# **DESCRIPTION**

Table: Delivery				
++				
Column Name   Type				
++				
delivery_id				
customer_id int				
order_date   date				
customer_pref_delivery_date   date				
++				
delivery_id is the column of unique values of this table.				
The table holds information about food delivery to customers that make orders at some date and specify a preferred delivery date (on the same order date or after it).				
If the customer's preferred delivery date is the same as the order date, then the order is called <b>immediate</b> ; otherwise, it is called <b>scheduled</b> .				
The <b>first order</b> 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, <b>rounded</b> to 2 decimal places.				
The result format is in the following example.				
Example 1:				
Input:				
Delivery table:				
++				
delivery_id   customer_id   order_date   customer_pref_delivery_date				
++   1				

| 2 | 2 | 2019-08-02 | 2019-08-02

++				
Output:				
+	+	+	+	
7	4	2019-08-09   2019-08-09	1	
6	2	2019-08-11   2019-08-13	1	
5	3	2019-08-21   2019-08-22	1	
4	3	2019-08-24   2019-08-24	1	
3	1	2019-08-11   2019-08-12		

| immediate\_percentage | | 50.00

### **Explanation:**

The customer id 1 has a first order with delivery id 1 and it is scheduled.

The customer id 2 has a first order with delivery id 2 and it is immediate.

The customer id 3 has a first order with delivery id 5 and it is scheduled.

The customer id 4 has a first order with delivery id 7 and it is immediate.

Hence, half the customers have immediate first orders.

# **SOLUTION**

## MySQL:

- Select query\_name, calculate quality using AVG(), and round the result to 2 decimals using ROUND()
- Calculate poor\_query\_percentage using IF() (if rating is less than 3, then 1, else 0), add up using SUM(), and round the result to 2 decimals using ROUND()
- GROUP BY query\_name

TO DO

#### PostgreSQL:

- Select query\_name, calculate quality using SUM() and COUNT(), and round the result to 2 decimals using ROUND()
- Calculate poor\_query\_percentage using CASE (when rating is less than 3, then 1, else 0), add up using SUM(), and round the result to 2 decimals using ROUND()
- GROUP BY query\_name

```
WITH t1 AS(
    SELECT customer_id, MIN(order_date) first_order
    FROM DELIVERY
    GROUP BY 1)

SELECT ROUND(AVG(CASE WHEN d.order_date = d.customer_pref_delivery_date THEN 1 ELSE 0 END) * 100, 2)
immediate_percentage
FROM Delivery d

JOIN t1
ON t1.customer_id = d.customer_id AND t1.first_order = d.order_date;
```