JAVA SPRING BOOT ASSIGNMENT – 2

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MYSQL (TABLE):

CREATE:

```
CREATE TABLE Person (
    PersonID int,
    PersonName varchar(255),
    Address varchar(255),
    City varchar(255)
);
```

OUTPUT:

| | 8 | 22:20:22 | CREATE TABLE Person (PersonID int, PersonName varchar(255), Address varchar(255), City varchar(255)) | 0 row(s) affected | 0.141 sec |

INSERT:

```
INSERT INTO Person (PersonID, PersonName, Address, City)
VALUES ('01', 'Naveen', '1.Gandhi street', 'vellore');
INSERT INTO Person (PersonID, PersonName, Address, City)
VALUES ('02', 'Raj', '2.Nehru street', 'Chennai');
INSERT INTO Person (PersonID, PersonName, Address, City)
VALUES ('03', 'Aakash', '5.Lal street', 'Bangalore');
```

OUTPUT:

	10	22:23:08	INSERT INTO Person (PersonID, PersonName, Address, City) VALUES ('01', 'Naveen', '1.Gandhi street', 'vellore')	1 row(s) affected	0.031 sec
	11	22:24:52	INSERT INTO Person (PersonID, PersonName, Address, City) VALUES ('02', 'Raj', '2.Nehru street', 'Chennai')	1 row(s) affected	0.000 sec
	12	22:24:58	INSERT INTO Person (PersonID, PersonName, Address, City) VALUES ('03', 'Aakash', '5.Lal street', 'Bangalore')	1 row(s) affected	0.000 sec

UPDATE:

```
UPDATE Person
SET PersonName = 'Suraj', City= 'Goa'
WHERE PersonID = '03';
set sql_safe_updates=0;
```

OUTPUT:

	15 22:29:26 set sql_safe_updates=0	0 row(s) affected	0.000 sec
	16 22:29:36 UPDATE Person SET PersonName = 'Suraj', City= 'Goa' WHERE PersonID = '03'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.032 sec

DELETE:

```
DELETE FROM Person WHERE PersonName='Raj';
```

OUTPUT:

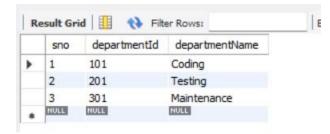|	17 22:33:12 DELETE FROM Person WHERE PersonName='Raj'	1 row(s) affected	0.078 sec

JOINS:

```
CREATE TABLE Department (
  `sno` INT NOT NULL,
  `departmentId` INT NOT NULL,
  `departmentName` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`departmentId`));
INSERT INTO Department (sno, departmentId, departmentName)
VALUES ('01', '101', 'Coding');
INSERT INTO Department (sno, departmentId, departmentName)
VALUES ('02', '201', 'Testing');
INSERT INTO Department (sno, departmentId, departmentName)
VALUES ('03', '301', 'Maintenance');
SELECT * FROM DEPARTMENT;
```

Result Grid | Filter Rows:

sno	departmentId	departmentName
1	101	Coding
2	201	Testing
3	301	Maintenance
NULL	NULL	NULL

```
CREATE TABLE FACULTY (SNO INT,DEPARTMENTID INT,FACULTYID INT,FACULTYNAME VARCHAR(2),
PRIMARY KEY (SNO),FOREIGN KEY(DEPARTMENTID) REFERENCES DEPARTMENT(DEPARTMENTID));
INSERT INTO FACULTY (SNO, DEPARTMENTID, FACULTYID, FACULTYNAME )
VALUES ('01', '101', '1001', 'AB');
INSERT INTO FACULTY (SNO, DEPARTMENTID, FACULTYID, FACULTYNAME )
VALUES ('02', '201', '1002', 'CD');
SELECT * FROM FACULTY;
```

Result Grid | Filter Rows: | Edit:

	SNO	DEPARTMENTID	FACULTYID	FACULTYNAME
▶	1	101	1001	AB
	2	201	1002	CD
*	NULL	NULL	NULL	NULL

INNER JOIN:

```
SELECT * FROM DEPARTMENT JOIN FACULTY ON DEPARTMENT.DEPARTMENTID=FACULTY.DEPARTMENTID;
```

OUTPUT:

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ẌA

	sno	departmentId	departmentName	SNO	DEPARTMENTID	FACULTYID	FACULTYNAME
▶	1	101	Coding	1	101	1001	AB
	2	201	Testing	2	201	1002	CD

LEFT JOIN:

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

OUTPUT:

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ẌA

	sno	departmentId	departmentName	SNO	DEPARTMENTID	FACULTYID	FACULTYNAME
▶	1	101	Coding	1	101	1001	AB
	2	201	Testing	2	201	1002	CD
	3	301	Maintenance	NULL	NULL	NULL	NULL

RIGHT JOIN:

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

OUTPUT:

sno	departmentId	departmentName	SNO	DEPARTMENTID	FACULTYID	FACULTYNAME
1	101	Coding	1	101	1001	AB
2	201	Testing	2	201	1002	CD

FULL JOIN:

```
SELECT * FROM DEPARTMENT FULL JOIN FACULTY;
```

OUTPUT:

sno	departmentId	departmentName	SNO	DEPARTMENTID	FACULTYID	FACULTYNAME
1	101	Coding	1	101	1001	AB
1	101	Coding	2	201	1002	CD
2	201	Testing	1	101	1001	AB
2	201	Testing	2	201	1002	CD
3	301	Maintenance	1	101	1001	AB
3	301	Maintenance	2	201	1002	CD

MongoDB:

CREATE:

```
> db.createCollection("Train")
< { ok: 1 }
```

INSERT:

```
> db.Train.insertOne({'TrainID':'t01'})
< {
    acknowledged: true,
    insertedId: ObjectId("647371721b80a386d2945855")
  }
```

UPDATE:

```
> db.Train.updateOne({TrainID:'t01'},{$set:{TrainID:'t02'}});
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
```

DELETE:

```
> db.Train.deleteOne({TrainID:'t02'});
< {
    acknowledged: true,
    deletedCount: 1
  }
```