MyBatis（三）

通用Mapper

■什么是通用Mapper
- 实现Mybatis单表的增删改查。
  - persistence-api-1.0.jar
  - mapper-3.3.8.jar

■注解（POJO）
- @Table(name="")
- @Id
- @Column(name="")
- @Transient

■集成

- MapperHelper mapperHelper = new MapperHelper();
- mapperHelper.registerMapper(Mapper.class);
- mapperHelper.processConfiguration(session.getConfiguration());

■文档

- http://git.oschina.net/free/Mapper

Emp.java

```java
package model;
@Table(name = "EMP_")
public class Emp {
    @Id
    @Column(name = "ID_")
    private String id;
    @Column(name = "XM_")
    private String xm;
    @Column(name = "XB_")
    private String xb;
    @Column(name = "BM_")
    private String bm;
    @Column(name = "YY_")
    private String yy;
    @Column(name = "JS_")
    private String js;
    @Column(name = "BZ_")
    private String bz;
    ......
}
```

EmpMapper.java

```java
package mapper;
public interface EmpMapper extends Mapper<Emp> {
}
```

&EmpMapper.xml

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC
"-//mybatis.org//DTD Mapper 3.0//EN"
"http://mybatis.org/dtd/mybatis-3-mapper.dtd" >
<mapper namespace="mapper.EmpMapper">
</mapper>
```

mybatis-config.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE configuration PUBLIC "-//mybatis.org//DTD Config 3.0//EN"
"http://mybatis.org/dtd/mybatis-3-config.dtd">
<configuration>
    <settings><setting name="jdbcTypeForNull" value="NULL" /></settings>
    <environments default="mysql">
        <environment id="mysql">
            <transactionManager type="JDBC" />
            <dataSource type="POOLED">
                <property name="driver" value="com.mysql.jdbc.Driver" />
                <property name="url" value="jdbc:mysql://localhost:3306/mydb" />
                <property name="username" value="root" />
                <property name="password" value="123456" />
            </dataSource>
        </environment>
    </environments>
    <mappers>
        <mapper resource="mapper/mysql/EmpMapper.xml" />
    </mappers>
</configuration>
```

Demo0301.java

```java
InputStream in = Resources.getResourceAsStream("mybatis-config.xml");
SqlSessionFactory factory = new SqlSessionFactoryBuilder().build(in);
SqlSession session = factory.openSession();
MapperHelper mapperHelper = new MapperHelper();
mapperHelper.registerMapper(Mapper.class);
mapperHelper.processConfiguration(session.getConfiguration());
EmpMapper empMapper = session.getMapper(EmpMapper.class);
Emp emp = new Emp();
emp.setId(UUID.randomUUID().toString().replace("-", ""));
emp.setXm("路人丙");
emp.setXb("男");
emp.setBm("市场部");
empMapper.insertSelective(emp);
session.commit();
session.close();
```

Demo0302.java

```java
InputStream in = Resources.getResourceAsStream("mybatis-config.xml");
SqlSessionFactory factory = new SqlSessionFactoryBuilder().build(in);
SqlSession session = factory.openSession();
MapperHelper mapperHelper = new MapperHelper();
mapperHelper.registerMapper(Mapper.class);
mapperHelper.processConfiguration(session.getConfiguration());
EmpMapper empMapper = session.getMapper(EmpMapper.class);
List<Emp> list = empMapper.selectAll();
System.out.println(list.size());
session.close();
```

PageHelper

- 什么是PageHelper
  - 实现Mybatis物理分页的插件。
    - jsqlparser-0.9.5.jar
    - pagehelper-4.1.6.jar
- 引入分页插件
  - `<plugins>`
  - `   <plugin interceptor="com.github.pagehelper.PageHelper" />`
  - `</plugins>`
- 使用分页插件
  - **PageHelper.startPage(int pageNum, int pageSize);**
  - **Page.getTotal() Page.getResult()**
  - **PageInfo.getTotal() PageInfo.getList()**
- · · ■文档
  - http://git.oschina.net/free/Mybatis_PageHelper

mybatis-config.xml

```xml
<configuration>
    <settings><setting name="jdbcTypeForNull" value="NULL" /></settings>
    <plugins>
        <plugin interceptor="com.github.pagehelper.PageHelper" />
    </plugins>
    <environments default="mysql">
        <environment id="mysql">
            <transactionManager type="JDBC" />
            <dataSource type="POOLED">
                <property name="driver" value="com.mysql.jdbc.Driver" />
                <property name="url" value="jdbc:mysql://localhost:3306/mydb" />
                <property name="username" value="root" />
                <property name="password" value="123456" />
            </dataSource>
        </environment>
    </environments>
    <mappers>
        <mapper resource="mapper/mysql/EmpMapper.xml" />
    </mappers>
</configuration>
```

Demo0303.java

```java
InputStream in = Resources.getResourceAsStream("mybatis-config.xml");
SqlSessionFactory factory = new SqlSessionFactoryBuilder().build(in);
SqlSession session = factory.openSession();
MapperHelper mapperHelper = new MapperHelper();
mapperHelper.registerMapper(Mapper.class);
mapperHelper.processConfiguration(session.getConfiguration());
EmpMapper empMapper = session.getMapper(EmpMapper.class);
PageHelper.startPage(1, 10);
Page<Emp> page = (Page<Emp>) empMapper.selectAll();
System.out.println(page.getTotal());
System.out.println(page.getResult().size());
session.close();
```

总结

■通用Mapper

■PageHelper

■MyBatis-Spring

缓存：

https://www.cnblogs.com/xdp-gacl/p/4270403.html