

```
In [2]: import pandas as pd

# Load the dataset
file_path = "Financial_Analytics_data.csv"
df = pd.read_csv(file_path)

# Display the first few rows of the dataframe
df.head()
```

```
Out[2]:
```

	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	30064.00	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

```
In [3]: pip install sweetviz

Requirement already satisfied: sweetviz in c:\users\uzman\anaconda3\lib\site-packages (2.3.1)
Requirement already satisfied: pandas<=1.5.0, >=1.3.1 in c:\users\uzman\anaconda3\lib\site-packages (from sweetviz) (1.26.4)
Requirement already satisfied: numpy>=1.16.0 in c:\users\uzman\anaconda3\lib\site-packages (from sweetviz) (1.26.4)
Requirement already satisfied: scikit-learn<=0.25.0 in c:\users\uzman\anaconda3\lib\site-packages (from sweetviz) (0.24.4)
Requirement already satisfied: toml>=0.4.0 in c:\users\uzman\anaconda3\lib\site-packages (from sweetviz) (0.10.2)
Requirement already satisfied: jinja2>=2.11.1 in c:\users\uzman\anaconda3\lib\site-packages (from sweetviz) (3.1.4)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\uzman\anaconda3\lib\site-packages (from sweetviz) (2.0.1)
Requirement already satisfied: contourpy>=1.0.1 in c:\users\uzman\anaconda3\lib\site-packages (from matplotlib>=3.1.3->sweetviz) (1.2.0)
Requirement already satisfied: cycler>=0.10 in c:\users\uzman\anaconda3\lib\site-packages (from matplotlib>=3.1.3->sweetviz) (0.11.0)
Requirement already satisfied: fonttools>=4.22.0 in c:\users\uzman\anaconda3\lib\site-packages (from matplotlib>=3.1.3->sweetviz) (4.51.0)
Requirement already satisfied: kiwisolver>=1.3.1 in c:\users\uzman\anaconda3\lib\site-packages (from matplotlib>=3.1.3->sweetviz) (1.4.4)
Requirement already satisfied: packaging>=20.0 in c:\users\uzman\anaconda3\lib\site-packages (from matplotlib>=3.1.3->sweetviz) (24.1)
Requirement already satisfied: pillow>=8.1 in c:\users\uzman\anaconda3\lib\site-packages (from matplotlib>=3.1.3->sweetviz) (10.4.0)
Requirement already satisfied: pyparsing>=2.3.1 in c:\users\uzman\anaconda3\lib\site-packages (from matplotlib>=3.1.3->sweetviz) (3.0.9)
Requirement already satisfied: python-dateutil>=2.7 in c:\users\uzman\anaconda3\lib\site-packages (from matplotlib>=3.1.3->sweetviz) (2.9.0.post0)
Requirement already satisfied: pytz>=2020.1 in c:\users\uzman\anaconda3\lib\site-packages (from pandas<=1.5.0, >=1.3.1, >=1.1.0, >=0.25.0->sweetviz) (2023.4)
Requirement already satisfied: colorama in c:\users\uzman\anaconda3\lib\site-packages (from toml>=0.4.0->sweetviz) (0.4.6)
Requirement already satisfied: tqdm>=4.5 in c:\users\uzman\anaconda3\lib\site-packages (from python-dateutil>=2.7->matplotlib>=3.1.3->sweetviz) (4.66.0)
Note: you may need to restart the kernel to use updated packages.
```

```
In [7]: import pandas as pd
import sweetviz as sv

# Load the dataset
df = pd.read_csv('Financial_Analytics_data.csv')

# Generate the Sweetviz report
report = sv.analyze(df)

# Save the report as an HTML file
report.show_html('sweetviz_report.html')
```

```
Report sweetviz_report.html was generated! NOTEBOOK/COLAB USERS: the web browser MAY not pop up, regardless, the report is saved in your notebook/colab files.
