

1、实例

- 查询客户Coyote Inc.的订单编号|
 - 1) 先在customers表根据客户名称查询客户id
 - select cust_id from customers where cust_name="Coyote Inc.";
 - 2) 再在orders表中根据客户id查询订单编号
 - select order_num from orders where cust_id = 10001;
 - 3) 一条语句搞定

```
mysql> select order_num from orders where cust_id=(select cust_id from customers where cust_name="Coyote Inc.");
+-----+
| order_num |
+-----+
|      20005 |
|      20009 |
|      20010 |
|      20011 |
+-----+
4 rows in set (0.00 sec)

mysql>
```

- 查询购买了编号为TNT2的产品的所有客户姓名？
 - 1) 先查TNT2在哪个订单
 - select * from orderitems where prod_id='TNT2';
 - 2) 通过订单再查询客户
 - select * from orders where order_num in (20005,20007);
 - 3) 再通过客户id查询客户名称
 - select cust_id, cust_name from customers where cust_id in (10001,10004);

```
mysql> select cust_id, cust_name from customers where cust_id in
-> (select cust_id from orders where order_num in
-> (select order_num from orderitems where prod_id='TNT2'));
+-----+-----+
| cust_id | cust_name |
+-----+-----+
| 10001 | Coyote Inc. |
| 10004 | Yosemite Place |
+-----+-----+
2 rows in set (0.01 sec)

mysql>
```

- 查询客户Coyote Inc.的订单中购买的产品编号及数量？
 - 1) 先查客户的客户id
 - select cust_id from customers where cust_name='Coyote Inc.';
 - 2) 再通过客户id在订单表中查询订单号
 - select order_num from orders where cust_id in (10001);
 - 3) 再通过订单号去订单详情表中查询需要的信息
 - select prod_id, quantity from orderitems where order_num in
 - (select order_num from orders where cust_id in
 - (10001));

```
mysql> select prod_id, quantity from orderitems where order_num in
-> (select order_num from orders where cust_id in
-> (select cust_id from customers where cust_name='Coyote Inc.'));
+-----+-----+
| prod_id | quantity |
+-----+-----+
| ANV01 | 10 |
| ANV02 | 3 |
| TNT2 | 5 |
| FB | 1 |
| FB | 1 |
| OL1 | 1 |
| SLING | 1 |
| ANV03 | 1 |
| ANV03 | 1 |
| ANV03 | 1 |
+-----+-----+
10 rows in set (0.00 sec)

mysql>
```

2、查询所有客户的姓名及订单编号？

- 子查询解决不了
 - 客户姓名在客户表
 - 订单编号只有订单表及订单详情表才有
 - 一张表里查询，搞不定了？
 - select * from customers;
 - select * form orders;
- 内连接