## ไตรทิพย์ ศุภศิริวัฒนา 6310422009

```
1 V WITH CSUTOMER_LV AS (
2 \
         SELECT DISTINCT CUST_CODE
3
                ,DATE_TRUNC(PARSE_DATE('%Y%m%d', CAST(SHOP_DATE AS STRING)), MONTH) AS SHOP_MTH
         FROM `my-project-1541827391977.BADS7105.supermarket`
4
5
         WHERE CUST_CODE IS NOT NULL )

✓ SELECT RPT_MTH

           ,COUNT(DISTINCT CUST_CODE) AS CNT_CUST
7
8
           ,COUNT(DISTINCT CASE WHEN CUST_STATUS = 'New' THEN CUST_CODE ELSE "" END) AS CNT_NEW
9
           ,COUNT(DISTINCT CASE WHEN CUST_STATUS = 'Repeat' THEN CUST_CODE ELSE "" END) AS CNT_REPEAT
           ,COUNT(DISTINCT CASE WHEN CUST_STATUS = 'Reactive' THEN CUST_CODE ELSE "" END) AS CNT_REACTIVE
10
11
            ,COUNT(DISTINCT CASE WHEN CUST_STATUS = 'Churn' THEN CUST_CODE ELSE "" END) AS CNT_CHURN
12 V FROM ((SELECT CUST_CODE
                 ,SHOP_MTH AS RPT_MTH
13
14
                 , PREV_MTH
15 ~
                 ,(CASE WHEN DATE_DIFF(SHOP_MTH, PREV_MTH, MONTH) IS NULL THEN 'New'
16
                        WHEN DATE_DIFF(SHOP_MTH, PREV_MTH, MONTH) = 1
                                                                           THEN 'Repeat'
17
                        WHEN DATE_DIFF(SHOP_MTH, PREV_MTH, MONTH) > 1
                                                                           THEN 'Reactive'
                        ELSE NULL END) AS CUST_STATUS
18
19 V
            FROM (SELECT CUST_CODE
                       , SHOP_MTH
20
                        (LAG(SHOP_MTH, 1) OVER (PARTITION BY CUST_CODE ORDER BY SHOP_MTH)) AS PREV_MTH
21
22
                 FROM CSUTOMER_LV))
23
         UNION ALL
24 V
         (SELECT CUST_CODE
25
                ,DATE_ADD(SHOP_MTH, INTERVAL 1 MONTH) AS RPT_MTH
                ,SHOP_MTH as PREV_MTH
26
27
                  'Churn' AS CUST_STATUS
28 ~
          FROM (SELECT CUST_CODE
                      , SHOP_MTH
29
30
                      ,DATE_DIFF(LEAD(SHOP_MTH, 1) OVER (PARTITION BY CUST_CODE ORDER BY SHOP_MTH), SHOP_MTH, MONTH) AS NEXT_MTH
31
                FROM CSUTOMER_LV)
32
          WHERE (NEXT_MTH > 1 or NEXT_MTH is null) AND SHOP_MTH < (SELECT MAX(SHOP_MTH) FROM CSUTOMER_LV)))
     GROUP BY RPT_MTH
33
34
     ;
35
```

