```
drop database if exists company;
     create database company;
     use company;
     create table if not exists Employee(
        ssn varchar(35) primary key,
        name varchar(35) not null,
        address varchar(255) not null,
        sex varchar(7) not null,
        salary int not null,
        super ssn varchar(35),
        d no int,
        foreign key (super ssn) references Employee(ssn) on delete set null
        );
     create table if not exists Department(
        d no int primary key,
        dname varchar(100) not null,
        mgr ssn varchar(35),
        mgr start date date,
        foreign key (mgr ssn) references Employee(ssn) on delete cascade
        );
     create table if not exists DLocation(
        d no int not null.
        d loc varchar(100) not null,
        foreign key (d no) references Department(d no) on delete cascade
        );
     create table if not exists Project(
        p no int primary key,
        p name varchar(25) not null,
        p loc varchar(25) not null,
        d no int not null,
        foreign key (d no) references Department(d no) on delete cascade
        );
     create table if not exists WorksOn(
        ssn varchar(35) not null,
        p no int not null,
        hours int not null default 0,
        foreign key (ssn) references Employee(ssn) on delete cascade,
        foreign key (p no) references Project(p no) on delete cascade
        );
INSERT INTO Employee VALUES
   ("01NB235", "Chandan_Krishna", "Siddartha Nagar, Mysuru", "Male", 1500000, "01NB235", 5),
   ("01NB354", "Employee_2", "Lakshmipuram, Mysuru", "Female", 1200000,"01NB235", 2),
   ("02NB254", "Employee 3", "Pune, Maharashtra", "Male", 1000000, "01NB235", 4),
```

```
("03NB653", "Employee 4", "Hyderabad, Telangana", "Male", 2500000, "01NB354", 5),
        ("04NB234", "Employee 5", "JP Nagar, Bengaluru", "Female", 1700000, "01NB354", 1);
          INSERT INTO Department VALUES
             (001, "Human Resources", "01NB235", "2020-10-21"),
             (002, "Quality Assessment", "03NB653", "2020-10-19"),
             (003,"System assesment","04NB234","2020-10-27"),
             (005,"Production","02NB254","2020-08-16"),
             (004,"Accounts","01NB354","2020-09-4");
          INSERT INTO DLocation VALUES
             (001, "Jaynagar, Bengaluru"),
             (002, "Vijaynagar, Mysuru"),
             (003, "Chennai, Tamil Nadu"),
             (004, "Mumbai, Maharashtra").
             (005, "Kuvempunagar, Mysuru");
          INSERT INTO Project VALUES
             (241563, "System Testing", "Mumbai, Maharashtra", 004),
             (532678, "IOT", "JP Nagar, Bengaluru", 001),
             (453723, "Product Optimization", "Hyderabad, Telangana", 005),
             (278345, "Yeild Increase", "Kuvempunagar, Mysuru", 005),
             (426784, "Product Refinement", "Saraswatipuram, Mysuru", 002);
          INSERT INTO WorksOn VALUES
             ("01NB235", 278345, 5),
             ("01NB354", 426784, 6),
             ("04NB234", 532678, 3),
             ("02NB254", 241563, 3),
             ("03NB653", 453723, 6);
          SELECT * FROM Department;
           1 | Human Resources | 01NB235 | 2020-10-21 |
               2 | Quality Assesment | 03NB653 | 2020-10-19
               3 | System assesment | 04NB234 | 2020-10-27
           +----+
SELECT * FROM Employee;
ssn | name | address | sex | salary | super ssn | d no |
+-----+
| 01NB235 | Chandan_Krishna | Siddartha Nagar, Mysuru | Male | 1500000 | 01NB235 | 5 | 01NB354 | Employee_2 | Lakshmipuram, Mysuru | Female | 1200000 | 01NB235 | 2 | 02NB254 | Employee_3 | Pune, Maharashtra | Male | 1000000 | 01NB235 | 4 | 03NB653 | Employee_4 | Hyderabad, Telangana | Male | 2500000 | 01NB354 | 5 | 04NB234 | Employee_5 | JP Nagar, Bengaluru | Female | 1700000 | 01NB354 | 1 |
```


