

SQL JOINS

SQL JOIN

A JOIN clause is used to combine rows from two or more tables, based on a related column between them.

Let's look at a selection from the "Orders" table:

OrderID	CustomerID	OrderDate
10308	2	1996-09-18
10309	37	1996-09-19
10310	77	1996-09-20

Then, look at a selection from the "Customers" table:

CustomerID	CustomerName	ContactName
1	Alfreds Futterkiste	Maria Anders
2	Ana Trujillo Emparedados y helados	Ana Trujillo
3	Antonio Moreno Taquería	Antonio Moreno

Notice that the "CustomerID" column in the "Orders" table refers to the "CustomerID" in the "Customers" table. The relationship between the two tables above is the "CustomerID" column.

Then, we can create the following SQL statement (that contains an INNER JOIN), that selects records that have matching values in both tables:

Example

SELECT Orders.OrderID, Customers.CustomerName, Orders.OrderDate FROM Orders

INNER JOIN Customers ON Orders.CustomerID=Customers.CustomerID;

and it will produce something like this:

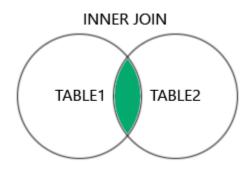
OrderID	CustomerName
10308	Ana Trujillo Emparedados y helados
10365	Antonio Moreno Taquería

10383	Around the Horn
10355	Around the Horn
10278	Berglunds snabbköp

Different Types of SQL JOINs

Here are the different types of the JOINs in SQL:

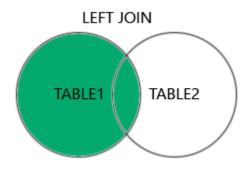
• (INNER) JOIN: Returns records that have matching values in both tables



SQL Query

select employee.name , department.name from employee INNER JOIN department ON employee.dept_id = department.dept_id

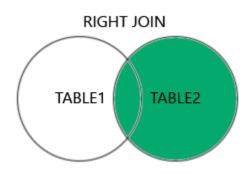
• LEFT (OUTER) JOIN: Returns all records from the left table, and the matched records from the right table



SQL Query

select employee.name, department.name from employee LEFT JOIN department ON employee.dept_id = department.dept_id

 RIGHT (OUTER) JOIN: Returns all records from the right table, and the matched records from the left table



SQL Query

select employee.name, department.name from

employee RIGHT JOIN department

ON employee.dept_id = department.dept_id