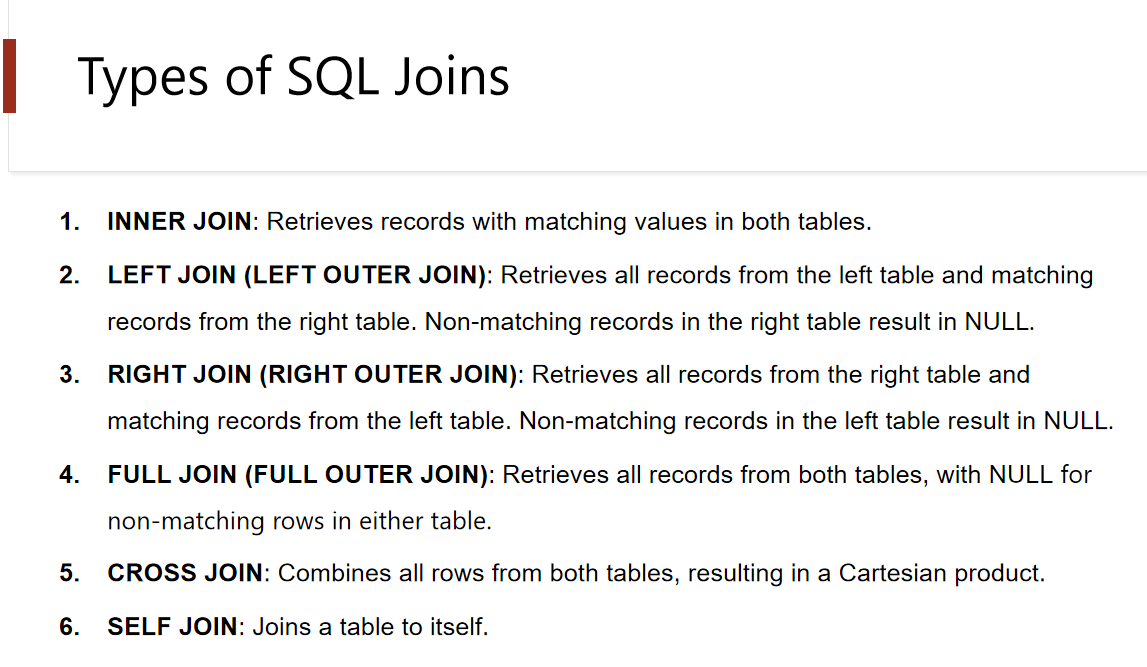
SQL Learning



Nithish Gowda

Types of joins in SQL  
  


Create tables for the joins session 1 :

-- Create Employees Table

CREATE TABLE Employees3 (

employee\_id SERIAL PRIMARY KEY,

first\_name VARCHAR(50),

last\_name VARCHAR(50),

department\_id INT

);

-- Insert Data into Employees

INSERT INTO Employees3 (first\_name, last\_name, department\_id)

VALUES

('Rahul', 'Sharma', 101),

('Priya', 'Mehta', 102),

('Ankit', 'Verma', 103),

('Simran', 'Kaur', NULL),

('Aman', 'Singh', 101);

SELECT \* FROM employees3;

-- Create Departments Table

CREATE TABLE Departments (

department\_id INT PRIMARY KEY,

department\_name VARCHAR(50)

);

-- Insert Data into Departments

INSERT INTO Departments (department\_id, department\_name)

