```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings('ignore') # i

In [2]: df = pd.read_csv("data1/Financial_Analytics_data.csv") # importing dataset

In [3]: print('Rows: {} Columns: {}'.format(df.shape[0], df.shape[1])) # c
Rows: 488 Columns: 5
In [4]: df.head(15) #fi
```

#### Out[4]:

	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	HDFC	289497.37	16840.51	NaN
5	6	Hind. Unilever	288265.26	8590.00	NaN
6	7	Maruti Suzuki	263493.81	19283.20	NaN
7	8	Infosys	248320.35	17794.00	NaN
8	9	ONGC	239981.50	22995.88	NaN
9	10	St Bk of India	232763.33	57014.08	NaN
10	11	ICICI Bank	203802.35	13665.35	NaN
11	12	Kotak Mah. Bank	199253.77	6390.71	NaN
12	13	Coal India	192677.98	21643.28	NaN
13	14	Larsen & Toubro	180860.74	28747.45	NaN
14	15	IOCL	178017.48	110666.93	NaN

```
In [5]: df.tail(15)
```

#### Out[5]:

	S.No.	Name	Mar Cap - Crore	Sales Qtr - Crore	Unnamed: 4
473	486	Mahindra Logis.	3187.51	835.06	NaN
474	487	Heritage Foods	3185.45	581.74	NaN
475	488	Mah. Seamless	3164.73	563.66	NaN
476	489	Navneet Educat.	3148.36	174.41	NaN
477	490	Firstsour.Solu.	3139.94	887.24	NaN
478	491	Kaveri Seed Co.	3125.83	70.64	NaN
479	492	Star Ferro Cem.	3115.98	393.49	NaN
480	493	Deepak Fert.	3079.06	1644.92	NaN
481	494	Va Tech Wabag	3041.93	460.89	NaN
482	495	Prime Focus	3031.50	609.61	NaN
483	496	Lak. Vilas Bank	3029.57	790.17	NaN
484	497	NOCIL	3026.26	249.27	NaN
485	498	Orient Cement	3024.32	511.53	NaN
486	499	Natl.Fertilizer	3017.07	2840.75	NaN
487	500	LT Foods	NaN	NaN	NaN

### In [6]: df.info()

<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

### In [7]: df.nunique()

### Out[7]: S.No.

dtype: int64

```
for i, col in enumerate(df.columns):
    print(df.columns[i],":", df[str(col)].unique(), '\n')
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 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 126 127
 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145
 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164
 165 166 167 168 169 170 171 172 173 176 177 178 179 180 181 182 183 184
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 263 264 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282
 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300
 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315
                                                                316 317 318
 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336
 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354
```

# **Data Cleaning and Preprocessing:**

### Various types of attributes

```
In [10]: attributes = df.select_dtypes(include=['int'])
    print(attributes.columns) # Identify

    Index(['S.No.'], dtype='object')

In [11]: attributes = df.select_dtypes(include=['object'])
    print(attributes.columns)

    Index(['Name'], dtype='object')

In [12]: attributes = df.select_dtypes(include=['float'])
    print(attributes.columns)

    Index(['Mar Cap - Crore', 'Sales Qtr - Crore', 'Unnamed: 4'], dtype='object')
```

## Out[13]:

	Mar Cap - Crore	Sales Qtr - Crore	Unnamed: 4
count	479.000000	365.000000	94.000000
mean	28043.857119	4395.976849	1523.870106
std	59464.615831	11092.206185	1800.008836
min	3017.070000	47.240000	0.000000
25%	4843.575000	593.740000	407.167500
50%	9885.050000	1278.300000	702.325000
75%	23549.900000	2840.750000	2234.815000
max	583436.720000	110666.930000	7757.060000

In [14]: df.head(50)

