

## CODTECH IT SOLUTIONS INTERNSHIP TASK 1 [SQL]

Here are the different types of the JOINS in SQL:

- (INNER) JOIN: Returns records that have matching values in both tables
- LEFT (OUTER) JOIN: Returns all records from the left table, and the matched records from the right table
- RIGHT (OUTER) JOIN: Returns all records from the right table, and the matched records from the left table
- FULL (OUTER) JOIN: Returns all records when there is a match in either left or right table

TABLES CREATION SCRIPT

```
create database KARTHIKSV119

create table employee112(
  empid int ,
  name varchar(50),
  deptid int
);

insert into employee112 values

(1,'karthik',101),
(2,'madhan',102),
(3,'kiran',Null),
(4,'gopi',104);

create table Department113(
  deptid int,
  deptname varchar(50)
);

insert into Department113 values
(101,'HR'),
(102,'Finance'),
(103,'IT');
```

	empid	name	deptid
1	1	karthik	101
2	2	madhan	102
3	3	kiran	NULL
4	4	gopi	104

	deptid	deptname
1	101	HR
2	102	Finance
3	103	IT

### INNER JOIN

select empid, name, deptname

from employee112

inner join Department113 on employee112.deptid=Department113.deptid

	empid	name	deptname
1	1	karthik	HR
2	2	madhan	Finance

### RIGHT JOIN

select empid, name, deptname

from employee112

right join Department113 on employee112.deptid=Department113.deptid

	empid	name	deptname
1	1	karthik	HR
2	2	madhan	Finance
3	NULL	NULL	IT

## LEFT JOIN

select empid, name, deptname

from employee112

left join Department113 on employee112.deptid=Department113.deptid

	empid	name	deptname
1	1	karthik	HR
2	2	madhan	Finance
3	3	kiran	NULL
4	4	gopi	NULL

## FULL JOIN

select empid, name, deptname

from employee112

full join Department113 on employee112.deptid=Department113.deptid

	empid	name	deptname
1	1	karthik	HR
2	2	madhan	Finance
3	3	kiran	NULL
4	4	gopi	NULL
5	NULL	NULL	IT