

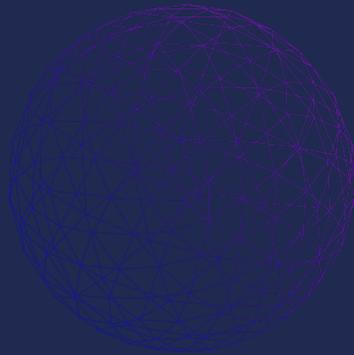
我在 ShardingSphere 做开源

姓名：唐国城 日期：2021.12.11



小米软件工程师，主要负责 MIUI 搜索、浏览器相关业务的服务端研发工作。热爱技术，喜欢探索，热衷于研究学习各种开源中间件。

ShardingSphere Contributor，开源爱好者



我在 ShardingSphere 做开源



1.为什么选择做开源？

简单和大家交流沟通下我对开源的看法



2.我与 ShardingSphere 的缘分

为什么选择了 ShardingSphere 社区



3.目前在 ShardingSphere 的主要贡献

谈谈在社区的主要的贡献



4.致谢

谢谢大家观看



为什么选择做开源？

个人兴趣



开源源于兴趣

想让自己写的代码让更多的人看到。享受用代码解决问题的乐趣。主动愿意去做某一件事，享受这一件事，才能把这件事情做好做长久

专业技能提升



最佳实践方式

通过加入相关的开源社区，参与开源社区的建设，在实践中提高个人的专业技能，这是一个十分快捷而又比较有效的方式。

思想碰撞

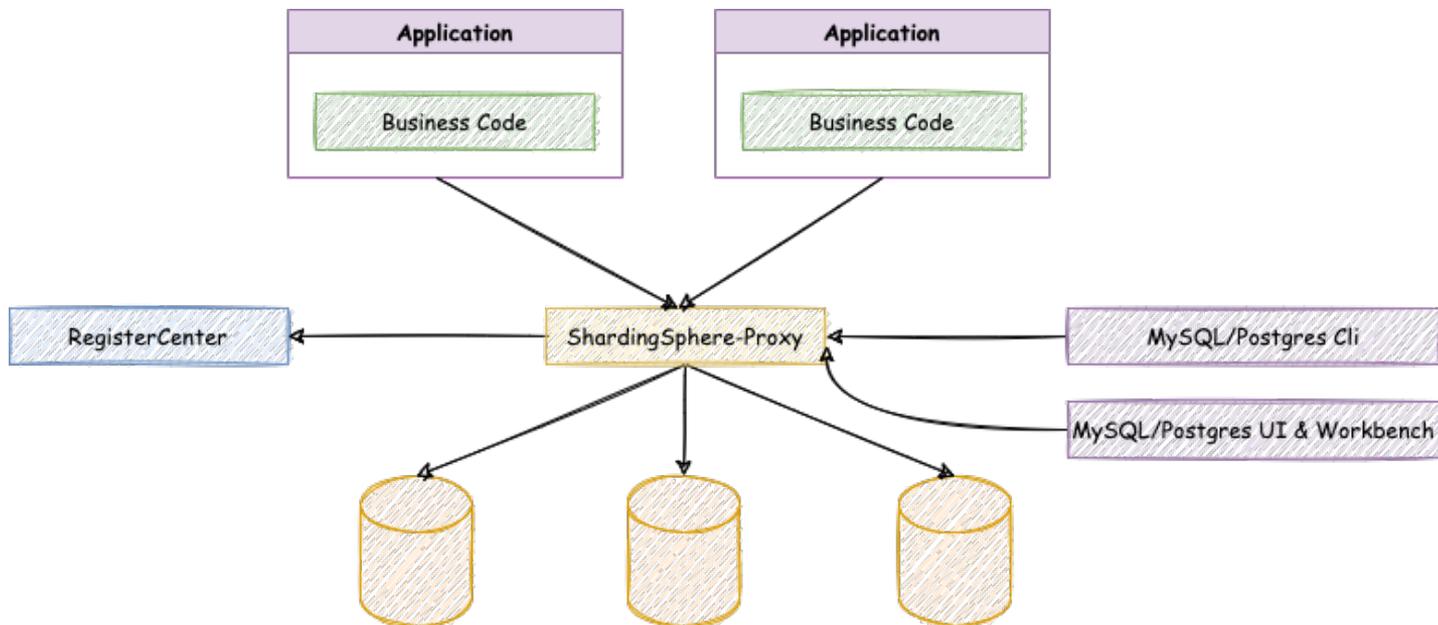


技术人的交流圈

经验丰富的领路人带给我们的东西不止是一些理论上的知识，更是一些实践上的业务经验，而在开源社区，我们就能认识一群这样的布道者



我与 ShardingSphere 的缘分



我与 ShardingSphere 的缘分

Add spring-boot-starter each versions of the document #9654

New issueClosed4 tasksyu199195 opened this issue on Mar 12 · 1 comment

yu199195 commented on Mar 12 · edited

Member

Hi, all communities

Could you do me a small favor? We need to do a summary of the historical version of the document, So I created this task.