	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	HDFC	289497.37	16840.51	NaN
5	6	Hind. Unilever	288265.26	8590.00	NaN
6	7	Maruti Suzuki	263493.81	19283.20	NaN
7	8	Infosys	248320.35	17794.00	NaN
8	9	ONGC	239981.50	22995.88	NaN
9	10	St Bk of India	232763.33	57014.08	NaN
10	11	ICICI Bank	203802.35	13665.35	NaN
11	12	Kotak Mah. Bank	199253.77	6390.71	NaN
12	13	Coal India	192677.98	21643.28	NaN
13	14	Larsen & Toubro	180860.74	28747.45	NaN
14	15	IOCL	178017.48	110666.93	NaN
15	16	Bharti Airtel	167131.29	20318.60	NaN
16	17	Axis Bank	136380.76	11721.55	NaN
17	18	NTPC	135390.53	20774.37	NaN
18	19	Sun Pharma.Inds.	134241.36	6653.23	NaN
19	20	Hind.Zinc	133266.56	5922.00	NaN
20	21	Wipro	131840.57	13669.00	NaN
21	22	HCL Technologies	126335.27	12809.00	NaN
22	23	Vedanta	122184.17	24361.00	NaN
23	24	Tata Motors	117071.87	74156.07	NaN
24	25	UltraTech Cem.	113692.87	8019.24	NaN
25	26	Asian Paints	108044.04	4260.52	NaN
26	27	Power Grid Corpn	102016.01	7506.95	NaN
27	28	BPCL	98278.00	60616.36	NaN
28	29	IndusInd Bank	97379.96	4286.78	NaN
29	30	Bajaj Fin.	94476.77	3540.63	NaN
30	31	Bajaj Auto	88252.60	6369.34	NaN
31	32	M & M	88142.35	11577.78	NaN
32	33	HDFC Stand. Life	87358.23	9734.90	NaN
33	34	Adani Ports	81781.89	2688.85	NaN
34	35	Bajaj Finserv	79795.11	7665.40	NaN
35	36	GAIL (India)	78670.97	14414.34	NaN
36	37	Avenue Super.	74066.35	4094.82	NaN
37	38	Titan Company	73886.00	4274.84	NaN
38	39	JSW Steel	73870.26	17861.00	NaN
39	40	Grasim Inds	73532.62	15291.42	NaN
40	41	Tata Steel	73376.14	32464.14	NaN

	S.No.	Name	Mar Cap - Crore	Sales Qtr - Crore	Unnamed: 4
41	42	Eicher Motors	73311.41	2269.01	NaN
42	43	Nestle India	73015.49	2601.46	NaN
43	44	Godrej Consumer	71859.82	2630.30	NaN
44	45	Yes Bank	71028.13	5070.30	NaN
45	46	Hero Motocorp	69448.66	7305.49	NaN
46	47	Motherson Sumi	68590.33	14397.85	NaN
47	48	SBI Life Insuran	67465.00	9569.97	NaN
48	49	General Insuranc	66316.32	8557.68	NaN
49	50	Bharti Infra.	61776.92	NaN	NaN

In [16]: df.head(50)

	S.No.	Name	Market_capitalisation	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	HDFC	289497.37	16840.51	NaN
5	6	Hind. Unilever	288265.26	8590.00	NaN
6	7	Maruti Suzuki	263493.81	19283.20	NaN
7	8	Infosys	248320.35	17794.00	NaN
8	9	ONGC	239981.50	22995.88	NaN
9	10	St Bk of India	232763.33	57014.08	NaN
10	11	ICICI Bank	203802.35	13665.35	NaN
11	12	Kotak Mah. Bank	199253.77	6390.71	NaN
12	13	Coal India	192677.98	21643.28	NaN
13	14	Larsen & Toubro	180860.74	28747.45	NaN
14	15	IOCL	178017.48	110666.93	NaN
15	16	Bharti Airtel	167131.29	20318.60	NaN
16	17	Axis Bank	136380.76	11721.55	NaN
17	18	NTPC	135390.53	20774.37	NaN
18	19	Sun Pharma.Inds.	134241.36	6653.23	NaN
19	20	Hind.Zinc	133266.56	5922.00	NaN
20	21	Wipro	131840.57	13669.00	NaN
21	22	HCL Technologies	126335.27	12809.00	NaN
22	23	Vedanta	122184.17	24361.00	NaN
23	24	Tata Motors	117071.87	74156.07	NaN
24	25	UltraTech Cem.	113692.87	8019.24	NaN
25	26	Asian Paints	108044.04	4260.52	NaN
26	27	Power Grid Corpn	102016.01	7506.95	NaN
27	28	BPCL	98278.00	60616.36	NaN
28	29	IndusInd Bank	97379.96	4286.78	NaN
29	30	Bajaj Fin.	94476.77	3540.63	NaN
30	31	Bajaj Auto	88252.60	6369.34	NaN
31	32	M & M	88142.35	11577.78	NaN
32	33	HDFC Stand. Life	87358.23	9734.90	NaN
33	34	Adani Ports	81781.89	2688.85	NaN
34	35	Bajaj Finserv	79795.11	7665.40	NaN
35	36	GAIL (India)	78670.97	14414.34	NaN
36	37	Avenue Super.	74066.35	4094.82	NaN
37	38	Titan Company	73886.00	4274.84	NaN
38	39	JSW Steel	73870.26	17861.00	NaN
39	40	Grasim Inds	73532.62	15291.42	NaN
40	41	Tata Steel	73376.14	32464.14	NaN

