create database details;

use details;

create table employee(emp\_id int primary key auto\_increment, name varchar(50), department\_id int );

insert into employee values(1, 'ravi', 101);

insert into employee values(2, 'priya', 102);

insert into employee values(3, 'karan', 101);

insert into employee values(4, 'anjali', 103);

insert into employee values(5, 'mmanish', NULL);

select \* from employee;

use details;

create table department(dept\_id int primary key, dept\_name varchar(50));

insert into department values(101, 'IT');

insert into department values(102, 'HR');

insert into department values(103, 'Finance');

insert into department values(104, 'Marketing');

select \* from department;

SELECT e.emp\_id, e.name, d.dept\_name FROM employee e INNER JOIN department d ON e.department\_id = d.dept\_id WHERE d.dept\_name = 'IT';

SELECT d.dept\_id, d.dept\_name FROM department d LEFT JOIN employee e ON d.dept\_id = e.department\_id WHERE e.emp\_id IS NULL;

SELECT e.name AS Employee\_Name, d.dept\_name AS Department\_Name FROM employee e CROSS JOIN department d;

SELECT e.emp\_id, e.name AS employee\_name, e.department\_id, d.dept\_name FROM employee e LEFT JOIN department d ON e.department\_id = d.dept\_id

UNION

SELECT e.emp\_id, e.name AS employee\_name, e.department\_id, d.dept\_name FROM employee e RIGHT JOIN department d ON e.department\_id = d.dept\_id;

SELECT e.emp\_id, e.name AS employee\_name, e.department\_id FROM employee e LEFT JOIN department d ON e.department\_id = d.dept\_id WHERE d.dept\_id IS NULL;