

Financial Data Analytics

July 3, 2024

```
[1]: import pandas as pd
df=pd.read_csv("Financial Analytics UncleanData.csv")
#display(df)
df.info()
print(df.head(200))
```

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 488 entries, 0 to 487

Data columns (total 5 columns):

#	Column	Non-Null Count	Dtype
0	S.No.	488 non-null	int64
1	Name	488 non-null	object
2	Mar Cap - Crore	479 non-null	float64
3	Sales Qtr - Crore	365 non-null	float64
4	Unnamed: 4	94 non-null	float64

dtypes: float64(3), int64(1), object(1)

memory usage: 19.2+ KB

	S.No.	Name	Mar Cap - Crore	Sales Qtr - Crore	Unnamed: 4
0	1	Reliance Inds.	583436.72	99810.00	NaN
1	2	TCS	563709.84	30904.00	NaN
2	3	HDFC Bank	482953.59	20581.27	NaN
3	4	ITC	320985.27	9772.02	NaN
4	5	H D F C	289497.37	16840.51	NaN
..
195	202	Shri.City Union.	12995.31	1338.09	NaN
196	203	L&T Technology	12942.25	NaN	969.1
197	204	Rain Industries	12655.17	3050.81	NaN
198	205	Torrent Power	12599.37	2754.64	NaN
199	206	Dilip Buildcon	12526.06	1942.12	NaN

[200 rows x 5 columns]

```
[2]: df['Unnamed: 4'] = df['Unnamed: 4'].fillna(0)
df['Sales Qtr - Crore'] = df['Sales Qtr - Crore'].fillna(0)
df['Sales Qtr - Crore'] = df['Sales Qtr - Crore'].astype(float) + df['Unnamed: 4']
df['Sales Qtr - Crore'] = df['Sales Qtr - Crore'].astype(float)
```

```
[3]: print(df.head(200))
```

	S.No.	Name	Mar Cap - Crore	Sales Qtr - Crore	Unnamed: 4
0	1	Reliance Inds.	583436.72	99810.00	0.0
1	2	TCS	563709.84	30904.00	0.0
2	3	HDFC Bank	482953.59	20581.27	0.0
3	4	ITC	320985.27	9772.02	0.0
4	5	H D F C	289497.37	16840.51	0.0
..
195	202	Shri.City Union.	12995.31	1338.09	0.0
196	203	L&T Technology	12942.25	969.10	969.1
197	204	Rain Industries	12655.17	3050.81	0.0
198	205	Torrent Power	12599.37	2754.64	0.0
199	206	Dilip Buildcon	12526.06	1942.12	0.0

[200 rows x 5 columns]

```
[4]: df = df.drop(columns=['Unnamed: 4'])
```

```
[5]: print(df.head(200))
```

	S.No.	Name	Mar Cap - Crore	Sales Qtr - Crore
0	1	Reliance Inds.	583436.72	99810.00
1	2	TCS	563709.84	30904.00
2	3	HDFC Bank	482953.59	20581.27
3	4	ITC	320985.27	9772.02
4	5	H D F C	289497.37	16840.51
..
195	202	Shri.City Union.	12995.31	1338.09
196	203	L&T Technology	12942.25	969.10
197	204	Rain Industries	12655.17	3050.81
198	205	Torrent Power	12599.37	2754.64
199	206	Dilip Buildcon	12526.06	1942.12

