纯s'q'l

# 1、取出map的数据放入表中

有时候需要简单地把一个Map中所有的key和value获取出来，拼到sql语句中。MyBatis提供的一种方法是遍历Map中的entrySet，然后把key扔进index里面，value扔进item中。具体的一个使用的例子如下：

**[html]** [view plain](http://blog.csdn.net/clementad/article/details/55099432) [copy](http://blog.csdn.net/clementad/article/details/55099432)

1. **<insert** id="operationName" parameterType="map"**>**
2. INSERT INTO table\_name(hot\_word, cnt)
3. VALUES
4. **<foreach** item="value" index="key" collection="mapData.entrySet()" open="(" separator="),(" close=")"**>**
5. #{key}, #{value}
6. **</foreach>**
7. ON DUPLICATE KEY UPDATE
8. cnt=VALUES(cnt)
9. **</insert>**

# 2、结果为：list<map<String,Object>>

## 1、mapper

public interface HealerJeanMapper {  
  
  
 List<Map<String,Object>> sqlMap();  
}

## 2、mapper.xml

<select id="sqlMap" resultType="java.util.HashMap">  
 SELECT h.id as id ,h.subject as subject FROM healerjean h;  
</select>

## 3、解释：

### 1、返回类型必须是java.util.HashMap

### 2、map中的value 必须是Objecrt

## 4、controller测试

@RequestMapping("sqlMap")  
@ResponseBody  
public List<Map<String,Object>> sqlMap(){  
 return healerJeanMapper.sqlMap();  
}



# 3、mybatis 自定义参数、返回类型map

## 1、参数

|  |
| --- |
| <select id=*"getUserCount"* parameterMap=*"getUserCountMap"* statementType=*"CALLABLE"*resultType="java.util.HashMap  >  CALL ges\_user\_count(?,?)  </select>  <parameterMap type=*"java.util.Map"* id=*"getUserCountMap"*>  <parameter property=*"sexid"* mode=*"IN"* jdbcType=*"INTEGER"*/>  <parameter property=*"userCount"* mode=*"OUT"* jdbcType=*"INTEGER"*/>  </parameterMap> |

## 2、结果，返回字段一一匹配，想想之前@Results和@Result

|  |
| --- |
| <resultMap id=*"BaseResultMap"* type=*"com.taotao.pojo.TbUser"* >  <id column=*"id"* property=*"id"* jdbcType=*"BIGINT"* />  <result column=*"username"* property=*"username"* jdbcType=*"VARCHAR"* />  <result column=*"password"* property=*"password"* jdbcType=*"VARCHAR"* />  <result column=*"phone"* property=*"phone"* jdbcType=*"VARCHAR"* />  <result column=*"email"* property=*"email"* jdbcType=*"VARCHAR"* />  <result column=*"created"* property=*"created"* jdbcType=*"TIMESTAMP"* />  <result column=*"updated"* property=*"updated"* jdbcType=*"TIMESTAMP"* />  </resultMap> |

### 1、解释：

### 1、property和column分别指定实体类属性和数据表的列名。

# 4、If的使用

## 1、mapper接口

public interface CustomerMapper {  
  
 List<Customer> findCustomerList( @Param("name") String name,  
 @Param("status") Integer status,  
 @Param("offset") Integer offset,  
 @Param("limit") Integer limit);  
  
}

## 2、mapper.xml sql'语句

*<?*xml version="1.0" encoding="UTF-8"*?>*<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd" *>*<mapper namespace="com.duodian.admore.dao.mybatis.customer.CustomerMapper">  
  
 <select id="findCustomerList" resultType="com.duodian.admore.entity.db.customer.Customer">  
 SELECT t.\* from crm\_customer t  
 WHERE t.isVisiblisVisiblee = 1  
 <if test="name != null and name != ''">  
 and t.name like CONCAT('%','${name}','%' )  
 </if>  
 <if test="status != null">  
 and t.status = #{status}  
 </if>  
 order by t.id DESC  
 limit #{offset}, #{limit}  
 </select>  
  
