

```
In [1]: -import pandas as pd

In [2]: reaction_df=pd.read_csv("C:\Users\pandeysumny2315\Downloads\Reactions.csv")
reactiontype_df=pd.read_csv("C:\Users\pandeysumny2315\Downloads\ReactionTypes.csv")
content_df=pd.read_csv("C:\Users\pandeysumny2315\Downloads\Content.csv")

In [4]: reaction_df.head()
```

	Unnamed: 0	Content ID	User ID	Type	Datetime
0	0	97522e57-d9ab-4bd6-97bf-c24d952602d2	NaN	NaN	2021-04-22 15:17:15
1	1	97522e57-d9ab-4bd6-97bf-c24d952602d2	5d454588-283d-459d-915d-c48a2cb4c27f	disgust	2020-11-07 09:43:50
2	2	97522e57-d9ab-4bd6-97bf-c24d952602d2	92b87fa5-4271-43e0-af66-84fac21052e6	dislike	2021-06-17 12:22:51
3	3	97522e57-d9ab-4bd6-97bf-c24d952602d2	163daa38-8b77-48c9-9af6-37a6c1447ac2	scared	2021-04-18 05:13:58
4	4	97522e57-d9ab-4bd6-97bf-c24d952602d2	34e8add9-0206-47fd-a501-037b994650a2	disgust	2021-01-06 19:13:01

```
In [5]: reactiontype_df.head()
```

	Unnamed: 0	Type	Sentiment	Score
0	0	heart	positive	60
1	1	want	positive	70
2	2	disgust	negative	0
3	3	hate	negative	5
4	4	interested	positive	30

```
In [6]: content_df.head()
```

	Unnamed: 0	Content ID	User ID	Type	Category	URL
0	0	97522e57-d9ab-4bd6-97bf-c24d952602d2	8d3cd87d-8a31-4935-9a4f-b319efe05f31	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
1	1	9737e0a-3cdd-4d29-9d24-7534e3be810	beb1f34e-7870-46d6-96c7-2e12eb83ce43	photo	Studying	https://socialbuzz.cdn.com/content/storage/97...
2	2	230c4e4d-70c3-461d-b42c-ec09396efb3f	a5c65404-5894-4d87-82f2-d787cbee86b4	photo	healthy eating	https://socialbuzz.cdn.com/content/storage/230...
3	3	356ff80-da4d-4785-943b-c1261031d6b	9fb4ce88-fac1-406c-8544-1a899ce07aaf	photo	technology	https://socialbuzz.cdn.com/content/storage/356...
4	4	01ab84dd-6364-4236-abb3-3f237db77180	e206e31b-5f85-4964-b6ea-d7ee5324def1	video	food	https://socialbuzz.cdn.com/content/storage/01a...

```
In [7]: reaction_df.isnull().sum()
```

	Unnamed: 0	Content ID	User ID	Type	Datetime
0	0	0	0	0	0
1	1	0	0	0	0
2	2	0	0	0	0
3	3	0	0	0	0
4	4	0	0	0	0

```
In [9]: reactiontype_df.isnull().sum()
```

	Unnamed: 0	Type	Sentiment	Score
0	0	0	0	0
1	1	0	0	0
2	2	0	0	0
3	3	0	0	0
4	4	0	0	0

```
In [10]: content_df.isnull().sum()
```

	Unnamed: 0	Content ID	User ID	Type	Category	URL
0	0	0	0	0	0	0
1	1	0	0	0	0	0
2	2	0	0	0	0	0
3	3	0	0	0	0	0
4	4	0	0	0	0	0

```
In [13]: [[reaction_df.shape],[reactiontype_df.shape],[content_df.shape]]
```

```
Out[13]: [[(25553, 5)], [(16, 4)], [(1000, 6)]]
```

```
In [19]: reactions_df = reaction_df.dropna()
```

reaction_df having null values

```
In [26]: reaction_df.shape
```

```
Out[26]: (25553, 5)
```

reactions_df dont have any null values

```
In [27]: reactions_df.shape
```

```
Out[27]: (22534, 5)
```

```
In [34]: contents_df = content_df.dropna()
```

content_df having some null values

```
In [35]: content_df.shape
```

```
Out[35]: (1808, 6)
```

```
In [36]: contents_df.shape
```

```
Out[36]: (801, 6)
```

```
In [40]: reactions_df1= reactions_df.drop(columns= ["User ID"])
```

