```
WITH cust_month AS (
    select distinct cust_code, date_trunc(shop_date) shop_month
    from `groovy-patrol-332408.Supermarket_Data.Supermarket_Table`
   where cust_code is not null
)
SELECT report_month
    ,COUNT(DISTINCT CASE WHEN status = 'New' THEN cust_code ELSE NULL END) AS new_customers
    ,COUNT(DISTINCT CASE WHEN status = 'Repeat' THEN cust_code ELSE NULL END) AS repeat_customers
    ,COUNT(DISTINCT CASE WHEN status = ' ' THEN cust_code ELSE NULL END) AS reactivated_customers
    ,-COUNT(DISTINCT CASE WHEN status = 'Churn' THEN cust_code ELSE NULL END) AS churn_customers
FROM (
    SELECT cust_code, shop_month AS report_month, prev_month
        ,CASE
            WHEN DATE_DIFF(shop_month, prev_month, MONTH) IS NULL THEN 'New'
            WHEN DATE_DIFF(shop_month, prev_month, MONTH) = 1 THEN 'Repeat'
            WHEN DATE_DIFF(shop_month, prev_month, MONTH) > 1 THEN 'Reactivate'
        ELSE NULL END AS status
   FROM (
        SELECT cust_code, shop_month, LAG(shop_month, 1) OVER (PARTITION BY cust_code ORDER BY shop_month)
AS prev_month
        FROM cust_month
    )
   UNION ALL
    SELECT cust_code, DATE_ADD(shop_month, INTERVAL 1 MONTH) report_month, shop_month as prev_month
        ,'Churn' AS status
    FROM (
        SELECT cust_code, shop_month
            ,LEAD(shop_month, 1) OVER (PARTITION BY cust_code ORDER BY shop_month) AS next_trans_date
            ,DATE_DIFF(LEAD(shop_month, 1) OVER (PARTITION BY cust_code ORDER BY shop_month), shop_month,
MONTH) AS n_months
        FROM cust_month
    ) WHERE
        (n_months > 1 or n_months is null)
        AND shop_month < (SELECT MAX(shop_month) FROM cust_month) -- excluding last month
) GROUP BY report_month
order by report_month
;
Customer status
status ● Churn ● New ● Reactivate ● Repeat
```

July Augu... Sept... Octo... Nove... Dece... Janu... Febr... March April May June July Augu... Sept... Octo... Nove... Dece... Janu... Febr... March April