 <select id="countCustomerList" resultType="java.lang.Long">  
 select count(\*) from crm\_customer t  
 WHERE t.isVisible = 1  
 <if test="name != null and name != ''">  
 and t.name like CONCAT('%','${name}','%' )  
 </if>  
 <if test="status != null">  
 and t.status = #{status}  
 </if>  
 </select>  
  
</mapper>

# 5、where include的使用（加入模糊查询筛选条件）

<select id="findVerifySignetList" resultType="com.duodian.admore.entity.db.signet.SignetApplyRecord">  
 SELECT t.*\**,d.nickName userNickName,ifnull(e.realName,f.realName) userAuthName,b.name applyAdmName,ura.remittanceAccount  
 FROM signet\_apply\_record t  
 LEFT JOIN user d ON d.id = t.userId  
 LEFT JOIN user\_auth\_personal e on e.userId = t.userId AND e.status = 1  
 LEFT JOIN user\_auth\_enterprise f on f.userId = t.userId AND f.status = 1  
 LEFT JOIN user\_email\_account g ON g.userId = t.userId  
 left join sys\_admin\_user b on b.id = t.applyAdmId  
 LEFT JOIN user\_remittance\_account ura ON ura.userId = t.userId  
 <if test="currAdmId4Auth != null">  
 LEFT JOIN sys\_admin\_user\_customer h ON h.admId = #{currAdmId4Auth} AND h.userId = t.userId  
 LEFT JOIN (SELECT wt.pid,count(*\**) cc FROM workflow\_task\_examine\_details wte LEFT JOIN workflow\_task wt ON wt.id = wte.taskId WHERE wt.taskType = 23 AND wte.admId = #{currAdmId4Auth} GROUP BY wt.pid) w ON w.pid = t.id  
 </if>  
 <where>  
 <include refid="findVerifySignetWhere"></include>  
 </where>  
 order by t.id desc  
 <if test="offset != null and limit != null">  
 limit #{offset}, #{limit}  
 </if>  
</select>  
  
  
<sql id="findVerifySignetWhere">  
 <if test="startDate != null">  
 <![CDATA[ and t.cdate >= #{startDate} ]]>  
 </if>  
 <if test="endDate != null">  
 <![CDATA[ and t.cdate <= #{endDate} ]]>  
 </if>  
 <if test="userParam != null and userParam != '' and userParam!= 'undefined'">  
 AND (t.userId = #{userParam} OR d.nickName LIKE CONCAT('%',#{userParam},'%' ) OR e.realName LIKE  
 CONCAT('%',#{userParam},'%' ) OR f.realName LIKE CONCAT('%',#{userParam},'%' ) OR g.email LIKE  
 CONCAT('%',#{userParam},'%' ))  
 </if>  
 <if test="taskType != null">  
 and t.taskType = #{taskType}  
 </if>  
 <if test="taskTypeList != null and taskTypeList.size() > 0">  
 and t.taskType IN  
 <foreach collection="taskTypeList" index="index" item="at" open="(" separator="," close=")">  
 #{at}  
 </foreach>  
 </if>  
 <if test="signetType != null">  
 and t.type = #{signetType}  
 </if>  
 <if test="status != null">  
 and t.status = #{status}  
 </if>  
 <if test="currAdmId4Auth != null ">  
 <![CDATA[ and (h.admId = #{currAdmId4Auth} OR w.cc > 0) ]]>  
 </if>  
</sql>

