🛍 【android】ORMLite框架 的使用方法---给你的数据库操作插

上翅膀

```
2017-03-08 18:27:18 da_caoyuan 阅读数 5439 ☆ 收藏 更多
```

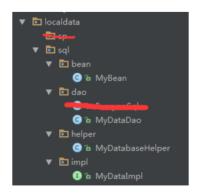
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本文链接: https://blog.csdn.net/da_caoyuan/article/details/60876336

一: 首先下载 ORMLite Jar 包

先去 ORMLite官网下载jar包 写博客时,目前最新的,对于Android为:ormlite-android-5.0.jar 和ormlite-core-5.0.jar;

然后分包处理,建议如图所示分包:



二: 配置Bean类

```
1 @DatabaseTable(tableName = "Book")
 2 public class MyBean {
 4
        @DatabaseField(generatedId = true)
 5
        private int id;
 6
 7
        @DatabaseField(columnName = "name")
 8
        public String name;
9
10
        @DatabaseField(columnName = "author")
11
        public String author;
12
13
        @DatabaseField(columnName = "price")
14
        public String price;
15
16
        @DatabaseField(columnName = "pages")
17
        public int pages;
18
19
20
        public String getAuthor() {
21
             return author;
22
23
24
        public void setAuthor(String author) {
25
             this.author = author;
26
27
28
        public String getPrice() {
29
             return price;
30
31
32
        public void setPrice(String price) {
33
             this.price = price;
34
35
36
        public int getPages() {
37
             return pages;
38
39
40
        public void setPages(int pages) {
41
            thic names - names:
```

```
public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}
```

三:编写Helper类

```
public class MyDatabaseHelper extends OrmLiteSqliteOpenHelper {
 2
 3
        public static final String DB_NAME = "BookStore.db";
 4
        public static final int DB_VERSION = 1;
 5
 6
 7
        public MyDatabaseHelper(Context context) {
 8
             super(context, DB_NAME, null, DB_VERSION);
9
10
11
12
        @Override
13
        public void onCreate(SQLiteDatabase sqLiteDatabase, ConnectionSource connect
14
            try {
15
                 TableUtils.createTable(connectionSource, MyBean.class);
16
             } catch (SQLException e) {
17
                 e.printStackTrace();
18
19
        }
20
21
         @Override
         public void onUpgrade(SQLiteDatabase sqLiteDatabase, ConnectionSource connectionSource)
23
             System.out.println("MyDatabaseHelper.onUpgrade oldVersion=" + oldVersion +
24
             try {
25
                 switch (oldVersion) {
26
27
                      case 1:
28
                          getDao(MyBean.class).executeRaw("alter table Book add column boo
                          //在数据库版本1的下一版本,Book表中新添加了book_type 字段
31
                      case 2:
32
                         // TableUtils.createTable(connectionSource, MyBean2.class);
33
                         //在数据库版本2的下一版本,新增加了一张表
34
                      default:
35
                          break;
36
                 }
37
38
39
                 //显然这样处理比较暴力
40
                 //TableUtils.dropTable(connectionSource, MyBean.class, true);
41
                 //onCreate(sqLiteDatabase, connectionSource);
42
             } catch (SQLException e) {
43
                 e.printStackTrace();
44
45
        }
46
47
        private static MyDatabaseHelper instance;
48
49
       * 单例获取该Helper
50
51
52
       * @param context
53
       * @return
54
55
        public static MyDatabaseHelper getHelper(Context context) {
56
             if (instance == null) {
57
                 synchronized (MyDatabaseHelper.class) {
58
                      if (instance == null)
59
                          instance = new MyDatabaseHelper(context);
60
```

```
62
            return instance;
63
64
65
66
        private Map<String, Dao> daos = new HashMap<>();
67
68
        public synchronized Dao getDao(Class clazz) throws SQLException {
69
            Dao dao = null;
70
            String className = clazz.getSimpleName();
71
            if (daos.containsKey(className)) {
72
                 dao = daos.get(clazz);
73
74
            if (dao == null) {
75
                 dao = super.getDao(clazz);
76
                 daos.put(className, dao);
77
            }
78
            return dao;
79
        }
80
81
82
        @Override
83
        public void close() {
84
            super.close();
85
            for (String key : daos.keySet()) {
86
                Dao dao = daos.get(key);
87
                 dao = null;
88
89
        }
90
91
92 }
```

