```java
package com.jiang.apacheDBUtils;

import com.jiang.Entity.Student;
import com.jiang.Resource.DataSourceUtil;
import org.apache.commons.dbutils.QueryRunner;
import org.apache.commons.dbutils.handlers.*;

import javax.sql.DataSource;
import java.math.BigDecimal;
import java.sql.SQLException;
import java.util.List;
import java.util.Map;

public class Test {
    //查询,自动提交事务
    public static void testArrayHandler(){

        QueryRunner runner=new QueryRunner(DataSourceUtil.getC3P0DataSource());
//自动提交事务
        try {
            Object[] student=runner.query("select * from STUDENTINFO where
UNO>?",new ArrayHandler(),1);
            System.out.println(student[0]+"-----"+student[1]);//用ArrayHandler只显示一
行数据放在数组里面

        } catch (SQLException e) {
            e.printStackTrace();
        }
    }


    public static void testArrayListHandler(){

        QueryRunner runner=new QueryRunner(DataSourceUtil.getC3P0DataSource());
//自动提交事务
        try {
            List<Object[]> students=runner.query("select * from STUDENTINFO where
UNO>?",new ArrayListHandler(),1);
            for(Object[] student:students) {
                System.out.println(student[0]+"--"+student[1]+"--"+student[2]+"--
"+student[3]);//用ArrayHandler只显示一行数据放在数组里面
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
```

```java
    public static void testBeanHandler(){

        QueryRunner runner=new QueryRunner(DataSourceUtil.getC3P0DataSource());
//自动提交事务
        Student student= null;
        try {
            student = runner.query("select * from STUDENTINFO where UNO>?",new
BeanHandler<Student>(Student.class),1);
        } catch (SQLException e) {
            e.printStackTrace();
        }
        System.out.println(student.getSno()+"--"+student.getSname()); //只能获取一行
数据
    }

    public static void testBeanListHandler(){
        QueryRunner runner=new QueryRunner(DataSourceUtil.getC3P0DataSource());
        try {
            List<Student> students=runner.query("select * from STUDENTINFO where
UNO>?",new BeanListHandler<Student>(Student.class),1);
            for(Student student:students){
                System.out.println(student.getSno()+"--"+student.getSname());  //可以获
得多行数据
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }

    }

    public static void testBeanMapHandler(){
        QueryRunner runner=new QueryRunner(DataSourceUtil.getC3P0DataSource());
        try {
            Map<BigDecimal,Student>  students=runner.query("select * from
STUDENTINFO where UNO>?",new BeanMapHandler<BigDecimal,Student>
(Student.class,"id"),1);
            for(BigDecimal key:students.keySet()){
                System.out.println(students.get(key).getSno()+"--
"+students.get(key).getSname());  //可以获得多行数据
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }

    }
```

```java
    public static void main(String[] args) {
        // testArrayHandler();
        //testArrayListHandler();
        testBeanHandler();
    }

}
```