p_no p_name p_loc d_no ++ 241563 System Testing Mumbai, Maharashtra 4 278345 Yeild Increase Kuvempunagar, Mysuru 5 426784 Product Refinement Saraswatipuram, Mysuru 2 453723 Product Optimization Hyderabad, Telangana 5 532678 IOT JP Nagar, Bengaluru 1	-			+	+	_
278345 Yeild Increase Kuvempunagar, Mysuru 5 426784 Product Refinement Saraswatipuram, Mysuru 2 453723 Product Optimization Hyderabad, Telangana 5		 p_no	 p_name	 p_loc	 d_no 	
	-	278345 426784 453723	Yeild Increase Product Refinement Product Optimization	Kuvempunagar, Mysuru Saraswatipuram, Mysuru Hyderabad, Telangana	5 2	İ

SELECT * FROM WorksOn;

+-		+-		-+-		-+
	ssn		p_no		hours	
Τ-		т-		т-		
	01NB235		278345		5	
	01NB354		426784		6	
1	04NB234	Ι	532678	1	3	1
İ	02NB254	İ	241563	İ	3	İ
	03NB653		453723	Ī	6	İ
+-		+-		+-		-+

-- Make a list of all project numbers for projects that involve an employee whose last name is 'Scott', either as a worker or as a manager of the department that controls the project.

select p_no,p_name,name from Project p, Employee e where p.d_no=e.d_no and e.name like "%Krishna";

p_no	+ p_name +	name
	Yeild Increase Product Optimization	Chandan_Krishna Chandan_Krishna

-- Show the resulting salaries if every employee working on the 'IoT' project is given a 10 percent raise.

select w.ssn,name,salary as old_salary,salary*1.1 as new_salary from WorksOn w join Employee e

where w.ssn=e.ssn and w.p no=(select p no from Project where p name="IOT");

	 name			new_salary	
'	Employee_5	1			İ

-- Find the sum of the salaries of all employees of the 'Accounts' department, as well as the maximum salary, the minimum salary, and the average salary in this department.

select sum(salary) as sal_sum, max(salary) as sal_max,min(salary) as sal_min,avg(salary) as sal_avg

from Employee e join Department d on e.d no=d.d no where d.dname="Accounts";

-- Retrieve the name of each employee who works on all the projects controlled by department number 1 (use NOT EXISTS operator).

select Employee.ssn,name,d_no from Employee where not exists (select p_no from Project p where p.d_no=1 and p_no not in (select p_no from WorksOn w where w.ssn=Employee.ssn));

-- For each department that has more than one employees, retrieve the department number and the number of its employees who are making more than Rs. 6,00,000.

select d.d_no, count(*) from Department d join Employee e on e.d_no=d.d_no where salary>600000

group by d.d no having count(*) > 1;

```
+----+
| d_no | count(*) |
+----+
| 5 | 2 |
```

-- Create a view that shows name, dept name and location of all employees

create view emp_details as

select name,dname,d_loc from Employee e join Department d on e.d_no=d.d_no join DLocation dl on

d.d no=dl.d no;

select * from emp_details;

1	· Helli ellip_acta	1	
na		dname	d_loc
En	nandan_Krishna nployee_2 nployee_3 nployee_4 nployee_5		Kuvempunagar, Mysuru Vijaynagar, Mysuru Mumbai, Maharashtra Kuvempunagar, Mysuru Jaynagar, Bengaluru

-- Create a trigger that prevents a project from being deleted if it is currently being worked by any employee.

DELIMITER //
create trigger PreventDelete
before delete on Project
for each row
BEGIN
IF EXISTS (select * from WorksOn where p_no=old.p_no) THEN
signal sqlstate '45000' set message_text='This project has an employee assigned';
END IF;
END; //
DELIMITER;
delete from Project where p_no=241563;

ERROR 1644 (45000): This project has an employee assigned