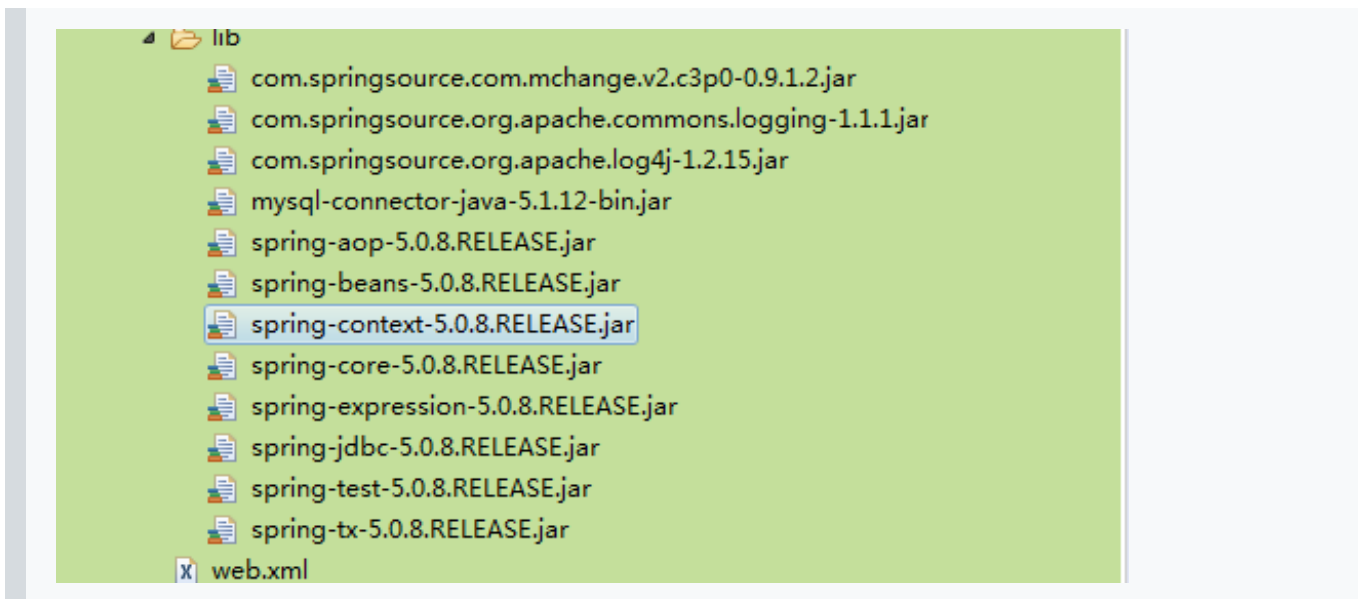


16 Spring_整合jdbc-JdbcTemplate模板

Spring

一：导入JAR包



二：JdbcTemplate模板对象

1、数据库表

文件 编辑 查看 窗口 帮助		
导入向导	导出向导	筛选向导
网格查看	表单查看	备注
十六进制		
id	name	money
1	小张	(Null)
2	小王	(Null)
3	小李	(Null)
4	小狗	(Null)
5	小熊	(Null)
6	小王	(Null)
9	小张	123

2、JdbcTemplate模版

```

1.  @Test
2.      public void getVoid() throws PropertyVetoException{
3.          //1.准备连接池
4.          ComboPooledDataSource dataSource = new ComboPooledDataSource();
5.          dataSource.setDriverClass("com.mysql.jdbc.Driver");
6.
7.          dataSource.setJdbcUrl("jdbc:mysql://172.16.10.164:3306/hibernates?useUnicode=true&characterEncoding=utf-8");
8.          dataSource.setUser("root");
9.          dataSource.setPassword("root");
10.         //2.创建连接池
11.         JdbcTemplate jdbcTemplate = new JdbcTemplate();
12.         jdbcTemplate.setDataSource(dataSource);
13.
14.         //3、编写SQL,并执行
15.         String sql="INSERT INTO users values (null,'小张',234)";
16.         jdbcTemplate.update(sql);

