```sql
-- Create Table
create table employees(
	employee_id int primary key,
	employee_name varchar,
	department_id float);
-- Insert Table
insert into employees(
	employee_id, employee_name, department_id)
values
	(1, 'John Doe', 101),
	(2, 'Jane Smith', 102),
	(3, 'Bob Johnson', 101),
	(4, 'Alice Williams', 103),
	(5, 'Jane Doe', 104);
-- Create Table departments
create table departments(
	department_id int primary key,
	department_name varchar);
-- Insert Table
insert into departments(
	department_id, department_name)
values
	(101, 'HR'),
	(102, 'Marketing'),
	(103, 'IT'),
	(105, 'Product');
```

TABEL DASAR

```sql
select*from departments d ;
```

department_id	department_name
101	HR
102	Marketing
103	IT
105	Product

```sql
select*from employees e ;
```

employee_id	employee_name	department_id
1	John Doe	101
2	Jane Smith	102
3	Bob Johnson	101
4	Alice Williams	103
5	Jane Doe	104

```sql
--Inner Join, as: ini itu beririsan
select e.employee_id ,e.employee_name , d.department_name, e.department_id
from employees e
inner join departments d
	on e.department_id = d.department_id;
```

	employee_id	employee_name	department_nam	department_id
1	1	John Doe	HR	101
2	3	Bob Johnson	HR	101
3	2	Jane Smith	Marketing	102
4	4	Alice Williams	IT	103

--left Join, as: mengambil data hanya beririsan dari sebelah kiri. karena disini from employee, berarti kirinya itu table employees

```
select e.employee_id ,e.employee_name , d.department_name, e.department_id
from employees e
left join departments d
        on e.department_id = d.department_id;
```

	employee_id	employee_name	department_nam	department_id
1	1	John Doe	HR	101
2	3	Bob Johnson	HR	101
3	2	Jane Smith	Marketing	102
4	4	Alice Williams	IT	103
5	5	Jane Doe	[NULL]	104

as: jadi left nya itu dari from. table emloyee menjadi leftnya.

--right join

```
select e.employee_id ,e.employee_name , d.department_name, e.department_id
from employees e
right join departments d
        on e.department_id = d.department_id;
```

	employee_id	employee_name	department_nam	department_id
1	1	John Doe	HR	101
2	3	Bob Johnson	HR	101
3	2	Jane Smith	Marketing	102
4	4	Alice Williams	IT	103
5	[NULL]	[NULL]	Product	[NULL]

--full join

```
select e.employee_id ,e.employee_name , d.department_name, e.department_id
from employees e
full outer join departments d
        on e.department_id = d.department_id;
```

employee_id	employee_name	department_name	department_id
1	John Doe	HR	101
3	Bob Johnson	HR	101
2	Jane Smith	Marketing	102
4	Alice Williams	IT	103
5	Jane Doe	[NULL]	104
[NULL]	[NULL]	Product	[NULL]

```
-- Left Join Is Null-, as: artinya ini ketika yang tidak match, itu yang diambil
select e.employee_id, e.employee_name, d.department_name, e.department_id
from employees e
left join departments d
        on e.department_id = d.department_id
where d.department_id is null;
```

employee_id	employee_name	department_name	department_id
5	Jane Doe	[NULL]	104