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wendygo116 13 Last Edit: January 31, 2020 5:44 AM 1.1K VIEWS

```
WITH a AS
(
    SELECT v.user_id, v.visit_date,
    SUM(CASE WHEN t.transaction_date IS NOT NULL THEN 1 ELSE 0 END) AS transactions_count
    FROM Visits v
    LEFT JOIN Transactions t
    ON v.user_id = t.user_id AND v.visit_date = t.transaction_date
    GROUP BY visit_date, v.user_id
),
b AS
(
    SELECT transactions_count, COUNT(transactions_count) AS visits_count
    FROM a
    GROUP BY transactions_count
),
c AS
(
    SELECT 0 AS transactions_count, MAX(transactions_count) AS temp
    FROM b
    UNION ALL
    SELECT transactions_count + 1, temp FROM c
    WHERE transactions_count < temp
)
SELECT c.transactions_count, ISNULL(b.visits_count, 0) AS visits_count
FROM c
LEFT JOIN b
ON c.transactions_count = b.transactions_count
```

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LouisBIGDATA 2 Last Edit: 2 days ago

Two CTE is enough

```
With a AS
(select
v.user_id,
v.visit_date,
count(t.transaction_date) AS transactions_count
from visits v
```