-- Query
-- GROUP 4

-- Pertanyaan No. 1: Menentukan live merchant baru di tahun 2020
-- OVERALL
SELECT DISTINCT merchant_id, COUNT(trx_status) AS Total_Success
FROM thisyear
WHERE (merchant_id NOT IN
  (SELECT DISTINCT merchant_id
   FROM lastyear)) AND (trx_status = 'Successful')
GROUP BY merchant_id;

-- PER KOTA
-- A01 untuk 01CT, A02 untuk 02CT, A03 untuk 03CT
SELECT DISTINCT merchant_id, COUNT(trx_status) AS Total_Success_A01
FROM thisyear
WHERE (merchant_id NOT IN
  (SELECT DISTINCT merchant_id
   FROM lastyear)) AND (trx_status = 'Successful') AND merchant_id LIKE 'A01%'
GROUP BY merchant_id;

-- PER BULAN
-- bulan pertama
SELECT DISTINCT merchant_id, COUNT(trx_status) AS Total_Success_1
FROM thisyear
WHERE (merchant_id NOT IN
  (SELECT DISTINCT merchant_id
   FROM lastyear)) AND (trx_status = 'Successful') AND trx_date >= '2020-01-01' AND trx_date
<= '2020-01-31'
GROUP BY merchant_id;

-- Bulan kedua
SELECT DISTINCT merchant_id, COUNT(trx_status) AS Total_Success_2
FROM thisyear
WHERE (merchant_id NOT IN
  (SELECT DISTINCT merchant_id
   FROM lastyear)) AND (trx_status = 'Successful') AND trx_date >= '2020-02-01' AND trx_date
<= '2020-02-31'
GROUP BY merchant_id;

```
-- Pertanyaan No. 2: Menentukan merchant tahun lalu yang bertahan
-- Overall
SELECT ly.merchant_id, COUNT(*) AS TotalMerchantLastYear
FROM lastyear ly
WHERE ly.merchant_id IN
(
    SELECT ty.merchant_id
    FROM thisyear ty
    WHERE ty.trx_status='Successful'
    )
GROUP BY 1
ORDER BY 1;

-- Tiap Kota
-- A01 untuk 01CT, A02 untuk 02CT, A03 untuk 03CT
SELECT ly.merchant_id, COUNT(*) AS Total_Kota_A
FROM lastyear ly
WHERE
ly.merchant_id LIKE 'A01%'
AND ly.merchant_id IN
(
    SELECT ty.merchant_id
    FROM thisyear ty
    WHERE ty.trx_status='Successful'
    )
GROUP BY 1
ORDER BY 1;
```

```sql
-- Pertanyaan No. 3: Menentukan merchant yang berpartisipasi dalam promo
-- Overall
SELECT SUM(Total/913*100) AS DiscountParticipationRate
FROM
(SELECT DISTINCT COUNT(*) as Total
FROM
(SELECT DISTINCT merchant_id
        FROM thisyear
    WHERE thisyear.total_revenue > thisyear.total_revenue_after_discount
) AS discount)AS TotalDiscount;

-- Tiap kota
-- A01 untuk 01CT, A02 untuk 02CT, A03 untuk 03CT
SELECT COUNT(*) AS TotalMerch
FROM
(SELECT DISTINCT merchant_id
FROM thisyear
WHERE merchant_id LIKE 'A01%'
) AS TotalMerchant;

-- Discount Participation Rate tiap kota
-- A01 untuk 01CT, A02 untuk 02CT, A03 untuk 03CT
SELECT SUM(Total/324*100) AS DiscountParticipationRate
FROM
(SELECT DISTINCT COUNT(*) as Total
FROM
(SELECT DISTINCT merchant_id
        FROM thisyear
    WHERE thisyear.total_revenue > thisyear.total_revenue_after_discount AND
 merchant_id LIKE 'A01%'
) AS discount)AS TotalDiscount;
```