[DbUtils 1](#_Toc257837665)

[Tomcat数据库连接池 4](#_Toc257837666)

# DbUtils

|  |
| --- |
| ------------------------DbUtils组件------------------------  package dao;  import java.sql.Connection;  import java.sql.DriverManager;  import java.sql.SQLException;  import java.util.List;  import java.util.Map;  import org.apache.commons.dbutils.DbUtils;  import org.apache.commons.dbutils.QueryRunner;  import org.apache.commons.dbutils.handlers.MapListHandler;  public class UserDao {  private String url = "jdbc:mysql://localhost/guokehua";  private String user = "root";  private String password = "root";    public void query() {  String sql = "select \* from t\_student";  String param[] = {"jin", "23", "宜宾", "1985-08-06"};//sql参数都放在一个数组里面.  DbUtils.*loadDriver*("com.mysql.jdbc.Driver");  try {  Connection conn = DriverManager.*getConnection*(url, user, password);  QueryRunner qr = new QueryRunner();  //1>添加:  int result = qr.update(sql, param);//传入sql语句和参数数组, 自动关闭数据库连接, 都看不见conn对象  //查询(一): 使用:MapListHandler()每条记录转换成一个map对象,  List results = (List) qr.query(conn, sql, new MapListHandler());    DbUtils.*close*(conn);// 结果集已经转移了,关闭数据库后都可以取出数据.  // 遍历results  Map map = null;  for (int i = 0; i < results.size(); i++) {  map = (Map) results.get(i);  System.*out*.print("id:" + map.get("id") + "\t");  System.*out*.print("name:" + map.get("name") + "\t");  System.*out*.print("sex:" + map.get("sex") + "\t");  System.*out*.print("bir:" + map.get("bir") + "\t");  System.*out*.println("add:" + map.get("add"));  }      // //查询(二): 使用BeanListHandler(JavaBeanName.class)把每条记录转换成一个JavaBean对象, JavaBean对象存入List类型的results中; JavaBean的字段名要和数据库字段名相同  // // List results = (List)qr.query(conn, sql, new BeanListHandler(Student.class));  //  // //遍历results(里面存的JavaBean对象)  // Student student = null;  // for (int i = 0; i < results.size(); i++) {  // student = (student) results.get(i);    // System.out.print("id:" + student.getId() + "\t");  // System.out.print("name:" + map.getName() + "\t");  // System.out.print("sex:" + map.getSex() + "\t");  // System.out.print("bir:" + map.getBir() + "\t");  // System.out.println("add:" + map.getAdd());  // }    } catch (SQLException e) {  // TODO Auto-generated catch block  e.printStackTrace();  }  }  } |
| DbUtils类库网址:http://commons.apache.org/dbutils/ |

# Tomcat数据库连接池

|  |
| --- |
| 修改context.xml文件  <?xml version='1.0' encoding='utf-8'?>  <Context reloadable="true">  <WatchedResource>WEB-INF/web.xml</WatchedResource>  <Resource  name="jdbc/MySQL" //当前JNDI的名字:jdbc/MySQL  auth="Container" //验证方式:Container方式  type="javax.sql.DataSource" //资源类型:DataSource  maxActive="100" //  maxldle="30"  maxWait="10000"  username="root"  password="root"  driverClassName="com.mysql.jdbc.Driver"  url="jdbc:mysql://localhost/guokehua"  />  </Context> |
| try{  Context context = new InitialContext();  DataSource ds = (DataSource)context.lookup(“java:/comp/env/jdbc/MySQL");  Connection conn = ds.getConnection();  PreparedStatement pstmt = conn.prepareStatement(sql);  ……//CRUD  pstmt.close();  conn.close();  } |