





Problem Statement

Problem 1: Time consuming for certain manual check process

Admin staff would need to ensure pricing of different categories of products are correctly keyed and verified.

Problem 2: Manual forwarded selection process

Selecting an forwarder, with the consideration of many factors like freight days, port of calls, service vs price manually is not optimal

Solution 1: Python

A python script was proposed to run through the sales order and to automatically generate the necessary checking output. This will reduce the admin personnel needed for manual checking. As shown below, our code will allow us to have a column which states "success" or "unsuccess". This would allow admin personnel to focus only on the "unsuccess" entries.

8	20001	53	5	Restaurant A pte Itd	Trade	Spirits	Success
8	20002	38	5	Restaurant A pte Itd	Trade	Spirits	Success
8	20003	50	5	Restaurant A pte Itd	Trade	Spirits	Unsuccess

Solution 2: Excel solver

Goal Programming and Excel solver was proposed to select an optimal forwarder by considering Cost, Estimated Time of arrival and Service. Excel should also be able to generate summary reports of the selection processes, as shown below.



