50) NOT NULL,
Price INT,
CategoryId INT,
AuthorId INT );

CREATE TABLE Categories(
Id INT PRIMARY KEY,
Name VARCHAR (50) NOT NULL
);

CREATE TABLE Authors(
Id INT PRIMARY KEY,
Name VARCHAR (50) NOT NULL);
```

INSERT INTO Categories VALUES (1, 'Cat-A'),

```
(2, 'Cat-B'),
  (3, 'Cat-C'),
  (7, 'Cat-D'),
  (8, 'Cat-E'),
  (4, 'Cat-F'),
  (10,'Cat-G'),
  (12,'Cat-H'),
  (6, 'Cat-I');
INSERT INTO Authors VALUES (1, 'Author-A'),
  (2, 'Author-B'),
  (3, 'Author-C'),
  (10, 'Author-D'),
  (12, 'Author-E');
INSERT INTO Books VALUES (1,'Book-A', 100, 1, 2),
  (2,'Book-B', 200, 2, 2),
  (3, 'Book-C', 150, 3, 2),
  (4,'Book-D', 100, 3,1),
  (5,'Book-E', 200, 3,1),
  (6,'Book-F', 150, 4,1),
  (7,'Book-G', 100, 5,5),
  (8,'Book-H', 200, 5,6),
  (9,'Book-I', 150, 7,8);
Inner Join
SELECT Books.CategoryId, Books.Name, Categories.Id, Categories.Name
  FROM Books
  INNER JOIN Categories
  ON Books.CategoryId = Categories.Id;
```

Output:

Output:				
CategoryId		Name	Id	Name
1	Book-A	1	Cat-A	
2	Book-B	2	Cat-B	
3	Book-C	3	Cat-C	
3	Book-D	3	Cat-C	
3	Book-E	3	Cat-C	
4	Book-F	4	Cat-F	
7	Book-I	7	Cat-D	

Left Join

SELECT Books.CategoryId, Books.Name, Categories.id, Categories.Name

FROM Books

LEFT JOIN Categories

ON Books.CategoryId = Categories.Id;

Output:

Output:

Categ	oryId	Name	id	Name
1	Book-A	1	Cat-A	
2	Book-B	2	Cat-B	
3	Book-C	3	cat-c	
3	Book-D	3	cat-c	
3	Book-E	3	cat-c	
4	Book-F	4	Cat-F	
5	Book-G	NULL	NULL	
5	Book-H	NULL	NULL	
7	Book-I	7	Cat-D	

Right Join

SELECT Books.CategoryId, Books.Name, Categories.id, Categories.Name

FROM Books

RIGHT JOIN Categories

ON Books.CategoryId = Categories.Id;

Output:

Output:

yId	Name	id	Name
Book-A	1	Cat-A	
Book-B	2	Cat-B	
Book-E	3	Cat-C	
Book-D	3	Cat-C	
Book-C	3	Cat-C	
Book-F	4	Cat-F	
NULL	6	Cat-I	
Book-I	7	Cat-D	
NULL	8	Cat-E	
NULL	10	Cat-G	
NULL	12	Cat-H	
	Book-A Book-B Book-E Book-D Book-C Book-F NULL Book-I NULL NULL	Book-A 1 Book-B 2 Book-E 3 Book-D 3 Book-C 3 Book-F 4 NULL 6 Book-I 7 NULL 8 NULL 10	Book-A 1 Cat-A Book-B 2 Cat-B Book-E 3 Cat-C Book-D 3 Cat-C Book-C 3 Cat-C Book-F 4 Cat-F NULL 6 Cat-I Book-I 7 Cat-D NULL 8 Cat-E NULL 10 Cat-G

Create update, delete commands in mongodb? Update command:

Code:

```
db.students.insertMany([
    { id: 1, name: 'Ryan', gender: 'M' },
    { id: 2, name: 'Joanna', gender: 'F' }
]);
db.students.find({ gender: 'F' });
db.students.updateOne(
    { id: 1 },
    { $set: { name: "Ryan Smith", gender: "M" } }
);
```

Output

```
mycompiler_mongodb> ... ... {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6473579aa5217a413cb2340c"),
    '1': ObjectId("6473579aa5217a413cb2340d")
mycompiler_mongodb> [
    id: ObjectId("6473579aa5217a413cb2340d"),
    id: 2,
    name: 'Joanna',
    gender: 'F'
  }
1
mycompiler_mongodb> ... ... {
  acknowledged: true,
 insertedId: null,
 matchedCount: 1,
 modifiedCount: 1,
 upsertedCount: 0
mycompiler_mongodb>
```

After updating

Deleting commands:

Code:

db.students.deleteOne({ id: 2 }); db.students.find()

After deleting:

```
mycompiler_mongodb> { acknowledged: true, deletedCount: 1 }
mycompiler_mongodb> [
    {
        id: ObjectId("647358de792c30f523157d69"),
        id: 1,
        name: 'sujan chowdary',
        gender: 'M'
    }
]
mycompiler_mongodb>
```