

SQL Advent Calendar

The North Pole Network wants to see who's the most active in the holiday chat each day....

Question 1: The North Pole Network wants to see who's the most active in the holiday chat each day. Write a query to count how many messages each user sent, then find the most active user(s) each day. If multiple users tie for first place, return all of them.

```
WITH daily_message_count AS (
    SELECT
        nm.sent_at::date AS sent_date,
        nu.user_id,
        nu.user_name,
        COUNT(*) AS num_messages
    FROM npn_users nu
    JOIN npn_messages nm
        ON nu.user_id = nm.sender_id
    GROUP BY
        nm.sent_at::date,
        nu.user_id,
        nu.user_name
),
ranked AS (
    SELECT
        sent_date,
        user_id,
        user_name,
        num_messages,
        RANK() OVER (PARTITION BY sent_date ORDER BY num_messages DESC) AS chat_rank
    FROM daily_message_count
)
SELECT
    sent_date,
    user_id,
    user_name,
    num_messages
FROM ranked
WHERE chat_rank = 1
ORDER BY sent_date, user_id;
```

