

# 05 JDBC 事务处理

JDBC

## 一：事务处理

### 1、准备数据创建表

```
1. CREATE TABLE account (  
2.     id INT PRIMARY KEY AUTO_INCREMENT,  
3.     NAME VARCHAR(10),  
4.     balance DOUBLE  
5. )
```

### 2、添加数据

```
1. INSERT INTO account (NAME, balance) VALUES ('Jack', 1000), ('Rose', 1000);
```

## 二：执行事务

### 1、转账案例

```
1. @Test  
2.     public void test11() throws Exception {  
3.         Connection conn = null;  
4.         PreparedStatement pstmt1 = null;  
5.         PreparedStatement pstmt2 = null;  
6.         try {  
7.             //1. 获取连接  
8.             conn = JDBCUtils.getConnection();  
9.             //开启事务  
10.            conn.setAutoCommit(false);
```

```

11.         //定义sql
12.         // 张三 - 500
13.         String sql1 = "update account set balance = balance - ?
where id = ?";
14.         // 李四 + 500
15.         String sql2 = "update account set balance = balance + ?
where id = ?";
16.         //3. 获取执行sql对象
17.         pstmt1 = conn.prepareStatement(sql1);
18.         pstmt2 = conn.prepareStatement(sql2);
19.         //4. 设置参数
20.         pstmt1.setDouble(1,500);
21.         pstmt1.setInt(2,1);
22.         pstmt2.setDouble(1,500);
23.         pstmt2.setInt(2,2);
24.         //执行sql
25.         pstmt1.executeUpdate();
26.         // 手动制造异常
27.         int i = 3/0;
28.
29.         pstmt2.executeUpdate();
30.         //提交事务
31.         conn.commit();
32.     } catch (Exception e) {
33.         //事务回滚
34.         if(conn != null) {
35.             conn.rollback();
36.         }
37.         e.printStackTrace();
38.     }finally {
39.         JDBCUtils.close(pstmt1,conn);
40.         JDBCUtils.close(pstmt2,null);
41.     }

```