

→ Understanding how changing join conditions can help solve complex problems by altering the structure of tables and the resulting outcomes.





# Creation of Schema (Customer log) & Table – Customers -DDL commands

```
use customerlog;
CREATE TABLE Customers (
    customer id INT PRIMARY KEY,
                                      -- Primary key
    first_name VARCHAR(50),
    last_name VARCHAR(50),
    email VARCHAR(100)
```





### Creation of orders table

```
• CREATE TABLE Orders (
          order_id INT PRIMARY KEY, -- Primary key
          order_date DATE,
          amount DECIMAL(10, 2),
          customer_id INT, -- Foreign key to Customers table
          FOREIGN KEY (customer_id) REFERENCES Customers(customer_id)
);
```





### Insertion of values

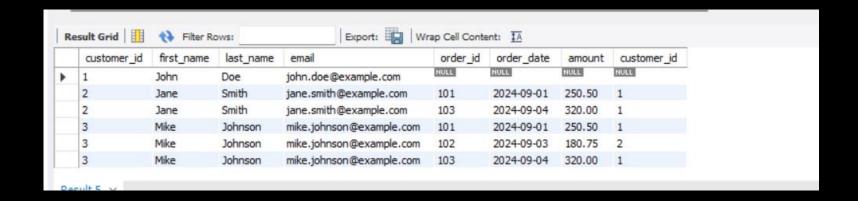
```
INSERT INTO Customers (customer id, first name, last name, email)
VALUES
(1, 'John', 'Doe', 'john.doe@example.com'),
(2, 'Jane', 'Smith', 'jane.smith@example.com'),
(3, 'Mike', 'Johnson', 'mike.johnson@example.com');
INSERT INTO Orders (order id, order date, amount, customer id)
VALUES
(101, '2024-09-01', 250.50, 1), -- John Doe's order
(102, '2024-09-03', 180.75, 2), -- Jane Smith's order
(103, '2024-09-04', 320.00, 1), -- Another order for John Doe
(104, '2024-09-05', 450.00, 3); -- Mike Johnson's order
```





## Use joins by changing conditions <> case1:

select \* from Customers c left join orders o on c.customer\_id>o.customer\_id;



In this case, when c.customer\_id > o.customer\_id is used with a left join, the count of customer\_id from the left table remains intact. For rows where the condition is not satisfied, the right table's corresponding entries are filled with null values





#### Case 2:

```
select * from Customers c left join orders o on c.customer_id=o.customer_id
where c.customer_id>o.customer_id
```



In this case, when c.customer\_id = o.customer\_id is used with a left join, the count of customer\_id from the left table remains intact. For rows where the condition is not satisfied, the right table's corresponding entries are filled with null values. Using the logic of order of execution where clause will do filtering and in output We will receive empty table.





- Thanks For Your time !!
- Happy SQling

