



Yusuf Didighar • 3rd+

Founder & Creator @ CloudAndDataUniverse | Data Engineering & BI Architect | ...
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SQL Interview question # 1

✅ Twitter SQL Interview Question Solved!

🧠 Full Credits: [Nick Singh](#) 📖 🐼 [DataLemur](#) 🐒 ([Ace the SQL & Data Interview](#))

Question:

Assume you're given a table containing Twitter tweet data.

Write a SQL query to create a histogram of tweets posted per user in 2022.

🎯 Output:

Tweet Count per User (tweet_bucket)

Number of Users (number_of_users) who posted that many tweets

🔗 Create Table:

```
CREATE TABLE tweets (  
  tweet_id INT,  
  user_id INT,  
  msg TEXT,  
  tweet_date DATETIME  
);
```

🔄 Insert Data:

```
INSERT INTO tweets (tweet_id, user_id, msg, tweet_date) VALUES  
(214252, 111, 'Am considering taking Tesla private at $420. Funding secured.', '2021-12-30 00:00:00'),  
(739252, 111, 'Despite the constant negative press covfefe', '2022-01-01 00:00:00'),  
(846402, 111, 'Following @NickSinghTech on Twitter changed my life!', '2022-02-14 00:00:00'),  
(241425, 254, 'If the salary is so competitive why won't you tell me what it is?', '2022-03-01 00:00:00'),  
(231574, 148, 'I no longer have a manager. I can't be managed', '2022-03-23 00:00:00');
```

✅ Solution 1: Using Subquery

```
SELECT
    tweet_count_per_user AS tweet_bucket,
    COUNT(*) AS number_of_users
FROM (
    SELECT
        user_id,
        COUNT(*) AS tweet_count_per_user
    FROM tweets
    WHERE YEAR(tweet_date) = 2022
    GROUP BY user_id
) AS user_tweet_counts
GROUP BY tweet_count_per_user
ORDER BY tweet_bucket;
```

✅ Solution 2: Using CTE (Recommended)

```
WITH user_tweet_counts AS (
    SELECT
        user_id,
        COUNT(*) AS tweet_count
    FROM tweets
    WHERE YEAR(tweet_date) = 2022
    GROUP BY user_id
)
SELECT
    tweet_count,
    COUNT(*) AS num_users
FROM user_tweet_counts
GROUP BY tweet_count
ORDER BY tweet_count;
```

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Tag your friends prepping for interviews!

💖 Special thanks to [Nick Singh](#) 🇮🇳👨🏻💻 for such practical SQL challenges.

data

tweet_id	user_id	msg	tweet_date
214252	111	Am considering taking Tesla private at \$420. Fundi...	2021-12-30 00:00:00.000
739252	111	Despite the constant negative press covfefe	2022-01-01 00:00:00.000
846402	111	Following @NickSinghTech on Twitter changed my ...	2022-02-14 00:00:00.000
241425	254	If the salary is so competitive why won't you tell me ...	2022-03-01 00:00:00.000
231574	148	I no longer have a manager. I can't be managed	2022-03-23 00:00:00.000

output

tweet_bucket	number_of_users
1	2
2	1