# 5.、foreach list结合作为参数在mapper中的查询（taskTypeList 为List<Integer>）

<sql id="findVerifySignetWhere">  
 <if test="startDate != null">  
 <![CDATA[ and t.cdate >= #{startDate} ]]>  
 </if>  
 <if test="endDate != null">  
 <![CDATA[ and t.cdate <= #{endDate} ]]>  
 </if>  
 <if test="userParam != null and userParam != '' and userParam!= 'undefined'">  
 AND (t.userId = #{userParam} OR d.nickName LIKE CONCAT('%',#{userParam},'%' ) OR e.realName LIKE  
 CONCAT('%',#{userParam},'%' ) OR f.realName LIKE CONCAT('%',#{userParam},'%' ) OR g.email LIKE  
 CONCAT('%',#{userParam},'%' ))  
 </if>  
 <if test="taskType != null">  
 and t.taskType = #{taskType}  
 </if>  
 <if test="taskTypeList != null and taskTypeList.size() > 0"> and t.taskType IN  
 <foreach collection="taskTypeList" index="index" item="at" open="(" separator="," close=")">  
 #{at}  
 </foreach>  
 </if>  
 <if test="signetType != null">  
 and t.type = #{signetType}  
 </if>  
 <if test="status != null">  
 and t.status = #{status}  
 </if>  
 <if test="currAdmId4Auth != null ">  
 <![CDATA[ and (h.admId = #{currAdmId4Auth} OR w.cc > 0) ]]>  
 </if>  
</sql>

# 7、choose when

<if test="flag != null">  
 <choose>  
 <when test="flag == 1">  
 and t.status = 0  
 </when>  
 <when test="flag == 2">  
 and t.status = 1  
 </when>  
 <when test="flag == 3">  
 and t.expressStatus = 1  
 </when>  
 <when test="flag == 4">  
 and t.status = -2  
 </when>  
 </choose>  
</if>

# 8、ifnull （如果是空返回第一个，否则返回第二个）

<select id="findRedStartSpread" parameterType="com.duodian.admore.dao.db.redstart.query.RedStartSpreadQuery" resultType="com.duodian.admore.dao.db.redstart.bean.RedStartHistoryBean">  
 SELECT  
 k.trackId,  
 e.smallIcon,  
 e.formattedPrice,  
 e.price,  
 e.fileSizeBytes,  
 e.trackName,  
 f.name admName,  
 a.nickName userName,  
 ifnull(b.realName,c.realName) authName,  
 DATE\_FORMAT(k.spreadDateStart, '%Y-%m-%d') AS ymd,  
 k.userId  
 FROM  
 redstart\_spread k

# 9。制作参数为map值进行传入（opt项目SkinsController）

## 1、controller接收参数

@RequestMapping("data")  
@ResponseBody  
public ResponseBean data(String name,

Integer type,

Integer status  
 ,@RequestParam(value = "page",defaultValue = "0") Integer page){  
   
 int pageSize = 15;  
 Pageable pageable = new PageRequest(page,pageSize);  
 Page<SkinAppInfoData> dataPage = skinsService.findSkinAppInfoList(pageable,"name",name,"type",type,"status",status);  
 return ResponseBean.buildSuccess(dataPage);  
  
}

## 2、service 制作map参数（下面的功能是模糊查询🏠分页）

### 1、service接口

public Page<SkinAppInfoData> findSkinAppInfoList(Pageable pageable, Object... param) throws AppException;

### 2、service开始实现 （pageable 主要是利用里面的参数制作limit参数的）

@Override  
public Page<SkinAppInfoData> findSkinAppInfoList(Pageable pageable, Object... param) throws AppException {  
 Map data = MyBatisHelper.mergeParameterMap(pageable,param);

List<SkinAppInfoData> dataList = skinsMapper.findSkinList(data);  
  
 for(SkinAppInfoData skinAppInfoData :dataList){  
 List<ChannelJson> channelJsonList = new ArrayList<>();  
 if(skinAppInfoData.getChannelJson()!=null&&!"".equals(skinAppInfoData.getChannelJson())) {  
 JSONArray jsonArray = JSONArray.fromObject(skinAppInfoData.getChannelJson());  
 for (int i = 0; i < jsonArray.size(); i++) {  
 ObjectMapper objectMapper = new ObjectMapper();  
 try {  
 ChannelJson channelJson = objectMapper.readValue(jsonArray.get(i).toString(), ChannelJson.class);  
 channelJsonList.add(channelJson);  
 } catch (IOException e) {  
 e.printStackTrace();  
 }  
 }  
 }  
 skinAppInfoData.setChannelJsonList(channelJsonList);  
  
