

Given a table of Facebook posts, for each user who posted at least twice in 2021, write a query to find the number of days between each user's first post of the year and last post of the year in the year 2021. Output the user and number of the days between each user's first and last post.

```
1 SELECT
2     user_id,
3     MAX(post_date::date)- MIN(post_date::date) AS days_between
4 FROM
5     posts
6 WHERE
7     DATE_PART('year',post_date::date)=2021
8 GROUP BY
9     user_id
10 HAVING
11     COUNT(post_id)>1
```

PostgreSQL 14

Run Code

Output

user_id	days_between
151652	307
661093	206

Write a query to identify the top 2 Power Users who sent the highest number of messages on Microsoft Teams in August 2022. Display the IDs of these 2 users along with the total number of messages they sent. Output the results in descending order based on the count of the messages.

```
1 SELECT sender_id,
2 COUNT(DISTINCT message_id) As total_message
3 FROM messages
4 WHERE EXTRACT(MONTH FROM sent_date) = '8'
5       AND EXTRACT(YEAR FROM sent_date) = '2022'
6 GROUP BY sender_id
7 HAVING COUNT(DISTINCT message_id) > 2
8 ORDER BY total_message DESC;
9
```

PostgreSQL 14

Run Code

Output

sender_id	total_message
3601	4
2520	3

Assume you're given the tables containing completed trade orders and user details in a Robinhood trading system.

Write a query to retrieve the top three cities that have the highest number of completed trade orders listed in descending order. Output the city name and the corresponding number of completed trade orders.

```
1 SELECT
2 u.city,
3 COUNT(DISTINCT t.quantity) AS total_quantity
4 FROM trades AS t
5 LEFT JOIN users AS u
6 ON t.user_id = u.user_id
7 WHERE status = 'Completed'
8 GROUP BY u.city
9 ORDER BY total_quantity DESC
10 LIMIT '3';
```

PostgreSQL 14

Run Code

Submit

Output



city	total_quantity
San Francisco	4
Boston	3
Denver	2

THANK YOU!



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