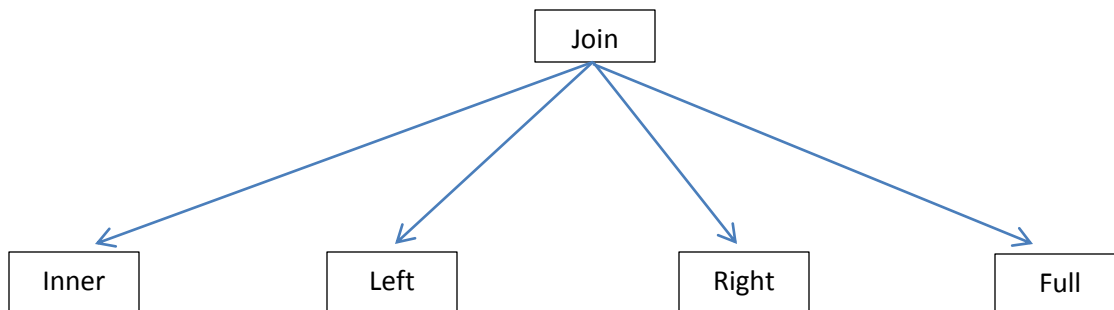




The JOIN clause in MySQL

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



Inner: Returns records that have matching values in both tables.

Left (outer): Return all records from the left table and the matched records from the right table.

Right (outer): Return all records from the right table and the matched records from the left table.

Full: Return all records when there is a match in either left or right table.

Let's look at a selection from the “**cust_info**” table:

	ID	Email_Address	Cust_Name	Phone	Password	Address	Time_Registered
<input type="checkbox"/>	4	kabir Yusuf Bashir@gmail.com	Kabir Yusuf Bashir	0543894296	aa625c13e139947de15ff85bcadde7e4	No 1 Garko Avenue off lamido crescent	2014-11-20 19:45:20
<input type="checkbox"/>	10	abbajime01@gmail.com	Abba Mustapha Jime	0231850510	e7d5cee1b3f1bab72eec748eec29a8eb	AREA 11, Garki ABUJA, NIGERIA.	2014-11-27 09:45:17
<input type="checkbox"/>	14	mansurterrang@gmail.com	Mansur Usman Terrang	0540381068	d5957e47649d5bed91a7d4f5e395353c	Adamawa, Yola	2014-11-30 13:24:42
<input type="checkbox"/>	15	umargrema1@gmail.com	umar	0543832120	cda25aea55b314750a94aa05721b71d3	Maiduguri, Borno	2014-12-01 14:04:05

Then, look at a selection from the “**cust_book_details**” table:

	ID	Company	Size	Price	Hours	Car_Category	Cust_Name	Total_Amount	Pick_Up	Drop_Off	Time_booked	confirmation_code
<input type="checkbox"/>	26	Mercury	4	25	60.616666666667	small_cars	Mansur Usman Terrang	1515.4166666667	2015-01-03 10:23	2015-01-05 23:00	2014-11-30 13:40:05	208223
<input type="checkbox"/>	25	BMW	2	18	60.616666666667	small_cars	Mansur Usman Terrang	1091.1	2015-01-03 10:23	2015-01-05 23:00	2014-11-30 13:39:14	236199
<input type="checkbox"/>	28	Honda Civic	4	15	60.616666666667	small_cars	Kabir Yusuf Bashir	909.250000000001	2015-01-03 10:23	2015-01-05 23:00	2014-11-30 09:03:10	278102
<input type="checkbox"/>	15	Range Rover	4	100	743.333333333333	standard_cars	Kabir Yusuf Bashir	74333.3333333333	2014-12-28T18:40Z	2015-01-28T18:00Z	2014-11-28 19:42:04	373463
<input type="checkbox"/>	25	BMW	2	18	60.616666666667	small_cars	Mansur Usman Terrang	1091.1	2015-01-03 10:23	2015-01-05 23:00	2014-11-30 13:39:20	427761
<input type="checkbox"/>	81	Lexus	4	25	168	all_cars	Kabir Yusuf Bashir	4200	2014-11-28T19:34Z	2014-12-05T19:34Z	2014-11-28 20:37:21	435958
<input type="checkbox"/>	22	Lamborghini	2	50	3	sports	umar	150	2014-12-05 12:23	2014-12-05 15:23	2014-12-01 14:07:57	661841
<input type="checkbox"/>	83	Dodge	2	25	71.916666666667	all_cars	Kabir Yusuf Bashir	1797.9166666667	2014-11-30T08:10Z	2014-12-3T08:05Z	2014-11-30 09:53:45	731621
<input type="checkbox"/>	25	BMW	2	18	60.616666666667	small_cars	Mansur Usman Terrang	1091.1	2015-01-03 10:23	2015-01-05 23:00	2014-11-30 13:40:57	744190
<input type="checkbox"/>	83	Dodge	2	25	71.916666666667	all_cars	Kabir Yusuf Bashir	1797.9166666667	2014-11-30T08:10Z	2014-12-3T08:05Z	2014-11-30 09:34:01	876144
<input type="checkbox"/>	22	Roll Royce	4	65	24	standard_cars	Mansur Usman Terrang	1560	2014-12-30 15:30	2014-12-31 15:30	2014-11-30 13:28:55	939356

↑ Check All / Uncheck All With selected:

Notice that the “**Cust_Name**” column in the “**Cust_Info**” table refers to the “**Cust_Name**” in the “**cust_book_details**” table. The relationship between the two tables above is the “**Cust_Name**” column.

Example of an Inner Join

Run SQL query/queries on database **voting_system**: ?

```
SELECT DISTINCT cust_info.id, cust_info.address, cust_book_details.cust_name FROM cust_info, cust_book_details WHERE cust_info.cust_name=cust_book_details.cust_name ORDER BY cust_info.id
```

id	address	cust_name
4	No 1 Garko Avenue off lamido crescent	Kabir Yusuf Bashir
14	Adamawa, Yola	Mansur Usman Terrang
15	Maiduguri, Borno	umar

Example of Left JoinRun SQL query/queries on database **voting_system**: ?

```
SELECT DISTINCT cust_info.id, cust_info.address, cust_book_details.cust_name FROM cust_info LEFT JOIN cust_book_details ON  
cust_info.cust_name=cust_book_details.cust_name ORDER BY cust_info.id
```

id	address	cust_name
4	No 1 Garko Avenue off lamido crescent	Kabir Yusuf Bashir
10	AREA 11, Garki ABUJA. NIGERIA.	NULL
14	Adamawa, Yola	Mansur Usman Terrang
15	Maiduguri, Borno	umar