

## Question 1

Write an SQL Query to find for each user, the join date and the number of orders they made as a buyer in 2019.

Return the result table in any order.

The screenshot shows a LeetCode submission for the problem "1159. Market Analysis II". The SQL query is as follows:

```
1 # write your MySQL query statement below
2 SELECT
3     Users.user_id AS buyer_id,
4     Users.join_date,
5     COUNT(Orders.order_id) orders_in_2019
6
7 FROM Users
8 LEFT JOIN Orders ON
9     Users.user_id = Orders.buyer_id AND
10    Orders.order_date LIKE '2019%'
11
12 GROUP BY
13     Users.user_id;
```

The output table is:

buyer_id	join_date	orders_in_2019
1	2018-01-01	1
2	2018-02-09	2
3	2018-01-19	0
4	2018-05-21	0

The expected result table is identical to the output table.

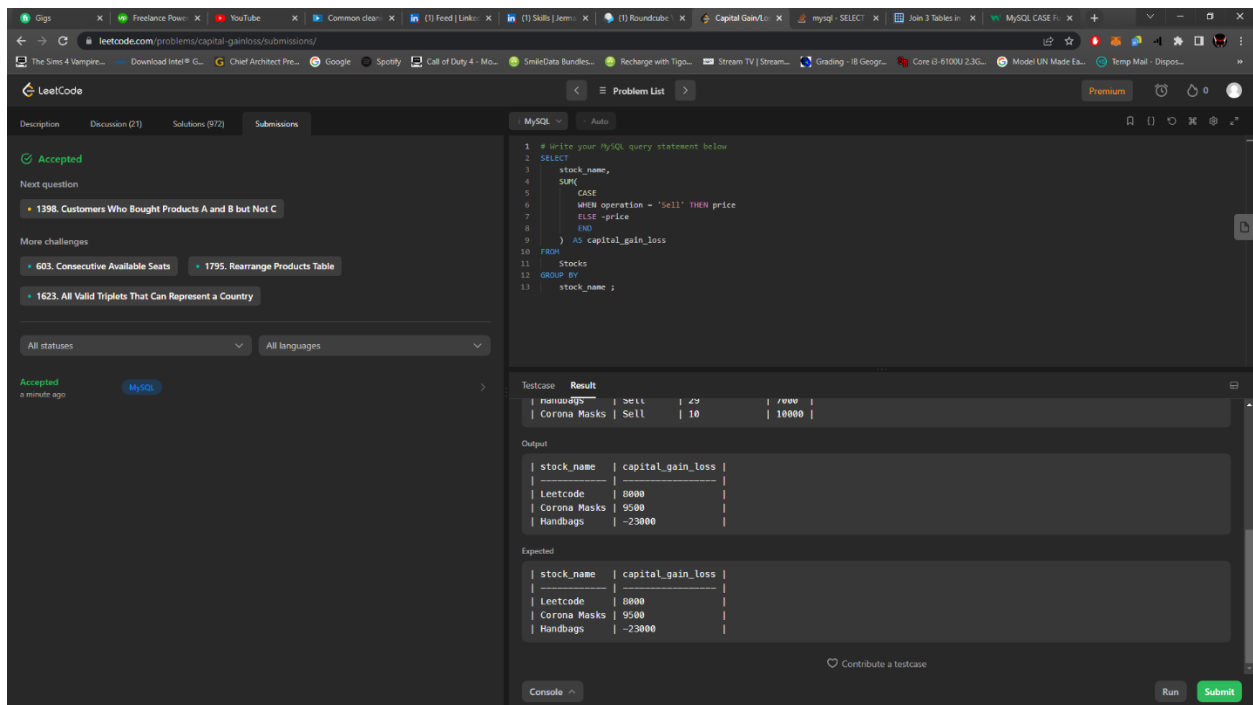
*Solution for Question 1*

## Question 2

Write an SQL query to report the Capital gain/loss for each stock.

The Capital gain/loss of a stock is the total gain or loss after buying and selling the stock one or many times.

Return the result table in any order.



The screenshot shows a LeetCode submission for a SQL problem. The problem is "1398. Customers Who Bought Products A and B but Not C". The user has submitted a MySQL query and it has been accepted. The query calculates the capital gain/loss for each stock based on buy and sell prices. The output shows the stock names and their corresponding capital gain/loss values.

```
1 # Write your MySQL query statement below
2 SELECT
3     stock_name,
4     SUM(
5         CASE
6             WHEN operation = 'sell' THEN price
7             ELSE -price
8         END
9     ) AS capital_gain_loss
10 FROM
11     Stocks
12 GROUP BY
13     stock_name ;
```

Testcase Result

Testcase	Result
Handbags	Sell   20   10000
Corona Masks	Sell   10   10000

Output

stock_name	capital_gain_loss
Leetcode	8000
Corona Masks	9500
Handbags	-23000

Expected

stock_name	capital_gain_loss
Leetcode	8000
Corona Masks	9500
Handbags	-23000

*Solution for Question 2*