```
WITH churn as (
          select distinct(CUST_CODE), year_month,
          case when date_diff('2008-06-01',recent_date,day) > 30 then -1 else \boxed{0}
      from (
          SELECT CUST_CODE, format_datetime("%Y%m",parse_date("%Y%m%d",CAST( SHOP_DATE AS STRING ))) as year_month,
          max(PARSE_DATE('%Y%m%d', CAST( SHOP_DATE AS STRING ))) over (partition by CUST_CODE) as recent_date FROM `nodal-pod-331409.sample_dataset.Supermarket`
          where CUST_CODE is not null
10
11
12
13
     new_cus as ()
    select distinct(CUST_CODE), year_month,
14
15
          case when frequency = 1 then 1 else @
          end as new_customer
16
17
18
          select CUST_CODE,
          format_datetime("%Y%m",parse_date("%Y%m%d",CAST( SHOP_DATE AS STRING ))) as year_month,
19
20
          row_number() over (partition by CUST_CODE) as frequency
FROM `nodal-pod-331409.sample_dataset.Supermarket`
          where CUST_CODE is not null
22
     remaining as (
select CUST_CODE, year_month,
case when recency = 1 then 1 else 8 end as repeat_customer,
case when recency > 1 then 1 else 8 end as reactivated_customer
24
26
27
28
29
              select CUST_CODE, year_month,
date_diff(parse_date("%Y%m", year_month), previous_month, month) as recency
31
32
                  select CUST_CODE, year_month,
33
                       from (
34
35
                      format_datetime("%Y%m",parse_date("%Y%m%d",CAST( SHOP_DATE AS STRING ))) as year_month, FROM `nodal-pod-331409.sample_dataset.Supermarket`
36
38
                       where CUST_CODE is not null
39
41
           select r.*, n.new_customer, c.churn_customer
 44
  45
          from remaining r
  46
           right join new_cus n
  47
           on r.CUST_CODE = n.CUST_CODE and r.year_month = n.year_month
  48
           right join churn c
           on r.CUST_CODE = c.CUST_CODE and r.year_month = c.year_month
  49
```

Query results

▲ SAVE RESULTS

Query complete (0.1 sec elapsed, cached)

Job information Results JSON

Row	CUST_CODE	year_month	repeat_customer	reactivated_customer	new_customer	churn_customer
1	CUST0000069724	200805	0	1	0	0
2	CUST0000069724	200805	0	0	0	0
3	CUST0000069724	200805	0	0	0	0
	01107000000000	000005	_	_	_	_