contents_df don't have any null values

```
In [41]: reactions_df1.head()
```

	Unnamed: 0	Content ID	Type	Datetime
1	1	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2020-11-07 09:43:50
2	2	97522e57-d9ab-4bd6-97bf-c24d952602d2	dislike	2021-06-17 12:22:51
3	3	97522e57-d9ab-4bd6-97bf-c24d952602d2	scared	2021-04-18 05:13:58
4	4	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2021-01-06 19:13:01
5	5	97522e57-d9ab-4bd6-97bf-c24d952602d2	interested	2020-08-23 12:25:58

```
In [135]: #reactions_df2=reactions_df1.drop(columns = ["Unnamed: 0"])
reactions_df2
```

```
NameError                                Traceback (most recent call last)
Cell In[135], line 2
      1 #reactions_df2=reactions_df1.drop(columns = ["Unnamed: 0"])
----> 2 #reactions_df2
```

```
NameError: name 'reactions_df2' is not defined
```

```
In [134]: reactions_df2.head()
```

```
NameError                                Traceback (most recent call last)
Cell In[134], line 1
----> 1 #reactions_df2 head()
```

```
NameError: name 'reactions_df2' is not defined
```

```
In [119]: #contents_df2 = contents_df.drop(columns=["Unnamed: 0"])
contents_df1
```

	Content ID	Type	Category	URL
0	97522e57-d9ab-4bd6-97bf-c24d952602d2	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
1	9737e0a-3cdd-4d29-9d24-7534e3be810	photo	healthy eating	https://socialbuzz.cdn.com/content/storage/97f...
2	230c4e4d-70c3-461d-b42c-ec09396efb3f	photo	healthy eating	https://socialbuzz.cdn.com/content/storage/230...
3	356ff80-da4d-4785-943b-c1261031d6b	photo	technology	https://socialbuzz.cdn.com/content/storage/356...
4	01ab84dd-6364-4236-abb3-3f237db77180	video	food	https://socialbuzz.cdn.com/content/storage/01a...
...
994	c54b49c4-b1f2-4641-8595-1cbd19937845	photo	science	https://socialbuzz.cdn.com/content/storage/c54...
996	7a794f64-3b7d-44dc-bdef-bc990740252c	GIF	technology	https://socialbuzz.cdn.com/content/storage/7a7...
997	435007a5-6261-4d8b-b0a4-55f6c189754b	audio	veganism	https://socialbuzz.cdn.com/content/storage/435...
998	4e4c9690-c013-4ee7-9e66-943d8cb27b77	GIF	culture	https://socialbuzz.cdn.com/content/storage/4e4...
999	75d6b589-7fae-4a6d-b0d0-752845150e56	audio	technology	https://socialbuzz.cdn.com/content/storage/75d...

801 rows × 4 columns

User Id is already dropped thats why it shows error

```
In [115]: contents_df1 = contents_df.drop(columns=["User ID"])
```

```
AttributeError                                Traceback (most recent call last)
Cell In[115], line 1
----> 1 contents_df1 = contents_df.drop(columns=["User ID"])
```

```
AttributeError: 'function' object has no attribute 'drop'
```

```
In [65]: contents_df1.head()
```

	Unnamed: 0	Content ID	Type	Category	URL
0	0	97522e57-d9ab-4bd6-97bf-c24d952602d2	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
1	1	9737e0a-3cdd-4d29-9d24-7534e3be810	photo	healthy eating	https://socialbuzz.cdn.com/content/storage/97f...
2	2	230c4e4d-70c3-461d-b42c-ec09396efb3f	photo	healthy eating	https://socialbuzz.cdn.com/content/storage/230...
3	3	356ff80-da4d-4785-943b-c1261031d6b	photo	technology	https://socialbuzz.cdn.com/content/storage/356...
4	4	01ab84dd-6364-4236-abb3-3f237db77180	video	food	https://socialbuzz.cdn.com/content/storage/01a...

merging values by removing quote in contents_df1

```
In [84]: contents_df1=contents_df1["Category"].unique
```

```
In [67]: contents_df1["Category"].value_counts()
```

