QUESTION

Liker's Liker Hard 10 Points

A dating website's schema is represented by a table of people that like other people. The table has three columns. One column is the user_id, another column is the liker_id which is the user_id of the user doing the liking, and the last column is the date time that the like occurred.

Write a query to count the number of liker's likers (the users that like the likers) if the liker has one.

Output Schema:

Column	Туре
user	STRING
count	INT

TABLE SCHEMA

```
1 CREATE TABLE likes (
2 user_id VARCHAR(50),
3 created_at DATETIME,
4 liker_id VARCHAR(50)
5);
7 INSERT INTO likes (user_id, created_at, liker_id) VALUES
8 ('A', '2024-01-01 10:00:00', 'B'),
9 ('B', '2024-01-01 11:00:00', 'C'),
10 ('B', '2024-01-01 12:00:00', 'D'),
11 ('B', '2024-01-01 13:00:00', 'E'),
12 ('C', '2024-01-02 10:00:00', 'A'),
13 ('D', '2024-01-02 14:00:00', 'E'),
14 ('E', '2024-01-02 15:00:00', 'F'),
15 ('B', '2024-01-03 09:00:00', 'G'),
16 ('H', '2024-01-03 10:00:00', 'A'),
17 ('B', '2024-01-03 11:00:00', 'C'),
18 ('I', '2024-01-03 12:00:00', 'I');
```

SOLUTION

```
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                                         Day10-Saisri
WITH likers AS (
   SELECT DISTINCT user_id AS liker
   FROM likes
likers_list AS (
   SELECT
       l1.user_id AS user,
       COUNT(DISTINCT l2.liker_id) AS count
   FROM likes l1
   JOIN likes 12
       ON l1.liker_id = l2.user_id
   GROUP BY l1.user_id
SELECT
   user,
   count
FROM likers_list
ORDER BY user;
```

OUTPUT

▼ Tables		
user	count	
А	4	
В	3	
С	1	
D	1	
Н	1	
1	1	

My Thought Process:

I broke the problem down using two steps one was to Identify all user_id values that have been liked (likers). Then, join this with the same table again to find out how many people liked the liker. The trick was realizing we needed to join the table on I1.liker_id = I2.user_id and then group by the original liked user.

Business Impact:

Understanding "liker's likers" could help dating platforms identify influencers users or the cool kids who are not just liked, but whose likers are also popular which can boost visibility for engaging users