

```

1 SELECT CW AS WEEK, NEW_CUST, REPEAT_CUST, RETURN_CUST, REPEAT_CUST - LAG(TOT, 1) OVER(ORDER BY CW) AS CHURN_CUST
2 FROM (
3     SELECT CW,
4         COUNT(CASE WHEN STATUS = 'NEW' THEN CC ELSE NULL END) AS NEW_CUST,
5         COUNT(CASE WHEN STATUS = 'REP' THEN CC ELSE NULL END) AS REPEAT_CUST,
6         COUNT(CASE WHEN STATUS = 'RET' THEN CC ELSE NULL END) AS RETURN_CUST,
7         COUNT(CC) AS TOT
8     FROM (
9         SELECT
10             PRE_W,
11             CW,
12             CC,
13             CASE
14                 WHEN DATE_DIFF(CW, PRE_W, DAY) IS NULL THEN 'NEW'
15                 WHEN DATE_DIFF(CW, PRE_W, DAY) <= 7 THEN 'REP'
16                 WHEN DATE_DIFF(CW, PRE_W, DAY) > 7 THEN 'RET'
17             ELSE
18                 NULL
19             END
20         AS STATUS
21     FROM (
22         SELECT
23             LAG(CW, 1) OVER(PARTITION BY CC ORDER BY CW) AS PRE_W,
24             CW,
25             CC
26     FROM (
27         SELECT
28             DISTINCT DATE_TRUNC(PARSE_DATE('%Y%m%d',
29                 SHOP_DATE), WEEK) AS CW,
30             CUST_CODE AS CC
31         FROM
32             `suthasinee-project.my_dataset.my_market`
33         WHERE
34             CUST_CODE IS NOT NULL))
35     GROUP BY
36         CW)
37     ORDER BY
38         WEEK ASC;

```

