Excel files read into

Pandas DataFrame

info\_df

cost\_df

zone\_df

Info\_df and zone\_df are merged based on

Supplier Location, and Customer Location

Fields.

Note : Remove duplicates from zone\_df

Merge the merged\_df with cost\_df

Based on shipment\_zone, payment\_option,

And shipment\_size

Find Current Cost by multiplying product quantity and cost of the respected vendor

Find Cost for all vendors, and store in separate columns

Q1. Groupby Current Vendor, and sum the product quantity. Find the percentage

Q2. Groupby Current Vendor, and sum the current cost column created. Find the percentage

Q3. Find the Minimum from the new cost created for all vendors,

Q4. Sum the current costs, and minimum costs and find the difference

BQ1. Groupby shipment\_zone and count

BQ2. Groupby shipment\_zone, and shipment\_size, and then sum, and find respective percentages

BQ3. Groupby Current Vendor and find the minimum on the current cost

BQ4. Find the new vendors who provide minimum cost. Groupby new vendor, find percentage

Based on minimum cost