Category	
travel	60
science	55
fitness	54
animals	54
culture	54
technology	54
tennis	53
cooking	51
healthy eating	50
dogs	49
education	48
soccer	47
food	47
veganism	43
studying	41
public speaking	40
Studying	1
Name: count, dtype: int64	

```
In [121]: contents_df1
```

	Content ID	Type	Category	URL
0	97522e57-d9ab-4bd6-97bf-c24d952602d2	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
1	9737e0a-3cdd-4d29-9d24-7534e3be810	photo	healthy eating	https://socialbuzz.cdn.com/content/storage/97f...
2	230c4e4d-70c3-461d-b42c-ec09396efb3f	photo	healthy eating	https://socialbuzz.cdn.com/content/storage/230...
3	356ff80-da4d-4785-943b-c1261031d6b	photo	technology	https://socialbuzz.cdn.com/content/storage/356...
4	01ab84dd-6364-4236-abb3-3f237db77180	video	food	https://socialbuzz.cdn.com/content/storage/01a...
...
994	c54b49c4-b1f2-4641-8595-1cbd19937845	photo	science	https://socialbuzz.cdn.com/content/storage/c54...
996	7a794f64-3b7d-44dc-bdef-bc990740252c	GIF	technology	https://socialbuzz.cdn.com/content/storage/7a7...
997	435007a5-6261-4d8b-b0a4-55f6c189754b	audio	veganism	https://socialbuzz.cdn.com/content/storage/435...
998	4e4c9690-c013-4ee7-9e66-943d8cb27b77	GIF	culture	https://socialbuzz.cdn.com/content/storage/4e4...
999	75d6b589-7fae-4a6d-b0d0-752845150e56	audio	technology	https://socialbuzz.cdn.com/content/storage/75d...

801 rows × 4 columns

```
In [138]: reaction_content_merging = pd.merge(reactions_df1, contents_df1, on=["Content ID"], how="inner")
```

```
In [139]: reaction_content_merging.head()
```

	Content ID	User ID	Type_x	Datetime	Type_y	Category	URL
0	97522e57-d9ab-4bd6-97bf-c24d952602d2	5d454588-283d-459d-915d-c48a2cb4c27f	disgust	2020-11-07 09:43:50	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
1	97522e57-d9ab-4bd6-97bf-c24d952602d2	92b87fa5-4271-43e0-af66-84fac21052e6	dislike	2021-06-17 12:22:51	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
2	97522e57-d9ab-4bd6-97bf-c24d952602d2	163daa38-8b77-48c9-9af6-37a6c1447ac2	scared	2021-04-18 05:13:58	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
3	97522e57-d9ab-4bd6-97bf-c24d952602d2	34e8add9-0206-47fd-a501-037b994650a2	disgust	2021-01-06 19:13:01	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
4	97522e57-d9ab-4bd6-97bf-c24d952602d2	96d3359-5e15-4cd0-a8d7-b1f3340e02c4	interested	2020-08-23 12:25:58	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...

```
In [140]: reaction_content_merging=reaction_content_merging.drop(columns=["User ID"])
```

```
In [141]: reaction_content_merging
```

	Content ID	Type_x	Datetime	Type_y	Category	URL
0	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2020-11-07 09:43:50	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
1	97522e57-d9ab-4bd6-97bf-c24d952602d2	dislike	2021-06-17 12:22:51	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
2	97522e57-d9ab-4bd6-97bf-c24d952602d2	scared	2021-04-18 05:13:58	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
3	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2021-01-06 19:13:01	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
4	97522e57-d9ab-4bd6-97bf-c24d952602d2	interested	2020-08-23 12:25:58	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...
...
18379	75d6b589-7fae-4a6d-b0d0-752845150e56	worried	2020-10-31 04:50:14	audio	technology	https://socialbuzz.cdn.com/content/storage/75d...
18380	75d6b589-7fae-4a6d-b0d0-752845150e56	dislike	2020-06-27 09:46:48	audio	technology	https://socialbuzz.cdn.com/content/storage/75d...
18381	75d6b589-7fae-4a6d-b0d0-752845150e56	intrigued	2021-02-16 17:17:02	audio	technology	https://socialbuzz.cdn.com/content/storage/75d...
18382	75d6b589-7fae-4a6d-b0d0-752845150e56	worried	2020-11-04 20:08:31	audio	technology	https://socialbuzz.cdn.com/content/storage/75d...
18383	75d6b589-7fae-4a6d-b0d0-752845150e56	cherish	2021-01-04 04:55:11	audio	technology	https://socialbuzz.cdn.com/content/storage/75d...

