44_International Call Percentage Medium - Solution

Source - https://datalemur.com/questions/international-call-percentage

Running Notes:

- 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.

```
WITH country_of_caller_CTE AS (
SELECT p_c.caller_id, p_c.receiver_id,
p_i.country_id AS country_of_caller
FROM phone_calls AS p_c
INNER JOIN phone_info AS p_i
ON p_c.caller_id = p_i.caller_id),

country_of_reciever_CTE AS (
SELECT p_c.caller_id, p_c.receiver_id,
p_i.country_id AS country_of_receiver
FROM phone_calls AS p_c
INNER JOIN phone_info AS p_i
ON p_c.receiver_id = p_i.caller_id),

international_call_count AS (SELECT *
FROM country_of_caller_CTE as cc
INNER JOIN country_of_reciever_CTE as cr
ON cc.caller_id = cr.caller_id AND cc.receiver_id = cr.receiver_
WHERE cc.country_of_caller != cr.country_of_receiver)

SELECT
    ROUND(
```

```
    100.0 *
    (SELECT COUNT(*) FROM international_call_count)
    /
    (SELECT COUNT(*) FROM phone_calls),1)
    AS international_calls_pct;
```

Okay so what I did I will break it down here,

- I first found out the country of the caller
- then I found out the country of the receiver
- then I wrote a query to replicate the below in a code

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

- then I counted the total number of international calls / total number of calls made

Documenting the error I made in a part of the code

```
(SELECT COUNT(*) FROM international_call_count / SELECT COUNT(*

 Output

 Error

 syntax error at or near "/" (LINE: 21)
```

The syntax error occurs because SQL does not support the use of `/` (division operator) directly between two `SELECT` statements. Instead, you must use subqueries with proper parentheses to structure the query correctly.

Written By,

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