	S.No.	Name	Market_capitalisation	Sales_Qtr_Crore	Unnamed_4
41	42	Eicher Motors	73311.41	2269.01	NaN
42	43	Nestle India	73015.49	2601.46	NaN
43	44	Godrej Consumer	71859.82	2630.30	NaN
44	45	Yes Bank	71028.13	5070.30	NaN
45	46	Hero Motocorp	69448.66	7305.49	NaN
46	47	Motherson Sumi	68590.33	14397.85	NaN
47	48	SBI Life Insuran	67465.00	9569.97	NaN
48	49	General Insuranc	66316.32	8557.68	NaN
49	50	Bharti Infra.	61776.92	NaN	NaN

### **Outliers Detections**

```
In [17]: df.info()
```

<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	Market_capitalisation	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

In [18]: col\_for\_outliers=['Market\_capitalisation', 'Sales\_Qtr\_Crore']
summary\_pre\_outliers\_detection = df[col\_for\_outliers].describe()
summary\_pre\_outliers\_detection

#### Out[18]:

	Market_capitalisation	Sales_Qtr_Crore
count	479.000000	365.000000
mean	28043.857119	4395.976849
std	59464.615831	11092.206185
min	3017.070000	47.240000
25%	4843.575000	593.740000
50%	9885.050000	1278.300000
75%	23549.900000	2840.750000
max	583436.720000	110666.930000

```
In [19]: for i in col_for_outliers:
    Q1 = np.percentile(df[i], 25)
    Q3 = np.percentile(df[i], 75)

IQR = Q3-Q1
    LB = Q1-1.5*IQR
    UB = Q3+1.5*IQR

df[i] = np.where(df[i] < LB, LB, df[i])
    df[i] = np.where(df[i] > UB, UB, df[i])

summary_post_outliers_detection = df[col_for_outliers].describe()
summary_post_outliers_detection
```

#### Out[19]:

	Market_capitalisation	Sales_Qtr_Crore
count	479.000000	365.000000
mean	28043.857119	4395.976849
std	59464.615831	11092.206185
min	3017.070000	47.240000
25%	4843.575000	593.740000
50%	9885.050000	1278.300000
75%	23549.900000	2840.750000
max	583436.720000	110666.930000

```
In [20]: df["Sales_Qtr_Crore"].fillna(0.00, inplace = True)
    df["Market_capitalisation"].fillna(0.00, inplace = True)
    df["Unnamed_4"].fillna(0.00, inplace = True)
```

#### In [21]: df.head(100)

#### Out[21]:

	S.No.	Name	Market_capitalisation	Sales_Qtr_Crore	Unnamed_4
0	1	Reliance Inds.	583436.72	99810.00	0.00
1	2	TCS	563709.84	30904.00	0.00
2	3	HDFC Bank	482953.59	20581.27	0.00
3	4	ITC	320985.27	9772.02	0.00
4	5	HDFC	289497.37	16840.51	0.00
95	96	Bajaj Holdings	30305.94	0.00	317.85
96	97	P & G Hygiene	30202.12	0.00	704.16
97	98	MRF	30030.01	0.00	3798.82
98	99	Shriram Trans.	29327.64	0.00	3087.67
99	100	Colgate-Palm.	0.00	0.00	0.00

100 rows × 5 columns

In [25]: df.head(50)

