



SQL Review



THE KNOWLEDGE HOUSE

Agenda - Schedule

1. SQL LeetCode Hackathon
2. Break
3. TLAB #3

○ Please ensure you've started by now!





Agenda - Announcements

- Week 9 Pre-Class Quiz due 5/9 (2 attempts)
- TLAB #3 due 5/14
 - Early grade due date: 5/7
 - Extension due date: 5/13



Agenda - Goals

- Simulate the interview process by asking you to complete and present technical challenges live.
- Continue working on TLAB #3



SQL LeetCode Exercise Day

Even if you don't have the answer, let us know **how you would begin this problem** and we'll work through it together!

Just like in W7D3, we will spend the evening today going through LeetCode questions.

We will aim to complete 4 LeetCode questions using the SQL syntax we've learned this past week.

Look to your notes, talk to your peers, watch the recordings. Let's get started!

LeetCode Q1

595. Big Countries

Solved 

Easy

Topics

Companies

[SQL Schema](#) > [Pandas Schema](#) >

Table: World

+-----+	
Column Name	Type
+-----+	
name	varchar
continent	varchar
area	int
population	int
gdp	bigint
+-----+	

name is the primary key (column with unique values) for this table.

Each row of this table gives information about the name of a country, the continent to which it belongs, its area, the population, and its GDP value.

Take 10 minutes to work on the “Big Countries” Leetcode problem:

<https://leetcode.com/problems/big-countries/description/?envType=study-plan-v2&envId=top-sql-50>

LeetCode Q2

1068. Product Sales Analysis I

Solved 

Easy

Topics

Companies

[SQL Schema](#) > [Pandas Schema](#) >

Table: Sales

Column Name	Type
sale_id	int
product_id	int
year	int
quantity	int
price	int

(sale_id, year) is the primary key (combination of columns with unique values) of this table.

product_id is a foreign key (reference column) to Product table.

Each row of this table shows a sale on the product product_id in a certain year.

Note that the price is per unit.

Take 10 minutes to work on the “Product Sales Analysis I” Leetcode problem:

<https://leetcode.com/problems/product-sales-analysis-i/description/?envType=study-plan-v2&envId=top-sql-50>


LeetCode Q3

596. Classes More Than 5 Students

Solved 

Easy

 Topics

 Companies

[SQL Schema](#) > [Pandas Schema](#) >

Table: Courses

Column Name	Type
student	varchar
class	varchar

(student, class) is the primary key (combination of columns with unique values) for this table.

Each row of this table indicates the name of a student and the class in which they are enrolled.

Take 10 minutes to work on the “Classes More Than 5 Students” Leetcode problem:

<https://leetcode.com/problems/classes-more-than-5-students/?envType=study-plan-v2&envId=top-sql-50>

LeetCode Q4

1581. Customer Who Visited but Did Not Make Any Transactions

Solved 

Easy

 Topics

 Companies

[SQL Schema](#) > [Pandas Schema](#) >

Table: Visits

+-----+-----+		
Column Name	Type	
+-----+-----+		
visit_id	int	
customer_id	int	
+-----+-----+		

visit_id is the column with unique values for this table.

This table contains information about the customers who visited the mall.

IF TIME PERMITS (aka don't start this if we're 10 mins away from break)
check out "Classes More Than 5 Students":

<https://leetcode.com/problems/customer-who-visited-but-did-not-make-any-transactions/description/?envType=study-plan-v2&envId=top-sql-50>

TLAB #3

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Lab (Due 5/14)

This is mostly **self-guided**, so be sure to utilize the slides/notes/recordings from W6, W7, & W8



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: *Advanced SQL I*
- Tuesday: *Advanced SQL II*
- Wednesday: *Linear Regression*
- Thursday: *Review Session*

