```
WITH cust month AS (
  select distinct cust code, PARSE DATE('%Y%m%d',CAST(shop date AS STRING))
shop month
 FROM 'speedy-rhino-331309.SUPER.SUPERMARKET'
  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 = 'Reactivated' 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 'Reactivated'
    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
```