	S.No.	Name	Market_capitalisation	Sales_Qtr_Crore	Unnamed_4	Sales_Qtr_Cr
0	1	Reliance Inds.	583436.72	99810.00	0.0	99810.00
1	2	TCS	563709.84	30904.00	0.0	30904.00
2	3	HDFC Bank	482953.59	20581.27	0.0	20581.27
3	4	ITC	320985.27	9772.02	0.0	9772.02
4	5	HDFC	289497.37	16840.51	0.0	16840.51
5	6	Hind. Unilever	288265.26	8590.00	0.0	8590.00
6	7	Maruti Suzuki	263493.81	19283.20	0.0	19283.20
7	8	Infosys	248320.35	17794.00	0.0	17794.00
8	9	ONGC	239981.50	22995.88	0.0	22995.88
9	10	St Bk of India	232763.33	57014.08	0.0	57014.08
10	11	ICICI Bank	203802.35	13665.35	0.0	13665.35
11	12	Kotak Mah. Bank	199253.77	6390.71	0.0	6390.71
12	13	Coal India	192677.98	21643.28	0.0	21643.28
13	14	Larsen & Toubro	180860.74	28747.45	0.0	28747.45
14	15	IOCL	178017.48	110666.93	0.0	110666.93
15	16	Bharti Airtel	167131.29	20318.60	0.0	20318.60
16	17	Axis Bank	136380.76	11721.55	0.0	11721.55
17	18	NTPC	135390.53	20774.37	0.0	20774.37
18	19	Sun Pharma.Inds.	134241.36	6653.23	0.0	6653.23
19	20	Hind.Zinc	133266.56	5922.00	0.0	5922.00
20	21	Wipro	131840.57	13669.00	0.0	13669.00
21	22	HCL Technologies	126335.27	12809.00	0.0	12809.00
22	23	Vedanta	122184.17	24361.00	0.0	24361.00
23	24	Tata Motors	117071.87	74156.07	0.0	74156.07
24	25	UltraTech Cem.	113692.87	8019.24	0.0	8019.24
25	26	Asian Paints	108044.04	4260.52	0.0	4260.52
26	27	Power Grid Corpn	102016.01	7506.95	0.0	7506.95
27	28	BPCL	98278.00	60616.36	0.0	60616.36
28	29	IndusInd Bank	97379.96	4286.78	0.0	4286.78
29	30	Bajaj Fin.	94476.77	3540.63	0.0	3540.63
30	31	Bajaj Auto	88252.60	6369.34	0.0	6369.34
31	32	M & M	88142.35	11577.78	0.0	11577.78
32	33	HDFC Stand. Life	87358.23	9734.90	0.0	9734.90
33	34	Adani Ports	81781.89	2688.85	0.0	2688.85
34	35	Bajaj Finserv	79795.11	7665.40	0.0	7665.40
35	36	GAIL (India)	78670.97	14414.34	0.0	14414.34
36	37	Avenue Super.	74066.35	4094.82	0.0	4094.82
37	38	Titan Company	73886.00	4274.84	0.0	4274.84
38	39	JSW Steel	73870.26	17861.00	0.0	17861.00
39	40	Grasim Inds	73532.62	15291.42	0.0	15291.42
40	41	Tata Steel	73376.14	32464.14	0.0	32464.14

	S.No.	Name	Market_capitalisation	Sales_Qtr_Crore	Unnamed_4	Sales_Qtr_Cr
41	42	Eicher Motors	73311.41	2269.01	0.0	2269.01
42	43	Nestle India	73015.49	2601.46	0.0	2601.46
43	44	Godrej Consumer	71859.82	2630.30	0.0	2630.30
44	45	Yes Bank	71028.13	5070.30	0.0	5070.30
45	46	Hero Motocorp	69448.66	7305.49	0.0	7305.49
46	47	Motherson Sumi	68590.33	14397.85	0.0	14397.85
47	48	SBI Life Insuran	67465.00	9569.97	0.0	9569.97
48	49	General Insuranc	66316.32	8557.68	0.0	8557.68
49	50	Bharti Infra.	61776.92	0.00	0.0	0.00

In [26]: df.drop(['Unnamed\_4', 'Sales\_Qtr\_Crore'], axis=1, inplace=True)

In [27]: df

### Out[27]:

	S.No.	Name	Market_capitalisation	Sales_Qtr_Cr
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	HDFC	289497.37	16840.51
483	496	Lak. Vilas Bank	3029.57	790.17
484	497	NOCIL	3026.26	249.27
485	498	Orient Cement	3024.32	511.53
486	499	Natl.Fertilizer	3017.07	2840.75
487	500	LT Foods	0.00	0.00

488 rows × 4 columns

In [28]: df = df.drop(df[(df["Market\_capitalisation"] == 0.00) & (df["Sales\_Qtr\_Cr"] == 0.00)]

