

```
create table S (  
    sno char(6) primary key,  
    sname char(10),  
    status smallint,  
    city char(10)  
);
```

```
create table J (  
    jno char(6) primary key,  
    jname char(10),  
    city char(10)  
);
```



```
create table P (  
    pno char(6) primary key,  
    pname char(10),  
    color char(2),  
    weight smallint  
);  
  
create table SPJ (  
    sno char(6),  
    pno char(6),  
    jno char(6),  
    qty smallint,  
    primary key (sno, pno, jno),  
    foreign key (sno) references S(sno),  
    foreign key (pno) references P(pno),  
    foreign key (jno) references J(jno)  
);
```



求供应商J1零件的供应商号码SNO

```
select distinct sno  
from SPJ  
where jno = 'J1';
```

求供应商J1零件P1的供应商号码SNO。

```
select sno  
from SPJ  
where jno = 'J1' and pno = 'P1';
```




求供应商J1零件为红色的供应商号码SNO。

```
select sno  
from SPJ, P  
where SPJ.pno = P.pno and color = '红' and jno = 'J1';
```

求没有使用天津供应商生产的红色零件的工程号JNO。

```
select distinct jno  
from SPJ  
where jno not in (  
    select jno  
    from SPJ, S, P  
    where city = '天津' and color = '红' and SPJ.pno =  
P.pno and SPJ.sno = S.sno  
);
```



求至少用了供应商**S1**所供应的全部零件的工程号**JNO**。

SQL语句:

```
select distinct jno
```

```
from SPJ SPJ1
```

```
where not exists (
```

```
    select *
```

```
    from SPJ SPJ2
```

```
    where SPJ2.sno = 'S1' and
```

```
        not exists (
```

```
            select *
```

```
            from SPJ SPJ3
```

```
        where SPJ1.jno = SPJ3.jno and SPJ2.pno = SPJ3.pno
```

```
        and SPJ3.sno = 'S1'
```

```
    ))
```



找出所有供应商的姓名和所在城市

```
select distinct sname, city  
from S;
```

找出所有零件的名称，颜色，重量。

```
select pname, color, weight  
from P;
```

找出使用供应商S1所供应零件的工程号。

```
select distinct jno  
from SPJ  
where sno = 'S1';
```



找出工程项目J2使用的各种零件的名称和数量。

```
select pname, qty  
from SPJ, P  
where SPJ.pno = P.pno and SPJ.jno = 'j2';
```

找出上海厂商供应的所有零件号码。

```
select pno  
from SPJ, S  
where SPJ.sno = S.sno and city = '上海';
```

找出使用上海产的零件工程名称。

```
select distinct SPJ.jno  
from SPJ, S, J  
where SPJ.sno = S.sno and SPJ.jno = J.jno and S.city  
= '上海';
```



找出没有使用天津产的零件的工程号码。

```
select distinct jno  
from SPJ, S  
where SPJ.sno not in (  
    select sno  
    from S  
    where S.city = '天津'  
);
```

把全部红色零件的颜色改为蓝色。

```
update P  
set color = '蓝' where color = '红';
```



有S5供给J4的零件P6改为由S3供应，请做必要的修改。

```
update SPJ
```

```
set sno = 'S3'
```

```
where sno = 'S5' and jno = 'J4' and pno = 'P6';
```

从供应商关系中删除S2的记录，并从供应情况关系中删除相应的记录。

```
delete from SPJ
```

```
where sno = 'S2';
```

```
delete from S
```

```
where sno = 'S2';
```



请将(S2,J6,P4,200)插入供应情况关系。

```
insert into SPJ
```

```
values ('S2', 'P4', 'J6', 200);
```



请为三建工程项目监理一个供应情况的视图，包括供应商代码（**SNO**），零件代码（**PNO**），供应商数量（**QTY**）。针对视图完成下列查询：

```
create view view1 (sno, pno, qty) as  
  select SPJ.sno, pno, qty  
  from SPJ, J  
  where SPJ.jno = J.jno and jname = '三建';
```



请为三建工程项目监理一个供应情况的视图，包括供应商代码（**SNO**），零件代码（**PNO**），供应商数量（**QTY**）。针对视图完成下列查询：

```
create view view1 (sno, pno, qty) as  
  select SPJ.sno, pno, qty  
  from SPJ, J  
  where SPJ.jno = J.jno and jname = '三建';
```



找出三建工程项目使用的各种零件代码及其数量。

```
select distinct pno, qty  
from view1;
```

找出供应商S1的供应情况。

```
select *  
from view1  
where sno = 'S1';
```



用户王明对两个表有**SELECT**权限。

```
grant select  
on 职工  
to 王明;
```

```
grant select  
on 部门  
to 王明;
```



用户李勇对两个表有**SELECT**和**DELETE**权限。

grant insert, delete

on 部门

to 李勇;

grant insert, delete

on 职工

to 李勇;



每个职工只对自己的记录有**SELECT**权限。

```
CREATEVIEW SELFINFO  
AS  
SELECT*FROM职工  
WHEREUSER_NAME()=姓名
```

```
GRANT SELECT  
ON SELFINFO  
TO PUBLIC;
```



用户刘星对职工表有**SELECT**权限，对工资字段有更新权限。

```
grant select, update(工资)  
on 职工  
to 刘星;
```



用户张新具有修改这两张表的权限。

```
grant alter  
on 职工  
to 张新;
```

```
grant alter  
on 部门  
to 张新;
```



用户周平具有对两个表的所有权限，并且可给其他用户授权的权限。

```
grant all privileges  
on 部门  
to 周平  
With grant option;
```

```
grant all privileges  
on 职工  
to 周平  
With grant option;
```



用户杨兰具有从每个部门职工中**SELECT**最高工资，最低工资，平均工资的权限，他不能查看每个人的工资。

```
CREATE VIEW 部门工资  
AS
```

```
SELECT 部门.名称,MAX(工资)最高工资,MIN(工资)最低工  
资,AVG(工资)平均工资  
FROM职工,部门  
WHERE职工.部门号=部门.部门号  
GROUPBY部门.名称;
```

```
grant select  
On 部门工资  
to 杨兰;
```



第五章

6. Create table dept
(deptno number(2),
deptname var(10),
manager var(10),
phonenumber char(12),
constraint pk primarty ke (deptno));



第五章

6.

```
create table emp
( empno number(4) primary key,
  ename var(10),
  age int,
  constraint c1 check(age<=60),
  job var(10),
  sal number(2),
  constraint fk foreign key (deptno) references
dept (deptno) );
```



第五章

8. 创建关系 female和male 略

```
create assertion party  
check ( (select count(*) from male) + (select count(*)  
      from female)<=50);
```