[200 rows x 4 columns]

```
[6]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 488 entries, 0 to 487
Data columns (total 4 columns):
#   Column                Non-Null Count  Dtype
---  -
0   S.No.                 488 non-null    int64
1   Name                  488 non-null    object
2   Mar Cap - Crore       479 non-null    float64
3   Sales Qtr - Crore     488 non-null    float64
dtypes: float64(2), int64(1), object(1)
memory usage: 15.4+ KB
```

```
[7]: df['Mar Cap - Crore'] = df['Mar Cap - Crore'].fillna('Not Available')
df['Sales Qtr - Crore'] = df['Sales Qtr - Crore'].fillna('Not Available')
```

```
[8]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 488 entries, 0 to 487
Data columns (total 4 columns):
#   Column                Non-Null Count  Dtype
---  -
0   S.No.                 488 non-null   int64
1   Name                  488 non-null   object
2   Mar Cap - Crore       488 non-null   object
3   Sales Qtr - Crore    488 non-null   float64
dtypes: float64(1), int64(1), object(2)
memory usage: 15.4+ KB
```

```
[9]: duplicates = df[df['Name'].duplicated()]
if not duplicates.empty:
    print("Duplicate Names found:")
    print(duplicates['Name'].unique()) # Display unique duplicated names
else:
    print("No Duplicate Names found.")
```

No Duplicate Names found.

```
[10]: not_availablemc_rows = df[df['Mar Cap - Crore'] == 'Not Available']
if not not_availablemc_rows.empty:
    print("Rows where 'Mar Cap - Crore' is 'Not Available':")
    print(not_availablemc_rows)
    not_availablemc_rows.to_excel('Mar_Cap_Unavailable.xlsx', index=False)
else:
    print("No rows found where 'Mar Cap - Crore' is 'Not Available'.")

print("=====")

not_available_sales_rows = df[df['Sales Qtr - Crore'] == 0]
if not not_available_sales_rows.empty:
    print("Rows where 'Sales Qtr' is '0':")
    print(not_available_sales_rows)
    not_available_sales_rows.to_excel('Sales_Qtr_Unavailable.xlsx', index=False)
else:
    print("No rows found where 'Sales Qtr' is '0'.")
```

Rows where 'Mar Cap - Crore' is 'Not Available':

	S.No.	Name	Mar Cap - Crore	Sales Qtr - Crore
99	100	Colgate-Palm.	Not Available	0.0
147	150	Endurance Tech.	Not Available	0.0

193	200	Natl. Aluminium	Not Available	0.0
243	250	Mahanagar Gas	Not Available	0.0
287	300	Bajaj Corp	Not Available	0.0
337	350	ISGEC Heavy	Not Available	0.0
387	400	BSE	Not Available	0.0
437	450	Force Motors	Not Available	0.0
487	500	L T Foods	Not Available	0.0

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Rows where 'Sales Qtr' is '0':

	S.No.	Name	Mar Cap - Crore	Sales Qtr - Crore
49	50	Bharti Infra.	61776.92	0.0
99	100	Colgate-Palm.	Not Available	0.0
147	150	Endurance Tech.	Not Available	0.0
171	176	Info Edg.(India)	14845.05	0.0
185	192	Max Financial	13401.76	0.0
193	200	Natl. Aluminium	Not Available	0.0
224	231	Bombay Burmah	10864.53	0.0
241	248	Sundaram Clayton	10074.36	0.0
243	250	Mahanagar Gas	Not Available	0.0
258	271	Mahindra CIE	8587.04	0.0
287	300	Bajaj Corp	Not Available	0.0
314	327	Prism Cement	6176.23	0.0
332	345	GE Power	5497.4	0.0
337	350	ISGEC Heavy	Not Available	0.0
338	351	MMTC	5300.0	0.0
370	383	Swan Energy	4721.49	0.0
374	387	Shoppers St.	4558.06	0.0
379	392	Stand.Chart.PLC	4487.31	0.0
387	400	BSE	Not Available	0.0
393	406	Ujjivan Fin.Ser.	4293.42	0.0
396	409	Jindal Saw	4278.31	0.0
398	411	Linde India	4198.33	0.0
409	422	JP Associates	4074.37	0.0
418	431	HMT	3973.5	0.0
424	437	Gayatri Projects	3835.73	0.0
437	450	Force Motors	Not Available	0.0
446	459	JP Power Ven.	3597.6	0.0
451	464	Amber Enterp.	3529.87	0.0
459	472	Hind.Construct.	3452.57	0.0
487	500	L T Foods	Not Available	0.0

```
[11]: df.to_excel('output.xlsx', index=False)
```