Examples of SQL

(subquery)

子查询

关系模式

顾客

Customers (cid, cname, city, discnt)

供应商

Agents (aid, aname, city, percent)

产品

Products (pid, pname, city, quantity, price)

订单

Orders (ordno, month, cid, aid, pid, qty, dollars)

Examples of Subquery

【例】Get cid values of customers who order both products p01 and p07.

■ 如何用IN谓词来代替EXISTS谓词?

Select distinct x.cid

IN谓词+独立子查询

From orders x

Where pid = 'p01' and cid IN (

Select y.cid

From orders y

Where y.pid = p07;

■ 如何用IN谓词+相 关子查询来表示?

Select distinct x.cid

IN谓词+相关子查询

```
From orders x

Where pid = 'p01' and 'p07' IN (

Select y.pid

From orders y

Where y.cid = x.cid );
```

```
Select distinct x.cid
From orders x
Where pid = 'p01' and cid IN (
Select y.cid
From orders y
Where y.pid = 'p07');
```

```
Select distinct x.cid
From orders x
Where pid = 'p01' and 'p07' IN (
Select y.pid
From orders y
Where y.cid = x.cid );
```

IN谓词+相关子查询

Examples of Subquery

【例】Get cid values of customers who order both products p01 and p07.

■如何用多表联接查询来表示(不用嵌套子查询)?

Select distinct x.cid 表的换名
From orders x, orders y
Where x.pid = 'p01' and y.pid = 'p07'
and x.cid = y.cid;