hive不支持临时视图(temporary view),只支持永久视图

```
1 -- 生成连续的5行数字比如从1到5 把生成的集合爆炸
  select explode(sequence(1,100));
  -- stack 函数[生成一个集合]
4
  select stack(2,1,2,3);
  --扩展横向迭代计算的4种方法
  -- 创建视图表方式1
  drop view tast1;
10 drop view view1;
  drop view view2;
11
  create or replace temporary view tast1 as select stack(3,1,2,3)as c1;
  select * from tast1;
14
  --创建视图表方式二
  create view tast1(c1) as values (1),(2),(3);
  select * from tast1;
18
  --1.用子查询
20 select c1,c2,c1*c2 as c3 from(
  select c1,c1+2 as c2 from tast1);
  --2.用with as
  with t1 as ( select c1,c1+2 as c2 from tast1)
  ,t2 as ( select c1,c2,c1*c2 as c3 from t1)
  select * from t2;
  --3用普通视图(永久视图-只保存逻辑不保存数据)--永久视图不能查询临时视图--支持重构
  create or replace view view1 as select c1,c1+2 as c2 from tast1;
  create view view2 as select c1,c2,c1*c2 as c3 from view1;
  select * from view2;
  --4用临时视图
  create temporary view t_view1 as select c1,c1+2 as c2 from tast1; -- 中间结果可以不保存
  create temporary view t_view2 as select c1,c2,c1*c2 as c3 from t_view1;
  select *from t_view2;
  --5cache table 缓存表 --spark的语法,pycharm不支持,可以运行
34
35 cache table cache1 as select c1,c1+2 as c2 from tast1;
  cache table cache2 as select c1,c2,c1*c2 as c3 from cache1;
  select * from cache2;
38
```

```
-- 查看所有的视图
  show views;
40
  --查看所有的表,也会显示视图
41
   show tables;
42
43
   create or replace view test2(c1,c2,c3,c4) as values
44
   (1,1,6,1),
45
   (1,2,23,null),
46
   (1,3,8,null),
47
   (1,4,4,null),
48
   (2,1,32,1),
49
  (2,2,9,null),
50
   (2,3,15,null),
51
   (2,4,8,null);
53
   select * from test2;
   --需求: 计算c4的逻辑: 当c2=1,则c4=1; 否则c4=(上一个c4+当前的c3)/2
56
   -- 错误方案
57
   select c1, c2, c3, (lag(c4) over (partition by c1 order by c2)+c3)/2 as c4
58
   from test2;
59
  -- 先计算c2=2的情况
  set spark.sql.shuffle.partitionby=4;
  create or replace temporary view test 2 as
  select c1,c2,c3,if(c2=2,(lag(c4)over(partition by c1 order by c2)+c3)/2,c4) as c4 from
   test2;
64 select *from test 2;
  --再计算c2=3的情况
  create or replace temporary view test_3 as
   select c1, c2, c3, if (c2=3), (lag(c4) over(partition by c1 order by c2)+c3)/2,c4) as c4
  from test 2;
68
  select * from test 2;
69
70 --再计算c2=4的情况
  create or replace temporary view test_4 as
   select c1, c2, c3, if (c2=4), (lag(c4)over(partition by c1 order by c2)+c3)/2,c4) as c4
   from test_3;
73
   select * from test_4;
74
75
   substring/substr、to_date、date_add、datediff、date_format、concat、replace
76
```

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78
   cast(数据 as 类型)
   power(字段1,字段2)返回字段1的字段2次方
80
   --可以传入两个值不用over
81
   least取最小值(两个列的最小值),传入一个数组, greatest 取最大值
83
84
   删除一个分区的数据。
85
   alter table insurance_app.policy_result drop partition (month='2021-07');
86
87
   查看hive表的建表语句
88
89
   show create table policy_result;
   -- 查看分区情况
   show partitions insurance_app.policy_result;
   --删除分区的数据
   alter table insurance app.policy result drop partition (month='2021-12');
   --计算相差几个月
95
   month between(开始时间,结束时间)
96
   ceil()取整数,不会四舍五入
97
98
99
   --分组后把某个字段的值形成一个arr集合,必须group by
100
   --取arr可以用下标 比如 arr[0],arr[1]
   collect_list (字段) as arr
102
103
   spark不支持limit x,y ; 只支持limit x;
104
   left/semi/anti/join
106
   left 左表为主表,全部显示,右边匹配不上则为null
   left semi 左表为主表,只显示匹配的上的左表的数据,和join差不多就是没有右表
   left anti 显示匹配不上的数据,则右表没有匹配上的数据都显示
109
110
111 regexp_extract_all(str,'(字符)') 匹配对应字符形成一个数组比如[1,1,1,1]
112 size(数组)计算数组有多少个
```

grouping

1 grouping_id():基于分组则为0,不基于分组则为1, ID为group by 按顺序填写的分组字段 并不是 grouping sets里面的分组计算的

```
2 比如: id最大31(0001 1111) id=15(0000 1111)按yearinfo分组 id=7(0000 0111)按yearinfo和 quarterinfo分组
3 group by yearinfo, quarterinfo, monthinfo, dayinfo, hourinfo --用的是这个按二进制算
4 grouping sets (
5 yearinfo,
6 ( yearinfo, area),
7 ( yearinfo, quarterinfo, area)
```