使用的表

dwd层的三个

dwd\_regional\_housing\_prices 地区房屋价格

dwd\_regional\_housing\_sales\_area 地区销售面积

dwd\_regional\_housing\_sales\_revenue 地区销售额

**三个表从dwd采集到temp**

create table regional\_housing\_prices as select \* from dwd.dwd\_regional\_housing\_prices;

create table regional\_housing\_sales\_area as select \* from dwd.dwd\_regional\_housing\_sales\_area;

create table regional\_housing\_sales\_revenue as select \* from dwd.dwd\_regional\_housing\_sales\_revenue;

**现在temp中的三个表分别为**

regional\_housing\_prices

regional\_housing\_sales\_area

regional\_housing\_sales\_revenue

**开始爆炸，首先是表regional\_housing\_prices**

**首先，合并map结构,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 regional\_housing\_prices;

**合并map同时，加上城市,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 regional\_housing\_prices;

**对结果进行保存，保存的表名为**regional\_housing\_prices\_temp

create table regional\_housing\_prices\_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 regional\_housing\_prices;

**表结构为**

city string

value map<string,double>

**对保存的结果进行爆炸处理,成功**

select city,year,number from regional\_housing\_prices\_temp

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

**对爆炸的结果进行保存，保存的表名为**regional\_housing\_prices\_finish

**create table** regional\_housing\_prices\_finish as

select city,year,number from regional\_housing\_prices\_temp

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

**对第二个表进行爆炸处理，第二个表为regional\_housing\_sales\_area**

**首先，对表进行map聚合尝试，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 **regional\_housing\_sales\_area;**

**同时采集城市和map聚合的结果 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) as value from **regional\_housing\_sales\_area;**

**对采集的城市和map聚合的结果进行保存 成功 表名为** **regional\_housing\_sales\_area\_temp**

create table regional\_housing\_sales\_area\_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 regional\_housing\_sales\_area;

**对map聚合后的结果进行爆炸操作**

select city,year,number from regional\_housing\_sales\_area\_temp

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

**对map聚合的操作进行保存 成功，保存的表为regional\_housing\_sales\_area\_finish**

create table regional\_housing\_sales\_area\_finish as

select city,year,number from regional\_housing\_sales\_area\_temp

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

**对第三个表**regional\_housing\_sales\_revenue**进行爆炸操作**

**首先，map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 regional\_housing\_sales\_revenue;

**其次，同时采集城市和map聚合的结果 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) as value from regional\_housing\_sales\_revenue;

**对采集的城市和map聚合进行保存,新的表为**regional\_housing\_sales\_revenue\_temp

create table regional\_housing\_sales\_revenue\_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 regional\_housing\_sales\_revenue;

**对聚合结果进行爆炸操作 成功**

select city,year,number from regional\_housing\_sales\_revenue\_temp

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

**对聚合结果进行保存，新的表为regional\_housing\_sales\_revenue\_finish**

create table regional\_housing\_sales\_revenue\_finish as

select city,year,number from regional\_housing\_sales\_revenue\_temp

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

**对三个结果表进行聚合操作**

三个结果表分别为

**regional\_housing\_prices\_finish**

**regional\_housing\_sales\_area\_finish**

**regional\_housing\_sales\_revenue\_finish**

**三个表的字段分别为**

**city string**

**year string**

**number double**

**聚合操作为**

**create table regional\_house as**

**select price.city as city,price.year as year,price.number as price, area.number as area,revenue.number as revenue**

**from regional\_housing\_prices\_finish price**

**join regional\_housing\_sales\_area\_finish area**

**on price.city = area.city and price.year = area.year**

**join regional\_housing\_sales\_revenue\_finish revenue**

**on price.city = revenue.city and price.year = revenue.year;**

**最后表结果为regional\_house**