**宏星智联测试进度详情**

## Klustron测试版本&集群机器配置

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| Klustron版本 | 1.3.2 |

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| --- | --- | --- |
| 集群名字 | Cluster\_test |  |
| 机器IP | 机器配置 | 组件 |
| 192.168.0.107 | Ubuntu 20.04 8C32G 300G ssd | Meta Node  Data Node  Computing Node  Xpanel |
| 192.168.0.102 | Ubuntu 20.04 8C32G 300G ssd | Meta Node  Data Node |
| 192.168.0.147 | Ubuntu 20.04 8C32G 300G ssd | Meta Node  Data Node |

## 测试数据

* **数据详情**

**完成了如下数据库和数据表的导入。**

|  |  |  |
| --- | --- | --- |
| 类别 | 配置信息 | 描述 |
| **宏**  **星**  **智**  **联**  **库**  **测**  **试**  **数**  **据**  **详**  **情** | 源数据库版本 | MySQL 8.0.25 |
| 总数据量 | 192GB |
| 相关业务库 | 物业收费系统  能源管理平台  文件信息库  日志库  用户系统  控制中心  支付系统  认证系统  运维管理  定时任务系统 |
| 数据库名称 | billing-center  control-center  ems  file\_center  flowable  logger-center  oauth-center  ops-center  pay-center  test\_data  tx-manager  tx\_logger  user-center  xxl-job  xxl\_job |
| 库表相关信息 | 数据库:15个  表的数量:1642(含分区表)  表最大行数:93763862行  视图:31  存储过程:12  函数:21 |

## 数据导入工作汇总

* MySQL协议导入表结构
* 所有分区表改写PostgreSQL语法
* MySQL协议导入全量数据
* 部分视图改写成PostgreSQL语法
* 所有函数改写成PostgreSQL语法
* 所有存储过程改写成PostgreSQL语法

## 案例性能相关业务sql

大幅提升了部分查询的性能。例如下面的查询语句，用MySQL执行耗时数十分钟，用Klustron执行只需要0.4秒。

1. 源库相关业务sql

set @param\_child\_list='';

SELECT fun\_getChildList('100000,440300,441481,,440229,440000,440305', 'T\_DT\_District\_Dict') into @param\_child\_list;

SELECT ddd.F\_District\_Id as id, ddd.F\_Parent\_District\_Id as parent\_id, ddd.F\_District\_Name as text, ddd.F\_District\_Code as code, ddd.F\_Description as tag, '' as type, 'district' as biz\_type, F\_Virt\_Code as virt\_Code

FROM T\_DT\_District\_Dict ddd

WHERE 1 = 1 and ddd.F\_State = 1 and FIND\_IN\_SET(ddd.F\_District\_Id, @param\_child\_list);

改写兼容昆仑数据库使用CTE 语法:

WITH `param\_child\_list` AS (

SELECT unnest(string\_to\_array(fun\_getChildList('100000,440300,441481,,440229,440000,440305', 'T\_DT\_District\_Dict'), ',')) AS `F\_District\_Id`

)

SELECT

`ddd`.`F\_District\_Id` as `id`,

`ddd`.`F\_Parent\_District\_Id` as `parent\_id`,

`ddd`.`F\_District\_Name` as `text`,

`ddd`.`F\_District\_Code` as `code`,

`ddd`.`F\_Description` as `tag`,

'' as type,

'district' as `biz\_type`,

F\_Virt\_Code as `irt\_Code`

FROM

`T\_DT\_District\_Dict` `ddd`

WHERE

`ddd`.`F\_State` = 1

AND `ddd`.`F\_District\_Id` IN (SELECT `F\_District\_Id` FROM `param\_child\_list`);

3524 rows in set (0.40 sec)