# SMARTBRIDGE EXTERNSHIP

## Modern Application Development (Java Spring Boot)

### ASSIGNMENT - 2

**NAME:** Hrithik G

**REG.NO:** 20BCE1890

1. *create ,update,delete commands in mysql*

```sql
--
-- Database: `SpringBoot_ASGMT-2`
--

-- --------------------------------------------------------

--
-- Table structure for table `studentinfo`
--

CREATE TABLE IF NOT EXISTS `studentinfo` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `Name` varchar(50) NOT NULL,
  `DateOfBirth` date NOT NULL,
  `University` text NOT NULL,
  `Campus` text NOT NULL,
  `RegistrationNumber` varchar(10) NOT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB  DEFAULT CHARSET=latin1 AUTO_INCREMENT=6 ;


INSERT INTO `studentinfo` (`id`, `Name`, `DateOfBirth`, `University`, `Campus`, `RegistrationNumber`) VALUES
(1, 'Hrithik', '2002-10-28', 'Vellore Institute of Technology', 'Chennai', '20BCE1890'),
(2, 'Koushal Vel', '2002-11-25', 'Vellore Institute of Technology', 'Chennai', '20BCE1869'),
(3, 'Baskar', '2002-12-21', 'Vellore Institute of Technology', 'Chennai', '20BCE1907'),
(4, 'Kabilan', '2002-03-16', 'Vellore Institute of Technology', 'Chennai', '20BCE1647'),
(5, 'Roshan', '2002-05-06', 'Vellore Institute of Technology', 'Chennai', '20BCE1911');
```

```
UPDATE `test`.`studentinfo` SET `Name` = 'Koushal ' WHERE `studentinfo`.`id`
= 2;

DELETE FROM `test`.`studentinfo` WHERE `studentinfo`.`id` = 5";
```

TABLE:

| id | Name | DateOfBirth | University | Campus | RegistrationNumber |
|----|------|-------------|------------|--------|--------------------|
| 1 | Hrithik | 2002-10-28 | Vellore Institute of Technology | Chennai | 20BCE1890 |
| 2 | Koushal | 2002-11-25 | Vellore Institute of Technology | Chennai | 20BCE1869 |
| 3 | Baskar | 2002-12-21 | Vellore Institute of Technology | Chennai | 20BCE1907 |
| 4 | Kabilan | 2002-03-16 | Vellore Institute of Technology | Chennai | 20BCE1647 |

2. *create tables and perform joins in mysql*

```sql
--
-- Database: `SpringBoot_ASGMT-2`
--


-- --------------------------------------------------------

--
-- Table structure for table `courseinfo`
--

CREATE TABLE IF NOT EXISTS `courseinfo` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `CourseName` text NOT NULL,
  `CourseCode` varchar(10) NOT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB  DEFAULT CHARSET=latin1 AUTO_INCREMENT=4 ;


INSERT INTO `courseinfo` (`id`, `CourseName`, `CourseCode`) VALUES
(1, 'Java Programming', 'CSE1007'),
(2, 'Data Structures and Algorithms', 'CSE2011'),
(3, 'Design and analysis of algorithms', 'CSE2012');

SELECT studentinfo.Name, studentinfo.RegistrationNumber,
studentinfo.University, studentinfo.Campus, courseinfo.CourseName,
courseinfo.CourseCode
FROM studentinfo
INNER JOIN courseinfo
ON studentinfo.id = courseinfo.id;

SELECT studentinfo.Name, studentinfo.RegistrationNumber,
studentinfo.University, studentinfo.Campus, courseinfo.CourseName,
courseinfo.CourseCode
FROM studentinfo
```

```
LEFT JOIN courseinfo
ON studentinfo.id = courseinfo.id;

SELECT studentinfo.Name, studentinfo.RegistrationNumber,
studentinfo.University, studentinfo.Campus, courseinfo.CourseName,
courseinfo.CourseCode
FROM studentinfo
RIGHT JOIN courseinfo
ON studentinfo.id = courseinfo.id;
```

