

15. Create tables instructor_info and Instructor_branch (common attribute is ID) and Write SQL Query to perform following Join Operations

-- Create instructor_info table

```
CREATE TABLE instructor_info (  
    ID INT PRIMARY KEY,  
    name VARCHAR(100),  
    age INT,  
    specialization VARCHAR(50)  
);
```

-- Insert data into instructor_info table

```
INSERT INTO instructor_info VALUES (1, 'John Doe', 35, 'Math');  
INSERT INTO instructor_info VALUES (2, 'Alice Smith', 40, 'English');  
INSERT INTO instructor_info VALUES (3, 'Bob Johnson', 38, 'Science');
```

-- Create instructor_branch table

```
CREATE TABLE instructor_branch (  
    ID INT PRIMARY KEY,  
    branch VARCHAR(50)  
);
```

-- Insert data into instructor_branch table

```
INSERT INTO instructor_branch VALUES (1, 'Branch A');  
INSERT INTO instructor_branch VALUES (2, 'Branch B');  
INSERT INTO instructor_branch VALUES (3, 'Branch C');  
INSERT INTO instructor_branch VALUES (4, 'Branch D');
```

-- Join Operations

-- Natural Join

```
SELECT * FROM instructor_info NATURAL JOIN instructor_branch;
```

-- Left Outer Join

```
SELECT * FROM instructor_info LEFT OUTER JOIN instructor_branch ON  
instructor_info.ID = instructor_branch.ID;
```

-- Right Outer Join

```
SELECT * FROM instructor_info RIGHT OUTER JOIN instructor_branch ON  
instructor_info.ID = instructor_branch.ID;
```

-- Full Outer Join

```
SELECT * FROM instructor_info FULL OUTER JOIN instructor_branch ON  
instructor_info.ID = instructor_branch.ID;
```