

## 14. Write SQL Query to perform following set operations

### -- Create Student table

```
CREATE TABLE Student (  
    student_id INT,  
    name VARCHAR(100),  
    department VARCHAR(50)  
);
```

### -- Insert data into Student table

```
INSERT INTO Student VALUES (1, 'John Doe', 'Math');  
INSERT INTO Student VALUES (2, 'Alice Smith', 'English');  
INSERT INTO Student VALUES (3, 'Bob Johnson', 'Science');  
INSERT INTO Student VALUES (4, 'Emma Lee', 'History');  
INSERT INTO Student VALUES (5, 'Mike Brown', 'Math');
```

### -- Additional data for set operations

```
INSERT INTO Student VALUES (6, 'Sophia Johnson', 'Math');  
INSERT INTO Student VALUES (7, 'Ethan Williams', 'History');  
INSERT INTO Student VALUES (8, 'Olivia Taylor', 'Science');
```

```
select * from Student;
```

### -- Union operation

```
SELECT * FROM Student WHERE department = 'Math' UNION SELECT * FROM Student WHERE  
department = 'English';
```

### -- Intersection operation

```
SELECT * FROM Student WHERE department = 'Math' INTERSECT SELECT * FROM Student WHERE  
department = 'Math';
```

### -- Set difference operation

```
SELECT * FROM Student WHERE department = 'Science' EXCEPT SELECT * FROM Student WHERE  
department = 'Math';
```