1. create database class;
2. use class;
3. create table employees(Emp\_no int not null auto\_increment, Emp\_name varchar(50) not null, dept\_no varchar(10) not null, hire\_Date date not null, emp\_sal decimal(9,2) not null, primary key(Emp\_no));
4. create table department(dept\_no varchar(10) not null unique, dept\_name varchar(20) not null, primary key(dept\_no));
5. alter table employess by adding foreign key to dept\_no references department (dept\_no) use on delete cascade;
6. create table dept\_manager(dept\_no varchar(10) not null, Emp\_no int not null unique, from\_date date not null, to\_date date not null, primary key(dept\_no, emp\_no), constraint dept\_manager\_fk\_employees foreign key(Emp\_no) references employees(Emp\_no) on delete cascade, constraint dept\_manager\_fk\_department foreign key(dept\_no) references department(dept\_no) on delete cascade );
7. insert into department values('d001','finance'),('d002','marketing'),('d003','IT');
8. insert into employees values(1, 'peter', 'd001', '19920101', 5000),(2,'Johnson', 'd001', '19930101', 6000), (3,'Anderson', 'd003', '19920703', 2000), (4, 'stephen', 'd002', '20000405', 3000);
9. insert into employees values(5, 'George', 'd002', '20040131', 3000), (6, 'Clerk', 'd003', '20010112', 4000), (7,'Ben', 'd001', '20000101', 6000), (8, 'Alex', 'd002', '19900913', 3000), (9, 'henry', 'd003', '19911010', 4000);
10. insert into dept\_manager values('d001', 4, '20010101','20031231'), ('d001', 9, '19950101', '20001203'), ('d002', 1, '19930101', '20001208'), ('d002', 8, '19951003', '20041231');
11. select \*from employees;
12. select \* from department;
13. select \* from dept\_manager;
14. select all coloums from employees and join with departments where dept\_name=marketing
15. select dept\_name,dept\_no from departments where department.dept\_no not in(select dept\_manager.dept\_no from dept\_manager);
16. select all columns from employees and display maximum of emp\_sal from employess using where condition and sub-query
17. select emp\_name.dept\_no,hire\_date from employees and where month 0f hire\_date is 6;
18. select dept\_name from depatments, emp\_name from employees join these two table by using dept\_manager and use right outer join condition to join department table
19. select round(avg(E.emp\_sal),2) as avg\_sal , department.dept\_name

from employees E

join department

on department.dept\_no = E.dept\_no

group by dept\_name

order by avg\_sal desc;

1. select E.emp\_name

from employees E

join dept\_manager DM

on E.emp\_no = DM.emp\_no

where E.dept\_no = (select E.dept\_no from employees E where E.emp\_name = 'George');

1. select all coloumns from employees where dept\_no=1
2. select all columns from employees and order by emp\_sal desc use limit 2
3. select emp\_name,hire\_date from employees where hire\_date month is 1
4. drop foreign key from employees
5. drop foreign key from dept\_manager of employees
6. drop foreign key from dept\_manager of departments
7. truncate employees
8. truncate departments
9. truncate dept\_manager
10. drop all 3 tables
11. drop database
12. show databases