VALUES

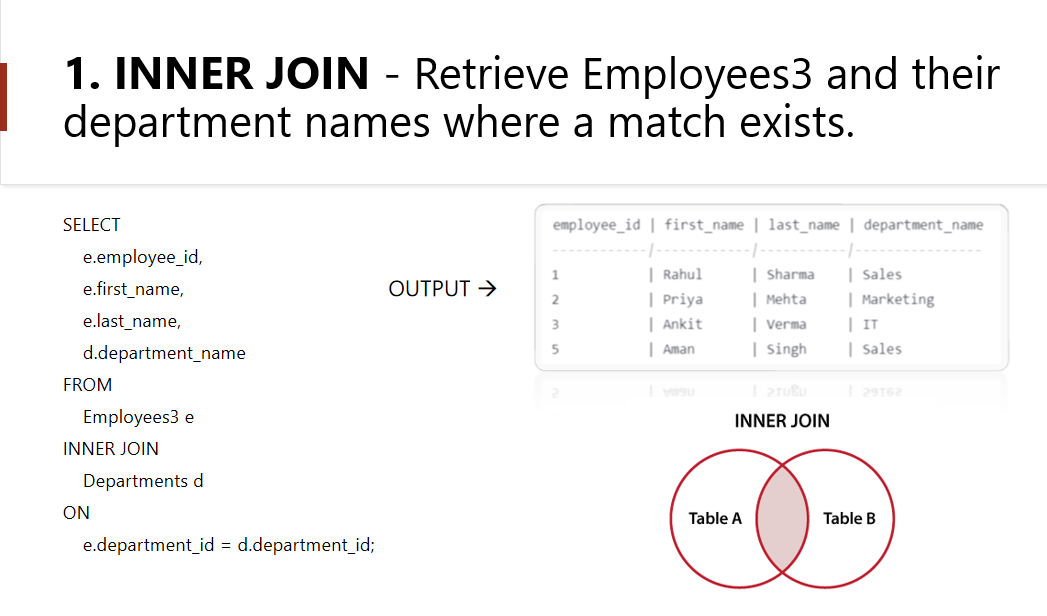
(101, 'Sales'),

(102, 'Marketing'),

(103, 'IT'),

(104, 'HR');

SELECT \* FROM Departments;



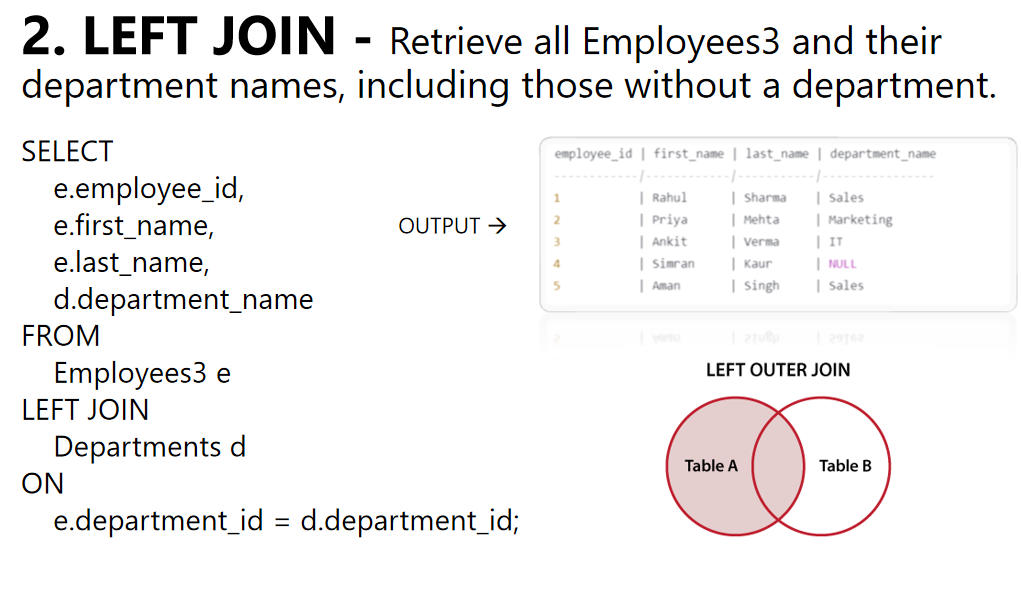
select e.employee\_id, e.first\_name , e.last\_name,

d.department\_id, d.department\_name

from employees3 e

inner join departments d on

e.department\_id=d.department\_id;