TABLE:

| id | CourseName | CourseCode |
|----|------------|------------|
| 1 | Java Programming | CSE1007 |
| 2 | Data Structures and Algorithms | CSE2011 |
| 3 | Design and analysis of algorithms | CSE2012 |

| Name | RegistrationNumber | University | Campus | CourseName | CourseCode |
|------|--------------------|-----------|--------|-----------|-----------|
| Hrithik | 20BCE1890 | Vellore Institute of Technology | Chennai | Java Programming | CSE1007 |
| Koushal | 20BCE1869 | Vellore Institute of Technology | Chennai | Data Structures and Algorithms | CSE2011 |
| Baskar | 20BCE1907 | Vellore Institute of Technology | Chennai | Design and analysis of algorithms | CSE2012 |

| Name | RegistrationNumber | University | Campus | CourseName | CourseCode |
|------|--------------------|-----------|--------|-----------|-----------|
| Hrithik | 20BCE1890 | Vellore Institute of Technology | Chennai | Java Programming | CSE1007 |
| Koushal | 20BCE1869 | Vellore Institute of Technology | Chennai | Data Structures and Algorithms | CSE2011 |
| Baskar | 20BCE1907 | Vellore Institute of Technology | Chennai | Design and analysis of algorithms | CSE2012 |
| Kabilan | 20BCE1647 | Vellore Institute of Technology | Chennai | *NULL* | *NULL* |

| Name | RegistrationNumber | University | Campus | CourseName | CourseCode |
|------|--------------------|-----------|--------|-----------|-----------|
| Hrithik | 20BCE1890 | Vellore Institute of Technology | Chennai | Java Programming | CSE1007 |
| Koushal | 20BCE1869 | Vellore Institute of Technology | Chennai | Data Structures and Algorithms | CSE2011 |
| Baskar | 20BCE1907 | Vellore Institute of Technology | Chennai | Design and analysis of algorithms | CSE2012 |

3. *create ,update,delete commands in mongo*

```
use SpringBoot_ASGMT-2;

db.studentinfo.insertMany([
  {
        "id": 1,
        "Name": "Hrithik",
        "DateOfBirth": ISODate("2002-10-28"),
        "University": "Vellore Institute of Technology",
        "Campus": "Chennai",
        "RegistrationNumber": "20BCE1890"
  },
  {

        "id": 2,
        "Name": "Koushal Vel",
        "DateOfBirth": ISODate("2002-11-25"),
        "University": "Vellore Institute of Technology",
        "Campus": "Chennai",
        "RegistrationNumber": "20BCE1869"
  },
  {

        "id": 3,
        "Name": "Baskar",
        "DateOfBirth": ISODate("2002-12-21"),
        "University": "Vellore Institute of Technology",
        "Campus": "Chennai",
        "RegistrationNumber": "20BCE1907"
  },
  {
        "id": 4,
        "Name": "Kabilan",
        "DateOfBirth": ISODate("2002-03-16"),
        "University": "Vellore Institute of Technology",
        "Campus": "Chennai",
```

```
            "RegistrationNumber": "20BCE1647"
    },
    {

            "id": 5,
            "Name": "Roshan",
            "DateOfBirth": ISODate("2002-05-06"),
            "University": "Vellore Institute of Technology",
            "Campus": "Chennai",
            "RegistrationNumber": "20BCE1911"

    }
]);


db.studentinfo.find();


db.studentinfo.deleteOne({ "RegistrationNumber": "20BCE1911" });


db.studentinfo.updateOne(
  { "RegistrationNumber": "20BCE1567" },
  {
        $set: {
        "id": 5,
        "Name": "Max Logan",
        "DateOfBirth": ISODate("2002-06-16"),
        "University": "Vellore Institute of Technology",
        "Campus": "Chennai",
        "RegistrationNumber": "20BCE1567"
        }
  }
);
db.studentinfo.find();
```