

InClass Prediction Competition

[Students] Shopee Code League - Logistics

Logistics Performance

547 teams · 22 days ago

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Logistics Performance

Due to the recent COVID-19 pandemic across the globe, many individuals are increasingly turning to online platforms like Shopee to purchase their daily necessities. This surge in online orders has placed a strain onto Shopee and our logistics providers but customer expectations on the timely delivery of their goods remain high. On-time delivery is arguably one of the most important factors of success in the eCommerce industry and now more than ever, we need to ensure the orders reach our buyers on time in order to build our users' confidence in us.

In order to handle the millions of parcels that need to be delivered everyday, we have engaged multiple logistics providers across the region. Only the best logistics providers that are able to meet Shopee's delivery standards are partnered with us.

providers to ensure they perform their utmost.

The consistent monitoring and process of holding our logistics providers accountable allows us to maintain our promise of timely deliveries to our buyers.

Task

Identify all the orders that are considered late depending on the Service Level Agreements (SLA) with our Logistics Provider.

For the purpose of this question, assume that all deliveries are considered successful by the second attempt.

Basic Concepts

- Each orderid represents a distinct transaction on Shopee.
- SLA can vary across each route (A route is defined as Seller's Location to Buyer's Location) - Refer to SLA_matrix.xlsx
- Pick Up Time is defined as the time when the 3PL picks up the parcel and begins to process for delivery. It marks the start of the SLA calculation.
- Delivery Attempt is defined as an attempt made by the 3PL to deliver the parcel to the customer. It may or may not be delivered successfully. In the case when it is unsuccessful, a 2nd attempt will be made. A parcel that has no 2nd attempt is deemed to have been successfully delivered on the 1st attempt.
- All time formats are stored in epoch time based on Local Time (GMT+8).
- Only consider the date when determining if the order is late; ignore the time.
- Working Days are defined as Mon - Sat, Excluding Public Holidays.
- SLA calculation begins from the next day after pickup (Day 0 = Day of Pickup; Day 1 = Next Day after Pickup)

2nd Attempt must be no later than 3 working days after the 1st Attempt, regardless of origin to destination route (Day 0 = Day of 1st Attempt; Day 1 = Next Day after 1st Attempt).

1. 2020-03-08 (Sunday);
2. 2020-03-25 (Wednesday);
3. 2020-03-30 (Monday);
4. 2020-03-31 (Tuesday)

Submission Format

Check each delivery order and determine whether it is late.

Two columns required:

- orderid.
- is_late: assign value 1 if the order is late, otherwise 0.

orderid	is_late
1955512445	0
1955598428	1

Your submission should have 3,176,313 rows (excluding headers), each with 2 columns.

Tips:

1) You are advised to run your tests on a sample of the dataset first.

2) If you are unable to solve the entire problem within the time limit, create the output csv with the required number of columns and rows based on a subset of the problem first.

Shopee Logistics Challenge

3 votes · 11 hours ago

Timezone

1 reply · 22 days ago

Logistic - 1.0 Solution

20 votes · 22 days ago

Logistics 1.0 Solution Beginner Friendly

15 votes · 22 days ago

1.0 solution using CustomBusinessDay

10 votes · 22 days ago

2nd attempt arrived on Sunday/holiday

1 reply · 22 days ago

Submission Answer

1 reply · 22 days ago

Very Slow

2 replies · 21 days ago

Launch

22 days ago

Close

22 days ago

547 Teams

1,244 Competitors

1,927 Entries

Points

This competition did not award standard ranking points

Tiers

This competition did not count towards tiers

This is a Kaggle InClass competition provided free to academics.
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Tags

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