* **Query used in the video:**

use database\_name;

create table AAA (id int);

create table BBB (id1 int);

insert into AAA values (1);

insert into AAA values (1);

insert into AAA values (1);

insert into AAA values (2);

insert into AAA values (3);

insert into AAA values (NULL);

insert into BBB values (1);

insert into BBB values (1);

insert into BBB values (2);

insert into BBB values (2);

insert into BBB values (4);

insert into BBB values (null);

insert into BBB values (null);

select \* from AAA;

select \* from BBB;

select \* from AAA a inner join BBB b on a.id = b.id1;

select \* from AAA a left join BBB b on a.id = b.id1; -- INNER JOIN + ALL THE RECORDS FROM LEFT TABLE WHICH ARE NOT EVEN PRESENT IN RIGHT TABLE

select \* from AAA a right join BBB b on a.id = b.id1; -- inner join + data from right table which is not even present in left table

select \* from AAA a full outer join BBB b on a.id = b.id1;

select \* from AAA a cross join BBB b; -- cross join needs no condition

/\*

-- natural join - does not work in Ms SQL Server

it also does not need any condition to join

if there is a common column between both tables with same column name the output is inner join

if there is not any common column between both tables with same column name the output is outer join

select \* from AAA a natural join AAA aa on a.id = aa.id -- for this case output will be inner join

\*/

select \* from AAA a join AAA aa on a.id = aa.id -- self join

select \* from BBB a join BBB aa on a.id1 = aa.id1 -- self join

-- use case of self join

select \* from self\_join\_data

select s1.employee\_id, s1.employee\_name, s1.manager\_id, s2.employee\_name as Manger\_Name

from self\_join\_data s1

join self\_join\_data s2 on s2.employee\_id = s1.manager\_id

* **Query to practice:**

create table AA (id int);

create table BB (id1 int);

insert into AA values (1);

insert into AA values (1);

insert into AA values (1);

insert into AA values (2);

insert into AA values (2);

insert into AA values (NULL);

insert into BB values (1);

insert into BB values (1);

insert into BB values (2);

insert into BB values (2);

insert into BB values (2);

insert into BB values (null);

insert into BB values (null);

select \* from AA;

select \* from BB;

select \* from AA a inner join BB b on a.id = b.id1;

select \* from AA a left join BB b on a.id = b.id1;

select \* from AA a right join BB b on a.id = b.id1;

select \* from AA a full outer join BB b on a.id = b.id1;

select \* from AA a cross join BB b; -- cross join needs no condition

select \* from BB b join BB b1 on b.id1 = b1.id1 -- self join