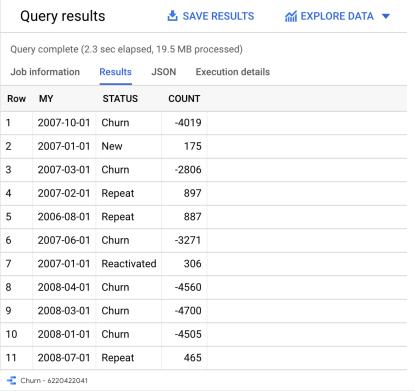
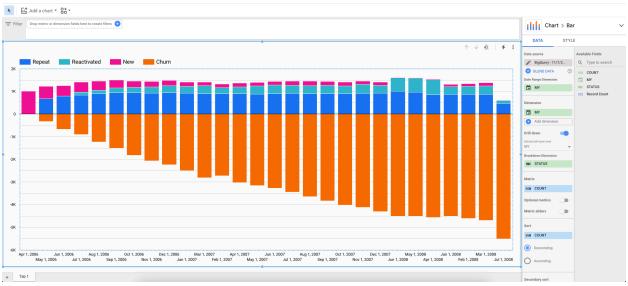
```
-- CUST_MONTH
WITH CUST MONTH AS (
 SELECT DISTINCT
  CUST_CODE,
  DATE_TRUNC(SHOP_DATE, MONTH) AS MY
 FROM `puri-crm.supermarket.supermarket`
 WHERE
  CUST_CODE IS NOT NULL
 ORDER BY
  CUST CODE, MY
-- CUST LAG
CUST_LAG AS (
 SELECT
  CUST CODE,
  MY,
  DATE_SUB(MY, INTERVAL 1 MONTH) LAST_MY,
  LAG(MY) OVER(PARTITION BY CUST_CODE ORDER BY MY) LAG_MY,
  (SELECT MIN(MY) FROM CUST_MONTH WHERE CUST_CODE = CUST_CODE) MIN_MY,
 FROM CUST_MONTH
 ORDER BY
  CUST CODE, MY
),
-- CUST FLAG
CUST FLAG AS (
 SELECT
  1 this_month_flag,
  IF(LAG MY IS NOT NULL AND
    LAG_MY = LAST_MY,
    1,0) last_month_flag,
  IF(LAG MY IS NOT NULL AND
    MIN_MY<LAST_MY,
    1,0) other_flag
 FROM CUST_LAG
),
-- CUST MONTH ALL
CUST_MONTH_ALL AS (
 SELECT
 FROM
  (SELECT DISTINCT CUST CODE FROM 'puri-crm.supermarket.supermarket' WHERE CUST CODE IS NOT NULL)
```

```
CROSS JOIN
  (SELECT
   DISTINCT DATE_TRUNC(master_date,MONTH) AS MY
   FROM
   UNNEST(GENERATE DATE ARRAY(
    (SELECT MIN(SHOP_DATE) FROM `puri-crm.supermarket.supermarket`),
    (SELECT MAX(SHOP_DATE) FROM `puri-crm.supermarket.supermarket`),
    INTERVAL 1 DAY)
   ) AS master_date )
),
-- CUST_STATUS
CUST STATUS AS (
 SELECT
  A.*,
  B.* EXCEPT (CUST CODE, MY),
  (SELECT MIN(MY) FROM CUST_MONTH WHERE CUST_CODE = A.CUST_CODE) MIN_MY_2,
  CASE
   WHEN this month flag = 1 AND last month flag = 0 AND other flag = 0 THEN 'New'
   WHEN this month flag = 1 AND last month flag = 1 THEN 'Repeat'
   WHEN this month_flag = 1 AND last month_flag = 0 AND other_flag = 1 THEN 'Reactivated'
   WHEN this month flag IS NULL AND (SELECT MIN(MY) FROM CUST MONTH WHERE CUST CODE = A.CUST CODE) < A.MY THEN
'Churn'
  END AS STATUS
 FROM CUST MONTH ALL A
 LEFT JOIN CUST FLAG B
 ON A.CUST_CODE = B.CUST_CODE
 AND A.MY = B.MY
)
-- FINAL VIEW
SELECT
 MY,
 STATUS,
 IF( STATUS = "Churn",
   -1*COUNT(DISTINCT CUST_CODE),
   COUNT(DISTINCT CUST CODE)
) COUNT
FROM CUST STATUS
WHERE STATUS IS NOT NULL
GROUP BY MY, STATUS
```





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