```
CREATE TABLE S
(SNO CHAR(3) PRIMARY KEY,
SNAME CHAR(10),
STATUS CHAR(2),
CITY ...);
```

```
CREATE TABLE P
(PNO CHAR(3) PRIMARY KEY,
PNAME ...,
COLOR CHAR(4),
WEIGHT INT);
```

```
CREATE TABLE J
(JNO CHAR(3) PRIMARY KEY,
JNAME ...
CITY CHAR(10));
```

CREATE TABLE SPJ (SNO CHAR(3), PNO CHAR(3), JNO CHAR(3), QTY ..., PRIMARY KEY(SNO, PNO, JNO), FOREIGN KEY (SNO) REFERENCES S(SNO), FOREIGN KEY (PNO) REFERENCES P(PNO), FOREIGN KEY (JNO) REFERENCES J(...))

```
1)SELECT SNO
FROM SPJ
WHERE JNO='J1';
2)SELECT SNO
FROM SPJ
WHERE JNO='J1' AND PNO='P1';
```

```
3)SELECT SNO
 FROM SPJ
 WHERE JNO='J1'
 AND PNO IN
 (SELECT PNO
  FROM P
  WHERE COLOR='...');
```

```
3)SELECT SNO
FROM SPJ,P
WHERE SPJ.PNO=P.PNO
AND SPJ.JNO='J1'
AND P.COLOR='...';
```

```
4) SELECT JNO
   FROM J
   WHERE NOT EXISTS
   (SELECT * FROM SPJ,S,P
   WHERE J.JNO=SPJ.JNO
   AND SPJ.SNO=S.SNO
   AND S.CITY='...'
   AND SPJ.PNO=P.PNO
   AND P.COLOR='...');
```

```
4) SELECT JNO FROM J
   WHERE JNO NOT IN
   (SELECT JNO
    FROM SPJ,S,P
    WHERE SPJ.SNO=S.SNO
   AND S.CITY='...'
   AND SPJ.PNO=P.PNO
   AND P.COLOR='...');
```

```
4)SELECT JNO FROM J
 WHERE NOT EXISTS
 (SELECT * FROM SPJ
 WHERE SPJ.JNO=J.JNO
 AND SNO IN
 (SELECT SNO FROM S WHERE CITY='...')
 AND PNO IN
 (SELECT PNO FROM P WHERE
 COLOR='...' ));
注:本题也可用"差"运算的思路求解。
```

```
5)SELECT JNO
 FROM SPJ X
 WHERE NOT EXISTS
 (SELECT * FROM SPJ Y
 WHERE SNO='S1'
 AND NOT EXISTS
  (SELECT * FROM SPJ Z
  WHERE Z.PNO=Y.PNO
  AND Z.JNO=***.JNO));
```

```
5)SELECT JNO
 FROM J X
 WHERE NOT EXISTS
 (SELECT * FROM SPJ Y
 WHERE SNO='S1'
 AND NOT EXISTS
  (SELECT * FROM SPJ Z
  WHERE Z.PNO=Y.PNO
  AND Z.JNO=***.JNO));
```

```
6)SELECT JNAME
FROM J,SPJ,S
WHERE SPJ.SNO=S.SNO
AND SPJ.JNO=J.JNO
AND S.CITY='...' 城市名;
```

SELECT JNAME FROM J WHERE JNO IN (SELECT JNO FROM SPJ,S WHERE SPJ.SNO=S.SNO AND S.CITY='...' 城市名);

```
6)SELECT JNAME
  FROM J
 WHERE EXISTS
  (SELECT *
  FROM SPJ,S
  WHERE SPJ.SNO=S.SNO
  AND S.CITY='…'城市名
  AND SPJ.JNO=J.JNO);
```

```
7)SELECT JNO
 FROM J
 WHERE NOT EXISTS
 (SELECT * FROM SPJ,S
 WHERE SPJ.SNO=S.SNO
 AND S.CITY='…'城市名
 AND SPJ.JNO=J.JNO
```

```
7)SELECT JNO
  FROM J
 WHERE NOT EXISTS
  (SELECT * FROM SPJ
  WHERE SPJ.JNO=J.JNO
  AND SNO IN
   (SELECT SNO FROM S
   WHERE CITY='...'));
```

```
8)UPDATE P
 SET COLOR='蓝';
9) UPDATE SPJ
 SET SNO='S3'
 WHERE SNO='S5'
 AND JNO='J4'
 AND PNO='P6';
```

```
10)DELETE
FROM SPJ
WHERE SNO='S2';
```

DELETE
FROM S
WHERE SNO='...';

11)INSERT INTO SPJ(SNO,JNO,PNO.QTY) VALUES('S2','J6','P4',200);

INSERT INTO SPJ VALUES('S2','J6','P4',200);

```
CREATE VIEW V SPJ AS
SELECT SNO, PNO, QTY
FROM SPJ
WHERE JNO IN (
SELECT JNO
FROM J
WHERE JNAME='三建');
```

```
1)SELECT PNO,QTY
  FROM V SPJ;
或者:
  SELECT PNO, SUM(QTY)
  FROM V SPJ
  GROUP BY PNO;
2) SELECT PNO, QTY
  FROM V SPJ
 WHERE SNO='…';供应商号
```