```

三:JDBC模版API

1、实体类

```
1. public class Users {
2.     private Integer id;
3.     private String name;
4.     private float money;
5.     //对应的set get方法
6. }
```

2、接口

```
1. public interface IUsersDao {
2.     /**
3.      * 添加
4.      */
5.     void save(Users us) throws Exception;
6.     /**
7.      * 删除
8.      */
9.     void delete(Integer id) throws Exception;
10.    /**
11.     * 修改
12.     */
13.    void update(Users us) throws Exception;
14.    /**
15.     * 查询返回对象
16.     */
17.    Users getById(Integer id) throws Exception;
18.    /**
19.     * 查询返回总记录数
20.     */
21.    int getTotalCount() throws Exception;
22.    /**
23.     * 查询返回集合对象
24.     */
25.    List<Users> getAll() throws Exception;
26. }
```

3、接口实现类

```
1. import java.sql.ResultSet;
2. import java.sql.SQLException;
3. import java.util.List;
```

```
4. import org.springframework.jdbc.core.JdbcTemplate;
5. import org.springframework.jdbc.core.RowMapper;
6. import com.spring.Dao.IUsersDao;
7. import com.spring.pojo.Users;
8.
9. public class UsersDaoImpl implements IUsersDao {
10.     //必须要有get set 方法方便Spring注入
11.     private JdbcTemplate jt;
12.
13.     @Override
14.     public void save(Users us) throws Exception {
15.         String sql = "INSERT INTO users values (null,?,?)";
16.         jt.update(sql, us.getName(), us.getMoney());
17.     }
18.
19.     @Override
20.     public void delete(Integer id) throws Exception {
21.         String sql = "delete from users where id=?";
22.         jt.update(sql, id);
23.     }
24.
25.     @Override
26.     public void update(Users us) throws Exception {
27.         String sql = "update users set name=?,money=? where id=?";
28.         jt.update(sql, us.getName(), us.getMoney(), us.getId());
29.     }
30.
31.     @Override
32.     public Users getById(Integer id) throws Exception {
33.         String sql = "SELECT * FROM users where id=?";
34.         return jt.queryForObject(sql, new RowMapper<Users>() {
35.             @Override
36.             public Users mapRow(ResultSet arg0, int arg1) throws SQLException {
37.                 Users users = new Users();
38.                 users.setId(arg0.getInt("id"));
39.                 users.setName(arg0.getString("name"));
40.                 users.setMoney(arg0.getFloat("money"));
41.                 return users;
42.             }
43.         }, id);
44.     }
45.
46.     @Override
47.     public int getTotalCount() throws Exception {
```

```

48.         String sql = "SELECT count(*) FROM users ";
49.         Integer in = jt.queryForObject(sql, Integer.class);
50.         return in;
51.     }
52.
53.     @Override
54.     public List<Users> getAll() throws Exception {
55.         String sql = "SELECT * FROM users ";
56.         return jt.query(sql, new RowMapper<Users>() {
57.             @Override
58.             public Users mapRow(ResultSet arg0, int arg1) throws SQLExc
59. eption {
60.                 Users users = new Users();
61.                 users.setId(arg0.getInt("id"));
62.                 users.setName(arg0.getString("name"));
63.                 users.setMoney(arg0.getFloat("money"));
64.                 return users;
65.             }
66.         });
67.     }
68. }

```

四:Dao配置到spring容器

```

1.     <?xml version="1.0" encoding="UTF-8"?>
2.     <beans xmlns="http://www.springframework.org/schema/beans"
3.         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4.         xsi:schemaLocation="http://www.springframework.org/schema/beans
5. http://www.springframework.org/schema/beans/spring-beans.xsd">
6.         <!--1.将连接池放入Spring容器中-->
7.         <bean name="dataSource"
8.             class="com.mchange.v2.c3p0.ComboPooledDataSource">
9.             <property name="driverClass" value="com.mysql.jdbc.Driver">
10.             </property>
11.             <property name="jdbcUrl"
12. value="jdbc:mysql://172.16.10.164:3306/hibernates?
13. useUnicode=true&characterEncoding=utf-8"></property>
14.             <property name="user" value="root"></property>
15.             <property name="password" value="root"></property>
16.         </bean>
17.         <!--2、将JdbcTemplate对象放入容器中 -->
18.         <bean name="jdbcTemplate"

