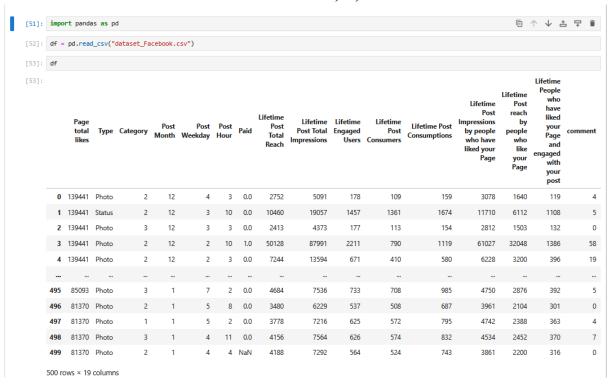
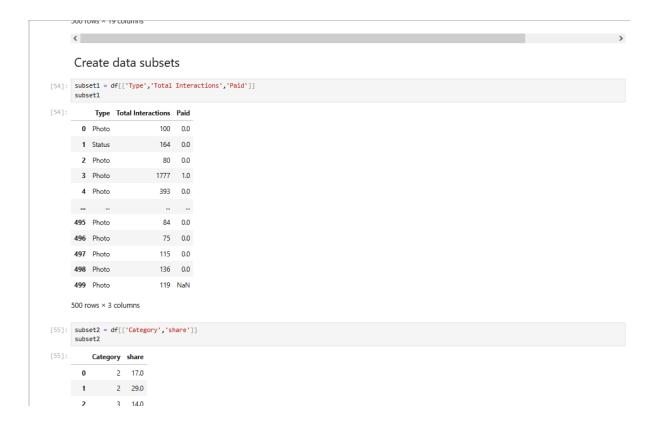
GROUP B) 1)





```
3 26.0
    496 2 22.0
    497 1 18.0
    498 3 38.0
          2 28.0
    499
   500 rows × 2 columns
[56]: subset3 = df[['Category','share']]
    subset3
[56]: Category share
      0 2 17.0
    1 2 29.0
      2 3 14.0
    3 2 147.0
    4 2 49.0
... ... ...

    495
    3
    26.0

    496
    2
    22.0

     497 1 18.0
     498 3 38.0
    499 2 28.0
    500 rows × 2 columns
[57]: subset4 = df[['Category','Type']]
     subset4
```

57]:		Category	Туре
	0	2	Photo
	1	2	Status
	2	3	Photo
	3	2	Photo
	4	2	Photo
	495	3	Photo
	496	2	Photo
	497	1	Photo
	498	3	Photo
	499	2	Photo

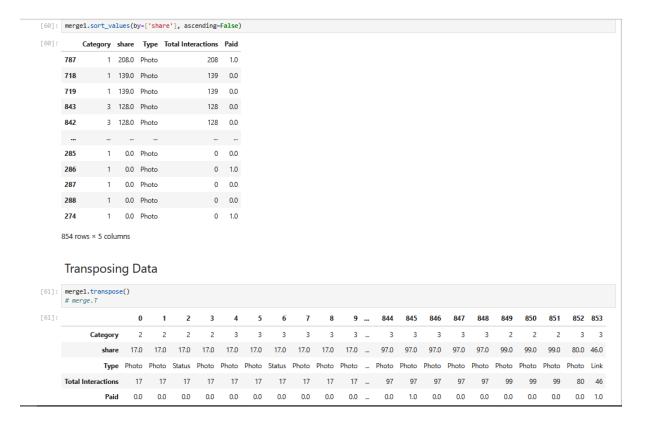
Merge Data

500 rows × 2 columns

[58]: merge1 = pd.merge(subset2, subset1, left_on='share', right_on='Total Interactions')
merge1

[58]:		Category	share	Туре	Total Interactions	Paid
	0	2	17.0	Photo	17	0.0
	1	2	17.0	Photo	17	0.0
	2	2	17.0	Status	17	0.0
	3	2	17.0	Photo	17	0.0
	4	3	17.0	Photo	17	0.0

```
2 99.0 Photo
    849
                                 99 0.0
    850 2 99.0 Photo
                              99 0.0
    851
            2 99.0 Photo
                                 99 0.0
         3 80.0 Photo
                            80 0.0
    852
    853
            3 46.0 Link
                                46 1.0
    854 rows × 5 columns
[59]: merge2 = pd.merge(subset4, subset3, on='Category')
[59]: Category Type share
       0
              2 Photo 17.0
    1 2 Photo 29.0
              2 Photo 147.0
      3
             2 Photo 49.0
              2 Photo 33.0
       4
    87145
            1 Photo 5.0
    87146 1 Photo 2.0
    87147
              1 Photo 2.0
    87148 1 Photo 9.0
    87149
             1 Photo 18.0
    87150 rows × 3 columns
    Sort Data
```



```
Shape and reshape Data
[62]: reshape = df.stack()
print(reshape)
       0 Page total likes
           Type
Category
Post Month
Post Weekday
                                                                                 Photo
                                                                                  316
       499 Lifetime People who have liked your Page and engaged with your post
                                                                                  91.0
28.0
119
           comment
like
      share
Total Interactions
Length: 9494, dtype: object
[63]: pd.melt(df, id_vars=['Type'], value_vars=['Post Month'])
[63]: Type variable value
     1 Status Post Month 12
        2 Photo Post Month 12
      3 Photo Post Month 12
        4 Photo Post Month 12
      495 Photo Post Month 1
      496 Photo Post Month 1
      497 Photo Post Month 1
      498 Photo Post Month 1
      499 Photo Post Month 1
     500 rows × 3 columns
```