

```
import pandas as pd
import numpy as np

df = pd.read_csv(r"/dataset_Facebook.csv",sep=";")

df.head()
```



	Page total likes	Type	Category	Post Month	Post Weekday	Post Hour	Paid	Lifetime Post Total Reach	Lifetime Post Total Impressions	Lifetime Engaged Users	Lifetime Post Consumers	Lifetime Post Consumptions	Lifetime Post Impressions by people who have liked your Page	Lifetime Post reach people who li ke yo ur Pa	
0	139441	Photo		2	12	4	3	0.0	2752	5091	178	109	159	3078	16
1	139441	Status		2	12	3	10	0.0	10460	19057	1457	1361	1674	11710	61
2	139441	Photo		3	12	3	3	0.0	2413	4373	177	113	154	2812	15
3	139441	Photo		2	12	2	10	1.0	50128	87991	2211	790	1119	61027	320
4	139441	Photo		2	12	2	3	0.0	7244	13594	671	410	580	6228	32
5															

```
df1 = df[['Page total likes','Category','Post Month','Post Weekday']].loc[0:15]
```

df1

	Page total likes	Category	Post Month	Post Weekday
0	139441	2	12	4
1	139441	2	12	3
2	139441	3	12	3
3	139441	2	12	2
4	139441	2	12	2
5	139441	2	12	1
6	139441	3	12	1
7	139441	3	12	7
8	139441	2	12	7
9	139441	3	12	6
10	139441	2	12	5
11	139441	2	12	5
12	139441	2	12	5
13	139441	2	12	5
14	138414	2	12	4
15	138414	2	12	3

```
df2 = df[['Page total likes','Category','Post Month','Post Weekday']].loc[16:30]
df2
```

	Page total likes	Category	Post Month	Post Weekday
16	138414	3	12	3
17	138414	1	12	2
18	138414	3	12	2
19	138414	3	12	1
20	138414	2	12	1
21	138414	1	12	7
22	138414	1	12	7
23	138414	3	12	7
24	138414	2	12	6
25	138458	2	12	6
26	138458	2	12	5
27	138458	3	12	5
28	138895	2	12	5
29	138895	1	12	4
30	138895	2	12	4

```
df3 = df[['Page total likes', 'Category', 'Post Month', 'Post Weekday']].loc[31:40]
```

df3

	Page total likes	Category	Post Month	Post Weekday
31	138895	2	12	3
32	138895	3	12	3
33	138895	3	12	2
34	138895	1	12	2
35	138895	2	12	1
36	138895	3	12	1
37	138895	1	12	7
38	138895	2	12	7
39	138895	1	12	7
40	138895	2	12	6

```
merging = pd.concat([df1,df2,df3])
merging
```



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	Page total likes	Category	Post Month	Post Weekday
0	139441	2	12	4
1	139441	2	12	3
2	139441	3	12	3
3	139441	2	12	2
4	139441	2	12	2
5	139441	2	12	1
6	139441	3	12	1
7	139441	3	12	7
8	139441	2	12	7
9	139441	3	12	6
10	139441	2	12	5
11	139441	2	12	5
12	139441	2	12	5
13	139441	2	12	5
14	138414	2	12	4
15	138414	2	12	3
16	138414	3	12	3
17	138414	1	12	2
18	138414	3	12	2
19	138414	3	12	1
20	138414	2	12	1
21	138414	1	12	7
22	138414	1	12	7
23	138414	3	12	7
24	138414	2	12	6
25	138458	2	12	6
26	138458	2	12	5
27	138458	3	12	5
28	138895	2	12	5
29	138895	1	12	4
30	138895	2	12	4

```
sort_values = df.sort_values('Page total likes', ascending=False)
sort_values
```



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	Page total	Type	Category	Post Month	Post Weekday	Post Hour	Paid	Lifetime Post Total	Lifetime Post Total	Lifetime Engaged	Lifetime Post		Lifetime Post	Impressions by people	Lifetime Post	Lifetime Post	Lifetime Post	
df.transpose()																		
	0	1	2	3	4	5	6	7	8	9	...	490	491	492	493	494		
Page total likes	139441	139441	139441	139441	139441	139441	139441	139441	139441	139441	139441	...	85979	85979	85979	85093	85093	
Type	Photo	Status	Photo	Photo	Photo	Status	Photo	Photo	Status	Photo	...	Photo	Photo	Link	Photo	Photo	Photo	
Category	2	2	3	2	2	2	3	3	2	3	...	3	3	1	3	3	3	
Post Month	12	12	12	12	12	12	12	12	12	12	...	1	1	1	1	1	1	
Post Weekday	4	3	3	2	2	1	1	7	7	6	...	6	6	5	1	7	7	
Post Hour	3	10	3	10	3	9	3	9	3	10	...	11	3	11	2	10	10	
Paid	0.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	0.0	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0	
Lifetime Post Total Reach	2752	10460	2413	50128	7244	10472	11692	13720	11844	4694	...	5280	6184	45920	8412	5400	5400	
Lifetime Post Total Impressions	5091	19057	4373	87991	13594	20849	19479	24137	22538	8668	...	8703	10228	5808	13960	9218	9218	
Lifetime Engaged Users	178	1457	177	2211	671	1191	481	537	1530	280	...	951	956	753	1179	810	810	
Lifetime Post Consumers	109	1361	113	790	410	1073	265	232	1407	183	...	911	901	655	1111	756	756	
Lifetime Post Consumptions	159	1674	154	1119	580	1389	364	305	1692	250	...	1237	1140	763	1632	1003	1003	
Lifetime Post Impressions by people who have liked your Page	3078	11710	2812	61027	6228	16034	15432	19728	15220	4309	...	5757	6085	15766	8632	5654	5654	
Lifetime Post reach by people who like your Page	1640	6112	1503	32048	3200	7852	9328	11056	7912	2324	...	3300	3502	10720	5348	3230	3230	
Lifetime People who have liked your Page and engaged with your post	119	1108	132	1386	396	1016	379	422	1250	199	...	431	437	220	699	422	422	
comment	4	5	0	58	19	1	3	0	0	3	...	1	1	0	17	10	10	
like	79.0	130.0	66.0	1572.0	325.0	152.0	249.0	325.0	161.0	113.0	...	79.0	105.0	128.0	185.0	125.0	125.0	

```
shaping = df.shape
shaping

(500, 19)

pivot_table = pd.pivot_table(df,index=['Type','Category'],values='like')
print(pivot_table)
```

	like
Type	Category



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