

QUESTION

Inactive Users Percentage

Easy

10 Points

You're given two tables: users and events. The events table holds values of all of the user events in the action column (*'like', 'comment', or 'post'*).

Write a query to get the **percentage** of users that have never liked or commented, rounded to two decimal places.

Output Schema:

Column	Type
percentage	FLOAT

TABLE SCHEMA

```
1 CREATE TABLE transactions (  
2   id INT PRIMARY KEY,  
3   credit_card VARCHAR(20),  
4   merchant VARCHAR(50),  
5   amount DECIMAL(10, 2),  
6   transaction_time DATETIME  
7 );  
8  
9 INSERT INTO transactions (id, credit_card, merchant, amount, transaction_time)  
10 VALUES  
11 (1, '1234-5678-9876', 'Amazon', 50.00, '2025-01-23 10:15:00'),  
12 (2, '1234-5678-9876', 'Amazon', 50.00, '2025-01-23 10:20:00'),  
13 (3, '5678-1234-8765', 'Walmart', 30.00, '2025-01-23 11:00:00'),  
14 (4, '1234-5678-9876', 'Amazon', 50.00, '2025-01-23 10:30:00'),  
15 (5, '5678-1234-8765', 'Walmart', 30.00, '2025-01-23 11:05:00'),  
16 (6, '8765-4321-1234', 'BestBuy', 100.00, '2025-01-23 12:00:00'),  
17 (7, '1234-5678-9876', 'Amazon', 50.00, '2025-01-23 12:10:00');
```

SOLUTION

```
Day 1  
  
select round(count(user_id) * 100 / (select count(user_id) from users), 2) as  
percentage  
from users  
where user_id not in (select distinct user_id from events where action  
in('like', 'comment'))
```

OUTPUT

▼ Tables

percentage
60

My Thought Process:

First, I filtered out the users who had either liked or commented by selecting their user IDs from the events table. Then, I used a NOT IN clause with a subquery to find all the users who weren't in that list meaning they never liked or commented. Finally, I calculated the percentage of those users out of the total and rounded it using the ROUND () function. It was a simple yet insightful way to combine filtering and aggregation in SQL.

Business Impact:

Knowing how many users never interact with posts through likes or comments can help product teams recognize introverts. They can come up with some introverted emojis or reactions that can increase engagement.