**MHLondon Assignment – Junior Business Analyst**

**Q1.**

To determine which option to choose between keeping a month's stock or 20 days stock in FBA for a specific SKU, we can calculate the total cost for each option and compare them.

Let's use SKU MH-11 as an example.

**Given:**

Length = 20.50

Width = 7.00

Height = 20.50

Average Monthly Sales = 86

Cost Per Pallet = $10.00

CBM/Volume of a Pallet = 2.2

Fee per CBM for being Understocked = $0.57

1. First, calculate the total volume of stock for one month and 20 days:

Total Volume for 1 Month = Average Monthly Sales x (L x W x H) = 86 x (20.50 x 7.00 x 20.50) = Total CBM for 1 Month

Total Volume for 20 Days = Average Daily Sales x (L x W x H) x 20 = 86/30 x (20.50 x 7.00 x 20.50) x 20 = Total CBM for 20 Days

1. Next, calculate the total pallets needed for each scenario:

Total Pallets for 1 Month = Total Volume for 1 Month / CBM/Volume of a Pallet

Total Pallets for 20 Days = Total Volume for 20 Days / CBM/Volume of a Pallet

1. Since you have to pay for a full pallet even if there is less than a full pallet of stock, round up the number of pallets needed.
2. Finally, calculate the total cost for each scenario:

Total Cost for 1 Month = Total Pallets for 1 Month x Cost Per Pallet

Total Cost for 20 Days = Total Pallets for 20 Days x Cost Per Pallet + Total Volume for 20 Days x Fee per CBM for being Understocked

1. Compare the total costs for both scenarios to determine which option is more viable for SKU MH-11. The option with lesser cost would be the most viable one.

**Q2.**

Please find the Power BI dashboard from my github link provided below:

https://github.com/hitesh1414/MHLondon-Assignment/blob/main/MHLondon%20Ass%20Q2.pbix