<https://github.com/monkeycoffee/SQL-Exercise>

订单表tbl\_order

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 说明 | 类型 | 格式 |
| orderid | 订单号 | int | 1,2,3,… |
| userid | 用户ID | varchar | 3227E556-2B957F1FA40E |
| orderdate | 下单时间 | datetime | 2016/9/1 9:00 |
| pid | 商品ID | varchar | TR-DP-SP270 |
| salesamout | 商品售价 | numeric(10,2) | 100，200，… |
| category | 商品品类 | varchar | 轮胎，保养，车品，美容 |

用户表tbl\_user

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 说明 | 类型 | 格式 |
| userid | 用户ID | varchar | 3227E556-2B957F1FA40E |
| Province | 省 | varchar | 江苏省，浙江省，… |
| City | 城市 | varchar | 上海市，苏州市，… |

tbl\_order样表

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| orderid | userid | orderdate | pid | salesamout | category |
| 0001 | 3227E556 | 2017/1/1 18:00 | TR-DP-SP270 | 200 | 轮胎 |
| 0001 | 3227E556 | 2017/1/1 18:00 | LF-QIMENZUI-PUTONG| | 100 | 保养 |
| 0001 | 3227E556 | 2017/1/1 18:00 | GF-ZHUTANBAO| | 50 | 车品 |
| 0002 | 533F654 | 2017/1/4 18:00 | TR-DP-SP270 | 200 | 轮胎 |
| 0002 | 533F654 | 2017/1/4 18:00 | LF-QIMENZUI-PUTONG| | 100 | 保养 |

1. 查询2017年上半年（1-6月），上海地区销售额排名前10的商品ID。需要的字段：商品ID
2. 查询2017年7月所有订单中，有且仅有轮胎和保养两个品类的订单数。

select top 10 pid, sum(salesamout) as salesamout

from tbl\_order a

inner join tbl\_user b

on a.userid = b.userid

where b.city = '上海市'

and orderdate >= '2017-01-01'

and orderdate < '2017-07-01'

group by pid

order by salesamout desc

select count(distinct orderid) as OrderNum

from tbl\_order a

inner join tbl\_order b

on a.orderid = b.orderid

where a.category = '轮胎'

and b.category = '保养'

and a.orderdate >= '2017-07-01'

and a.orderdate < '2017-08-01'

and not exist(

select \*

from tbl\_order

where orderid = a.orderid

and category <> '轮胎'

and category <> '保养'

)