```sql
create table dept1(
    deptid int primary key,
    deptname varchar(10)
    );


create table emp1(
    empid int primary key,
    empname varchar(10),
    empsal int,
    empdeptid int,
    foreign key (empdeptid) references dept(deptid)
    );


insert into dept1(deptid,deptname)
values(10, 'hr');


insert into dept1(deptid,deptname)
values(20, 'finance');


insert into dept1(deptid,deptname)
values(30, 'IT');


insert into dept1(deptid,deptname)
values(40, 'sales');


insert into emp1(empid,empname,empsal,empdeptid)
values(1, 'John', 25000, 30);


insert into emp1(empid,empname,empsal,empdeptid)
values(2, 'Alice', 35000, 40);


insert into emp1(empid,empname,empsal,empdeptid)
values(3, 'Bob', 22000, 10);


insert into emp1(empid,empname,empsal,empdeptid)
values(4, 'Charlie', 28000, 30);


insert into emp1(empid,empname,empsal,empdeptid)
```

```sql
values(5, 'David', 20000, 20);


select * from dept1;

select * from emp1;


select *
from emp1
where empdeptid in (30,40,10);


select *
from emp1
where empsal between 10000 and 30000;


select count(*) as total_employees
from emp1;


select empdeptid, avg(empsal) as avg_salary
from emp1
group by empdeptid;


select *
from emp1
order by empsal asc;
```