DBMS

# **Join Operations**

create table employee(

Emp\_ID int ,

Emp\_Name varchar(25) not null,

Emp\_No varchar(10) not null

);

alter table employee add primary key(Emp\_ID) ;

alter table employee add unique key(Emp\_No) ;

INSERT INTO employee VALUES (101, 'Ashish Kaktan', '9450425345');

INSERT INTO employee VALUES (102, 'Raj Choudhary', 8462309621);

INSERT INTO employee VALUES (103, 'Vivek Oberoi', 7512309034);

INSERT INTO employee VALUES (104, 'Shantanu Khandelwal', 9020330023);

INSERT INTO employee VALUES (105, 'Khanak Desai', 8451004522);

create table Employment(

Emp\_ID int ,

Emp\_Profile varchar(25),

Emp\_Country varchar(30),

Emp\_Join\_Date date not null,

primary key(Emp\_ID)

);

INSERT INTO Employment (Emp\_ID, Emp\_Profile, Emp\_Country, Emp\_Join\_Date) VALUES

(101, 'Content Writer', 'Germany', '2021-04-20'),

(104, 'Data Analyst', 'India', '2022-12-11'),

(105, 'Software Engineer', 'India', '2022-01-03'),

(108, 'Development Executive', 'Europe', '2023-02-15'),

(109, 'Marketing Manager', 'Mexico', '2020-05-23');

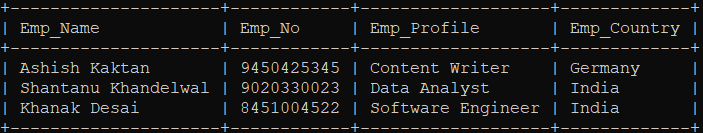
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## join these two tables together using a SELECT statement

\*/

select Emp\_Name,Emp\_No, Emp\_Profile, Emp\_Country from employee, employment where employee.Emp\_ID=employment.Emp\_ID;

[O/P]:



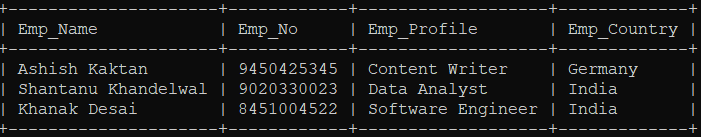
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## perform INNER JOIN on these two tables using a SELECT statement

\*/

select Emp\_Name,Emp\_No, Emp\_Profile, Emp\_Country from employee inner join employment on employee.Emp\_ID=employment.Emp\_ID;

[O/P]:



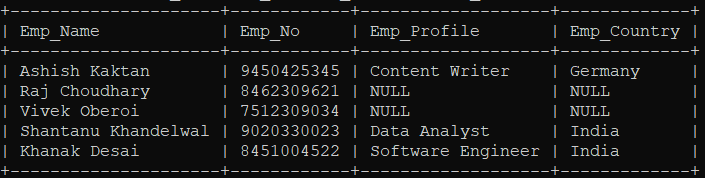
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## perform LEFT JOIN on these two tables using a SELECT statement

\*/

select Emp\_Name,Emp\_No, Emp\_Profile, Emp\_Country from employee left join employment on employee.Emp\_ID=employment.Emp\_ID;

[O/P]:



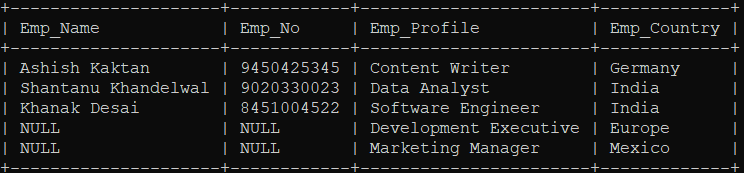
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## perform RIGHT JOIN on these two tables using a SELECT statement

\*/

select Emp\_Name,Emp\_No, Emp\_Profile, Emp\_Country from employee right join employment on employee.Emp\_ID=employment.Emp\_ID;

[O/P]:



create table employee(

Emp\_ID int ,

Emp\_Name varchar(25) not null,

Emp\_No varchar(10) not null

);

alter table employee add primary key(Emp\_ID) ;

alter table employee add unique key(Emp\_No) ;