```

```

14.     class="org.springframework.jdbc.core.JdbcTemplate">
15.         <property name="dataSource" ref="dataSource"></property>
16.     </bean>
17.     <!--3、将IUsesDao放入Spring容器中 -->
18.     <bean name="userDao" class="com.spring.Dao.imp.UsersDaoImpl">
19.         <property name="jt" ref="jdbcTemplate"></property>
20.     </bean>
21. </beans>

```

五：测试

```

1.     @RunWith(SpringJUnit4ClassRunner.class)
2.     @ContextConfiguration("classpath:applicationContext.xml")
3.     public class UserDemo {
4.
5.         @Resource(name="userDao")
6.         private IUsersDao usersDao;
7.
8.         @Test
9.         public void getVoid01() throws Exception{
10.             Users users = new Users();
11.             users.setName("毛猫");
12.             users.setMoney(23.2f);
13.             usersDao.save(users);
14.         }
15.     }

```

六、扩展:

1、JdbcDaoSupport

- 1、可以继承JdbcDaoSupport，根据连接池创建JDBC模版
- 2、就不用需要准备JDBC模版了，直接从父类获取即可

```

1.     public class UsersDaoImpl extends JdbcDaoSupport implements IUsersDao
2.     {

```

```

3.         @Override
4.         public void save(Users us) throws Exception {
5.             String sql = "INSERT INTO users values (null,?,?)";
6.             super.getJdbcTemplate().update(sql, us.getName(), us.getMoney()
7.         );
8.     }
9.     //其他则相同即可 super.getJdbcTemplate().XXXXX

```

2、配置

1、dao直接注入到数据源

```

1. <beans xmlns="http://www.springframework.org/schema/beans"
2.       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3.       xsi:schemaLocation="http://www.springframework.org/schema/beans
4. http://www.springframework.org/schema/beans/spring-beans.xsd">
5.     <!--1.将连接池放入Spring容器中-->
6.     <bean name="dataSource"
7.           class="com.mchange.v2.c3p0.ComboPooledDataSource">
8.         <property name="driverClass" value="com.mysql.jdbc.Driver">
9.         </property>
10.        <property name="jdbcUrl"
11. value="jdbc:mysql://172.16.10.164:3306/hibernates?
12. useUnicode=true&characterEncoding=utf-8"></property>
13.        <property name="user" value="root"></property>
14.        <property name="password" value="root"></property>
15.    </bean>
16.    <!--3、将IUsesDao放入Spring容器中 -->
17.    <bean name="userDao" class="com.spring.Dao.imp.UsersDaoImpl">
18.        <!-- <property name="jt" ref="jdbcTemplate"></property> -->
19.        <property name="dataSource" ref="dataSource"></property>
20.    </bean>
21. </beans>

```

七、引入外部Properties文件信息:

1、properties文件

```
1. jdbc.driverClass=com.mysql.jdbc.Driver
2. jdbc.jdbcUrl=jdbc:mysql://192.168.43.173:3306/hibernates?
   useUnicode=true&characterEncoding=utf-8
3. jdbc.user=root
4. jdbc.password=root
```

2、XML配置文件

1、开启匿名空

间:xmlns:context="http://www.springframework.org/schema/context"

```
1. <!--指定读取properties文件 -->
2. <context:property-placeholder location="classpath:db.properties"/>
3. <!--1.将连接池放入Spring容器中-->
4. <bean name="dataSource"
   class="com.mchange.v2.c3p0.ComboPooledDataSource">
5.     <property name="driverClass" value="{jdbc.driverClass}"></property>
6.     //获取其他properties信息同样式${}
7. </bean>
```