

### 第三章 第2次作业

```
CREATE TABLE S  
( SNO CHAR(2) PRIMARY KEY,  
  SNAME CHAR(20),  
  STATUS CHAR(2),  
  CITY CHAR(10)  
);
```

```
CREATE TABLE P  
( PNO CHAR(2) PRIMARY KEY,  
  PNAME CHAR(20),  
  COLOR CHAR(10),  
  WEIGHT INT  
);
```

```
CREATE TABLE J  
( JNO CHAR(2) PRIMARY KEY,  
  JNAME CHAR(10),  
  CITY CHAR(10)  
);
```

```
CREATE TABLE SPJ  
( SNO CHAR(2),  
  PNO CHAR(2),  
  JNO CHAR(2), QTY INT,  
  PRIMARY KEY (SNO, PNO, JNO),  
  FOREIGN KEY (SNO) REFERENCES S(SNO),  
  FOREIGN KEY (PNO) REFERENCES P(PNO),  
  FOREIGN KEY (JNO) REFERENCES J(JNO)  
);
```

INSERT INTO S VALUES ('S1', '精益', '20', '天津');

INSERT INTO S VALUES ('S2', '盛锡', '10', '北京');

INSERT INTO S VALUES ('S3', '奇红', '30', '北京');

INSERT INTO S VALUES ('S4', '鼎盛', '20', '天津');

INSERT INTO S VALUES ('S5', '为民', '30', '上海');

INSERT INTO P VALUES ('P1', '螺母', '红', 12), ('P2', '螺栓', '绿', 17),

('P3', '螺丝刀', '蓝', 14), ('P4', '螺丝刀', '红', 14), ('P5', '凸轮', '蓝', 40),

('P6', '齿轮', '红', 30);

INSERT INTO J VALUES ('J1', '三建', '北京'), ('J2', '一汽', '长春'),

('J3', '弹簧厂', '天津'), ('J4', '造船厂', '天津'), ('J5', '机床厂', '唐山'),

('J6', '无线电厂', '常州'), ('J7', '半导体厂', '南京');

INSERT INTO SPJ VALUES ('S1', 'P1', 'J1', 200), ('S1', 'P1', 'J3', 100),

('S1', 'P1', 'J4', 200), ('S1', 'P2', 'J2', 100), ('S2', 'P3', 'J1', 400),

('S2', 'P3', 'J2', 200), ('S2', 'P3', 'J4', 500), ('S2', 'P3', 'J5', 400),

('S2', 'P5', 'J1', 400), ('S2', 'P5', 'J2', 100), ('S3', 'P1', 'J1', 200),

('S3', 'P3', 'J1', 200), ('S4', 'P5', 'J1', 100), ('S4', 'P6', 'J3', 300),

('S4', 'P6', 'J4', 200), ('S5', 'P2', 'J4', 100), ('S5', 'P3', 'J1', 200),

('S5', 'P6', 'J2', 200), ('S5', 'P6', 'J4', 500)

~~\*) SELECT SNO FROM~~

(1) SELECT DISTINCT SNO FROM SPJ WHERE JNO='J1';

(2) SELECT DISTINCT SNO FROM SPJ WHERE JNO='J1' AND

PNO='P1';

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

(4) SELECT DISTINCT JNO FROM J WHERE NOT EXISTS

(SELECT \* FROM S, P, J, SPJ WHERE S.SNO=SPJ.SNO AND

P.PNO=SPJ.PNO AND J.JNO=SPJ.JNO AND

S.CITY='天津' AND P.COLOR='红');

INSERT INTO S VALUES ('S1', '精益', '20', '天津');  
INSERT INTO S VALUES ('S2', '盛锡', '10', '北京');

\*) SELECT JNO FROM SPJ X WHERE SNO='S1' AND  
NOT EXIST (SELECT \* FROM SPJ Y WHERE  
X.PNO=Y.PNO);