**Questions**

Write a summary report laying out important insights about operations health. Write about the findings. Suggestion: on-time delivery, cancellation rate, delivery lead-time, failed delivery, etc.

+ How is the performance of delivery lead-time? 2 hours, 1 days, 2 days and so on?

+ Evaluate the failed delivery rate and the reason behind it.  
  
+ Evaluate the cancellation rate.

+ 3PL carrier or warehouse performance.

+ **Any other insight that you can find out.**

**Design a PDF version** of report and put in all the metrics (chart, dashboard) and insight (text).

Please note the tool your team are using for data processing and visualization (Python/SQL/BI …) at the end of the pdf. Code or excel formula included would be appreciated.

Maximum pdf page is 5.

**Submit by end of Sat 23/Jul.**

**Side notes**

1. This is a data of an e-commerce company (e.g Amazon, Ebay …), each line is 1 order.
2. Standard process for an order: purchase --> verify --> pick --> pack --> dispatch --> deliver
3. **Data may contain some minor discrepancy, try to figure out and make a warning**
4. Types of Order:

- Instock: All items in orders are available in warehouse -> we can process order immediately - Backorder: Some items in orders are not available anymore in warehouse (out of stock) -> we need to buy from suppliers, so order has to wait until goods arrive to warehouse. After all items in the order is enough, backorder will become Instock and wait for print out

- Preorder: items are not yet sold in the market yet we allow customers to order it and we will deliver order when items are sold in the market  
Status of Order: 'giao\_hang\_thanh\_cong' and 'complete' are the same

5. ‘is\_extreme\_fast\_delivery’ column is ‘giao hàng hoả tốc’. 1 means True, 0 means False.

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PLEASE DO NOT DISTRIBUTE OUTSIDE OF THE CONTEST.