```
。 查询所有的订单信息
    ○ 查询下过订单的客户编号? (去哪张表查? 是否需要去重? )
mysql> select * from orders;
 +----+
 l order_num l order_date
                            | cust_id |
 +----+
     20005 | 2005-09-01 00:00:00 |
                              10001 l
     20006 | 2005-09-12 00:00:00 |
                              10003 I
     20007 | 2005-09-30 00:00:00 |
                              10004 l
     20008 | 2005-10-03 00:00:00 |
                              10005 l
     20009 | 2005-10-08 00:00:00 |
                              10001 l
     20010 | 2005-10-08 05:00:00 |
                              10001 l
     20011 | 2005-10-08 20:00:00 |
 +----+
7 rows in set (0.00 sec)
mysql> select cust_id,order_num from orders;
 +----+
  cust_id | order_num |
 +----+
             20005 l
    10001
    10001
             20009 l
    10001
             20010 l
    10001
             20011 |
    10003
             20006 l
    10004
             20007 l
    10005
             20008 l
 +----+
7 rows in set (0.00 sec)
mysql> select distinct cust_id from orders;
 +----+
 l cust_id
 +----+
   10001
    10003
    10004
    10005
 +----+
4 rows in set (0.00 sec)
mysql> select distinct cust_id,order_num from orders;
 +----+
 | cust_id | order_num |
 +----+
    10001
             20005 l
    10001
             20009 l
    10001
             20010 l
    10001
             20011 |
    10003
             20006 l
    10004
             20007 l
    10005
             20008 l
 +----+
 7 rows in set (0.00 sec)
mysql>
2、指定返回行数
 • limit
    。 用法1:
       ■ limit m,n 表示从第m行开始,取n行 【备注, mysql是从0开始的】
          ■ limit后面接2个参数的时候,第一个参数为偏移量,第二个参数为返回的行数
          ■ 意思是从行号为m的行后面,取n行
          ■ mysql的行号是从0开始计算的
          ■ limit 2,3表示第3行开始往后数3行,也就是第3,4,5行
    。 用法2:
       ■ limit m 表示返回的行数,就表示返回前几行的意思
          ■ 从第1行开始计算,可以理解成此时的偏移量是0,比如limit 3 表示返回前3行
       select * from customers limit 3;
    。 常用于分页操作
mysql> select * from orders limit 1,3;
 +----+
 l order_num l order_date
                           | cust_id |
 +----+
     20006 | 2005-09-12 00:00:00 |
                              10003 l
     20007 | 2005-09-30 00:00:00 |
                              10004 l
     20008 | 2005-10-03 00:00:00 |
                              10005 l
 +----+
3 rows in set (0.00 sec)
mysql> select * from orders limit 3;
 +----+
 l order_num | order_date
                           l cust_id |
 +----+
     20005 | 2005-09-01 00:00:00 |
     20006 | 2005-09-12 00:00:00 |
                              10003 l
     20007 | 2005-09-30 00:00:00 |
                              10004 l
 +----+
3 rows in set (0.00 sec)
3、排序
 ● order by 排序字段 desc, 降序

    select prod_name, prod_price from products order by prod_price desc;

 ● order by 排序字段 [asc], 默认升序

    select prod_name, prod_price from products order by prod_price;

    select prod_name, prod_price from products order by prod_price asc;

 • 还可以多列排序
    ○ order by 排序字段1 [desclasc],排序字段2[desclasc],...; # 先按照
 ● 实例
    ○ 查询产品名称和价格,以价格降序排列?
    。 查询产品名称和价格, 随机排序返回?
       select prod_name, prod_price from products order by rand();
       ■ select prod_name, prod_price from products order by rand() limit 1; # 随机查一个
    。 通过排序结合limit找出产品的最高价?
    ○ 通过排序结合limit找出产品的最低价?
    。 通过排序找出最低价格产品的名称? ×
       ■ 这个是不行的啊,因为可能有产品价格都最低,价格一样的,如何确定是1行,还是2行还是多行呢
       ■ 这个通过limit现在搞不定,后续处理
mysql> select prod_name, prod_price from products order by prod_price desc;
 +----+
           | prod_price |
 l prod_name
 +----+
 l JetPack 2000 l
                   55.00 l
                   50.00 l
 l Safe
 | JetPack 1000
                   35.00 l
                   14.99 |
I 2 ton anvil
                   13.00 |
 | Detonator
| TNT (5 sticks) |
                   10.00 |
| Bird seed
                   10.00 l
| 1 ton anvil
                    9.99 |
∣ Oil can
                    8.99 |
5.99 |
| Sling
                    4.49 |
                    3.42 |
l Fuses
| Carrots
                    2.50 |
| TNT (1 stick) |
                    2.50 |
 +----+
14 rows in set (0.00 sec)
mysql> select prod_name, prod_price from products order by prod_price;
 +-----+
 l prod_name
              | prod_price |
 +-----+
| TNT (1 stick) |
                    2.50 |
                    2.50 |
 | Carrots
                    3.42 |
l Fuses
                    4.49 |
| Sling
Ⅰ .5 ton anvil
                    5.99 |
∣ Oil can
                    8.99 |
                    9.99 |
| 1 ton anvil
| TNT (5 sticks) |
                   10.00 |
| Bird seed
                   10.00 |
 | Detonator
                   13.00 l
 | 2 ton anvil
                   14.99 l
 | JetPack 1000
                   35.00 l
l Safe
                   50.00 l
 l JetPack 2000
                    55.00 l
 +----+
14 rows in set (0.00 sec)
mysql> select prod_name, prod_price from products order by prod_price asc;
 +----+
              | prod_price |
 l prod_name
 +----+
 | TNT (1 stick) |
                    2.50
                    2.50 |
 l Carrots
                    3.42 |
 l Fuses
 | Sling
                    4.49
1 .5 ton anvil
                    5.99 |
I Oil can
                    8.99 |
| 1 ton anvil
                    9.99 |
| TNT (5 sticks) |
                   10.00 l
                   10.00 |
 | Bird seed
                   13.00 l
 | Detonator
                   14.99 l
 | 2 ton anvil
 | JetPack 1000
                   35.00 l
l Safe
                   50.00 l
 l JetPack 2000
                   55.00 l
 +----+
14 rows in set (0.00 sec)
mysql> select prod_name, prod_price from products order by prod_price asc limit 1;
 +-----
  prod_name | prod_price |
 +----+
                2.50 |
 | Carrots |
 +----+
1 row in set (0.00 sec)
mysql> select prod_name, prod_price from products order by prod_price desc limit 1;
 +----+
           | prod_price |
 l prod_name
 | JetPack 2000 |
                 55.00 l
 +----+
1 row in set (0.00 sec)
4、查询条件过滤
 ● 语法:
    ○ select * from 表名 where 过滤 条件
 • where 子句支持的操作符
    o =
    ° <>
    o !=
    o >
    o <
```

1、基础查询

● 查所有字段

• 只查指定字段

去重

● 实例

o >=

 \circ and

o or

∘ in

not

∘ is

5、别名

∘ between ... and ...

。 like, % 代表任意字符; _ 代表一个字符

● 可以对表、字段、计算的结果(select整个语句)起别名

select * from customers;

。 查询所有的用户信息

。 查询所有的产品信息

select cust_id, cust_name from customers;

○ select distinct cust_id, order_num from orders; # 表示对组合进行去重,两个字段合起来重复的才去重

select distinct cust_id from orders;