```
2
      CASE
3
      WHEN mindate > master date THEN null
      WHEN firstdate = 1 THEN "new cust"
      WHEN valid = 1 AND cust_txn = 1 AND previousmonth = 1 THEN "repeat"
      WHEN valid = 1 AND cust_txn = 1 AND previousmonth = 0 THEN "reactivated"
      ELSE "churn"
      END AS cust_status ,
      CASE
      WHEN mindate > master_date THEN null
      WHEN firstdate = 1 THEN 1
WHEN valid = 1 AND cust_txn = 1 AND previousmonth = 1 THEN 1
WHEN valid = 1 AND cust_txn = 1 AND previousmonth = 0 THEN 1
      ELSE -1
      END AS cust_status_value
16
      FROM
      (SELECT *,
18
      LAG(cust_txn) OVER (PARTITION BY CUST_CODE ORDER BY master_date) previousmonth
20
      (SELECT tb_master.master_date, tb_master.CUST_CODE ,
      tb_min_max.mindate , tb_min_max.maxdate , IF(tb_txn.CUST_CODE IS NULL , 0 , 1) cust_txn,
21
22
      IF(tb_min_max.mindate = tb_master.master_date , 1 , 0) firstdate,
IF(tb_min_max.mindate <= tb_master.master_date , 1 , 0) valid,
IF(tb_min_max.maxdate < tb_master.master_date , 1 , 0) churn,</pre>
25
26
      FROM
27
      (SELECT tb_date.master_date , tb_cust.CUST_CODE
29
      (SELECT DISTINCT DATE_TRUNC(date, MONTH) AS master_date
30
      (SELECT PARSE_DATE("%Y%m%d" , CAST(SHOP_DATE AS STRING)) date
31
32
      FROM `helpful-reactor-331409.Supermarket.S1`)) tb_date
33
34
35
36
      (SELECT DISTINCT CUST_CODE FROM `helpful-reactor-331409.Supermarket.S1`
37
      WHERE CUST_CODE IS NOT NULL) tb_cust) tb_master
38
39
      (SELECT CUST_CODE , DATE_TRUNC(mindate, MONTH) mindate , DATE_TRUNC(maxdate, MONTH) maxdate
40
42
      (SELECT CUST_CODE , MIN(date) AS mindate , MAX(date) AS maxdate
43
      (SELECT CUST_CODE , PARSE_DATE("%Y%m%d" , CAST(SHOP_DATE AS STRING)) date
44
      FROM `helpful-reactor-331409.Supermarket.S1`
45
      WHERE CUST_CODE IS NOT NULL)
      GROUP BY CUST_CODE)) tb_min_max
48
      ON tb_master.CUST_CODE = tb_min_max.CUST_CODE
49
      LEFT JOIN
50
      (SELECT DISTINCT CUST_CODE , DATE_TRUNC(date, MONTH) AS txn_date
      (SELECT CUST_CODE, PARSE_DATE("%Y%m%d" , CAST(SHOP_DATE AS STRING)) date
54
55
      FROM `helpful-reactor-331409.Supermarket.S1`)
57
      ON tb_master.master_date = tb_txn.txn_date AND tb_master.CUST_CODE = tb_txn.CUST_CODE))
58
      ORDER BY CUST_CODE , master_date
```