you can see this :

[chang-history-cn](#)

[chang-history-en](#)

now, i will add 5.0.0-alpha version , you will add other version to this file

- 4.x document
- 3.x document
- 2.x document
- 3.x document

Format is as follows :

```
## 4.xxx (this is version)
### feture (like sharding, replica-query)
### spring boot starter config
```



Won't the PR be submitted yet? you can see this : [how to contributor](#)



yu199195 added the status: volunteer wanted label on Mar 12



totalo commented on Mar 12

Contributor

Get it!

Assignees

totalo—unassign me

Labels

in: document status: volunteer wanted

Projects

None yet

Milestone

No milestone

Linked pull requests

Successfully merging a pull request may close this issue.

[docs:add spring-boot-starter each versions of th...](#)

Notifications

Customize

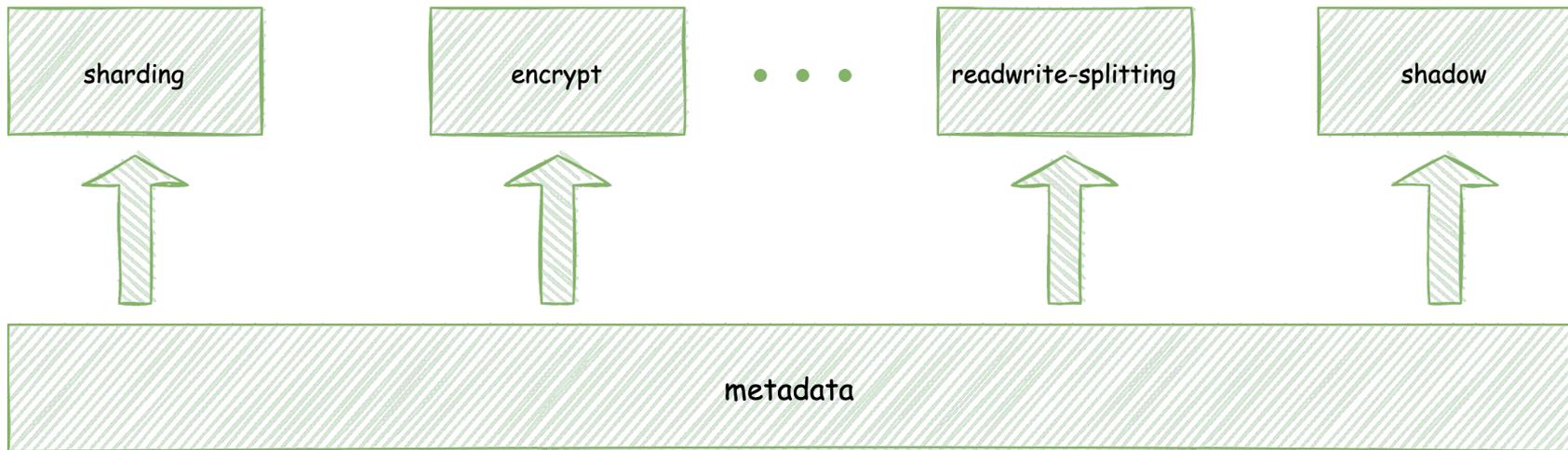
Unsubscribe

You're receiving notifications because you're watching this repository.

