

声明式事务管理

DeclarativeTransactionDemo

```
|
|-----tarena
|
|-----spring-config.xml
```

```
<!-- 加入Spring2Core -->
<!-- 加入Spring2AOP -->
<!-- 加入Spring2PersistenceCore -->
<!-- 加入Spring2PersistenceJDBC -->
<!-- 加入MySQL -->
```

步骤一，

```
public class User {

    private int id;
    private String name;

    public User() {
    }

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getName() {
```

实验三.txt

```
        return name;
    }

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

步骤二，

```
public interface IUserDao {
    public void find(int id);
    public void insert(User user);
    public void update(User user);
    public void delete(User user);
}
```

步骤三，

```
public class UserDaoImpl implements IUserDao {

    // 关联的属性
    private JdbcTemplate jt;

    // 注入方法
    public void setDataSource(DataSource dataSource) {
        jt = new JdbcTemplate(dataSource);
        if (jt != null) {
            System.out.println("jt模板创建成功");
        }
    }

    public void delete(User user) {
        System.out.println("正在删除用户。。。");
    }

    @Transactional(readOnly = true)
    public void find(int id) {
```

实验三.txt

```
System.out.println("正在查询用户。。。");
String sql = "SELECT * FROM user WHERE
user_id = ?";

Object[] args = { id };
List<User> users = jt.queryForList(sql, args);
// 返回值为一个java.util.LinkedHashMap类
Iterator it = users.iterator();
while (it.hasNext()) {
    Map userMap = (Map) it.next();

System.out.print(userMap.get("user_id") + "\t");

System.out.print(userMap.get("user_name") + "\t");

System.out.println(userMap.get("user_gender"));
    }
}

@Transactional(propagation = Propagation.REQUIRED)
public void insert(User user) {
    System.out.println("正在增加用户。。。");
    String sql = "INSERT INTO
user(user_name,user_gender) VALUES(?,?)";
    Object[] args = { user.getUser_name(),
user.getUser_gender() };
    int i = jt.update(sql, args);
    if (i > 0) {
        System.out.println("插入成功");
        // 定会抛出异常，事务回滚
        //Integer.parseInt("abc123");
    }
}

public void update(User user) {
    System.out.println("正在修改用户。。。");
}

}
```

实验三.txt

步骤四,

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:tx="http://www.springframework.org/schema/tx"
xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-2.0.xsd
http://www.springframework.org/schema/tx
http://www.springframework.org/schema/tx/spring-tx-2.0.xsd">

    <!-- 修改XML头信息 -->

    <!-- 带连接池功能的
org.apache.commons.dbcp.BasicDataSource -->
    <!-- 数据源 -->
    <bean id="DriverManagerDataSource"

class="org.springframework.jdbc.datasource.DriverManagerDataSour
ce">
        <property name="driverClassName">

<value>com.mysql.jdbc.Driver</value>
        </property>
        <property name="url">

<value>jdbc:mysql://localhost:3306/test</value>
        </property>
        <property name="username">
            <value>root</value>
        </property>
        <property name="password">
            <value>admin</value>
        </property>
    </bean>
```

实验三.txt

```
<!-- 数据源事务管理器 -->
<bean id="DataSourceTransactionManager"
class="org.springframework.jdbc.datasource.DataSourceTransaction
Manager">
    <property name="dataSource">
        <ref bean="DriverManagerDataSource"
/>
    </property>
</bean>

<!-- 持久层 -->
<bean id="UserDaoImpl" class="tarena.UserDaoImpl">
    <property name="dataSource">
        <ref bean="DriverManagerDataSource"
/>
    </property>
</bean>

<!-- Spring2声明事务管理 -->
<tx:annotation-driven
transaction-manager="DataSourceTransactionManager" />

</beans>
```

步骤五，

```
public class Test {
```

```
    public static void main(String[] args) {
```

```
        ApplicationContext context = new
ClassPathXmlApplicationContext(
                                "tarena/spring-config.xml");
```

```
        IUserDao userDao =
(IUserDao)context.getBean("UserDaoImpl");
```

实验三.txt

```
//userDao.find(5);

User user = new User();
user.setUser_name("zhaojun");
user.setUser_gender("m");

userDao.insert(user);
    }
}
```

步骤六，
jt模板创建成功
正在增加用户。。。
插入成功