

SQL Interview question # 1

▼ Twitter SQL Interview Question Sol



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');

```
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;
```

If you found this helpful, give it a 👍

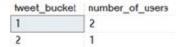
Tag your friends prepping for interviews!

Special thanks to Nick Singh for such practical SQL challenges.

data

tweet_id	user_id	msg	tweet_date
214252	111	Am considering taking Tesia 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





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