



Where opinions meet truth

Write SQL query

1. We have two tables.
 - a. Table A contains two columns - user_id, created_dt
 - b. Table B contains 3 columns - device_id, user_id, created_dt
 - c. Multiple users can login on the same device on the same or different date.
 - d. We have to find the number of users who have logged in on a device till date.

For example -

Dec1 - dev1 - 1 user

Dec2 - dev1 - 2 users

Output should be

Dec1 - dev1 - 1

Dec2 - dev1 - 3

**With new_tab as (
SELECT created_dt, device_id, COUNT(user_id) as summ
FROM Table_b
GROUP BY created_dt, device_id)**

**SELECT created_dt, device_id, sum(summ) over(partition by device_id order by
created_dt) as users
FROM new_tab**

2. We have a table which has 5 columns.
- User_id, poll_id, poll_option_id, amount, created_dt
 - Users invest money on these different poll options - these entries are there in the table
 - One of the options is the outcome of the event.

Event:

How many matches will the Indian cricket team win in 2022?

Less than 50

50-60

61-65

Greater than 65

- India wins 63 matches in the end.
- Option C is the winner
- Money invested in option A, B and D should be proportionately distributed amongst users who invested money in option C
- For example - If total money invested in option A, B and D is Rs. 1500 and there are 3 users who invested 500 in option C {250, 200 and 50}
- These users would receive (750, 600 and 150 respectively) - sum is 1500.

- Write down a query for the above settlement process

Input Table:

User_ID	Poll_Id	Poll_Option_Id	Amount	Created_dt
id1	p1	A	200	2021-12-01
id2	p1	C	250	2021-12-01
id3	p1	A	200	2021-12-01

id4	p1	B	500	2021-12-01
id5	p1	C	50	2021-12-01
id6	p1	D	500	2021-12-01
id7	p1	C	200	2021-12-01
id8	p1	A	100	2021-12-01

SET @ratio = 0

**Select @ratio = SUM(case when poll_option_id <> c then amount else 0 end) /
SUM(case when poll_option_id = c then amount else 0 end) as ratio
From poll**

**select user_id, amount * @ratio
from poll
Where poll_option_id = 'C'**

**Output Table:
Option C wins**

User ID	Returns
id2	1000
id5	200
id7	800

Please submit your **assignment** to puneet@probo.in
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Note: Please share your answers in PDF format.