3 participants



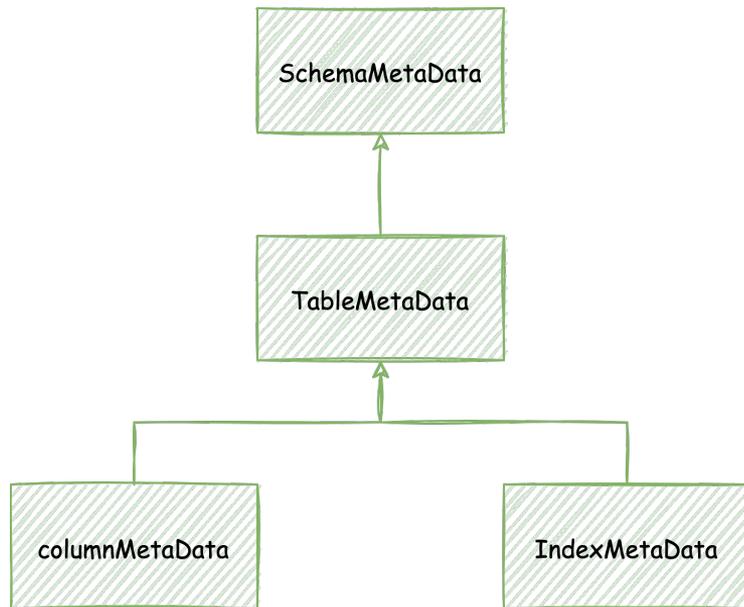
元数据加载优化



ShardingSphere 数据库元数据上下文



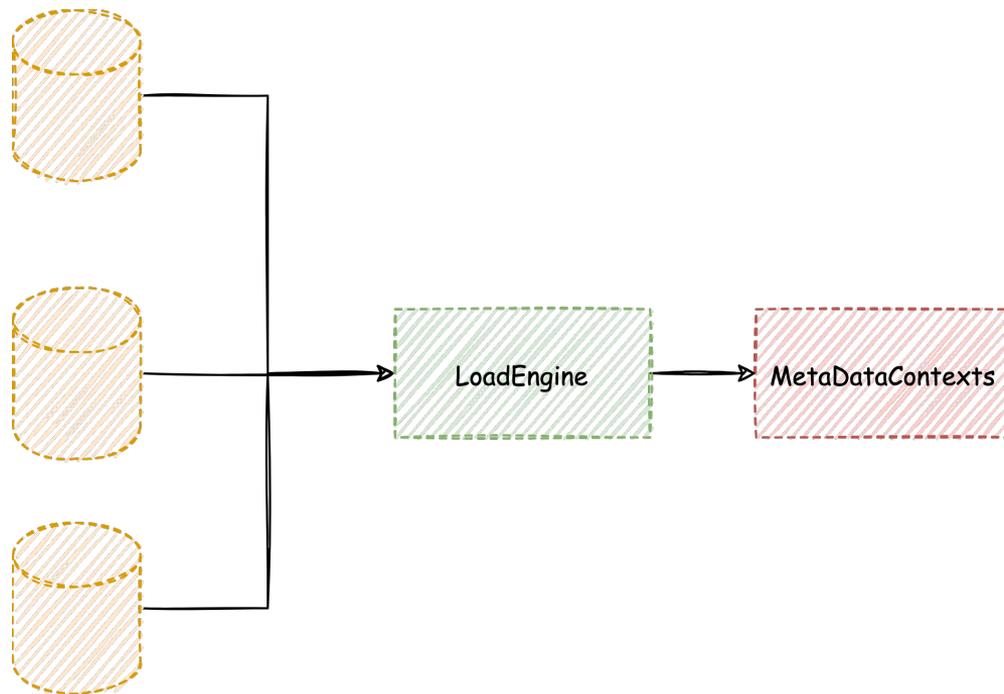
元数据加载优化



ShardingSphere 数据库元数据结构图



元数据加载优化



DistSQL 语法增强以及解析测试框架优化



RDL (Resource & Rule Definition Language) 资源规则定义语言，主要用于资源和规则的创建、修改、删除等。

资源规则定义语言



RQL (Resource & Rule Query Language) 规则资源查询语言，负责资源以及规则的查询展现

规则资源查询语言



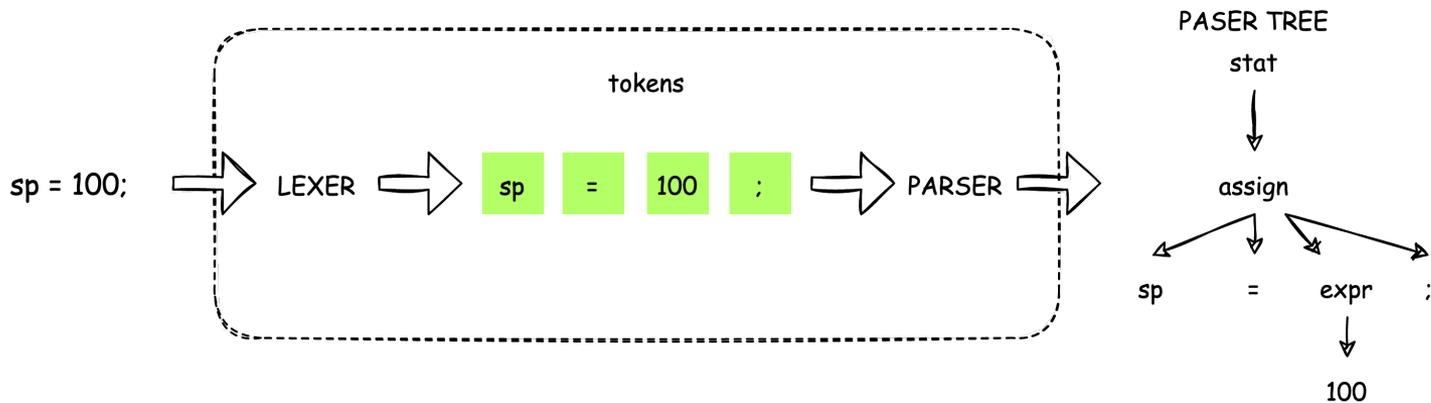
RAL (Resource & Rule Administration Language) 资源规则管理语言，用于事务类型切换、分片执行计划查询等增量功能操作。

资源规则管理语言



DistSQL 语法增强以及解析测试框架优化

在 ShardingSphere 中 SQL 的解析基于 ANTLR4



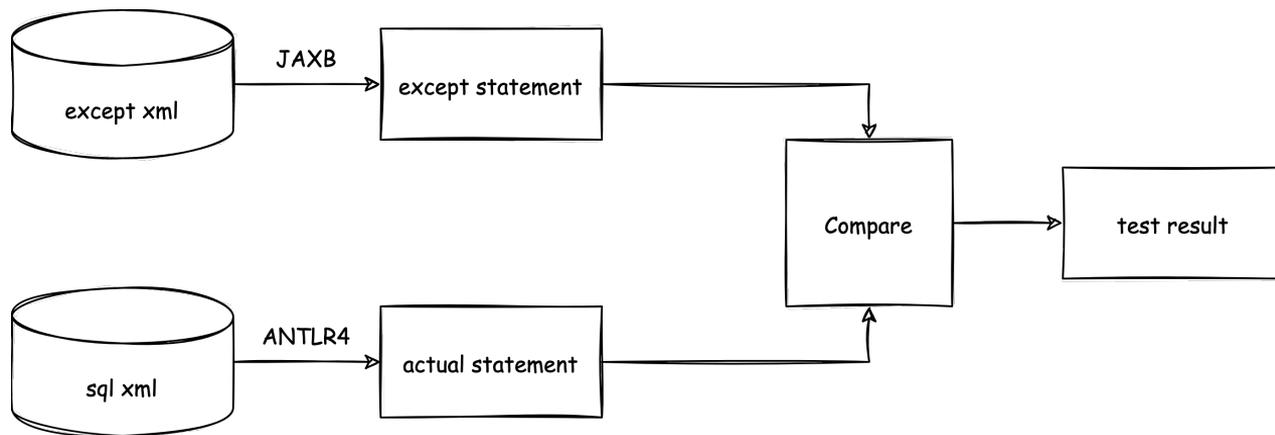
采用访问者模式，生成 SQL Statement

DistSQL 语法增强以及解析测试框架优化

- 1、拓展性差
- 2、类膨胀

```
private static final String RDL_ADD_RESOURCE_SINGLE_WITHOUT_PASSWORD = "ADD RESOURCE ds_0(HOST=127.0.0.1,PORT=3306,DB=test0,USER=ROOT);";
private static final String RDL_ADD_RESOURCE_SINGLE_WITH_PASSWORD = "ADD RESOURCE ds_0(HOST=127.0.0.1,PORT=3306,DB=test0,USER=ROOT,PASSWORD=123456);";
private static final String RDL_ADD_RESOURCE_MULTIPLE = "ADD RESOURCE ds_0(HOST=127.0.0.1,PORT=3306,DB=test0,USER=ROOT,PASSWORD=123456),"
    + "ds_1(HOST=127.0.0.1,PORT=3306,DB=test1,USER=ROOT,PASSWORD=123456);";
private static final String RDL_DROP_RESOURCE = "DROP RESOURCE ds_0,ds_1";
private static final String RDL_CREATE_SHARDING_TABLE_RULE = "CREATE SHARDING TABLE RULE t_order ("
    + "RESOURCES(ms_group_0,ms_group_1),"
    + "SHARDING_COLUMN=order_id,"
    + "TYPE(NAME=hash_mod,PROPERTIES('sharding-count'=4)),"
    + "GENERATED_KEY(COLUMN=another_id,TYPE(NAME=snowflake,PROPERTIES(\"worker-id\"=123))))";
```