In [29]: df

Out[29]:

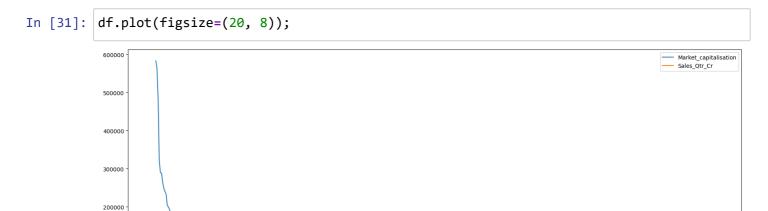
	S.No.	Name	Market_capitalisation	Sales_Qtr_Cr
0	1	Reliance Inds.	583436.72	99810.00
1	2	TCS	563709.84	30904.00
2	3	HDFC Bank	482953.59	20581.27
3	4	ITC	320985.27	9772.02
4	5	HDFC	289497.37	16840.51
482	495	Prime Focus	3031.50	609.61
483	496	Lak. Vilas Bank	3029.57	790.17
484	497	NOCIL	3026.26	249.27
485	498	Orient Cement	3024.32	511.53
486	499	Natl.Fertilizer	3017.07	2840.75

479 rows × 4 columns

100000

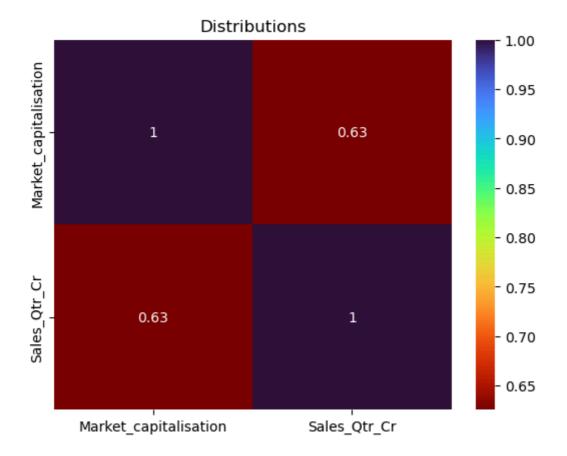
In [30]: df.drop(['S.No.'], axis=1, inplace=True)

# **Exploratory Data Analysis (EDA):**

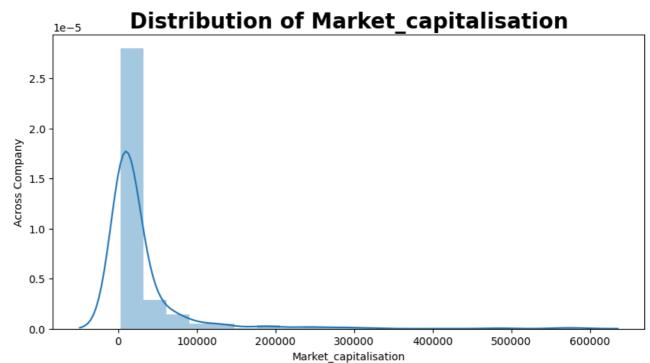


```
In [32]: corr_df = df.corr()
sns.heatmap(corr_df, xticklabels=corr_df, yticklabels=corr_df, cmap='turbo_r', annot
plt.title('Distributions')
```

Out[32]: Text(0.5, 1.0, 'Distributions')



```
In [33]: Market_capitalisation = df['Market_capitalisation'].value_counts()
    plt.figure(figsize=(10, 5))
    sns.distplot(df['Market_capitalisation'], bins=20)
    plt.title('Distribution of Market_capitalisation', fontdict={'fontsize': 20, 'fontweiplt.xlabel('Market_capitalisation')
    plt.ylabel('Across Company')
    plt.show()
```



```
In [34]: graph = df["Market_capitalisation"]

mean_price = graph.mean()
median_price = graph.median()
std = graph.std()

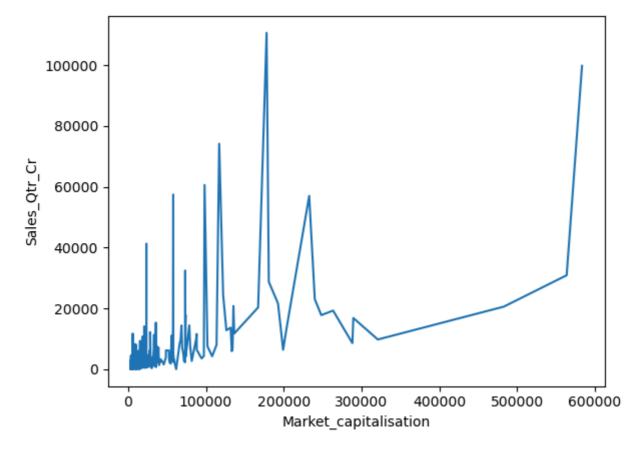
skewness = (3 * (mean_price - median_price)) / std

print(f"The skewness score of market_capitalisation: {skewness:.5f}")
```

