<https://www.interviewbit.com/sql-interview-questions/>

SELECT SUM(ENGINEER.Count) as A FROM ENGINEER INNER JOIN DATA ON ENGINEER.ID = DATA.ID WHERE DATA.Type = 'FrontEnd';

**JOINS:🡪 bring all of tables together**

**Inner Join or Join:**

If two tables is there , definitely one column should be equal.

**Select e.stname,d.daptname from empioyee e join department d on e.stid=d.deptid;**

You will get suitable one

If we want left more record also use left join=**inner join + left most records also**

**Left join:**

**Select e.stname,d.daptname from empioyee e left join department d on e.stid=d.deptid;**

**Right join 🡺inner join + right most records**

**Select e.stname,d.daptname from empioyee e right join department d on e.stid=d.deptid;**

If our requirement is in first table so we have to take care on first table data fetching all.

**Select e.stname,d.daptname,m.magname from empioyee e join department d on e.stid=d.deptid inner join manager m on m.mangid=e.mangid;🡪 there should be relation further tables with first table.**

**Full Join or Full outer join**

**Select e.stname,d.daptname from empioyee e full join department d on e.stid=d.deptid;**

Full join=Inner join +left table records + right table records

* **Left join & Left outer join are same**
* **Right join & Right outer join are same**

**Cross join🡪 cartesian product /no required of condition**

**Table 1 rows \* table 2 rows-> result**

**Select e.stname,d.daptname from empioyee e cross join department d ;**

**Natural Join:**

**Select e.stname,d.daptname from empioyee e natural join department d;**

Natural join looks like inner join but some cases it not because whenever it **found same name** of column then only it **do inner join** ,if column name **is different** then it perform **cartesian product.--> Never Recommended**

**SELF JOIN:**

**It is used to fetch the data from same table**

**Select child.name as child name,child.age as ch\_age,parent.name as pa\_name.parent.age as pa\_age from family(table name) as child join family as parenton child.parent\_id=parent.member\_id;-🡪 not only inner join we can use left,right join everything.**