

```
import numpy as np
import pandas as pd

pd.read_csv('dataset_Facebook.csv', delimiter = ';')
```



	Page total likes	Type	Category	Post Month	Post Weekday	Post Hour	Paid	Lifetime Post Total Reach	Lifetime Post Total Impressions	Lifetime Engage User	
0	139441	Photo		2	12	4	3	0.0	2752	5091	17
1	139441	Status		2	12	3	10	0.0	10460	19057	145
2	139441	Photo		3	12	3	3	0.0	2413	4373	17
3	139441	Photo		2	12	2	10	1.0	50128	87991	22
4	139441	Photo		2	12	2	3	0.0	7244	13594	67
...	
495	85093	Photo		3	1	7	2	0.0	4684	7536	73
496	81370	Photo		2	1	5	8	0.0	3480	6229	53
497	81370	Photo		1	1	5	2	0.0	3778	7216	62
498	81370	Photo		3	1	4	11	0.0	4156	7564	62
499	81370	Photo		2	1	4	4	NaN	4188	7292	56

500 rows × 19 columns

Double-click (or enter) to edit

```
selective_ds = pd.read_csv('dataset_Facebook.csv', delimiter=';')

subset1 = selective_ds[["like", "comment"]]

subset1
```



	like	comment
0	79.0	4
1	130.0	5
2	66.0	0
3	1572.0	58
4	325.0	19
...
495	53.0	5
496	53.0	0
497	93.0	4
498	91.0	7
499	91.0	0

500 rows × 2 columns

```
subset2 = selective_ds[["share", "Total Interactions"]]
subset2
```



	share	Total Interactions
0	17.0	100
1	29.0	164
2	14.0	80
3	147.0	1777
4	49.0	393
...
495	26.0	84
496	22.0	75
497	18.0	115
498	38.0	136
499	28.0	119

500 rows × 2 columns

```
result = pd.merge(subset1, subset2, left_index=True, right_index=True)
result.head()
```



	like	comment	share	Total Interactions
0	79.0	4	17.0	100
1	130.0	5	29.0	164
2	66.0	0	14.0	80
3	1572.0	58	147.0	1777
4	325.0	19	49.0	393

```
result.tail()
```



	like	comment	share	Total Interactions
495	53.0	5	26.0	84
496	53.0	0	22.0	75
497	93.0	4	18.0	115
498	91.0	7	38.0	136
499	91.0	0	28.0	119

Double-click (or enter) to edit

```
sorted_data=selective_ds.sort_values("Page total likes",ascending = True)
sorted_data
```



	Page total likes	Type	Category	Post Month	Post Weekday	Post Hour	Paid	Lifetime Post Total Reach	Lifetime Post Total Impressions	Lifetim Engage User
499	81370	Photo	2	1	4	4	NaN	4188	7292	56
496	81370	Photo	2	1	5	8	0.0	3480	6229	53
498	81370	Photo	3	1	4	11	0.0	4156	7564	62
497	81370	Photo	1	1	5	2	0.0	3778	7216	62
493	85093	Photo	3	1	1	2	0.0	8412	13960	117
...
11	139441	Photo	2	12	5	10	0.0	3112	5590	20
0	139441	Photo	2	12	4	3	0.0	2752	5091	17
4	139441	Photo	2	12	2	3	0.0	7244	13594	67
13	139441	Photo	2	12	5	3	0.0	2549	4896	24
7	139441	Photo	3	12	7	9	1.0	13720	24137	53

500 rows × 19 columns

```
sorted_data=selective_ds.sort_values("Page total likes",ascending = False)
sorted_data
```



	Page total likes	Type	Category	Post Month	Post Weekday	Post Hour	Paid	Lifetime Post Total Reach	Lifetime Post Total Impressions	Lifetime Engage User	
6	139441	Photo		3	12	1	3	1.0	11692	19479	48
4	139441	Photo		2	12	2	3	0.0	7244	13594	67
10	139441	Status		2	12	5	10	0.0	21744	42334	425
5	139441	Status		2	12	1	9	0.0	10472	20849	119
13	139441	Photo		2	12	5	3	0.0	2549	4896	24
...	
494	85093	Photo		3	1	7	10	0.0	5400	9218	81
496	81370	Photo		2	1	5	8	0.0	3480	6229	53
498	81370	Photo		3	1	4	11	0.0	4156	7564	62
499	81370	Photo		2	1	4	4	NaN	4188	7292	56
497	81370	Photo		1	1	5	2	0.0	3778	7216	62

500 rows × 19 columns


```
transpose=selective_ds.transpose()  
transpose
```



	21	417	100	76	441	122	422	428	120	
Page total likes	138414	104070	137020	137893	98195	136393	102112	100732	136393	10
Type	Photo	Photo	Photo	Photo	Photo	Photo	Photo	Photo	Photo	f
Category	1	1	1	1	1	1	1	1	1	
Post Month	12	3	10	11	3	10	3	3	10	
Post Weekday	7	3	4	3	5	7	1	7	7	
Post Hour	10	10	9	2	4	8	19	15	9	
Paid	0	0	1	0	1	0	0	0	0	
Lifetime Post Total Reach	1384	1874	1357	1228	1845	619	238	5132	584	
Lifetime Post Total Impressions	2467	2474	2453	2392	2670	1096	570	9067	1029	
Lifetime Engaged Users	15	25	37	17	9	257	143	398	273	
Lifetime Post Consumers	15	25	37	17	9	254	142	398	271	
Lifetime Post Consumptions	20	31	55	19	9	292	834	1690	308	
Lifetime Post Impressions by people who have liked your Page	2196	1483	2154	2392	1614	951	567	9065	943	
Lifetime Post reach by people who like your Page	1172	1062	1120	1228	1008	516	236	5132	511	
Lifetime People who have liked your Page and engaged with your post	15	15	32	17	9	217	99	393	232	
comment	0	0	0	0	0	1	0	0	0	
like	0	0	0	0	0	1	2	2	2	
share	0	0	0	0	0	2	0	0	NaN	
Total Interactions	0	0	0	0	0	4	2	2	2	

19 rows × 500 columns


```
selective_ds.shape
```

 (500, 19)

```
print("Rows = ",selective_ds.shape[0], "Columns = ",selective_ds.shape[1])
```

 Rows = 500 Columns = 19

```
selective_ds.melt(id_vars =['Page total likes'], value_vars =['like'])
```



	Page total likes	variable	value
0	138414	like	0.0
1	104070	like	0.0
2	137020	like	0.0
3	137893	like	0.0
4	98195	like	0.0
...
495	135428	like	1622.0
496	117764	like	1639.0
497	111620	like	1998.0
498	130791	like	5172.0
499	136736	like	NaN

500 rows × 3 columns

```
# Casting
```

