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-- 功能能描述: DOC模板
-- 注意:
        1. 不支持hive引擎,只支持spark引擎
        2. 统计格式异常时不会判定null为异常
        3. 僵尸表校验需要排除批次时间、时间戳和分区字段
        4. 如果主键重复,数据量校验、主键数据量递增、数值增长校验和僵尸表校验失效, null校验和格式校验不受影响
-- 校验点:
           阻断: 主键重复校验、记录为空校验、记录格式错误校验、主键数据量递增校验(选配)、数值增长校验(选配)
           提醒: 主键数据量波动校验、僵尸表校验
-- 校验表: credit_cust.dwd_cc_template
-- 输出表: credit_cust.dqc_cc_template
-- 主键 : pk1、pk2
with dwd cc template as
(
    select 'class-1' as pk1, 'tom' as pk2, 70 as kpi, null
                                                                                       as deadline, '${start|yyyyMMdd}'
                                                                                                                         as dt union all
                                                                  as phone, '20210101'
    select 'class-1' as pk1, 'tom'
                                   as pk2, 80 as kpi, '13666666666' as phone, '20210000'
                                                                                        as deadline, '${start|yyyyMMdd}'
                                                                                                                          as dt union all
    select 'class-1' as pk1, 'tom' as pk2, 90 as kpi, '13666666896' as phone, '20210000'
                                                                                        as deadline, '${start-1d|yyyyMMdd}'
                                                                                                                         as dt union all
    select 'class-2' as pk1, 'tom' as pk2, 80 as kpi, '13666666896' as phone, '20210000'
                                                                                        as deadline, '${start|yyyyMMdd}'
                                                                                                                          as dt union all
    select 'class-2' as pk1, 'tom' as pk2, 80 as kpi, '136666|6?66' as phone, '20210000'
                                                                                        as deadline, '${start-1d|yyyyMMdd}' as dt union all
    select 'class-1' as pk1, 'jenny' as pk2, 60 as kpi, '13666666896' as phone, '90210101'
                                                                                                                         as dt union all
                                                                                        as deadline, '${start|yyyyMMdd}'
    select 'class-1' as pk1, 'jery' as pk2, 50 as kpi, '136-689-886' as phone, '2021198'
                                                                                        as deadline, '${start|yyyyMMdd}'
                                                                                                                         as dt union all
    select 'class-1' as pk1, 'lisa' as pk2, 40 as kpi, '13666666896' as phone, '2021/10/10' as deadline, '${start|yyyyMMdd}'
                                                                                                                         as dt
),
dqc_cc_template as
    select concat_ws(',', pk1, pk2)
                                                       as pk
                                                       as today_cnt
         , sum(if(dt='${start|yyyyMMdd}',1,0))
         , sum(if(dt='${start-1d|yyyyMMdd}',1,0))
                                                       as yesterday_cnt
         , max(if(dt='${start|yyyyMMdd}', kpi, null))
                                                      as today_kpi
         , max(if(dt='${start-1d|yyyyMMdd}', kpi, null)) as yesterday_kpi
         , sum(if(coalesce(phone,'')<>'' and length(regexp_extract(phone,'(1[35678][0-9]{9})',0))<>11 and dt='<math>\{start|yyyyMMdd\}',1,0)
                                                                                                                                                      as abnormal_phone_cnt
         , sum(if((unix timestamp(deadline,'yyyyMMdd') is null or substr(deadline,1,1)>'2') and coalesce(trim(deadline))<>'' and dt='${start|yyyyMMdd}', 1, 0)) as abnormal date cnt
         , if(count(if(dt='${start|yyyyMdd}', concat_ws(',', pk1, pk2), null))>1, 1, 0)
                                                                                                                                                      as duplicate_cnt
         , sum(if(dt='${start|yyyyMMdd}' and concat(pk1, pk2, phone, deadline) is null, 1, 0))
                                                                                                                                                      as null_cnt
         , if(max(if(dt='${start|yyyyMMdd}', md5(substr(concat_ws(',',t.*),1,length(concat_ws(',',t.*))-8)), null))
              =max(if(dt='${start-1d|yyyyMMdd}', md5(substr(concat_ws(',',t.*),1,length(concat_ws(',',t.*))-8)), null)), 1, 0)
                                                                                                                                                      as jiangshi_cnt
    from dwd_cc_template t
    where dt in('${start|yyyyMMdd}','${start-1d|yyyyMMdd}')
    group by concat_ws(',', pk1, pk2)
select from unixtime(unix timestamp()) as insertdt
                                                         -- 今日记录条数(主键不重复时等于主键数量)
     , sum(today_cnt)
                                    as today_cnt
                                                         -- 昨日记录条数(主键不重复时等于主键数量
     , sum(yesterday_cnt)
                                    as yesterday_cnt
                                    as abnormal_phone_cnt -- 今日手机号格式异常记录数量(主键不重复时对应主键)
     , sum(abnormal_phone_cnt)
                                    as abnormal_date_cnt -- 今日日期格式异常记录数量 (主键不重复时对应主键)
     , sum(abnormal_date_cnt)
    , sum(duplicate_cnt)
                                    as duplicate_cnt
                                                          -- 主键是重复的主键数
                                                         -- 今日关键字段为null的记录数量 (主键不重复时对应主键)
     , sum(null_cnt)
                                    as null cnt
     , if(sum(duplicate_cnt)>0, 0, 1) as chk_pk
                                                         -- 主键重复校验
    , if(sum(duplicate_cnt)=0 and (sum(today_cnt)<sum(yesterday_cnt)*0.6 or sum(today_cnt)>sum(yesterday_cnt)*1.4), 0, 1) as chk_cnt_range -- 主键数据量波动校验
     , if(sum(duplicate_cnt)=0 and sum(today_cnt)<sum(yesterday_cnt), 0, 1)</pre>
                                                                                                                   as chk cnt
                                                                                                                                    -- 主键数据量递增校验
                                                                                                                                   -- 记录为空校验
     , if(sum(today cnt)<>0 and sum(null cnt)>0, 0,1)
                                                                                                                   as chk null
                                                                                                                                   -- 记录格式错误校验
     , if(sum(abnormal_phone_cnt)+sum(abnormal_date_cnt)>0, 0, 1)
                                                                                                                   as chk_format
                                                                                                                   as chk_jiangshi -- 僵尸表校验
     , if(sum(duplicate_cnt)=0 and sum(today_cnt)<>0 and sum(jiangshi_cnt)=sum(today_cnt), 0, 1)
     , if(sum(if(today_kpi<yesterday_kpi and yesterday_kpi is not null, 1, 0))>0, 0, 1)
                                                                                                                   as chk value rise -- 数值增长校验
from dqc_cc_template t
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