



链滴

# Spring Data MongoDB 的复杂查询示例

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来源网站: 链滴

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## 1、创建一个QueryBuilder

```
private QueryBuilder getQueryBuilder(PersonRecordQueryDTO personRecordQueryDTO) {
    log.debug("get personRecords by query : {}", personRecordQueryDTO);
    QueryBuilder queryBuilder = new QueryBuilder();

    if (personRecordQueryDTO.getPersonType().equals(PersonType.PERSON_TYPE_STRANGER)) {
        // 陌生人
        queryBuilder.and("isMatched").is(false);
    } else {
        if (personRecordQueryDTO.getPersonType().equals(PersonType.PERSON_TYPE_STAFF)) {
            queryBuilder.and("matched.type").is(PersonType.PERSON_TYPE_STAFF.toString());
        } else {
            queryBuilder.and("matched.type").is(PersonType.PERSON_TYPE_VIP.toString());
        }

        if (Objects.nonNull(personRecordQueryDTO.getName())) {
            queryBuilder.and("matched.name").regex(Pattern.compile("^.*" + personRecordQueryDTO.getName() + ".*$"));
        }
    }

    // 时间条件
    getQueryBuild(personRecordQueryDTO.getStartTime(), personRecordQueryDTO.getEndTime(), queryBuilder);
    if (Objects.nonNull(personRecordQueryDTO.getIps()) && personRecordQueryDTO.getIps().size() != 0) {
        queryBuilder.and("ipc_ip").in(personRecordQueryDTO.getIps());
    }

    log.debug("mongo is : {}", queryBuilder.get());
    return queryBuilder;
}
```

## 2、查询

```
public Page getPersonRecords(PersonRecordQueryDTO personRecordQueryDTO, Pageable pageable) {
    QueryBuilder queryBuilder = getQueryBuilder(personRecordQueryDTO);
    //查询结果集条件
    BasicDBObject fieldsObject = new BasicDBObject();
    Query query = new BasicQuery(queryBuilder.get().toString(), fieldsObject.toJson());
    // 总页数
    long total = mongoTemplate.count(query, PersonRecordMongoDB.class);
    //查询结果集
    List list = mongoTemplate.find(query.with(pageable), PersonRecordMongoDB.class);
    //手动分页
    return new PageImpl<>(list, pageable, total);
}
```

## 3、排序

```
QueryBuilder queryBuilder = new QueryBuilder();
if (Objects.nonNull(ipClds) && !ipClds.isEmpty()) {
    queryBuilder.and("ipc_ip").in(ipClds.split(","));
}
queryBuilder.and("matched._id").is(personId);
```

```
getQueryBuild(startTime, endTime, queryBuilder);
Sort sort = new Sort("show_time");
log.debug("query sql is {}", queryBuilder.get());
sort.descending();
//查询结果集条件
BasicDBObject fieldsObject = new BasicDBObject();
Query query = new BasicQuery(queryBuilder.get().toString(), fieldsObject.toJson());
return mongoTemplate.find(query.with(sort), PersonRecordMongoDB.class);
```