The skewness score of market\_capitalisation: 0.91611

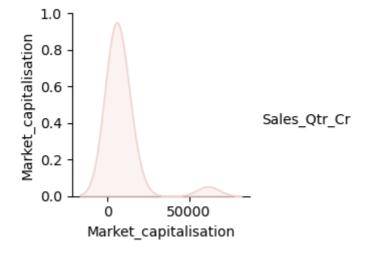
```
In [35]: sns.lineplot(x="Market_capitalisation", y="Sales_Qtr_Cr", data=df)
```

Out[35]: <AxesSubplot:xlabel='Market\_capitalisation', ylabel='Sales\_Qtr\_Cr'>

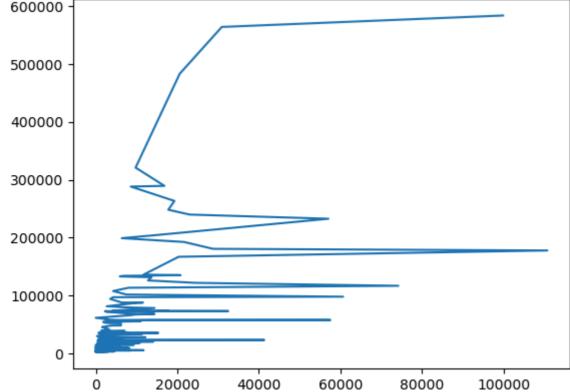


```
In [36]: sns.pairplot(data=df, hue="Sales_Qtr_Cr")
```

Out[36]: <seaborn.axisgrid.PairGrid at 0x21450530970>



In [37]: sns.pairplot(data=df, hue="Name") Out[37]: <seaborn.axisgrid.PairGrid at 0x21450a0b1c0> Name Reliance Inds. TCS **HDFC Bank** ITС HDFC Hind. Unilever Maruti Suzuki Infosys ONGC St Bk of India ICICI Bank Kotak Mah. Bank Coal India Larsen & Toubro In [38]: plt.plot(df.Sales\_Qtr\_Cr, df.Market\_capitalisation) Out[38]: [<matplotlib.lines.Line2D at 0x2145341b040>] 600000 -



```
In [39]: | corr_df = df.corr()
          sns.clustermap(corr_df, xticklabels=corr_df, yticklabels=corr_df, cmap='turbo_r', ar
          plt.title('Distributions')
Out[39]: Text(0.5, 1.0, 'Distributions')
           Distributions
                   0.9
                  0.8
                   0.7
                                                                               0.63
                                                                                                 0.62573738]
                                                                                                 ī.
                                             0.63
                                             0.62573738]
                                                                         [0.62573738 1. ]
                                        [1.
In [40]: print(df[['Market_capitalisation', 'Sales_Qtr_Cr']].corr())
                                  Market_capitalisation Sales_Qtr_Cr
          Market_capitalisation
                                                1.000000
                                                               0.625737
          Sales_Qtr_Cr
                                                0.625737
                                                               1.000000
In [41]: | print(df[['Market_capitalisation', 'Sales_Qtr_Cr']].mean())
          Market_capitalisation
                                    28043.857119
          Sales Qtr Cr
                                     3648.800292
          dtype: float64
In [42]:
         print(df[['Market_capitalisation', 'Sales_Qtr_Cr']].median())
          Market_capitalisation
                                    9885.05
          Sales_Qtr_Cr
                                    1012.94
```

dtype: float64

In [43]:	<pre>print(df[['Market_capitalisation', 'Sales_Qtr_Cr']].var())</pre>				
	Market_capitalisation Sales_Qtr_Cr dtype: float64	3.536041e+09 9.619517e+07			
In [ ]:					