四:编写DAO类

1:接口编写:

```
1 public interface MyDataImpl {
 3
        void insert(ArrayList<MyBean> beanArrayList);
 4
 5
        void insert(MyBean myBean);
 6
 7
        void update(String name, String price);
 8
 9
        void update2(String columnName, String columnValue);
10
11
        void update3(String queryColumnName, String queryColumnValue, String setColumn
12
13
14
        void delete (String name);
15
16
        int deleteAll();
17
18
19
        ArrayList<String> queryPrice(String name);
20
21
        String queryAuthor(String name, String price);
23
        long queryCount();
24
25
        ArrayList<MyBean> queryId(int id);
26
27
        ArrayList<MyBean> queryAll();
28
29
30 }
```

```
public class MyDataDao implements MyDataImpl {
    private MyDatabaseHelper mHelper;
    private Dao<MyBean, Integer> dao;
    private Context mContext;
    private static MyDataDao instance;
}
```

```
7
        protected MyDataDao(Context context) {
 8
             this.mContext = context;
 9
             try {
10
                 mHelper = MyDatabaseHelper.getHelper(mContext);
11
                 dao = mHelper.getDao(MyBean.class);
12
             } catch (SQLException e) {
13
                 e.printStackTrace();
14
15
16
17
18
        public static MyDataDao getInstance(Context context) {
19
             if (instance == null) {
20
                 synchronized (MyDataDao.class) {
21
                     if (instance == null) {
                          instance = new MyDataDao(context);
23
24
25
26
27
             return instance;
28
        }
29
30
31
        @Override
32
        public void insert(MyBean myBean) {
33
34
35
            try {
36
37
                 //事务操作
38
                /* TransactionManager.callInTransaction(mHelper.getConnectionSource(), new Callable<
39
            @Override
40
            public Void call() throws Exception {
41
              return null;
42
43
          });*/
44
45
46
                 dao.create(myBean);
47
                 //dao.createOrUpdate(myBean);//和上一行的方法效果一样
48
            } catch (SQLException e) {
49
                 e.printStackTrace();
50
51
        }
52
53
        @Override
55
        public void insert(ArrayList<MyBean> beanArrayList) {
56
             try {
57
                 dao.create(beanArrayList);
             } catch (SQLException e) {
59
                 e.printStackTrace();
60
             }
61
        }
62
63
        @Override
64
        public void update(String name, String price) {
            ArrayList<MyBean> list = null;
65
66
             try {
67
                 list = (ArrayList<MyBean>) dao.queryForEq("name", name);
68
                 if (list != null) {
69
                     for (MyBean bean : list) {
70
                          bean.setPrice(price);
71
                          dao.update(bean);
                          //dao.createOrUpdate(bean);//和上一行的方法效果一样
73
                     }
74
75
                 }
76
             } catch (SQLException e) {
77
                 e.printStackTrace();
78
            }
79
        }
```

```
81
         (a)Override
         public void update2(String columnName, String columnValue) {
83
84
                  //下面这两个代码的意思一样
85
                  dao.updateBuilder().updateColumnValue(columnName, columnValue).u
86
                  //dao.updateRaw("update Book set " + columnName + "=?", new String[]{columnValue},
87
              } catch (SQLException e) {
88
                  e.printStackTrace();
89
90
91
92
         }
93
         @Override
95
         public void update3(String queryColumnName, String queryColumnValue, String
96
              try {
97
                  String sql = "update Book set" + setColumnName + "="" + setColumnValı
98
                  System.out.println("MyDataDao.update3 sql=" + sql);
99
                  dao.updateRaw(sql);
100
101
                  //dao.updateRaw("update Book set price= '33333元' where name= '西游记"");//等价于上
102
              } catch (SQLException e) {
103
                  e.printStackTrace();
104
105
106
107
         @Override
108
         public void delete(String name) {
109
              ArrayList<MyBean> list = null;
110
