SQL Review II

Agenda - Schedule

1. **SQL LeetCode Hackathon**
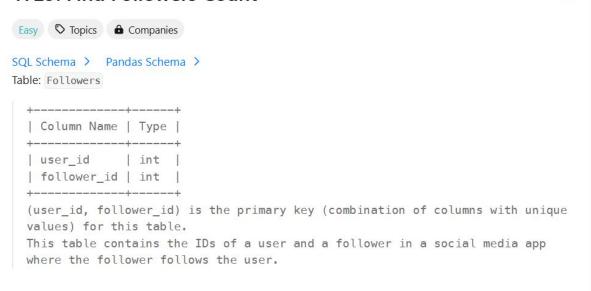
2. **Break**

3. **TLAB #3**

Agenda - Announcements

- TLAB #3 due 5/14

- End of Phase Project Released Tomorrow

  - **Please attend the review session tomorrow** or you will miss crucial detail/project selection.

Agenda - Goals

- Simulate the interview process by asking you to complete and present

  technical challenges live.

- Continue working on TLAB #3

LeetCode Q1

1729. Find Followers Count

Easy   🏷 Topics   🔒 Companies

SQL Schema ›   Pandas Schema ›

Table: `Followers`

```
+-------------+------+
| Column Name | Type |
+-------------+------+
| user_id     | int  |
| follower_id | int  |
+-------------+------+
```
(user_id, follower_id) is the primary key (combination of columns with unique
values) for this table.
This table contains the IDs of a user and a follower in a social media app
where the follower follows the user.

Write a solution that will, for each user, return the number of followers

Take 10 minutes to work on the "Find Followers Count" Leetcode problem:
https://leetcode.com/problems/find-followers-count/?envType=study-plan
-v2&envId=top-sql-50

LeetCode Q2

1141. User Activity for the Past 30 Days I

Solved ⊘

Easy   ◌ Topics   🔒 Companies

SQL Schema ›   Pandas Schema ›

Table: `Activity`

```
+----------------+---------+
| Column Name    | Type    |
+----------------+---------+
| user_id        | int     |
| session_id     | int     |
| activity_date  | date    |
| activity_type  | enum    |
+----------------+---------+
```

This table may have duplicate rows.
The activity_type column is an ENUM (category) of type ('open_session',
'end_session', 'scroll_down', 'send_message').
The table shows the user activities for a social media website.
Note that each session belongs to exactly one user.

Take 10 minutes to work on the "User Activity for the Past 30 Days I"
Leetcode problem:
https://leetcode.com/problems/user-activity-for-the-past-30-days-i/description/?envType=study-plan-v2&envId=top-sql-50

LeetCode Q3

1633. Percentage of Users Attended a Contest

Solved ⊘

Easy · ◇ Topics · 🔒 Companies

SQL Schema > Pandas Schema >

Table: `Users`

```
+--------------+----------+
| Column Name  | Type     |
+--------------+----------+
| user_id      | int      |
| user_name    | varchar  |
+--------------+----------+
user_id is the primary key (column with unique values) for this table.
Each row of this table contains the name and the id of a user.
```

Take 10 minutes to work on the "Percentage of Users Attended a Contest" Leetcode problem:
https://leetcode.com/problems/percentage-of-users-attended-a-contest/description/?envType=study-plan-v2&envId=top-sql-50

LeetCode Q4

1280. Students and Examinations

Easy   🏷 Topics   🔒 Companies

SQL Schema ＞   Pandas Schema ＞

Table: Students

```
+----------------+---------+
| Column Name    | Type    |
+----------------+---------+
| student_id     | int     |
| student_name   | varchar |
+----------------+---------+
student_id is the primary key (column with unique values) for this table.
Each row of this table contains the ID and the name of one student in the
school.
```

IF TIME PERMITS check out "Students and Examinations":
https://leetcode.com/problems/students-and-examinations/description/?envType=study-plan-v2&envId=top-sql-50

TLAB #3

Lab (Due 5/14)

Minas Gerais, Brazil

You are a data engineer at a Brazil-based weather prediction startup called Curu-Sight. The goal of this startup is to analyze weather trends in Brazil and predict the output of non-durable consumer goods at harvest time.

You will analyze a dataset that contains averages calculated based on rainfall, temperature, humidity, and wind metrics collected during the coffee growing season.

You will also analyze a dataset that contains Minas Gerais' crop output. **You will then combine these two datasets to explore how the weather influences coffee growth.**

Next Week...

Next week will entail:

- **Monday**: *End of Phase Project Work*

- **Tuesday**: *End of Phase Project Work*

- **Wednesday**: *End of Phase Project Work*

- **Thursday**: **NO** *Review Session*