Problem 2686: Immediate Food Delivery III

Problem Information

Difficulty: Medium
Acceptance Rate: 0.00%
Paid Only: No

Problem Description

Table:

Delivery

+-----------------------------+---------+ | Column Name | Type | +-----------------------------+---------+ | delivery_id | int | | customer_id | int | | order_date | date | | customer_pref_delivery_date | date | +-----------------------------+---------+ delivery_id is the column with unique values of this table. Each row contains information about food delivery to a customer that makes an order at some date and specifies a preferred delivery date (on the order date or after it).

If the customer's preferred delivery date is the same as the order date, then the order is called

immediate,

otherwise, it is

scheduled

.

Write a solution to find the percentage of immediate orders on each unique

order_date

,

rounded to 2 decimal places

.

Return

the result table ordered by

order_date

in

ascending

order.

The result format is in the following example.

Example 1:

Input:

Delivery table: +-------------+-------------+------------+----------------------------+ | delivery_id | customer_id | order_date | customer_pref_delivery_date | +-------------+-------------+------------+----------------------------+ | 1 | 1 | 2019-08-01 | 2019-08-02 | | 2 | 2 | 2019-08-01 | 2019-08-01 | | 3 | 1 | 2019-08-01 | 2019-08-01 | | 4 | 3 | 2019-08-02 | 2019-08-13 | | 5 | 3 | 2019-08-02 | 2019-08-02 | | 6 | 2 | 2019-08-02 | 2019-08-02 | | 7 | 4 | 2019-08-03 | 2019-08-03 | | 8 | 1 | 2019-08-03 | 2019-08-03 | | 9 | 5 | 2019-08-04 | 2019-08-08 | | 10 | 2 | 2019-08-04 | 2019-08-18 | +-------------+-------------+------------+----------------------------+

Output:

+------------+----------------------+ | order_date | immediate_percentage | +------------+----------------------+ | 2019-08-01 | 66.67 | | 2019-08-02 | 66.67 | | 2019-08-03 | 100.00 | | 2019-08-04 | 0.00 | +------------+----------------------+

Explanation:

- On 2019-08-01 there were three orders, out of those, two were immediate and one was scheduled. So, immediate percentage for that date was 66.67. - On 2019-08-02 there were

three orders, out of those, two were immediate and one was scheduled. So, immediate percentage for that date was 66.67. - On 2019-08-03 there were two orders, both were immediate. So, the immediate percentage for that date was 100.00. - On 2019-08-04 there were two orders, both were scheduled. So, the immediate percentage for that date was 0.00. order_date is sorted in ascending order.

Code Snippets

MySQL:

```
# Write your MySQL query statement below
```

MS SQL Server:

```
/* Write your T-SQL query statement below */
```

PostgreSQL:

```
-- Write your PostgreSQL query statement below
```

Oracle:

```
/* Write your PL/SQL query statement below */
```

Pandas:

```
import pandas as pd

def immediate_delivery(delivery: pd.DataFrame) -> pd.DataFrame:
```

Solutions

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