111
                  list = (ArrayList<MyBean>) dao.queryForEq("name", name);
112
                  if (list != null) {
113
                       for (MyBean bean : list) {
114
                           dao.delete(bean);
115
116
                  }
117
              } catch (SQLException e) {
                  e.printStackTrace();
118
119
120
         }
121
122
         /**
123
       * @return -1:删除数据异常 0: 无数据
124
125
         @Override
126
         public int deleteAll() {
127
             int number = -1;
128
              try {
129
                  number = dao.deleteBuilder().delete();//返回删除的数据条数 例如: 删除1
130
131
                  //dao.deleteBuilder().where().eq("name", "iZ").reset();//????
              } catch (SQLException e) {
                  e.printStackTrace();
134
135
              return number;
136
         }
137
138
         @Override
139
         public ArrayList<String> queryPrice(String name) {
140
             List<MyBean> list = null;
141
              ArrayList<String> strings = null;
142
              try {
143
                  list = dao.queryForEq("name", name);
                  if (list != null) {
                       strings = new ArrayList<>();
                       for (MyBean myBean : list) {
147
                           strings.add(myBean.getPrice());
148
                      }
149
                      /*for (int i = 0; i < list.size(); i++) {
150
               strings.add(list.get(i).getPrice());
151
             }*/
152
153
              } catch (SQLException e) {
154
                  e.printStackTrace();
155
```

```
return strings;
157
         }
         @Override
160
         public String queryAuthor(String name1, String price1) {
161
            List<MyBean> list = null;
162
             String author = "";
163
164
             try {
165
                 list = dao.queryBuilder().where().eq("name", name1).and().eq("price
166
                 if (list != null) {
167
                    for (MyBean myBean : list) {
168
                         author = myBean.getAuthor();
169
170
                 }
171
             } catch (SQLException e) {
                 e.printStackTrace();
173
174
175
             return author;//说明:如果这个author是唯一的,可以这样的返回。如果是多个的话,要这
176
177
         /**
178
179
       * @return 表中数据的个数
180
181
        @Override
182
         public long queryCount() {
183
            long number = 0;
184
             try {
185
                number = dao.queryBuilder().countOf();
186
             } catch (SQLException e) {
187
                 e.printStackTrace();
188
             }
189
             return number;
190
         }
191
192
193
       * @param id 这个id 就是表中,每次插入数据,自己递增的id 字段
194
195
196
         public ArrayList<MyBean> queryld(int id) {
197
             ArrayList<MyBean> list = null;
198
199
200
                 MyBean myBean = dao.queryForId(id);
201
                 if (myBean != null) {
202
                     list = new ArrayList<>();
203
                     list.add(myBean);
204
                 }
205
                 return list;
206
             } catch (SQLException e) {
                 e.printStackTrace();
207
208
209
             return list;
210
         }
211
212
       @Override
213
         public ArrayList<MyBean> queryAll() {
214
           ArrayList<MyBean> list = null;
215
             try {
216
                 list = (ArrayList<MyBean>) dao.queryForAll();
217
218
219
                 if (list != null) {
220
                    return list;
221
                 }
             } catch (SQLException e) {
222
223
                 e.printStackTrace();
224
225
             return list;
226
         }
227
228
229
         public boolean delteTables(Context context, String DBname) {
         //?????
230
```

```
231
             return false;
232
        }
233
234
235
        /**
236
       * 这个方法可以的
237
238
       public boolean delteDatabases(Context context, String DBname) {
239
             return context.deleteDatabase(DBname);
240
241
242
243 }
```

五:测试

源码下载地址

参考文章:

Android快速开发-使用ORMLite操作数据库

鸿洋的博客:

Android ORMLite 框架的入门用法

Android 快速开发系列 ORMLite 框架最佳实践

SQL 语法

SQL UPDATE 语句

OrmLite 官网