**1,切记不要在for循环中访问数据库，大忌**

**2,根据需求设计数据库**

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| ***[如何根据需求设计](https://www.zhihu.com/question/51824515/answer/127926948" \t "_blank)*[最优的](https://www.zhihu.com/question/51824515/answer/127926948" \t "_blank)*[数据库](https://www.zhihu.com/question/51824515/answer/127926948" \t "_blank)*[表结构？](https://www.zhihu.com/question/51824515/answer/127926948" \t "_blank)**  首先，没有最优。  如果是业务，第一阶段是实现逻辑。  字段名称一次到位，不要在多表里用不同的名称。尽量贴近业务模型，在一个业务窗口中，对应的表尽量是一个，而非多个。  在实现逻辑以后，是数据库优化。  拆分大表，慢sql，建立索引。  然后是工程阶段，memcache等 |

**3，数据库表设计注意事项**

1. 不同表关联的话，两表内表示同样数据的字段尽量名称一致；
2. 不要用复数；

**4，外部无法链接Mysql的解决办法**

使用Navicat连接MySQL数据库，如果在本机上通过ip地址输入localhost是可以连接上的。但是我们想要通过以太网IPv4地址远程连接的方式，就会提示Host 'DESKTOP-BNFMG64' is not allowed to connect to this MySQL server即MySQL不允许远程登录，所以远程登录失败了。

解决办法：

方案一，直接修改root权限：

1.通过cmd进入mysql，即输入命令mysql -u root -p 密码

2.使用mysql，即输入命令use mysql;

3.修改字段user为root一列的的host字段为%，update user set host = '%' where user = 'root';

4.刷新MySQL的系统权限相关表，即输入命令flush privileges;

方案二，创建一个新的用户user1，密码为123456：

1.输入命令create user user1 identified with mysql\_native\_password by '123456';

2.输入命令grant all on \*.\* to 'user1'@'%';

3.输入命令FLUSH PRIVILEGES;

**5，多个表左外连接时，会造成数据重复**

因为，一个表和下一个边左外链接后，会形成一个新表，再和下一个表进行链接，这是会形成笛卡尔积，例如，一个回收员对应的订单重复

* 正确写法

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| <select id="findDistrictOrder" resultType="RecycleOrder">  select ro.\*  from recycle\_order as ro  left join recycle\_address as ra on ro.address\_id = ra.id  where ra.district =  (select rs.district  from recycle\_buyer as rb  left join recycle\_station as rs on rb.station\_id = rs.id  where rb.id=#{buyerId})  <if test="orderType != null and orderType != ''">  and ro.order\_type = #{orderType}  </if>  order by ro.create\_time desc  </select> |

* 错误写法，会造成结果重复

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| <select id="findDistrictOrder" resultType="RecycleOrder">  SELECT  <include refid="orderSql"></include>,  CONCAT(ra.province,ra.city,ra.district,',',ra.addr) as orderAddress,ra.phone\_num as phoneNumber,ra.username,IFNULL(roc.collection\_type,'9') as collectionType  FROM recycle\_buyer as rb  left join recycle\_station as rs on rs.id = rb.station\_id  left join recycle\_address as ra on ra.district = rs.district  left join recycle\_order as o on ra.id = o.address\_id  left join recycle\_order\_collection as roc on roc.order\_id = o.id  where o.del\_flag = '0'  and rb.id=#{buyerId}  <if test="orderType != null and orderType != ''">  and o.order\_type = #{orderType}  </if>  order by o.create\_time desc </select> |