```
SELECT YEAR MONTH, STATUS, CASE WHEN STATUS = 'CHURN' THEN (-1) *COUNT CUST ELSE COUNT CUST END AS COUNT CUST
FROM (
    SELECT YEAR MONTH, STATUS, COUNT (DISTINCT CUST CODE) AS COUNT CUST
    FROM (
           NEW, REPEAT, REACTIVATE
        SELECT YEAR MONTH, CUST_CODE, REGISTER_DATE, --SHOP_MONTH, PREVIOUS_MONTH,

DATE_DIFF(SHOP_MONTH, PREVIOUS_MONTH, MONTH) AS R,
                 CASE WHEN SHOP MONTH = REGISTER DATE THEN 'NEW
                 WHEN DATE_DIFF(SHOP_MONTH, PREVIOUS_MONTH, MONTH) = 1 THEN 'REPEAT'
                 WHEN DATE_DIFF(SHOP_MONTH, PREVIOUS MONTH, MONTH) > 1 THEN 'REACTIVATE' END AS STATUS
        FROM (
               PREVIOUS_MONTH
            SELECT CUST CODE, YEAR MONTH, SHOP MONTH, REGISTER DATE, LAG(SHOP MONTH) OVER (PARTITION BY CUST CODE ORDER BY SHOP MONTH) AS PREVIOUS MONTH
            FROM (
                 SELECT CUST CODE, YEAR MONTH, SHOP MONTH, REGISTER DATE
                 FROM (
                     SELECT ALL CUST.CUST CODE, SHOP MONTH, REGISTER DATE
                     FROM (
                         SELECT CUST_CODE, DATE_TRUNC(PARSE_DATE('%Y%m%d', CAST(SHOP_DATE AS STRING)), MONTH) AS SHOP_MONTH
                         FROM `data-rookery-331410.Supermarket_Data.Supermarket_Data_Table
                         WHERE CUST_CODE IS NOT NULL
                    GROUP BY 1,2
) ALL_CUST LEFT JOIN (
                          - REGISTER DATE
                         SELECT CUST CODE, DATE TRUNC (PARSE DATE ('%Y%m%d', CAST (MIN (SHOP DATE) AS STRING)), MONTH) AS REGISTER DATE
                         FROM `data-rookery-331410.Supermarket Data.Supermarket Data Table
                         WHERE CUST_CODE IS NOT NULL
                         GROUP BY
                     ) REGISTER ON ALL CUST.CUST CODE = REGISTER.CUST CODE
                 ) ALL_CUST_2 LEFT JOIN (
                       YEAR MONTH PERIOD
                    FROM `data-rookery-331410. Supermarket_Data. Supermarket_Data_Table`
                     WHERE CUST_CODE IS NOT NULL
                     GROUP BY
                 ) MONTH_PERIOD ON ALL_CUST_2.SHOP_MONTH = MONTH_PERIOD.YEAR_MONTH
            ) PREV_M
        ) NRR
        UNION ALL
        -- CHURN
        SELECT YEAR MONTH, CUST_CODE, REGISTER_DATE, R, STATUS --, LAST_DATE
        FROM (
             SELECT CUST_CODE, STATUS, REGISTER_DATE, NULL AS R, MIN(CASE WHEN STATUS = 'CHURN' THEN YEAR_MONTH END) AS YEAR_MONTH --, LAST_DATE
                 SELECT *, CASE WHEN YEAR_MONTH > LAST_DATE THEN 'CHURN' END AS STATUS
                 FROM (
                              AS KEY, DATE_TRUNC(PARSE_DATE('%Y%m%d',CAST(SHOP_DATE AS STRING)), MONTH) AS YEAR MONTH
                     FROM `data-rookery-331410.Supermarket_Data.Supermarket_Data_Table`
                     WHERE CUST_CODE IS NOT NULL
                     GROUP BY 1
                     ) A LEFT JOIN (
                         SELECT 1 AS KEY, *
                         FROM (
                              SELECT CUST CODE, DATE TRUNC (PARSE DATE ('%Y%m%d', CAST (SHOP DATE AS STRING)), MONTH) AS SHOP MONTH
                              FROM `data-rookery-331410.Supermarket_Data.Supermarket_Data_Table
                              WHERE CUST_CODE IS NOT NULL
                              GROUP BY 1
                          ) A1 RIGHT JOIN (
                                -REGISTER_DATE AND LAST_DATE
                              SELECT CUST_CODE AS CUST_CODE RE, DATE TRUNC(PARSE_DATE('%Y%m%d',CAST(MIN(SHOP_DATE) AS STRING)),MONTH) AS REGISTER_DATE,

DATE_TRUNC(PARSE_DATE('%Y%m%d',CAST(MAX(SHOP_DATE) AS STRING)),MONTH) AS LAST_DATE
                              FROM `data-rookery-331410.Supermarket_Data.Supermarket_Data_Table
                              WHERE CUST CODE IS NOT NULL
                              GROUP BY
                         ) A2 ON A1.CUST_CODE = A2.CUST_CODE RE
                 ) B ON A.KEY = B.KEY
             GROUP BY 1,2,3 --,4
        WHERE STATUS IS NOT NULL
    ) RESULT
    GROUP BY 1,2
) ALL_RESULT
```