 }  
  
 Long count = skinsMapper.countSkinList(data);  
 return new PageImpl<SkinAppInfoData>(dataList,pageable,count);  
}

### 3、MyBatisHelper工具栏

public class MyBatisHelper {  
 public static final String PARAM\_OFFSET = "offset";  
 public static final String PARAM\_LIMIT = "limit";  
  
 public MyBatisHelper() {  
 }  
  
 public static Map<String, Object> mergeParameterMap(Object... parameter) {  
 if (parameter.length % 2 != 0) {  
 throw new IllegalArgumentException("parameter须为key-value对应参数");  
 } else {  
 Map<String, Object> map = new HashMap();  
  
 for(int i = 0; i < parameter.length; i += 2) {  
 map.put(parameter[i].toString(), parameter[i + 1]);  
 }  
  
 return map;  
 }  
 }  
  
 public static Map<String, Object> mergeParameterMap(Pageable pageable, Object... parameter) {  
 if (parameter.length % 2 != 0) {  
 throw new IllegalArgumentException("parameter须为key-value对应参数");  
 } else {  
 Map<String, Object> map = new HashMap();  
 map.put("offset", pageable.getOffset());  
 map.put("limit", pageable.getPageSize());  
  
 for(int i = 0; i < parameter.length; i += 2) {  
 map.put(parameter[i].toString(), parameter[i + 1]);  
 }  
  
 return map;  
 }  
 }  
}

### 4、mapper.java （下面这两个其实就是专门用来做制作page分页的）

public interface SkinsMapper {  
  
  
 public List<SkinAppInfoData> findSkinList(Map param);  
  
 public Long countSkinList(Map param);  
  
}

*<?*xml version="1.0" encoding="UTF-8"*?>*<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd" *>*<mapper namespace="com.duodian.admore.dao.db.skins.SkinsMapper">  
  
 <select id="findSkinList" resultType="com.duodian.admore.data.skins.SkinAppInfoData">  
 SELECT  
 A1.`appid`,  
 A1.`appSecret`,  
 A1.`icon`,  
 A1.`name`,  
 A1.`type`,  
 A1.`cdate`,  
 A1.`downloadUrl`,  
 A1.`remark`,  
 A1.`status`,  
 A1.`trackId`,  
 A1.`bundleId`,  
 A1.`scheme`,  
 A1.`apnscer`,  
 A1.`password`,  
 A1.`udate`,  
 A1.`makerMemo`,  
 A1.`haveBackstage`,  
 A1.`channelJson`,  
 A1.`filePath`  
 FROM `skin\_app\_info\_check` a1  
 where A1.status not in (9)  
 <if test="name != null and name != ''">  
 AND (A1.trackId = #{name}  
 OR A1.name LIKE CONCAT('%',#{name},'%' )  
 OR A1.appid LIKE CONCAT('%',#{name},'%' )  
 OR A1.appSecret LIKE CONCAT('%',#{name},'%' )  
 )  
 </if>  
 <if test="type != null and type != '' ">  
 and A1.type = #{type}  
 </if>  
 <if test="status != null and status != '' ">  
 and A1.status = #{status}  
 </if>  
 order by A1.cdate desc  
 <if test="offset != null and limit != null">  
 limit #{offset}, #{limit}  
 </if>  
 </select>  
  
 <select id="countSkinList" resultType="java.lang.Long">  
 SELECT  
 count(*\**)  
 FROM `skin\_app\_info\_check` A1  
 where A1.status != 9  
 <if test="name != null and name != ''">  
 AND (A1.trackId = #{trackId} OR A1.name LIKE CONCAT('%',#{name},'%' ))  
 </if>  
 <if test="type != null">  
 and A1.type = #{type}  
 </if>  
 <if test="status != null">  
 and A1.status = #{status}  
 </if>  
 </select>  
</mapper>

