

SQL JOINS

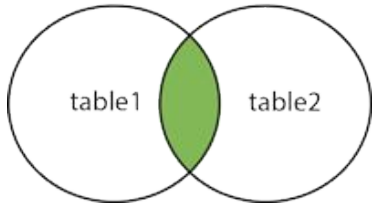
By : L.M.Premitha



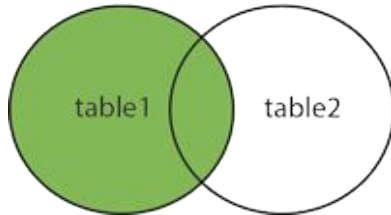
What is Join?

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

INNER JOIN

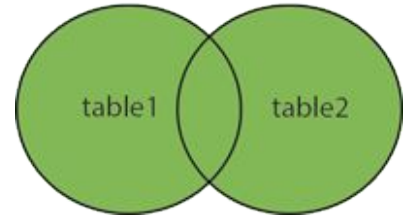


LEFT JOIN

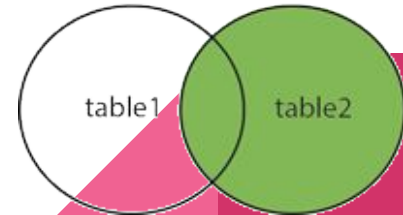


Self Join

FULL OUTER JOIN



RIGHT JOIN



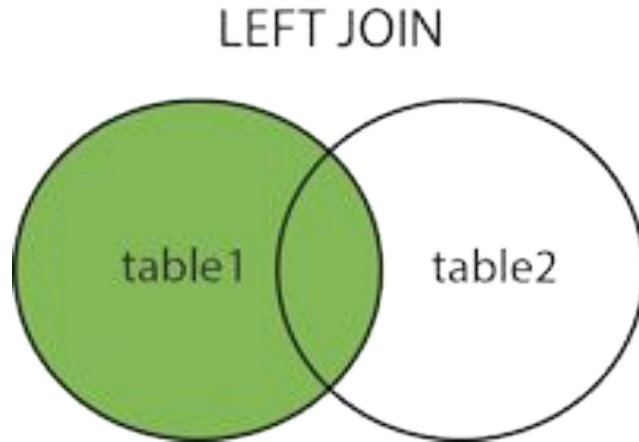
What are the types of Joins?

- Left Join
- Right Join
- Inner Join
- Full Outer Join
- Self Join



❖ Left (Outer) Join

- Returns all records from the left table, and the matched records from the right table.

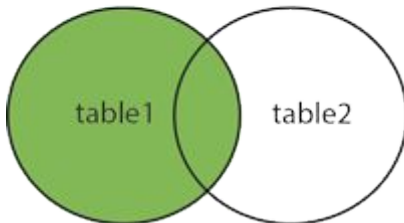


Left Join

SELECT Orders.or_id , Customers.cust-name
From Orders **LEFT JOIN** Customers ON
Orders.cust_id = Customers.id

or_id	cust_name
601	abc
602	null
603	pqr

LEFT JOIN



Customers

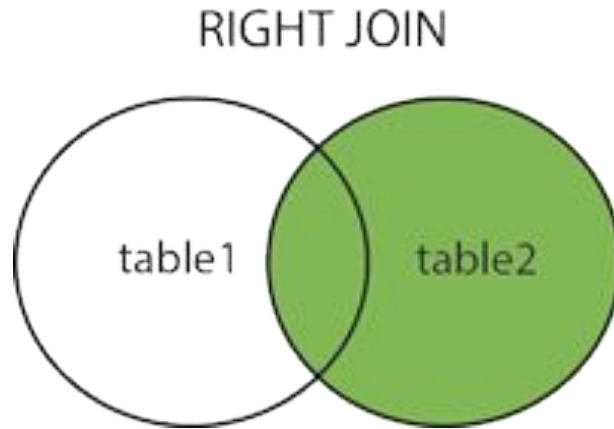
id	cust_name	designation
1	abc	A
2	pqr	B
3	mno	C

Orders

or_id	amount	cust_id
601	1000	1
602	2000	4
603	1500	2

❖ Right (Outer) Join

- Returns all records from the right table, and the matched records from the left table.

