create database university

use university

go

create table student (

roll\_no int,

name nvarchar (50),

address nvarchar (50),

phone nvarchar (50),

age int,

)

--inserting data to student table

insert into student values(1,'harsh','delhi','+251900000000',18)

insert into student values(2,'pratik','bahr','+251900000000',19)

insert into student values(3,'riyanka','silguri','+251900000000',20)

insert into student values(4,'deep','ramnagar','+251900000000',18)

insert into student values(5,'sapatarhi','kolkata','+251900000000',19)

insert into student values(6,'dhanraj','barabajar','+251900000000',20)

insert into student values(7,'rohit','balurghat','+251900000000',18)

insert into student values(8,'niraj','alibur','+251900000000',19)

create table StudentCourse (

course\_id int,

roll\_no int,

)

--inserting data to StudentCourse table

insert into StudentCourse values (1,1)

insert into StudentCourse values (2,2)

insert into StudentCourse values (2,3)

insert into StudentCourse values (3,4)

insert into StudentCourse values (1,5)

insert into StudentCourse values (4,9)

insert into StudentCourse values (5,10)

insert into StudentCourse values (5,11)

--inner join

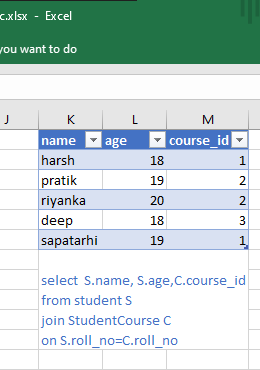
--returns all common rows that satisfy S.roll\_no=C.roll\_no

select C.course\_id, S.name, S.age

from student S

join StudentCourse C

on S.roll\_no=C.roll\_no



--left join

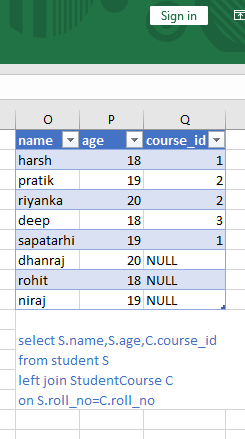
--returns all common rows that satisfy S.roll\_no=C.roll\_no plus remaining rows from left table (student table)

select C.course\_id, S.name, S.age

from student S

left join StudentCourse C

on S.roll\_no=C.roll\_no



--right join

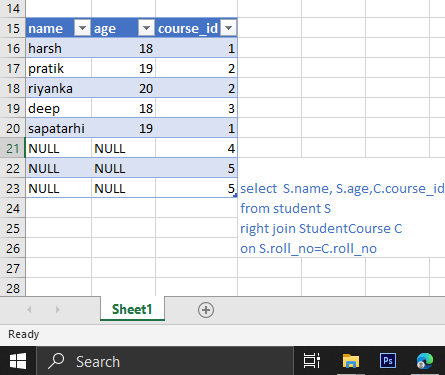
--returns all common rows that satisfy S.roll\_no=C.roll\_no plus remaining rows from right table (StudentCourse table)

select C.course\_id, S.name, S.age

from student S

right join StudentCourse C

on S.roll\_no=C.roll\_no



--full join or full outer join

--returns all common rows that satisfy S.roll\_no=C.roll\_no plus remaining rows from right table (StudentCourse table)

select C.course\_id, S.name, S.age

from student S

full join StudentCourse C

on S.roll\_no=C.roll\_no

