create database file;

use file;

create table e(

emp\_id int,

emp\_name varchar(100),

dept\_id int);

create table d(

dept\_id int,

dept\_name varchar(100));

create table p(

project\_id int,

emp\_id int,

project\_name varchar(100));

insert into e(emp\_id,emp\_name,dept\_id)

values

(1,"Alice",10),

(2,"bob",20),

(3,"Charlie",30),

(4,"David",10),

(5,"Eve",40);

insert into d(dept\_id,dept\_name)

values

(10,"Hr"),

(20,"Finance"),

(30,"It"),

(40,"Admin"),

(50,"Marketing");

insert into p(project\_id,emp\_id,project\_name)

values

(101,1,"alpha"),

(102,2,"beta"),

(103,3,"gamma"),

(104,4,"delta");

select \* from e;

select \* from d;

select \* from p;

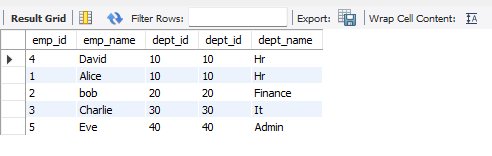
/\*Write a query to get Employee and Department details using join.\*/

select \*

from e

inner join d

on e.dept\_id=d.dept\_id;



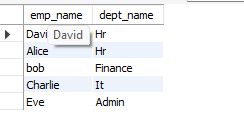
/\*Write a query to retrieve all employees with their departments, even if the department is missing.\*/

select emp\_name,dept\_name

from e

inner join d

on e.dept\_id=d.dept\_id;



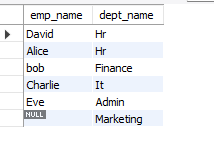
/\*Write a query to get department details even if there are no employees in that department.\*/

select emp\_name,dept\_name

from e

right join d

on e.dept\_id=d.dept\_id;



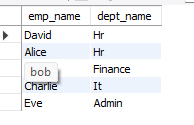
/\*Write a query to get all employees and departments, whether matched or not. \*/

select emp\_name,dept\_name

from e

inner join d

on e.dept\_id=d.dept\_id;



/\*JOIN three tables (Employees, Departments, Projects) to get employee, department, and project information.\*/

select \*

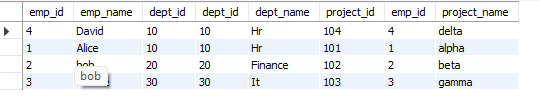
from e

inner join d

on e.dept\_id=d.dept\_id

join p

on p.emp\_id=e.emp\_id;



/\*Find departments with no employees using a RIGHT JOIN.\*/

select emp\_name ,dept\_name

from e

right join d

on e.dept\_id=d.dept\_id

where emp\_name is null;



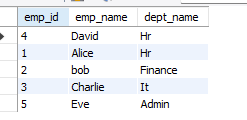
/\*Write a query to get Employee and Department details using join with aliases.\*/

select emp\_id,emp\_name,dept\_name

from e

inner join d

on e.dept\_id=d.dept\_id;



/\*Write a query to find employees in the same department as other employees.\*/

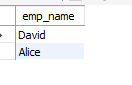
select e1.emp\_name

from e e1

join e e2

on e1.dept\_id = e2.dept\_id

where e1.emp\_name != e2.emp\_name;



/\*Write a query to find projects managed by employees in the 'IT' department.\*/

select emp\_name , dept\_name , project\_name

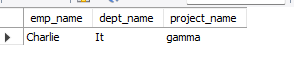
from d d

right join e e

on d.dept\_id = e.dept\_id

right join p p

on e.emp\_id = p.emp\_id where dept\_name = "It" ;



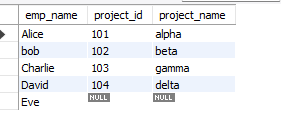
/\*Write a query to show employees and their project information (even if not assigned to a project).\*/

select emp\_name , project\_id , project\_name

from e

left join p

on e.emp\_id= p.emp\_id ;



/\*Find employees who work in departments with names starting with 'A'.\*/

select emp\_name , dept\_name

from e

left join d

on e.dept\_id = d.dept\_id

where emp\_name LIKE "A%";



/\*Find the total number of employees in each department using GROUP BY and JOIN. \*/

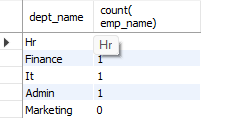
select dept\_name, count( emp\_name)

from e

right join d

on e.dept\_id = d.dept\_id

group by dept\_name;



/\*Get the list of departments with more than one employee. \*/

select dept\_name , count(emp\_name) as "no. of employees "

from e

right join d

on e.dept\_id = d.dept\_id

group by dept\_name having count(emp\_name)>1;