

一、基于MongoRepository开发CRUD

Spring Data提供了对mongodb数据访问的支持，我们只需要继承MongoRepository类，按照Spring Data规范就可以了

SpringData 方法定义规范

Keyword	Sample	JPQL snippet
And	findByLastnameAndFirstname	... where x.lastname = ?1 and x.firstname = ?2
Or	findByLastnameOrFirstname	... where x.lastname = ?1 or x.firstname = ?2
Between	findByStartDateBetween	... where x.startDate between 1? and ?2
LessThan	findByAgeLessThan	... where x.age < ?1
GreaterThan	findByAgeGreaterThan	... where x.age > ?1
After	findByStartDateAfter	... where x.startDate > ?1
Before	findByStartDateBefore	... where x.startDate < ?1
IsNull	findByAgeIsNull	... where x.age is null
IsNotNull,NotNull	findByAge(Is)NotNull	... where x.age not nullsdn.net/u011781521

Keyword	Sample	JPQL snippet
Like	findByFirstnameLike	... where x.firstname like ?1
NotLike	findByFirstnameNotLike	... where x.firstname not like ?1
StartingWith	findByFirstnameStartingWith	... where x.firstname like ?1 (parameter bound with appended %)
EndingWith	findByFirstnameEndingWith	... where x.firstname like ?1 (parameter bound with prepended %)
Containing	findByFirstnameContaining	... where x.firstname like ?1 (parameter bound wrapped in %)
OrderBy	findByAgeOrderByLastnameDesc	... where x.age = ?1 order by x.lastname desc
Not	findByLastnameNot	... where x.lastname <> ?1
In	findByAgeIn(Collection<Age> ages)	... where x.age in ?1
NotIn	findByAgeNotIn(Collection<Age> age)	... where x.age not in ?1
TRUE	findByActiveTrue()	... where x.active = true
FALSE	findByActiveFalse()	... where x.active = falsess://blog.csdn.net/u011781521

- 1、不是随便声明的，而需要符合一定的规范
- 2、 查询方法以find | read | get开头
- 3、 涉及条件查询时，条件的属性用条件关键字连接
- 4、 要注意的是：条件属性首字母需要大写
- 5、 支持属性的级联查询，但若当前类有符合条件的属性则优先使用，而不使用级联属性,若需要使用级联属性，则属性之间使用_强制进行连接

1、添加Repository类

```
1 @Repository
2 public interface UserRepository extends MongoRepository<User, String> {
3 }
```

2、编写测试类

```
1 @RestController
2 @RequestMapping("/mongo2")
3 public class TestMongo2 {
4
5     @Autowired
6     private UserRepository userRepository;
7
8     //添加
9     @GetMapping("create")
10    public void createUser() {
11        User user = new User();
12        user.setAge(20);
13        user.setName("张三");
14        user.setEmail("3332200@qq.com");
15        User user1 = userRepository.save(user);
16    }
17
18    //查询所有
19    @GetMapping("findAll")
20    public void findUser() {
21        List<User> userList = userRepository.findAll();
22        System.out.println(userList);
23    }
24
25    //id查询
26    @GetMapping("findById")
27    public void getById() {
28        User user = userRepository.findById("60b8d57ed539ed5b124942de").get();
29        System.out.println(user);
30    }
31
32    //条件查询
33    @GetMapping("findQuery")
```

```

34     public void findUserList() {
35         User user = new User();
36         user.setName("张三");
37         user.setAge(20);
38         Example<User> userExample = Example.of(user);
39         List<User> userList = userRepository.findAll(userExample);
40         System.out.println(userList);
41     }
42
43     //模糊查询
44     @GetMapping("findLike")
45     public void findUsersLikeName() {
46         //创建匹配器，即如何使用查询条件
47         ExampleMatcher matcher = ExampleMatcher.matching() //构建对象
48             .withStringMatcher(ExampleMatcher.StringMatcher.CONTAINING) //改变默认
49             .withIgnoreCase(true); //改变默认大小写忽略方式：忽略大小写
50         User user = new User();
51         user.setName("三");
52         Example<User> userExample = Example.of(user, matcher);
53         List<User> userList = userRepository.findAll(userExample);
54         System.out.println(userList);
55     }
56
57     //分页查询
58     @GetMapping("findPage")
59     public void findUsersPage() {
60         Sort sort = Sort.by(Sort.Direction.DISC, "age");
61         //0为第一页
62         Pageable pageable = PageRequest.of(0, 10, sort);
63         //创建匹配器，即如何使用查询条件
64         ExampleMatcher matcher = ExampleMatcher.matching() //构建对象
65             .withStringMatcher(ExampleMatcher.StringMatcher.CONTAINING) //改变默认
66             .withIgnoreCase(true); //改变默认大小写忽略方式：忽略大小写
67         User user = new User();
68         user.setName("三");
69         Example<User> userExample = Example.of(user, matcher);
70         //创建实例
71         Example<User> example = Example.of(user, matcher);
72         Page<User> pages = userRepository.findAll(example, pageable);
73         System.out.println(pages);
74     }
75
76     //修改

```

```

77     @GetMapping("update")
78     public void updateUser() {
79         User user = userRepository.findById("60b8d57ed539ed5b124942de").get();
80         user.setName("张三_1");
81         user.setAge(25);
82         user.setEmail("883220990@qq.com");
83         User save = userRepository.save(user);
84         System.out.println(save);
85     }
86
87     //删除
88     @GetMapping("delete")
89     public void delete() {
90         userRepository.deleteById("60b8d57ed539ed5b124942de");
91     }
92 }

```

3、SpringData方法规范

```

1  @GetMapping("testMethod2")
2  public void testMethod2() {
3      List<User> users = userRepository.findByNameLike("张");
4      System.out.println(users);
5  }
6
7  @GetMapping("testMethod1")
8  public void testMethod1() {
9      List<User> users = userRepository.findByName("张三");
10     System.out.println(users);
11 }
12
13 @Repository
14 public interface UserRepository extends MongoRepository<User, String> {
15
16     List<User> findByName(String name);
17
18     List<User> findByNameLike(String name);
19 }

```