---left join----

select e.employee\_id, e.first\_name , e.last\_name,

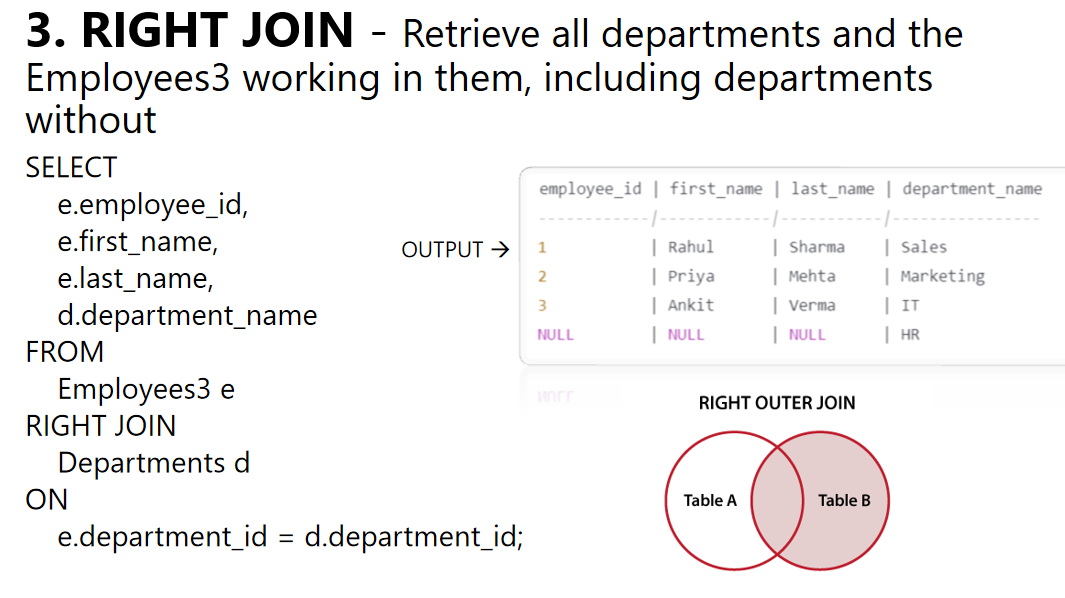
d.department\_id, d.department\_name

from employees3 e

left join departments d on

e.department\_id=d.department\_id;

Note: In some databases LEFT JOIN is called LEFT OUTER JOIN.



---right join----

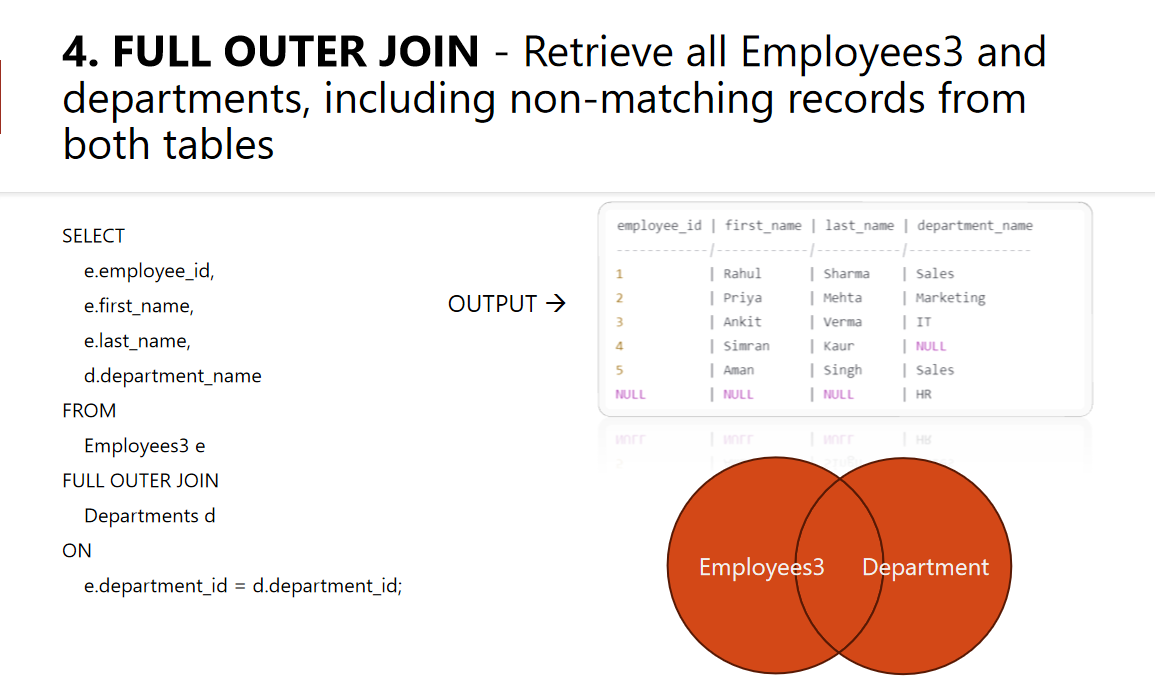
select e.employee\_id, e.first\_name , e.last\_name,

d.department\_id, d.department\_name

from employees3 e

right join departments d on

e.department\_id=d.department\_id;



---full outer join---

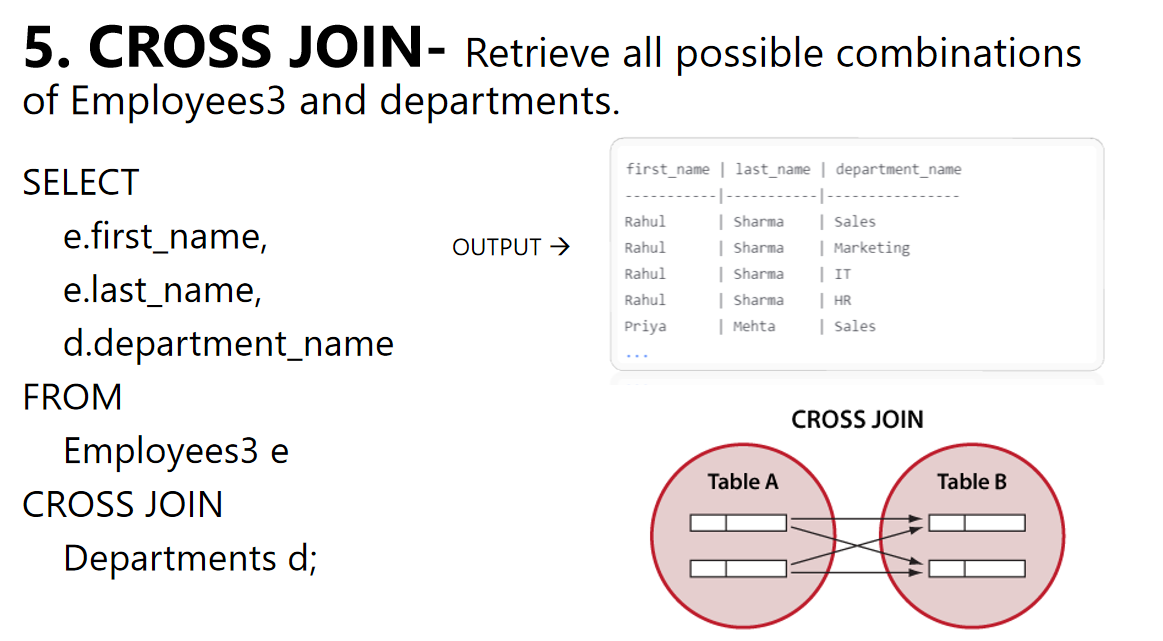
select e.employee\_id,e.first\_name, e.last\_name,

d.department\_id,d.department\_name

from employees3 e

full outer join departments d on

e.department\_id=d.department\_id;



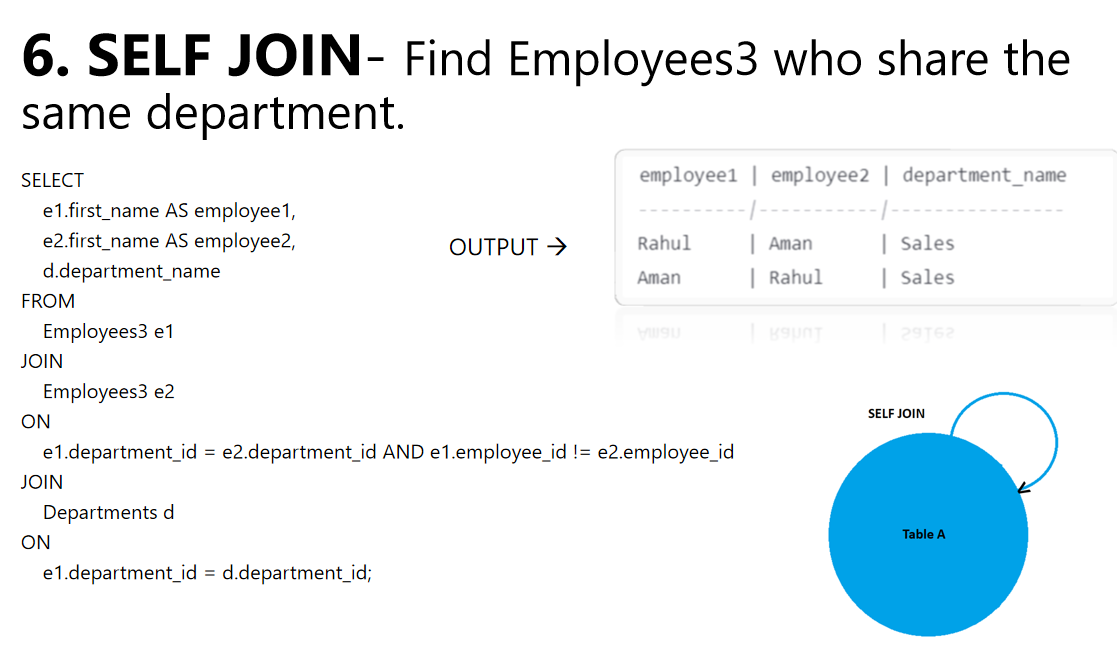
--cross join ---

select e.first\_name,e.last\_name ,

d.department\_name

from employees3 e

cross join departments d;



---self join---

select e1.first\_name as employee\_name1,

e2.first\_name as employee\_name2,

d.department\_name as department\_1

from employees3 e1 join employees3 e2

on e1.department\_id=e2.department\_id and e1.employee\_id != e2.employee\_id

join departments d

on e1.department\_id = d.department\_id;