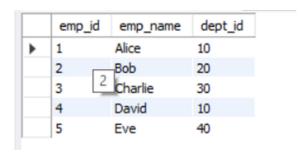
---- SUNEET PAUL SINGH ----

---- ASSIGMENT 5 ----

use collage;

select * from employees;



select * from department;

	dept_id	dept_name
•	10	HR
	20	Finance
	30	IT
	40	Admin
	50	Marketing

select * from project;

	proj_id	emp_id	proj_name
•	101	1	Alpha
	102	2	Beta
	103	3	Gamma
	104	4	Delta

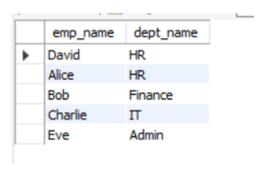
#1. Write a query to get Employee and Department details using join.

select emp_name ,dept_name

from employees e

join department d

on e.dept_id = d.dept_id;



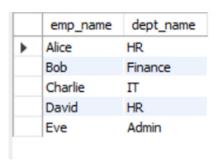
#2. Write a query to retrieve all employees with their departments, even if the department is missing.

select emp_name ,dept_name

from employees e

left join department d

on e.dept_id = d.dept_id;



#3. Write a query to get department details even if there are no employees in that department.

select dept_name , emp_name

from department d

left join employees e

on e.dept_id = d.dept_id;



#4. Write a query to get all employees and departments, whether matched or not.

select emp_id , emp_name , d.dept_id , dept_name

from employees e

right join department d

on e.dept_id = d.dept_id;

	emp_id	emp_name	dept_id	dept_name
•	4	David	10	HR
	1	Alice	10	HR
	2	Bob	20	Finance
	3	Charlie	30	IT
	5	Eve	40	Admin
	NULL	NULL	50	Marketing

#5. JOIN three tables (Employees, Departments, Projects) to get employee, department, and project information.

select *

from employees e

join department d

on e.dept_id= d.dept_id

join project p

on e.emp_id= p.emp_id;

	emp_id	emp_name	dept_id	dept_id	dept_name	proj_id	emp_id	proj_name
>	1	Alice	10	10	HR	101	1	Alpha
	2	Bob	20	20	Finance	102	2	Beta
	3	Charlie	30	30	IT	103	3	Gamma
	4	David	10	10	HR	104	4	Delta

#6. Find employees who are not assigned to any projects.

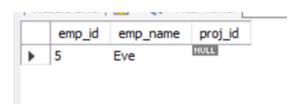
select e.emp_id , emp_name , proj_id

from employees e

left join project p

on e.emp_id= p.emp_id

where p.proj_id is null;



#7. Find departments with no employees using a RIGHT JOIN.

select d.dept_id , dept_name , emp_id , emp_name

from employees e

right join department d

on e.dept_id = d.dept_id

where e.dept_id is null;



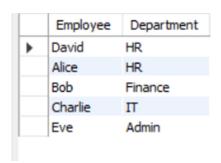
#8. Write a query to get Employee and Department details using join with aliases.

select emp_name as Employee , dept_name as Department

from employees e

join department d

on e.dept_id = d.dept_id;



#9. Write a query to find employees in the same department as other employees.

#10. Write a query to find projects managed by employees in the 'IT' department.

select emp_name , proj_name

from employees e

join project p

on e.emp_id = p.emp_id

join department d

on e.dept_id = d.dept_id

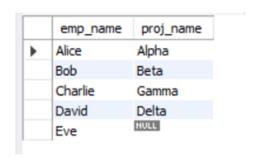
where dept_name = 'IT';

emp_name proj_name

Charlie Gamma

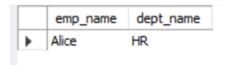
#11. Write a query to show employees and their project information (even if not assigned to a project).

select emp_name , proj_name
from employees e
left join project p
on e.emp_id = p.emp_id;



#12. Find employees who work in departments with names starting with 'A'.

select emp_name , dept_name
from employees e
join department d
on e.dept_id = d.dept_id
where emp_name like "A%";



#13. Find the total number of employees in each department using GROUP BY and JOIN.

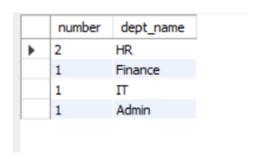
select count(emp_id) as number , dept_name

from employees e

left join department d

on e.dept_id = d.dept_id

group by d.dept_name ;



#14. Get the list of departments with more than one employee.

select count(emp_id) , dept_name

from employees e

left join department d

on e.dept_id = d.dept_id

group by d.dept_name having count(emp_id) >1;

