

SQL UNIONS along with table creation, data insertion, and execution query.

Step 1: Create Tables

Customer Table

```
CREATE TABLE Customer (  
    Cust_ID INT PRIMARY KEY,  
    Cust_LName VARCHAR(50),  
    Cust_FName VARCHAR(50)  
);
```

Customer_2 Table

```
CREATE TABLE Customer_2 (  
    Cust_ID INT PRIMARY KEY,  
    Cust_LName VARCHAR(50),  
    Cust_FName VARCHAR(50)  
);
```



Step 2: Insert Sample Data

Insert Data into Customer

```
INSERT INTO Customer VALUES  
(1, 'Smith', 'John'),  
(2, 'Doe', 'Jane'),  
(3, 'Brown', 'Charlie'),  
(4, 'White', 'Emily');
```

Insert Data into Customer_2

```
INSERT INTO Customer_2 VALUES  
(1, 'Smith', 'John'),  
(2, 'Doe', 'Jane'),  
(5, 'Taylor', 'Chris'),  
(6, 'Green', 'Anna');
```

Step 3: Execute Queries

1. UNION

Query: Combine records from both tables, eliminating duplicates.

```
SELECT Cust_LName, Cust_FName FROM Customer
UNION
SELECT Cust_LName, Cust_FName FROM Customer_2;
```

Output:

Cust_LName	Cust_FName
Smith	John
Doe	Jane
Brown	Charlie
White	Emily
Taylor	Chris
Green	Anna

2. UNION ALL

Query: Combine records from both tables, including duplicates.

```
SELECT Cust_LName, Cust_FName FROM Customer
UNION ALL
SELECT Cust_LName, Cust_FName FROM Customer_2;
```

Output:

Cust_LName	Cust_FName
Smith	John
Doe	Jane
Brown	Charlie
White	Emily
Smith	John
Doe	Jane
Taylor	Chris
Green	Anna

3. INTERSECT

Query: Show only records common to both tables.

```
SELECT Cust_LName, Cust_FName FROM Customer
INTERSECT
SELECT Cust_LName, Cust_FName FROM Customer_2;
```

Output:

Cust_LName	Cust_FName
Smith	John
Doe	Jane

Alternative Query (using JOIN):

```
SELECT C.Cust_LName, C.Cust_FName
FROM Customer C, Customer_2 C2
WHERE C.Cust_LName = C2.Cust_LName AND C.Cust_FName =
C2.Cust_FName;
```



Output:

Cust_LName	Cust_FName
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Smith	John
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Doe	Jane
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4. EXCEPT

Query: Show records unique to the **Customer** table.

```
SELECT Cust_LName, Cust_FName FROM Customer
EXCEPT
SELECT Cust_LName, Cust_FName FROM Customer_2;
```

Output:

Cust_LName	Cust_FName
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Brown	Charlie
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White Emily

Alternative Query (using Subquery):

```
SELECT Cust_LName, Cust_FName
FROM Customer
WHERE (Cust_LName, Cust_FName) NOT IN (
    SELECT Cust_LName, Cust_FName
    FROM Customer_2
);
```

Output:

Cust_LName	Cust_FName
Brown	Charlie
White	Emily