INSERT INTO employee VALUES (101, 'Ashish Kaktan', '9450425345');

INSERT INTO employee VALUES (102, 'Raj Choudhary', 8462309621);

INSERT INTO employee VALUES (103, 'Vivek Oberoi', 7512309034);

INSERT INTO employee VALUES (104, 'Shantanu Khandelwal', 9020330023);

INSERT INTO employee VALUES (105, 'Khanak Desai', 8451004522);

CREATE TABLE Employment (

Emp\_ID int,

Emp\_Profile varchar(255),

Emp\_Email varchar(255),

primary key(Emp\_ID)

);

INSERT INTO Employment (Emp\_ID, Emp\_Profile, Emp\_Email) VALUES

(101, 'Content Writer', 'ashish@scaler.com'),

(104, 'Data Analyst', 'shantanu@scaler.com'),

(105, 'Software Engineer', 'khanak@scaler.com'),

(109, 'Development Executive', 'akshay@scaler.com'),

(108, 'Marketing Manager', 'nikita@scaler.com');

CREATE TABLE EmpDetail (

Emp\_Country VARCHAR(255),

Emp\_Email VARCHAR(255) ,

Emp\_JoinDate DATE,

primary key(Emp\_Email)

);

INSERT INTO EmpDetail (Emp\_Country, Emp\_Email, Emp\_JoinDate) VALUES

('Germany', 'ashish@scaler.com', '2021-04-20'),

('India', 'shantanu@scaler.com', '2022-12-11'),

('India', 'khanak@scaler.com', '2022-01-03'),

('Europe', 'akshay@scaler.com', '2023-02-15'),

('Mexico', 'nikita@scaler.com', '2020-05-23');

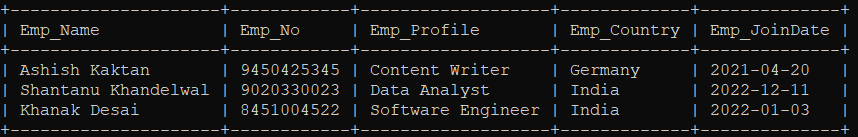
/\*

## join three tables

\*/

select e.Emp\_Name, e.Emp\_No, m.Emp\_Profile, d.Emp\_Country, d.Emp\_JoinDate from employee e inner join employment m on e.Emp\_ID = m.Emp\_ID inner join EmpDetail d on m.Emp\_Email = d.Emp\_Email;

[O/P]:



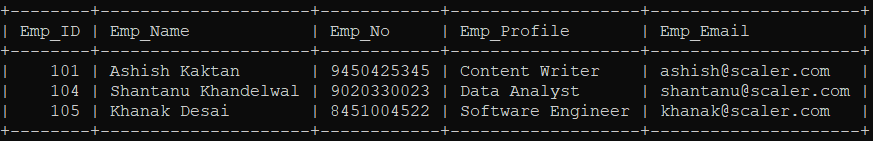
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## Natural join

\*/

select \* from employee natural join employment;

[O/P]:



# Create Student table with the fields(rollno,sname,semail,saddress,gender) apply all possible constraints on Student table

create table Student (

rollno int,

sname varchar(25) not null,

semail varchar(255) not null,

saddress varchar(255) not null,

gender varchar(20) not null,

primary key(rollno)) ;

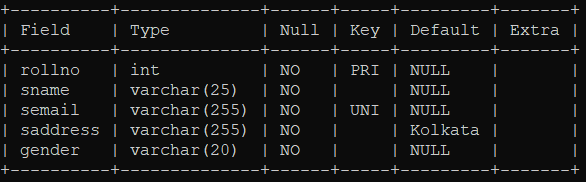
alter table Student add constraint UC\_Student unique(semail);

alter table Student alter saddress set default 'Kolkata';

alter table Student add constraint chk\_constraint check(gender in('F','M'));

desc Student;

[O/P]:



insert into student(rollno,sname,semail,gender) values(1,'shr','shr@shr.com','Female');

[O/P]:



insert into student(rollno,sname,semail,gender) values(1,'shr','shr@shr.com','F');

[O/P]:



select \* from student;

[O/P]:

