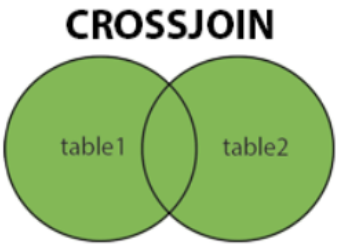
JOINS:

CROSS JOIN:

– The Cross join keyword returns all matching records from both tables whether the other table matches or not.




```
SELECT employees.empid,employees.empname,department.deptname,department.departmentlocation
FROM employees
CROSS JOIN department
WHERE employees.deptid = department.deptid;
```

Output:

empid	empname	deptname	departmentlocation
101	king	sales	mumbai
102	kocchar	dev	chennai
103	smith	dev	chennai
104	sarah	sales	mumbai
105	john	sales	mumbai
106	roger	market	hyderabad
107	bond	sales	mumbai
108	ruskin	market	hyderabad
109	joseph	market	hyderabad
110	sneh	sales	mumbai
111	christin	test	chennai
112	chetan	test	chennai

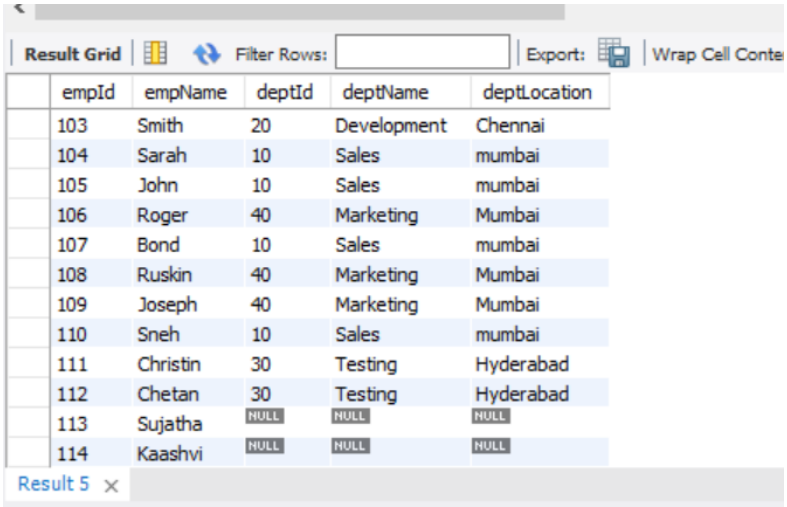
12 rows in set (0.00 sec)

Left Join:

-- All employee details with department details including employees with no department assigned

```
SELECT e.empId, e.empName, e.deptId, d.deptName, d.deptLocation
FROM employees e
LEFT JOIN departments d
ON e.deptId = d.deptId;
```

Output:



empId	empName	deptId	deptName	deptLocation
103	Smith	20	Development	Chennai
104	Sarah	10	Sales	mumbai
105	John	10	Sales	mumbai
106	Roger	40	Marketing	Mumbai
107	Bond	10	Sales	mumbai
108	Ruskin	40	Marketing	Mumbai
109	Joseph	40	Marketing	Mumbai
110	Sneh	10	Sales	mumbai
111	Christin	30	Testing	Hyderabad
112	Chetan	30	Testing	Hyderabad
113	Sujatha	NULL	NULL	NULL
114	Kaashvi	NULL	NULL	NULL

Result 5

Right Join:

– Gives all the departments from right table whether the departments are assign to employee or not.

```
SELECT  d.deptId,e.empId, e.empName, e.empSalary
FROM employee e
RIGHT JOIN Departments d
ON e.deptId = d.deptId;
```

empId	empName	empSalary	empEmail	managerId	empAddedDate	deptId
101	King	23000	king@gmail	NULL	2022-11-16 12:48:11	10
102	Kochhar	12000	kochar@gmail	101	2022-11-16 13:05:21	20
103	Smith	30000	smith@gmail	102	2022-11-16 13:05:21	20
104	Sarah	34000	sarah@gmail	101	2022-11-16 13:05:21	10
105	Jhon	21000	jhon@gmail	101	2022-11-16 13:05:21	10
106	Roger	6000	roger@gmail	101	2022-11-16 13:05:21	40
107	Bond	8000	bond@gmail	101	2022-11-16 13:05:21	10
108	Ruskin	10000	ruskin@gmail	106	2022-11-16 13:05:21	40
109	Joseph	40000	joseph@gmail	106	2022-11-16 13:05:21	40
110	Sneh	35000	sneh@gmail	101	2022-11-16 13:05:21	10
111	Christin	7800	christin@gmail	106	2022-1	2022-11-16 13:05:21
112	Chetan	32000	chetan@gmail	106	2022-11-16 13:05:21	30
113	Sujatha	21000	sujatha@gmail	101	2022-11-16 13:05:21	NULL
114	Kaashvi	41000	kaashvi@gmail	101	2022-11-16 13:05:23	NULL
115	Sakshi	23000	NULL	NULL	NULL	40
116	Krishna	41000	krishna@gm...	NULL	2022-11-18 00:00:00	20
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Filter Rows: | Edit:

deptId	deptName	deptLocation	deptAddedDate
10	sales	chennai	2022-11-16 00:00:00
20	Admin	Hyderabad	2022-11-16 00:00:00
30	Development	mumbai	2022-11-16 00:00:00
40	Marketing	chennai	2022-11-16 00:00:00
50	Testing	Hyderabad	2022-11-16 00:00:00
60	Advertisment	mumbai	2022-11-16 00:00:00
NULL	NULL	NULL	NULL

Result Grid | Filter Rows:

deptId	empId	empName	empSalary
10	110	Sneh	35000
10	107	Bond	8000
10	105	Jhon	21000
10	104	Sarah	34000
10	101	King	23000
20	116	Krishna	41000
20	103	Smith	30000
20	102	Kochhar	12000
30	112	Chetan	32000
30	111	Christin	7800
40	115	Sakshi	23000
40	109	Joseph	40000
40	108	Ruskin	10000
40	106	Roger	6000
50	NULL	NULL	NULL
60	NULL	NULL	NULL

Departments

Result

InnerJoin:

```
SELECT empName as name , empSalary as salary , departName as departmentName ,
departLocation as location
FROM employees
INNER JOIN department
WHERE employees.departId = department.departId;
```

Output:

name	salary	departmentName	location
King	10000	Sales	Mumbai
Kochar	12000	Development	Pune
Smith	30000	Development	Pune
Sarah	34000	Sales	Mumbai
John	21000	Sales	Mumbai
Roger	6000	Marketing	Hyderabad
Bond	8000	Sales	Mumbai
Ruskin	10000	Marketing	Hyderabad
Joseph	40000	Marketing	Hyderabad
Sneh	35000	Sales	Mumbai
Christin	7800	Testing	Pune
Chetan	32000	Testing	Pune

SELF JOIN

```
SELECT a.empId,a.empName,b.empName as Manager
from emp a inner join emp b
on a.managerId=b.empId;
```

Output:

empId	empName	Manager
101	DEF	GHI
103	GHI	JKL
104	JKL	DEF
105	MNO	GHI