

数据库前几章部分习题

```
1  -- 第二章第六题对应的SQL操作（不唯一）
2
3  -- 1
4  SELECT DISTINCT SNO
5  FROM SPJ
6  WHERE JNO = 'J1';
7
8  -- 2
9  SELECT DISTINCT SNO
10 FROM SPJ
11 WHERE JNO = 'J1'
12     AND PNO = 'P1';
13
14 -- 3
15 SELECT SNO
16 FROM SPJ
17 WHERE JNO = 'J1'
18     AND PNO IN (
19     SELECT PNO
20     FROM P
21     WHERE COLOR = '红'
22 );
23
24 -- 4
25 SELECT DISTINCT JNO
26 FROM J
27 WHERE NOT EXISTS(
28     SELECT *
29     FROM SPJ
30     WHERE SPJ.JNO = J.JNO
31     AND SNO IN (
32     SELECT SNO
33     FROM S
34     WHERE CITY = '天津'
35     )
36     AND PNO IN (
37     SELECT PNO
38     FROM P
39     WHERE COLOR = '红'
40     )
41 );
42 -- 5
43 SELECT DISTINCT JNO
44 FROM SPJ SPJZ
45 WHERE NOT EXISTS(
46     SELECT *
47     FROM SPJ SPJX
48     WHERE SNO = 'S1'
```

```

49         AND NOT EXISTS(
50             SELECT *
51             FROM SPJ SPJY
52             WHERE SPJY.PNO = SPJX.PNO
53                 AND SPJY.JNO = SPJZ.JNO
54         )
55     );
56
57 -- T3.5 仍然是那4个表
58 -- (1)
59 SELECT SNAME, CITY
60 FROM s;
61
62 -- (2)
63 SELECT PNAME, COLOR, WEIGHT
64 FROM p;
65
66 -- (3)
67 SELECT JNO
68 FROM spj
69 WHERE sno = 'S1';
70
71 -- (4)
72 SELECT PNAME, QTY
73 FROM p,
74      spj
75 WHERE p.PNO = spj.PNO
76        AND JNO = 'J2'
77 GROUP BY p.PNO;
78
79 -- (5)
80 SELECT DISTINCT PNO
81 FROM s,
82      spj
83 WHERE s.CITY = '上海'
84        AND s.SNO = spj.SNO;
85
86 -- (6)
87 SELECT DISTINCT JNAME
88 FROM J
89 WHERE JNO IN (SELECT JNO
90                FROM S,
91                 SPJ
92                WHERE S.CITY = '上海'
93                      AND S.SNO = SPJ.SNO);
94
95 -- (7)
96 SELECT JNO
97 FROM J
98 WHERE JNO NOT IN (SELECT JNO
99                    FROM S,
100                     SPJ
101                    WHERE S.CITY = '天津'
102                          AND S.SNO = SPJ.SNO);
103 -- 或用EXISTS实现
104 SELECT JNO
105 FROM J
106 WHERE NOT EXISTS

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107     (SELECT *
108     FROM SPJ
109     WHERE SPJ.JNO = J.JNO
110     AND SNO IN (
111         SELECT SNO
112         FROM S
113         WHERE CITY = '天津'
114     ));
115
116 -- (8)
117 UPDATE P
118 SET COLOR='蓝'
119 WHERE COLOR = '红';
120
121 -- (9)
122 UPDATE SPJ
123 SET SNO='S3'
124 WHERE SNO = 'S5'
125     AND JNO = 'J4'
126     AND PNO = 'P6';
127
128 -- (10)
129 -- 先删除从表即SPJ中关于S2的信息（先将实体的联系都删除），再删除S中S2的信息（实体本身）
130 DELETE
131 FROM SPJ
132 WHERE SNO = 'S2';
133 DELETE
134 FROM S
135 WHERE SNO = 'S2';
136
137 -- (11)
138 INSERT INTO SPJ
139 VALUES ('S2', 'J6', 'P4', 200);
140
141 -- T3.9
142 -- 写错可以删除重建或ALTER
143 -- 如DROP VIEW SANVIEW;
144 -- 给三建工程建立视图包括SNO、PNO、QTY
145 CREATE VIEW SANVIEW(SNO, PNO, QTY)
146 AS
147 SELECT SNO, PNO, QTY
148 FROM SPJ
149 WHERE JNO = (SELECT JNO FROM J WHERE JNAME = '三建');
150 -- (1) 三建工程使用的各种零件代码及数量
151 SELECT PNO, QTY
152 FROM SANVIEW
153 GROUP BY PNO;
154
155 -- (2) S1的供应情况
156 SELECT PNO, QTY
157 FROM SANVIEW
158 WHERE SNO = 'S1';
159
160 -- T4.6
161 -- 前置任务 创建两个新用户 切换使用的数据库为含此题中两个表的数据库
162 -- 此处为ch4_6
163 CREATE USER U1;
164 CREATE USER U2;

```

```
165
166 -- (1)
167 GRANT ALL PRIVILEGES ON TABLE 学生 TO U1,U2 WITH GRANT OPTION;
168 -- 表名不需要加字符串
169
170 -- (2)
171 GRANT SELECT , UPDATE (家庭住址) ON TABLE 学生 TO U2;
172
173 -- (3)
174 -- 注意 MYSQL没有实现public关键字 自己实现
175
176 -- (4) 要先创建角色
177 CREATE ROLE R1;
178 GRANT SELECT, UPDATE ON 学生 TO R1;
179
180 GRANT R1 TO U1 WITH ADMIN OPTION;-- 注意不是GRANT OPTION 有差别
```