# 10、模糊查询，对象作为参数传入，类似于9中的map

## 1、query对象 (查询参数)

public class SysUserQuery implements Serializable {  
  
 private static final long ***serialVersionUID*** = -4564423981924197001L;  
  
 private Long id;  
 private Integer offset;  
 private Integer limit;  
 private Date startDate;  
 private Date endDate ;  
 private String userid;  
 private String userParam;  
 private Integer status;  
  
  
  
}

## 2、controller层

@RequestMapping("data")  
@ResponseBody  
public ResponseBean data(@RequestParam(defaultValue = "0")Integer page, @RequestParam(defaultValue = "15")Integer pageSize, SysUserQuery query){  
 try {  
 Pageable pageable = new PageRequest(page,pageSize);  
 return ResponseBean.buildSuccess(sysDingUserService.getDingUserData(pageable,query));  
 } catch (AppException e) {  
 return ResponseBean.buildFailure(e.getMessage());  
 } catch (Exception e) {  
 logger.error(e.getMessage(),e);  
 return ResponseBean.buildFailure(ErrorCodeEnum.***系统错误***);  
 }  
}

## 3、service层，将pageable分页对象放入

@Override  
 public Page<SysDingUser> getDingUserData(Pageable pageable, SysUserQuery query) {  
  
 query.setOffset(pageable.getOffset());  
 query.setLimit(pageable.getPageSize());  
  
 List<SysDingUser> list = sysMapper.findSysDingUserList(query);  
  
 Long count = sysMapper.countSysDingUser(query);  
 return new PageImpl<>(list, pageable, count);  
 }  
}

## 4、mybatis查询语句

<select id="findSysDingUserList" resultType="com.duodian.admore.entity.db.admin.SysDingUser">  
 SELECT t.*\**, a.admId,b.name admName FROM sys\_ding\_user t  
 LEFT JOIN sys\_admin\_user\_ding a ON a.userid = t.userid  
 LEFT JOIN sys\_admin\_user b ON b.id = a.admId  
 <where>  
 <if test="userParam != null and userParam != ''">  
 and (t.userid = #{userParam} OR t.name LIKE CONCAT('%',#{userParam},'%' ) OR t.email LIKE CONCAT('%',#{userParam},'%' )  
 OR t.orgEmail LIKE CONCAT('%',#{userParam},'%' ) OR t.mobile LIKE CONCAT('%',#{userParam},'%' ) OR t.position LIKE CONCAT('%',#{userParam},'%' ))  
 </if>  
 </where>  
 ORDER BY t.id ASC  
 limit #{offset}, #{limit}  
</select>

# 11、取出制作DTO对象

## 1、对于数据库字段匹配的，可以直接选择

## 2、对于不匹配的使用 as 转化

<select id="findRedStartSpread" parameterType="com.duodian.admore.dao.db.redstart.query.RedStartSpreadQuery" resultType="com.duodian.admore.dao.db.redstart.bean.RedStartHistoryBean">  
 SELECT  
 k.trackId,  
 e.smallIcon,  
 e.formattedPrice,  
 e.price,  
 e.fileSizeBytes,  
 e.trackName,  
 f.name admName,  
 a.nickName userName,  
  
 DATE\_FORMAT(k.spreadDateStart, '%Y-%m-%d') AS ymd,  
 k.userId  
 FROM  
 redstart\_spread k

### 1、RedStartHistoryBean

public class RedStartHistoryBean implements Serializable {  
  
 private Long userId;  
 private String ymd;  
 private String trackId;  
 private String smallIcon;  
 private String bundleId;  
 private String formattedPrice;  
 private BigDecimal price;  
 private BigInteger fileSizeBytes;  
 private String trackName;  
  
 private String fileSizeDesc; //文件大小描述  
 private String authName;  
 private String admName;  
 private String userName;