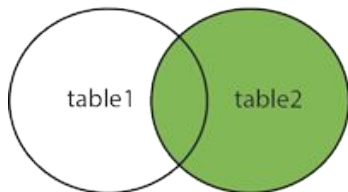


Right Join

SELECT Orders.or_id , Customers.cust_name
FROM Orders **RIGHT JOIN** Customers ON
Orders.cust_id = Customers.id

or_id	cust_name
601	abc
603	pqr
null	mno

RIGHT JOIN



Customers

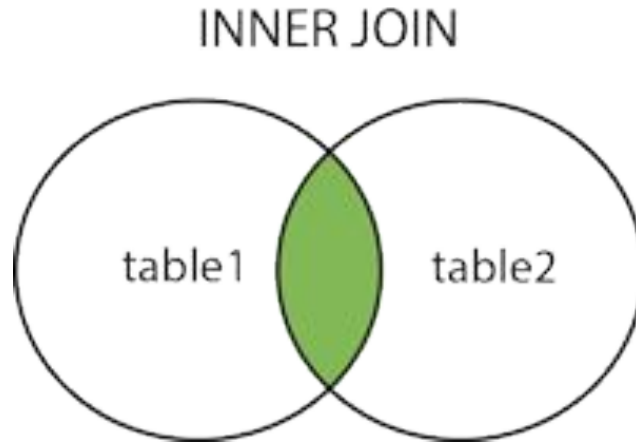
id	cust_name	designation
1	abc	A
2	pqr	B
3	mno	C

Orders

or_id	amount	cust_id
601	1000	1
602	2000	4
603	1500	2

❖ Inner Joins

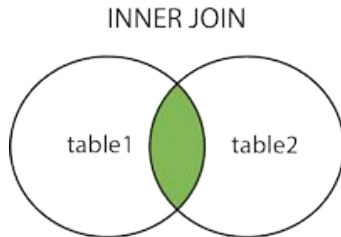
- Returns records that have matching values in both tables.



Inner Join

SELECT Orders.or_id , Customers.cust-name
From Orders **INNER JOIN** Customers ON
Orders.cust_id = Customers.id

or_id	cust_name
601	abc
603	pqr



Customers

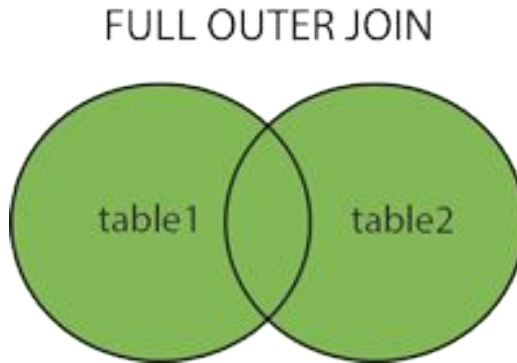
id	cust_name	designation
1	abc	A
2	pqr	B
3	mno	C

Orders

or_id	amount	cust_id
601	1000	1
602	2000	4
603	1500	2

❖ Full (Outer) Join

- Returns all records from the left table, and the matched records from the right table.

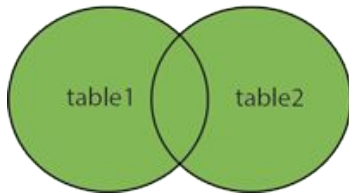


Full (Outer)Join

SELECT Orders.or_id , Customers.cust-name
From Orders **FULL OUTER JOIN** Customers
ON Orders.cust_id = Customers.id

or_id	cust_name
601	abc
602	null
603	pqr
null	mno

FULL OUTER JOIN



Customers

id	cust_name	designation
1	abc	A
2	pqr	B
3	mno	C

Orders

or_id	amount	cust_id
601	1000	1
602	2000	4
603	1500	2

❖ Self Join

- A self join is a regular join, but the table is joined with itself.



Self Join

- One table considered as two tables.
- Join table to itself.
- `SELECT DISTINCT E.name , From
EMPLOYEE INNER JOIN Employee M
ON E.emp_id = M.manager_id`



Self Join

Employee

emp_id	name	manager_id	DOJ
121	abc	A
321	pqr	B
421	mno	C

