Q1

Group by two columns ‘current\_logistics\_vendor’ and sum of ‘product\_quantity’

Imported pandas and numpy library and loaded the file\_01

Group by three columns ‘shipment\_zone’, ‘payment\_option ‘shipment\_size’ and sum of ‘product\_quantity

Q2

3. Calcualte the cost of product\_quanity for each shipment\_size and payment\_option

2. Segregate the supply network dataset based of vendors then zones then payment\_option and then shipment\_size

1. Load the file\_01 and file\_04 and merged both dataset and save the file as ‘supply\_network’

5. Repeat the 3 and 4 step for vendor-2, 3 and 4 and calculate the cost for all zones – A, B and zone- C

4. Calculate the cost of vendor-1 in zone-A and then zone-B and zone-C

Q3.

3. Repeat the step 1 and 2 for zone-B with same vendor and calculate the total cost in both zones

2. Calcualte the cost of vendor-3 in zone-A for each payment\_option and then total cost in zone-A

Filtered the shipment\_wise data into payment\_option and then shipment\_size for vendor-3 in zone-A

Result: calculated the total least cost with sum of total cost calculated in step - 2 and 3

Q4.

Subtract the least cost from actual cost