

```
In [42]: import pandas as pd
df=pd.read_csv('facebookdataset.csv')
print(df.head())
```

	userid	age	dob_day	dob_year	dob_month	gender	tenure	friend_count
0	2094382	14	19	1999	11	male	266.0	0
1	1192601	14	2	1999	11	female	6.0	0
2	2083884	14	16	1999	11	male	13.0	0
3	1203168	14	25	1999	12	female	93.0	0
4	1733186	14	4	1999	12	male	82.0	0

  

	friendships_initiated	likes	likes_received	mobile_likes
0	0	0	0	0
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0

  

	mobile_likes_received	www_likes	www_likes_received
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0

```
In [40]: print(df.tail())
```

	userid	age	dob_day	dob_year	dob_month	gender	tenure
98998	1268299	68	4	1945	4	female	541.0
98999	1256153	18	12	1995	3	female	21.0
99000	1195943	15	10	1998	5	female	111.0
99001	1468023	23	11	1990	4	female	416.0
99002	1397896	39	15	1974	5	female	397.0

  

	friend_count	friendships_initiated	likes	likes_received
98998	2118	341	3996	18089
98999	1968	1720	4401	13412
99000	2002	1524	11959	12554
99001	2560	185	4506	6516
99002	2049	768	9410	12443

  

	mobile_likes	mobile_likes_received	www_likes	www_likes_received
98998	3505	11887	491	6202
98999	4399	10592	2	2820
99000	11959	11462	0	1092
99001	4506	5760	0	756
99002	9410	9530	0	2913

```
In [5]: #subset1
subset1=df[['age','tenure','www_likes']]
subset1.head()
```

```
Out[5]:
```

	age	tenure	www_likes
0	14	266.0	0
1	14	6.0	0
2	14	13.0	0
3	14	93.0	0
4	14	82.0	0

```
In [8]: #subset2
subset2=df[['gender','tenure','dob_year']]
subset2.head()
```

```
Out[8]:
```

	gender	tenure	dob_year
0	male	266.0	1999
1	female	6.0	1999
2	male	13.0	1999
3	female	93.0	1999
4	male	82.0	1999

```
In [9]: #merge
subset3=pd.merge(subset1,subset2)
subset3.head()
```

```
Out[9]:
```

	age	tenure	www_likes	gender	dob_year
0	14	266.0	0	male	1999
1	14	266.0	0	male	1999
2	14	266.0	0	male	1988
3	14	266.0	0	female	1987
4	14	266.0	0	male	1983

```
In [13]: #sort
subset3.sort_values("gender",axis=0,ascending=True,inplace=True)
subset3
```

```
Out[13]:
```

	age	tenure	www_likes	gender	dob_year
79808	13	12.0	0	female	1958
796703	27	221.0	0	female	1946
8769962	27	752.0	0	female	1949
8769965	27	752.0	0	female	1986
8769959	27	752.0	0	female	1984
...	...	...	...	...	...
9148626	113	2278.0	18	NaN	1905
9151738	113	2131.0	197	NaN	1905
9151434	113	2323.0	233	NaN	1958
9105299	113	1534.0	9	NaN	1988
9076198	113	1586.0	105	NaN	1905

9152903 rows × 5 columns

```
In [41]: #transpose
result = subset3.transpose()
print(result)
```

	79808	796703	8769962	8769965	8769959	8769930	8769924	1934000	\
age	13	27	27	27	27	27	27	27	
tenure	12.0	221.0	752.0	752.0	752.0	752.0	752.0	96.0	
www_likes	0	0	0	0	0	0	0	105	
gender	female	female	female	female	female	female	female	female	
dob_year	1958	1946	1949	1986	1984	1950	1952	1987	
	1933953	1933956	...	8932487	9122875	9127707	9150018	9148625	\
age	27	27	...	113	113	113	113	113	
tenure	96.0	96.0	...	1366.0	1622.0	2319.0	2238.0	2278.0	
www_likes	105	105	...	90	0	0	68	18	
gender	female	female	...	NaN	NaN	NaN	NaN	NaN	
dob_year	1948	1963	...	1900	1947	1922	1905	1900	
	9148626	9151738	9151434	9105299	9076198				
age	113	113	113	113	113				
tenure	2278.0	2131.0	2323.0	1534.0	1586.0				
www_likes	18	197	233	9	105				
gender	NaN	NaN	NaN	NaN	NaN				
dob_year	1905	1905	1958	1988	1905				

[5 rows x 9152903 columns]

```
In [23]: import numpy as np
a=np.random.rand(3,2,5)
```

```
In [21]: df.size
```

```
Out[21]: 1485045
```

```
In [24]: #shape
df.shape
```

```
Out[24]: (99003, 15)
```

```
In [37]: #reshape
reshape=df.iloc[:500,:10]
reshape
```

```
Out[37]:
```

	userid	age	dob_day	dob_year	dob_month	gender	tenure	friend_count	friendships_in
0	2094382	14	19	1999	11	male	266.0	0	
1	1192601	14	2	1999	11	female	6.0	0	
2	2083884	14	16	1999	11	male	13.0	0	
3	1203168	14	25	1999	12	female	93.0	0	
4	1733186	14	4	1999	12	male	82.0	0	
...	...	...	...	...	...	...	...	...	...
495	2135177	23	17	1990	4	male	791.0	0	
496	1883780	23	3	1990	4	female	635.0	0	
497	1549449	23	4	1990	4	female	557.0	0	
498	2181007	23	5	1990	4	female	383.0	0	
499	1634894	23	5	1990	4	male	5.0	0	

500 rows × 10 columns



```
In [39]: #reshape
reshape.shape
```

```
Out[39]: (500, 10)
```

```
In [ ]:
```