DistSQL 语法增强以及解析测试框架优化



DistSQL 测试框架



ShardingSphere 示例代码的模板化

1、代码结构不清晰

2、用户寻找相关示例难度大

3、代码耦合度高，不够扁平化

```
examples [shardingsphere-example]
├── docker
├── example-core
│   ├── config-utility
│   ├── example-api
│   ├── example-raw-jdbc
│   ├── example-spring-jpa
│   ├── example-spring-mybatis
│   └── pom.xml
├── other-example
│   ├── shardingsphere-parser-example
│   └── pom.xml
├── shardingsphere-jdbc-example
│   ├── mixed-feature-example
│   └── single-feature-example
│       └── pom.xml
```

ShardingSphere 示例代码的模板化

1、目录结构优化

通过对框架、事务类型、功能特性
框架等相互组装，划分模块

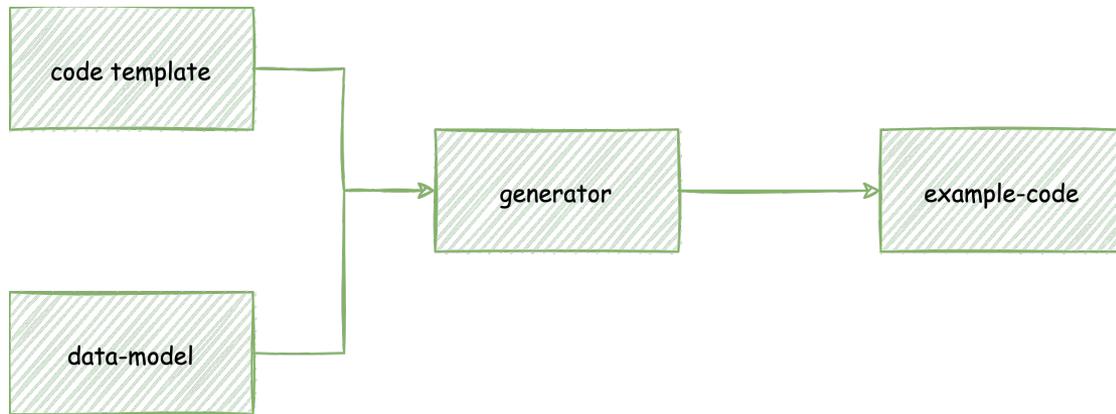
```

└─ shardingsphere-proxy-sample
  └─ shardingsphere-proxy-cluster-etcd-example
    > shardingsphere-proxy-cluster-etcd-base-seata-example
    > shardingsphere-proxy-cluster-etcd-local-example
    > shardingsphere-proxy-cluster-etcd-xa-atomikos-example
    > shardingsphere-proxy-cluster-etcd-xa-bitronix-example
    > shardingsphere-proxy-cluster-etcd-xa-narayana-example
    m pom.xml
  > shardingsphere-proxy-cluster-zookeeper-example
  > shardingsphere-proxy-memory-example
  > shardingsphere-proxy-standalone-file-example
  m pom.xml
```



ShardingSphere 示例代码的模板化

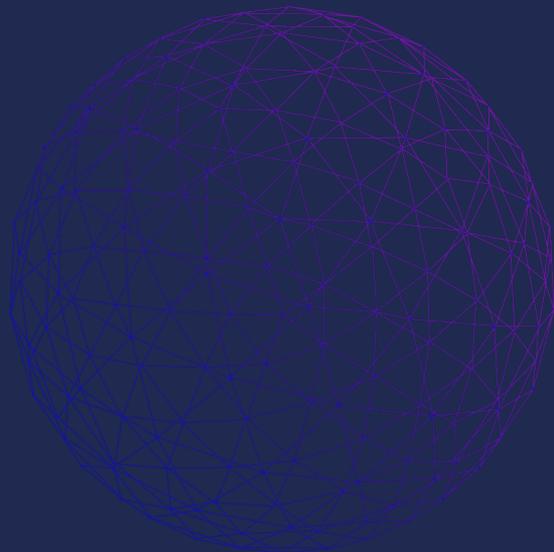
2、代码扁平化、重复代码模板化



ShardingSphere 代码生成图



谢谢观看



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