使用的表： dwd\_constructed\_area\_of\_major\_cities

在temp数据库中做尝试

首先，在temp中把数据表采集过来

create table constructed as select \* from dwd.dwd\_constructed\_area\_of\_major\_cities;

constructed中的字段

city string

a2022 double

a2021 double

a2020 double

a2019 double

a2018 double

a2017 double

a2016 double

a2015 double

a2014 double

a2013 double

阶段1

create table constructed\_temp as

select city,map('2022',a2022,'2021',a2021,'2020',a2020,'2019',a2019,'2018',a2018,'2017',a2017,'2016',a2016,'2015',a2015,'2014',a2014,'2013',a2013) as value from constructed;

成功

阶段2

constructed\_temp字段类型

city string

value map<string,double>

小试 成功

select city,year,number from constructed\_temp

lateral view explode(value) temp\_view as year,number

create table constructed\_finsh as

select city as city ,year as year,number as number from constructed\_temp

lateral view explode(value) temp\_view as year,number;

成功

接着对施工表进行发展

对表dwd\_completed\_area\_of\_major\_cities进行操作

首先，把竣工表采集过来

create table completed as select \* from dwd.dwd\_completed\_area\_of\_major\_cities;

竣工表字段类型如下

city string

a2022 double

a2021 double

a2020 double

a2019 double

a2018 double

a2017 double

a2016 double

a2015 double

a2014 double

a2013 double

第一阶段，小聚合

成功

select map('2022',a2022,'2021',a2021,'2020',a2020,'2019',a2019,'2018',a2018,'2017',a2017,'2016',a2016,'2015',a2015,'2014',a2014,'2013',a2013) from completed;

第二阶段，加上城市字段

成功

select city,map('2022',a2022,'2021',a2021,'2020',a2020,'2019',a2019,'2018',a2018,'2017',a2017,'2016',a2016,'2015',a2015,'2014',a2014,'2013',a2013) from completed;

第三阶段，将这些保存下来作为中间临时表

create table completed\_temp as select city ,map('2022',a2022,'2021',a2021,'2020',a2020,'2019',a2019,'2018',a2018,'2017',a2017,'2016',a2016,'2015',a2015,'2014',a2014,'2013',a2013) as value from completed;

临时表字段

city string

value map<string,double>

第四阶段，对临时表进行提取

select city,year,number from completed\_temp lateral view explode(value) templeted\_view as year,number;

成功

第五阶段，保存下来

create table completed\_finsh as select city as city,year as year,number as number from completed\_temp lateral view explode(value) templeted\_view as year,number;

最后，结合两个表进行合并

两张表分别为

completed\_finsh和constructed\_finsh

表结构同为以下结构

city string

year string

number double

create table house\_complete\_rate as

select

completed\_finsh.city as city,

completed\_finsh.year as year,

constructed\_finsh.number as constructed,

completed\_finsh.number as completed,

completed\_finsh.number/constructed\_finsh.number as rate

from completed\_finsh

join constructed\_finsh

on completed\_finsh.city = constructed\_finsh.city and

completed\_finsh.year = constructed\_finsh.year;