

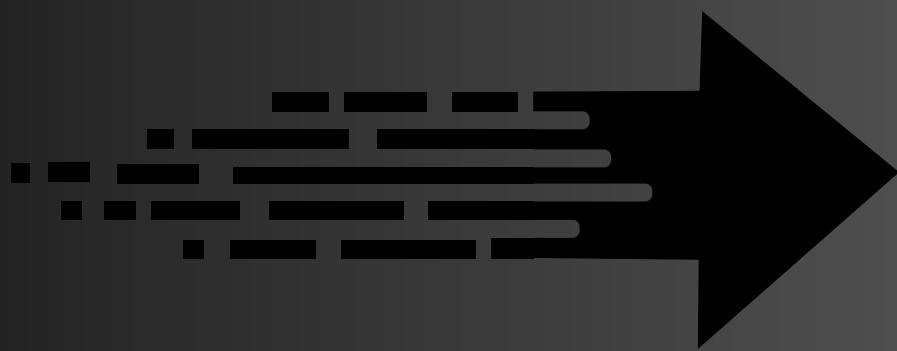


LeetCode

50 Days 50 SQL Questions
Work In Progress

Day 21/50

***21. Immediate Food
Delivery II***





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Question

If the customer's preferred delivery date is the same as the order date, then the order is called **immediate**; otherwise, it is called **scheduled**.

The **first order** of a customer is the order with the earliest order date that the customer made. It is guaranteed that a customer has precisely one first order.

Write a solution to find the percentage of immediate orders in the first orders of all customers, **rounded to 2 decimal places**.





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Table

Input:

Delivery table:

delivery_id	customer_id	order_date	customer_pref_delivery_date
1	1	2019-08-01	2019-08-02
2	2	2019-08-02	2019-08-02
3	1	2019-08-11	2019-08-12
4	3	2019-08-24	2019-08-24
5	3	2019-08-21	2019-08-22
6	2	2019-08-11	2019-08-13
7	4	2019-08-09	2019-08-09





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Approach

Used the 1st CTE to rank deliveries by order date, the 2nd to fetch the first orders for each customer, and the 3rd to find records where order date matches the customer's preferred date. Finally, calculated the immediate percentage using the 2nd and 3rd CTEs.





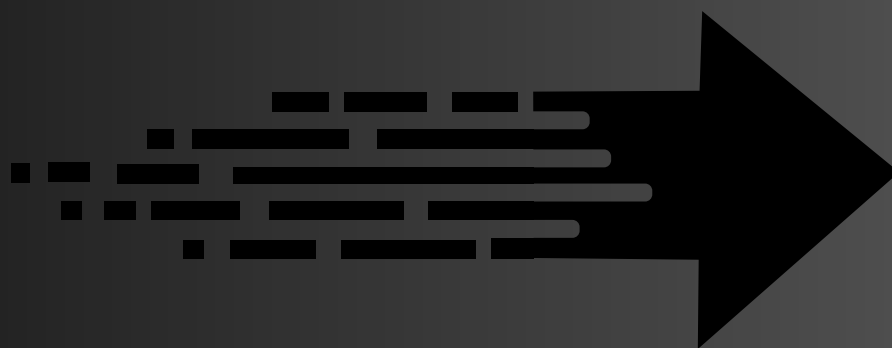
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Query

MySQL Auto

```
1 WITH RankedDeliveries AS (  
2     SELECT  
3         customer_id,  
4         order_date,  
5         customer_pref_delivery_date,  
6         RANK() OVER (PARTITION BY customer_id ORDER BY order_date) AS rnk  
7     FROM delivery),  
8  
9     A as (SELECT  
10         customer_id,  
11         order_date,  
12         customer_pref_delivery_date  
13     FROM RankedDeliveries  
14     WHERE rnk = 1),  
15  
16     B AS(  
17         SELECT COUNT(order_date) AS immediate  
18         FROM A  
19         WHERE DATEDIFF(order_date,customer_pref_delivery_date) = 0  
20     )  
21  
22     SELECT ROUND(((B.immediate*100)/COUNT(A.customer_id)),2) AS immediate_percentage  
23     FROM A,B;
```





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Output

Output:

immediate_percentage
50.00





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thoughts in the
comment section*

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Thank You :)