18384 rows × 6 columns

```
In [142]: reactiontype_df = reactiontype_df.drop(columns=["Unnamed: 0"])
```

```
In [143]: reactiontype_df
```

	Type	Sentiment	Score
0	heart	positive	60
1	want	positive	70
2	disgust	negative	0
3	hate	negative	5
4	interested	positive	30
5	indifferent	neutral	20
6	love	positive	65
7	super love	positive	75
8	cherish	positive	70
9	adore	positive	72
10	like	positive	50
11	dislike	negative	10
12	intrigued	positive	45
13	peeking	neutral	35
14	scared	negative	15
15	worried	negative	12

```
In [154]: reactiontype_df['key']=reactiontype_df.index
```

```
In [145]: reaction_content_merging['key']=reaction_content_merging.index
```

```
In [151]: [reactiontype_df.head(),reaction_content_merging.head()]
```

	Type	Sentiment	Score	key
0	heart	positive	60	0
1	want	positive	70	1
2	disgust	negative	0	2
3	hate	negative	5	3
4	interested	positive	30	4
5	indifferent	neutral	20	5
6	love	positive	65	6
7	super love	positive	75	7
8	cherish	positive	70	8
9	adore	positive	72	9
10	like	positive	50	10
11	dislike	negative	10	11
12	intrigued	positive	45	12
13	peeking	neutral	35	13
14	scared	negative	15	14
15	worried	negative	12	15

```
In [153]: reactiontype_df=reactiontype_df.drop(columns=['key'])
```

```
In [177]: merged_df1=pd.merge(reaction_content_merging, reactiontype_df, on=['key'], how='outer')
```

```
In [179]: content_merged_df1=merged_df1.rename(columns = {'Type_x':'Reaction mood', 'Type_y':'Content Type', 'Type':'Reaction Type'}, inplace=True)
```

```
In [181]: content_merged_df1
```

```
In [180]: merged_df1
```

	Content ID	Reaction mood	Datetime	Content Type	Category	URL	key	Reaction Type	Sentiment	Score
0	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2020-11-07 09:43:50	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...	0	heart	positive	60.0
1	97522e57-d9ab-4bd6-97bf-c24d952602d2	dislike	2021-06-17 12:22:51	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...	1	want	positive	70.0
2	97522e57-d9ab-4bd6-97bf-c24d952602d2	scared	2021-04-18 05:13:58	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...	2	disgust	negative	0.0
3	97522e57-d9ab-4bd6-97bf-c24d952602d2	disgust	2021-01-06 19:13:01	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...	3	hate	negative	5.0
4	97522e57-d9ab-4bd6-97bf-c24d952602d2	interested	2020-08-23 12:25:58	photo	Studying	https://socialbuzz.cdn.com/content/storage/975...	4	interested	positive	30.0
...
18379	75d6b589-7fae-4a6d-b0d0-752845150e56	worried	2020-10-31 04:50:14	audio	technology	https://socialbuzz.cdn.com/content/storage/75d...	18379	NaN	NaN	NaN
18380	75d6b589-7fae-4a6d-b0d0-752845150e56	dislike	2020-06-27 09:46:48	audio	technology	https://socialbuzz.cdn.com/content/storage/75d...	18380	NaN	NaN	NaN
18381	75d6b589-7fae-4a6d-b0d0-752845150e56	intrigued	2021-02-16 17:17:02	audio	technology	https://socialbuzz.cdn.com/content/storage/75d...	18381	NaN	NaN	NaN
18382	75d6b589-7fae-4a6d-b0d0-752845150e56	worried	2020-11-04 20:08:31	audio	technology	https://socialbuzz.cdn.com/content/storage/75d...	18382	NaN	NaN	NaN
18383	75d6b589-7fae-4a6d-b0d0-752845150e56	cherish	2021-01-04 04:55:11	audio	technology	https://socialbuzz.cdn.com/content/storage/75d...	18383	NaN	NaN	NaN

18384 rows × 10 columns

```
In [ ]:
```