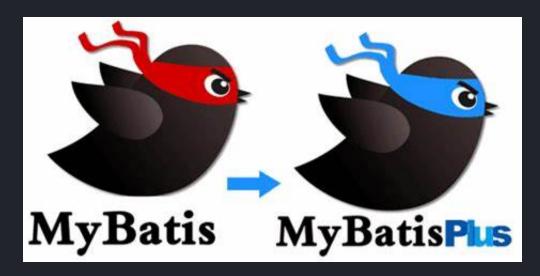
第一篇 整合SpringBoot快速 开始增删改查

官网文档地址: https://mybatis.plus/guide/



一、Spring Boot整合Mybatis Plus

通过maven坐标引入依赖

```
<dependency>
  <groupId>org.projectlombok</groupId>
  <artifactId>lombok</artifactId>
  <optional>true</optional>
</dependency>
```

application配置数据源及日志输出级别

```
# 配置数据源
spring:
    datasource:
        driver-class-name: com.mysql.cj.jdbc.Driver
        url: jdbc:mysql://localhost:3306/db_soft1921?
useUnicode=true&characterEncoding=utf8&serverTimezone=Asia
/Shanghai
        username: root
        password: root

# 配置Mybatis
mybatis-plus:
    configuration:
        log-impl: org.apache.ibatis.logging.stdout.StdOutImpl
        mapper-locations: classpath*:/mapper/*Mapper.xml
        type-aliases-package: top.mqxu.boot.mbp.domain
```

第三步: 配置Mybatis的Mapper类文件的包扫描路径

```
@SpringBootApplication
@MapperScan(basePackages = {"top.mqxu.boot.mbp.mapper"})
public class SpringBootMybatisplusApplication {
    public static void main(String[] args) {

    SpringApplication.run(SpringBootMybatisplusApplication.cl
    ass, args);
    }
}
```

二、编码构建实体和Mapper

```
@Data
@Builder
@AllArgsConstructor
@NoArgsConstructor
public class User {
    private Long id;
    private String name;
    private Integer age;
    private String email;
}
```

编写Mapper类 UserMapper.java

```
public interface UserMapper extends BaseMapper<User> {
}
```

三、CRUD基础使用案例

3.1.增加一条记录

```
User user =
User.builder().name("Rose").age(19).email("rose@baomidou.c
om").build();

int row = userMapper.insert(user);
assertEquals(1, row);

System.out.println("雪花算法id: " + user.getId());
```

写了上面的java代码,MP将会自动的根据java代码构造下面的SQL去数据库执行。注意:主键默认采用雪花算法

```
# 主键自动填充了雪花算法
INSERT INTO user ( id, name, age)
VALUES ( ?, ?, ? )
```

3.2.根据主键删除一条记录

```
int rows = userMapper.deleteById(1170243901535006722L);
System.out.println("影响记录数: " + rows);
```

1170243901535006722L是数据插入的时候根据雪花算法生成的id

```
DELETE FROM user
WHERE id=?
```

3.3.根据条件删除记录

```
//构造条件
Map<String, Object> map = new HashMap<>();
map.put("name", "Jack");
map.put("age", 20);
//执行删除
int rows = userMapper.deleteByMap(map);
assertEquals(1, rows);
System.out.println("影响记录数: " + rows);
```

3.4.根据主键查询一条数据

```
User user = userMapper.selectById(1089911557332887553L);
System.out.println(user);
```

3.5.根据ids批量查找数据

对应的sql语句为

```
SELECT id, name, age, email

FROM user

WHERE id IN ( ? , ? , ? )
```

3.6.根据指定参数查询

```
Map<String, Object> map = new HashMap<>();
//map的key指代的是mysql表中的列名,并非java实体的属性名
map.put("name", "Jone");

List<User> list = userMapper.selectByMap(map);
list.forEach(System.out::println);

SELECT id,name,age,email
FROM user
WHERE name = ?
```

3.7.指定查询结果字段

1.

```
QueryWrapper<User> query = new QueryWrapper<>();
query.select("name", "age") //指定查询结果字段
.in("age", Arrays.asList(18, 19, 20))
.last("limit 2");
List<User> list = userMapper.selectList(query);
list.forEach(System.out::println);
```

```
SELECT name, age

FROM user

WHERE age IN (?,?,?)

LIMIT 2
```

2.

```
QueryWrapper<User> query = new QueryWrapper<>();
query.like("name", "J%") //like是MP的条件构造器,表示"模糊查询"
    .lt("age", 30) //lt是MP的条件构造器,表示"小于"关系
    .select("name", "age");
List<Map<String, Object>> maps =
userMapper.selectMaps(query);
maps.forEach(System.out::println);

SELECT name,age
FROM user
WHERE name LIKE ?
AND age < ?
```

3.8.通过主键id修改数据

```
User user = new User();
user.setId(1088248199570832385L);
user.setAge(18);
user.setEmail("mybatis-plus@163.com");
int rows = userMapper.updateById(user);
System.out.println("影响记录数: " + rows);

UPDATE user
SET age=?, email=?
WHERE id=?
```

3.9.根据UpdateWrapper自定义条件修 改数据

```
UpdateWrapper<User> update = new UpdateWrapper<>();
update.eq("name", "Jack").eq("age", 28); //eq是MP的条件构造器,表示"等于"关系

User user = new User();
user.setAge(29);
user.setEmail("hadoopcn2@163.com");
int rows = userMapper.update(user, update);
System.out.println("影响记录数: " + rows);

UPDATE user
SET age=?, email=?
WHERE name = ?
AND age = ?
```

四、附录---测试SQL:

```
DROP TABLE IF EXISTS user;

CREATE TABLE user

(
    id BIGINT(20) NOT NULL COMMENT '主键ID',
    name VARCHAR(30) NULL DEFAULT NULL COMMENT '姓名',
    age INT(11) NULL DEFAULT NULL COMMENT '年龄',
    email VARCHAR(50) NULL DEFAULT NULL COMMENT '邮箱',
    PRIMARY KEY (id)
);
```

其对应的数据库 Data 脚本如下:

```
INSERT INTO user (id, name, age, email) VALUES
(1, 'Jone', 18, 'test1@baomidou.com'),
(2, 'Jack', 20, 'test2@baomidou.com'),
(3, 'Tom', 28, 'test3@baomidou.com'),
(4, 'Sandy', 21, 'test4@baomidou.com'),
(5, 'Billie', 24, 'test5@baomidou.com');
```

