Interview Questions

Thanks for Interviewing with Logitech. Please submit your homework to [Kyu3@logitech.com](mailto:Kyu3@logitech.com). Share your code through all the steps along with your outputs. Visualize results wherever applicable.

**Please reach out to kyu3@logitech via email if you have any questions**

***Part 1:***

You have a supply chain dataset called ***sc\_data*** comprising of 24k+ rows. This dataset needs to be prepared for further transformation.

* Any observations about the data set? Based on your observations, how would you fix it?
* If you had to detect anomalies in this dataset. How would you do it?

***Part 2:***

You have some product line, store sales data and store address data sets called ***PL\_SKU / ST\_SL\_SKU / ST\_ADD,*** *respectively*.   
  
Please answer all questions below from a technical aspect as well as how you would communicate the results to upper management.

* How would you join the two data structures (sales data and product line data) to setup the analysis?
* What is the year over year growth by month of the product lines?
* What methods/charts would you use to visualize the sales?
* What inferences can be made from the data?
* How would you tier store level performance using a function?
* Logitech has two warehouses with the following address:  
  8640 Nail Rd, Olive Branch, MS 38654  
  9801 Dallas St, Henderson, CO 80640  
    
  How would solve the following problems:  
  1. Which warehouse should each store get their inventory from?  
  2. Write a function to solve #1