LEFT JOIN

In this lesson, we will discuss the LEFT JOIN keyword.

WE'LL COVER THE FOLLOWING ^

- LEFT JOIN
 - Syntax
 - Example
 - Quick quiz!

LEFT JOIN

The **LEFT JOIN** keyword returns all records from the left table (table1), and the matched records from the right table (table2). The result is **NULL** from the right side if there is no match.

Syntax

```
SELECT table1.column1, table2.column2...
FROM table1
LEFT JOIN table2
ON table1.common_field = table2.common_field;
```

Note: In some databases, LEFT JOIN is called LEFT OUTER JOIN.

Example

We want to select all customers and any orders they might have placed:

The CUSTOMERS table contains information regarding the customers, while the ORDERS table contains information regarding orders placed by customers. As we want the customer infromation even if they have not placed an order, so we will use LEFT JOIN.

Customer Table

ADDRESS NAME AGE SALARY ID1 Mark 32 Texas 50,000 65,000John 25NY 3 Emily 23 Ohio 20,000 75,000 ВШ 25 Chicago Tom 27 Washington. 35,000

Texas

Orders Table

Order_Id	Date	Customer_ld	Amount
100	2019-09-08	2	5000
101	2019-08-20	5	3000
102	2019-05-12	1	1000
103	2019-02-02	2	2000

1 of 3

Similar to INNER JOIN, if we want to use LEFT JOIN we must specify a common column between the two tables.

45,000

Customer Table

Jame

22

ш	NAME	AGE	AUDRESS	SALARY
1	Mark	32	Texas	50,000
2	John	25	ХҮ	63,000
3	Emily	23	Ohin	20,000
4	Bill	25	Chicago	73,000
5	Tom	27	Washington	35,000
6	Jane	22	Texas	45,000
•				

Orders Table

Order_td	Date	Oustomer_Id	Amount
100	2019-09-08	2	3000
101	2019 08 20	S	3000
102	2019 05-12	1	1800
103	2019-02-02	2	2000

This column is common between the two tables

2 of 3

The LEFT JOIN returns all of the records in the CUSTOMERS table along with the matched reords in the ORDERS table. If there is no match i.e. customer has not placed an order that particular record will have NULL values.

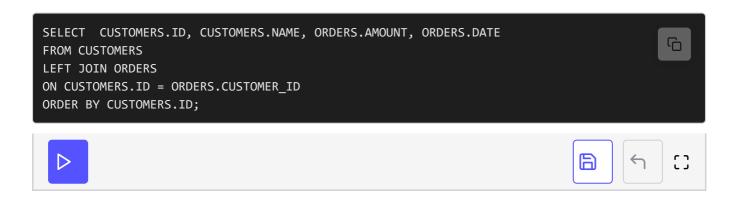
ID	NAME	AMOUNT	DATE
1	Mark	1000	2019-05-12
2	John	5000	2019-09-08
2	John	2000	2019-02-02
3	Emily	NULL	NULL
4	Bill	NULL	NULL
5	Tom	3000	2019-08-20
6	[ane	NULL	NULL

Like before we use SELECT to display the desired columns only.

3 of 3



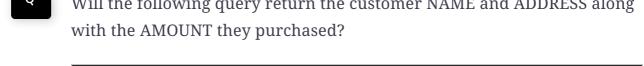
The SQL query to retrieve all customers whether or not they have placed an order:



As you can see, the LEFT JOIN keyword returns all records from the left table (Customers), even if there are no matches in the right table (Orders).

Quick quiz!





```
SELECT CUSTOMERS.NAME, CUSTOMERS.ADDRESS, ORDERS.AMOUNT
FROM CUSTOMERS
LEFT JOIN ORDERS
ON CUSTOMERS.ID = ORDERS.CUSTOMER_ID;
```

COMPLETED 0%

1 of 1





In the next lesson, we will discuss the RIGHT JOIN keyword.