

## QUESTION

### Single vs Repeat Job Posters

Medium

10 Points

Given a table of job postings, write a query to retrieve the number of users that have posted each job only once and the number of users that have posted at least one job multiple times.

#### Output Schema:

Column	Type
single_post_users	INT
multiple_post_users	INT

## TABLE SCHEMA

```
1 CREATE TABLE job_postings (  
2     id INT PRIMARY KEY,  
3     user_id INT,  
4     job_id INT,  
5     posted_date DATETIME  
6 );  
7  
8 INSERT INTO job_postings (id, user_id, job_id, posted_date) VALUES  
9     (1, 1, 101, '2024-01-01'),  
10    (2, 1, 102, '2024-01-02'),  
11    (3, 2, 201, '2024-01-01'),  
12    (4, 2, 201, '2024-01-15'),  
13    (5, 2, 202, '2024-01-03'),  
14    (6, 3, 301, '2024-01-01'),  
15    (7, 4, 401, '2024-01-01'),  
16    (8, 4, 401, '2024-01-15'),  
17    (9, 4, 402, '2024-01-02'),  
18    (10, 4, 402, '2024-01-16'),  
19    (11, 5, 501, '2024-01-05'),  
20    (12, 5, 502, '2024-01-10');  
21
```

## SOLUTION

```
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WITH jobs AS (
    SELECT user_id, job_id, COUNT(*) AS counts
    FROM job_postings
    GROUP BY user_id, job_id
),

users as (
    SELECT user_id,
           MAX(CASE WHEN counts > 1 THEN 1 ELSE 0 END) AS repeated_jobs
    FROM jobs
    GROUP BY user_id
)

SELECT
    COUNT(CASE WHEN has_repeated_jobs = 0 THEN 1 END) AS single_post_users,
    COUNT(CASE WHEN has_repeated_jobs = 1 THEN 1 END) AS multiple_post_users
FROM users;
```

## OUTPUT

### ▼ Tables

single_post_users	multiple_post_users
3	2

### **My Thought Process:**

I used a two-step CTE (Common Table Expression) strategy:

First, I grouped by user\_id and job\_id to count how many times each user posted a particular job.

Then, I checked if any user had more than one posting for the same job using MAX(CASE WHEN count > 1 THEN 1 ELSE 0).

### **Business Impact:**

Looking at jobs that get posted multiple times can help spot roles where people either leave quickly or don't apply at all. This might mean the job needs to be rewritten or targeted to the right kind of candidates.