### 2、RedStartSpreadQuery

public class RedStartSpreadQuery implements Serializable {  
  
 private Long userId;  
 private String trackId;  
 private String trackName;  
 private Date startDate;  
 private Date endDate;  
 private String name;  
 private Integer status;  
  
 private Integer offset;  
 private Integer limit;  
 private Date point;  
  
 private String userParam;  
 private String appParam;

# 12、只有一个参数传入的时候，不能直接写参数名字了 而是使用下面的\_parameter

## 1、mapepr.java

List<CustomerChance> getCustomerList(Long adminId);

## 2、mapper.xml

<select id="getCustomerList" resultType="com.duodian.admore.entity.db.customer.CustomerChance">  
 SELECT *\** FROM `crm\_customer\_chance` c  
 where c.isVisible = 1  
 <if test="\_parameter != null">  
 and c.adminId = #{\_parameter}  
 </if>  
</select>

# 13、加入原生符号

## 1、AND t.cdate &gt;= #{startDate}  </if>

[<![CDATA[]]>和转义字符](http://www.cnblogs.com/catgatp/p/6403382.html)

被<![CDATA[]]>这个标记所包含的内容将表示为**纯文本**，比如<![CDATA[<]]>表示文本内容“<”。   
　　此标记用于xml文档中，我们先来看看使用转义符的情况。我们知道，在xml中，”<”、”>”、”&”等字符是不能直接存入的，否则xml语法检查时会**报错**，如果想在xml中使用这些符号，必须将其转义为实体，如”&lt;”、”&gt;”、”&amp;”，这样才能保存进xml文档。   
　　在使用程序读取的时候，解析器会自动将这些实体转换回”<”、”>”、”&”。举个例子：   
　　<age> age < 30 </age>   
　　上面这种写法会报错，**应该这样写**：   
　　<age> age &lt; 30 </age>   
　　值得注意的是：   
　　(1)转义序列字符之间不能有空格；   
　　(2) 转义序列必须以”;”结束；   
　　(3) 单独出现的”&”不会被认为是转义的开始；   
　　(4) 区分大小写。   
　　   
　　在XML中，需要转义的字符有：   
　　(1)&　　　&amp;   
　　(2)<　　　&lt;   
　　(3)>　　　&gt;   
　　(4)＂　　　&quot;   
　　(5)＇　　　&apos;   
　　但是严格来说，在XML中只有”<”和”&”是非法的，其它三个都是可以合法存在的，但是，把它们都进行转义是一个好的习惯。   
　　不管怎么样，转义前的字符也好，转义后的字符也好，都会被xml解析器解析，**为了方便起见**，使用<![CDATA[]]>来包含不被xml解析器解析的内容。但要注意的是：   
　　(1) 此部分不能再包含”]]>”；   
　　(2) 不允许嵌套使用；   
　　(3)”]]>”这部分不能包含空格或者换行。   
　　最后，说说<![CDATA[]]>和xml转移字符的关系，它们两个看起来是不是感觉功能重复了？   
　　是的，它们的功能就是一样的，只是应用场景和需求有些不同：   
　　(1)<![CDATA[]]>不能适用所有情况，转义字符可以；   
　　(2) 对于短字符串<![CDATA[]]>写起来啰嗦，对于长字符串转义字符写起来可读性差；   
　　(3) <![CDATA[]]>表示xml解析器忽略解析，所以更快。

## 1、举例说明

<sql id=*"pageSuffix"*>

) a where rownum <![CDATA[<=]]> #{end,jdbcType=INTEGER} ) b where b.rn <![CDATA[>]]> #{start,jdbcType=INTEGER}

</sql>

# 14、一个条件匹配多个字段



<if test="userParam != null and userParam != ''">  
 AND (t.userId = #{userParam}  
 OR a.nickName LIKE CONCAT('%',#{userParam},'%' )  
 OR b.realName LIKE CONCAT('%',#{userParam},'%' )  
 OR c.realName LIKE CONCAT('%',#{userParam},'%' )  
 OR t.customerId LIKE CONCAT('%',#{userParam},'%' )  
 OR t.customerName LIKE CONCAT('%',#{userParam},'%'))  
</if>