```
1、分组查询
 • group by
 • 统计每个订单的平均价格?
mysql> select order_num, AVG(item_price) from orderitems GROUP BY order_num;
+-----
 l order_num | AVG(item_price) |
 +----+
     20005 l
                 8.995000 l
     20006 l
                55.000000
     20007 l
                10.000000 |
                2.500000 |
     20008 I
     20009 l
               9.617500 l
     20010 l
                14.990000
                14.990000 l
     20011 I
+----+
7 rows in set (0.00 sec)
 • 统计每个订单的总价格?
mysql> select order_num, sum(item_price) from orderitems group by order_num;
+----+
 l order_num | avg(item_price) |
 +-----+
     20005 I
                 8.995000 l
     20006 I
                55.000000
     20007 l
                10.000000 |
     20008 l
                 2.500000
     20009 l
                 9.617500 l
     20010 l
                14.990000 l
                14.990000
     20011 I
7 rows in set (0.00 sec)
2、实例
 • 统计每个客户的订单数量?
mysql> select cust_id, count(*) from orders group by cust_id;
+----+
 | cust_id | count(*) |
+----+
   10001 |
   10003 l
   10004 l
   10005 I
4 rows in set (0.00 sec)
 • 统计每个订单中买了几种产品?
mysql> select order_num,count(*) from orderitems group by order_num;
+----+
 l order_num | count(*) |
+----+
     20005 I
     20006 l
     20007 I
     20008 |
     20009 I
     20010 l
     20011 l
7 rows in set (0.00 sec)
 • 统计每个订单中最贵的产品价格和最便宜的价格?
 • 以多个分组的语法
mysql> select order_num, max(item_price), min(item_price) from orderitems group by order_num;
l order_num | max(item_price) | min(item_price) |
     20005 l
                   10.00 l
                                  5.99 l
     20006 l
                   55.00 l
                                  55.00 l
                   10.00 l
     20007 l
                                 10.00 H
                   2.50 l
                                  2.50 l
     20008 I
                   14.99 l
     20009 |
                                  4.49 |
                   14.99 l
                                 14.99 l
     20010 l
                   14.99 l
                                 14.99 l
     20011 I
    ----+
7 rows in set (0.00 sec)
 ● 课堂练习
    。 统计2005年每月的订单数量?
mysql> select month(order_date),count(*) from orders where year(order_date)='2005' group by month(order_date);
+----+
 | month(order_date) | count(*) |
+----+
              10 |
+----+
2 rows in set (0.00 sec)
    。 统计2005年每个客户的订单数量?
mysql> select cust_id, count(order_num) from orders where year(order_date)='2005' group by cust_id;
+----+
 | cust_id | count(order_num)
   10001 l
   10003 I
   10004 l
   10005 I
+----+
4 rows in set (0.00 sec)
3、分组过滤
 having
 ● 实例
    。 统计购买了两种以上价格大于5的产品的订单编号及购买的产品种数
mysql> select order_num, count(*) from orderitems where item_price>2 group by order_num having count(*) > 2;
+----+
 l order_num | count(*) |
+----+
     20005 I
     20009 I
2 rows in set (0.00 sec)
mysql>
       ■ 统计供应了3种以上价格大于5的产品的供应商编号、产品数量、产品平均单价?
mysql> select vend_id,count(*), avg(prod_price) from products where prod_price>5 group by vend_id having count(*)>3;
+----+
 l vend_id | count(*) | avg(prod_price) |
 +-----+
    1003 l
                       20.750000 l
+----+
1 row in set (0.00 sec)
mysql>
    。 统计购买了两种以上价格大于5的产品的订单编号及购买的产品种数,按数量升序排列?
mysql> select order_num, count(*) from orderitems where item_price>2 group by order_num having count(*) > 2 order by count(*) asc;
+----+
 l order_num | count(*) |
     20005 l
     20009 l
+----+
2 rows in set (0.00 sec)
```

4、select查询中子句的执行顺序

• select

mysql>

• from where

• group by having

• order by • limit

子句	说明	是否必须使用	
select	要返回的列或表达式	是	
from	从中检索数据的表	仅在从表选择数据时使用	
join	连表查询关键字	否,仅在连表查询时用	
on	连表查询关键字	否,仅在连表查询时用	
where	行级过滤	否	
group by	分组说明	仅在按组计算聚集时使用	
having	组级过滤	否	
order by	输出排序顺序	否	
limit	要检索的行数	否	