TiDB|Mysql SQL爬坑

1. mysql 5.7以上order by 后面不跟limit，导致排序失效。[参考网文]
    (https://blog.csdn.net/AIkiller/article/details/78873479)

    排行榜脚本，数据库切换到TiDB后发现排行榜部分数据没出来（有业务上的过滤），排查后发现5.7版本order by 后须加 limit

```
1  select openid from song_act where act_id = {act_id} and state = 1)
2  and songurl != ''
3  and create_time between '{st}' and '{ed}'
4  order by {sort_field} desc limit 10000
```

2. 连表查询注意： group by 和 order by 同时运用时。先筛选出order by条件的数据，再group by。

```
1  select song.id, song.open_id, song.like_num, song.score, song.songname,
   user.nickname, user.avatar
2   from (select * from user_song where open_id in ('{openids}')
3   and create_time between '{st}' and '{ed}'
4   order by like_num desc) as song left join user on song.open_id = user.open_id
5   group by song.open_id order by song.like_num desc, song.create_time asc limit 50;
```

3. 大表limit分页到后面巨慢，可以用条件筛选掉一部分结果。[参考网文]
    (https://www.jb51.net/article/85312.htm)

```
1  select distinct songhash, songurl, id from machine_song limit where id > {max_id}
   limit {num};
```

4. 想要根据条件统计字段

```
1 select count(if(field>0, True, None)) from table group by id;
```

5. 按时、天、月聚合查询需求

```
1 select field, count(distinct DATE_FORMAT(create_time, '%Y-%m-%d %H:%M:%S')) from
   table;
```

6. 某代理商下往年,每天所有机器经营情况

```
1 select tb.*, tb.`收入`-tb.`退款` as `利润` from (
2  select distinct DATE_FORMAT(mo.create_time, '%Y-%m-%d') AS `日期`,
3  mo.mac_id, count(mo.order_id) as `订单数`,
4  sum(if(mo.state=1, mo.pay_fee, 0))/100 as `收入`,
5  sum(if(mo.state in (4, 5, 6), mo.pay_fee, 0))/100 as `退款`
6  from music_order as mo
7  where mo.create_time < '2018-01-01'
8  and mo.sp_id = 66
9  and mo.mac_id in (select mac_id from machine where sp_id = 66)
10  group by `日期`, mo.mac_id
11  order by `日期` desc, `订单数` desc limit 10
12 ) as tb
```

7. 筛选出优惠券有效期在2-3天的人

```
1 select distinct rp.open_id, rp.create_time, rr.fee, rr.name, rr.ed, rr.info,
   TIMESTAMPDIFF(Hour, '{current_time}', rr.ed) as `time` from t_redpacket as rp
2 left join t_redpacket_rule as rr on rp.rule_id = rr.rule_id
3 where rp.state = 0
4 and rr.ed > '{current_time}'
5 and rp.open_id != ''
```

```
6  and rr.state = 1
7  having `time` between 48 and 72
```