

Day58 - April 3rd 2024

1. Started my day as usual

2. Began solving [215. Kth Largest Element in an Array](#)

Documented my solution and approach : [4-3-24_Kth Smallest element array](#)

3. Still Working on the data engineering project

Find the learning doc here : [Real Time Data Streaming 4-2-24](#)

4. Ended my day by solving complex SQL question from data lemur

Verizon SQL Interview Question

datalemur.com/questions/international-call-percentage

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International Call Percentage [Verizon SQL Interview Question]

Description Solution Discussion Submissions

Medium Verizon [Share on Twitter](#) [Share on LinkedIn](#)

A phone call is considered an international call when the person calling is in a different country than the person receiving the call.

What percentage of phone calls are international? Round the result to 1 decimal.

Assumption:

- The `caller_id` in `phone_info` table refers to both the caller and receiver.

phone_calls Table:

Column Name	Type
caller_id	integer
receiver_id	integer
call_time	timestamp

phone_calls Example Input:

caller_id	receiver_id	call_time
1	2	2022-07-04 10:13:49
1	5	2022-08-21 23:54:56
5	1	2022-05-13 17:24:06

PostgreSQL 14

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Verizon SQL Interview Question

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```
1 -- SELECT * FROM phone_calls pc
2 -- inner join phone_info pi on pc.caller_id = pi.caller_id;
3
4 -- SELECT * FROM phone_calls pc
5 -- inner join phone_info pi on pc.receiver_id = pi.caller_id and pc.caller_id = pi.caller_id
6
7 -- SELECT pc.caller_id, pc.receiver_id, pi2.country_id as caller_id, pi.country_id as receiver_id
8 -- inner join phone_info pi on pc.receiver_id = pi.caller_id
9 -- inner join phone_info pi2 on pc.caller_id = pi2.caller_id
10
11 SELECT ROUND(100.0*sum(case when pi2.country_id != pi.country_id then 1 end)/count(pi2.country_id))
12 inner join phone_info pi on pc.receiver_id = pi.caller_id
13 inner join phone_info pi2 on pc.caller_id = pi2.caller_id
```

PostgreSQL 14

Run Code Submit