```

```
In [4]: # Get the summary of the dataset
df.info()
```

```
Out[4]:
```

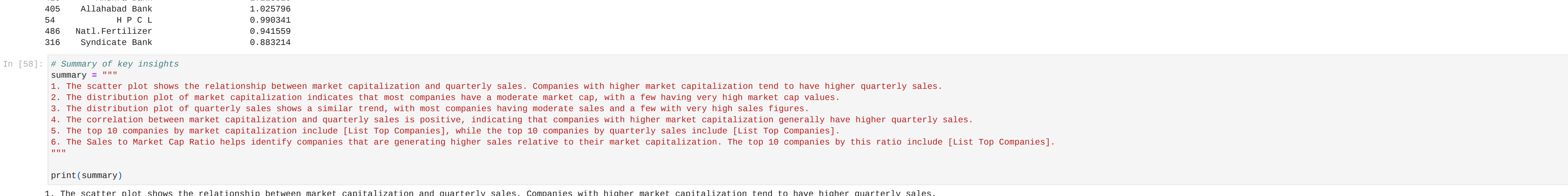
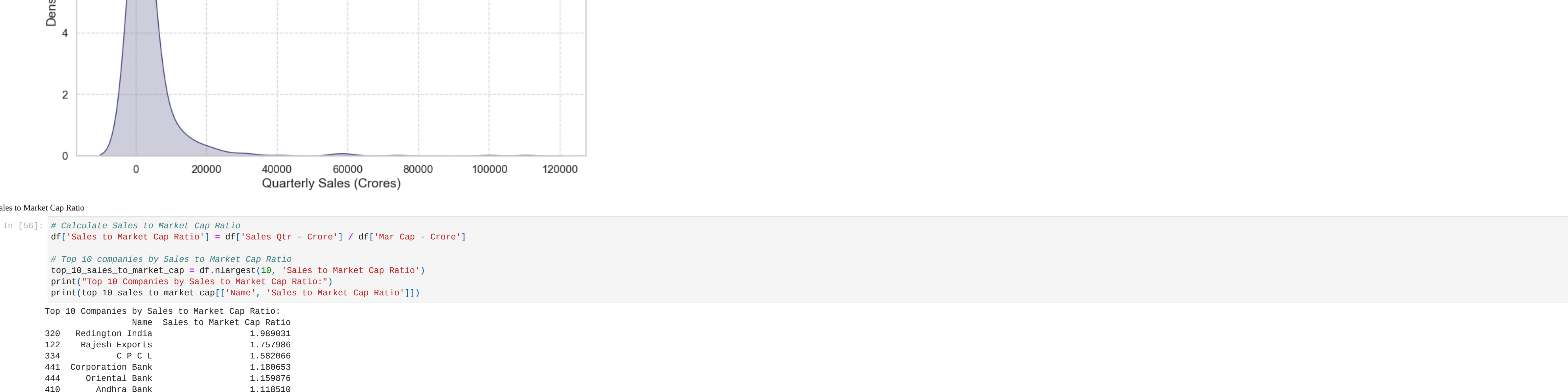
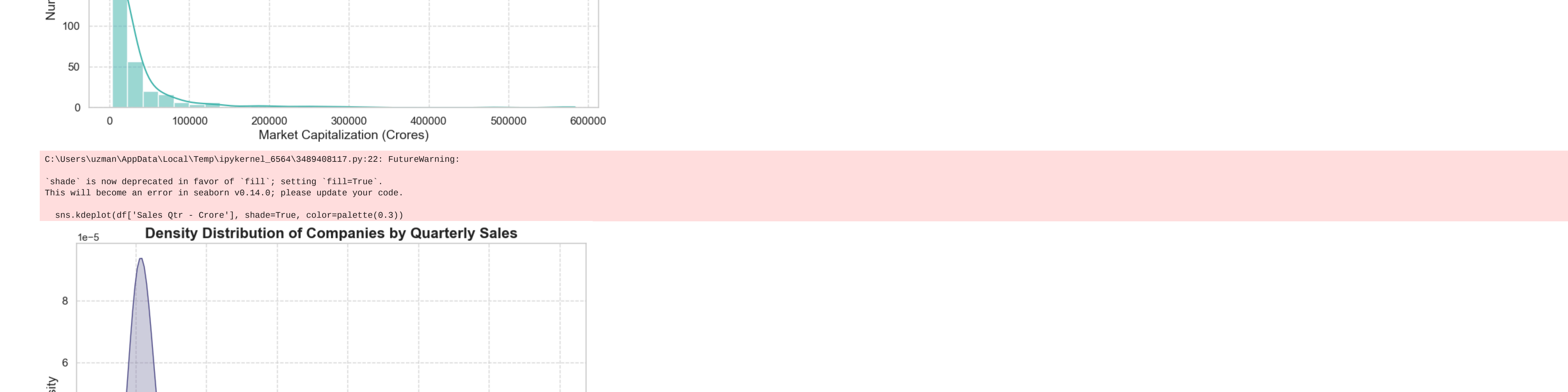
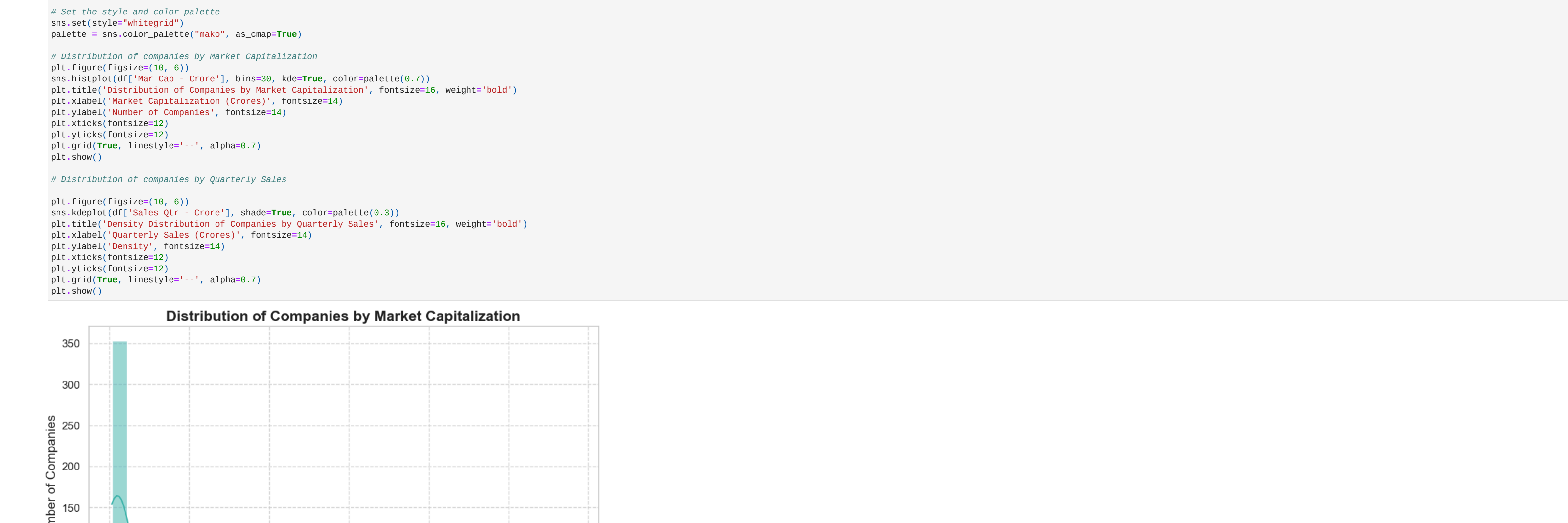
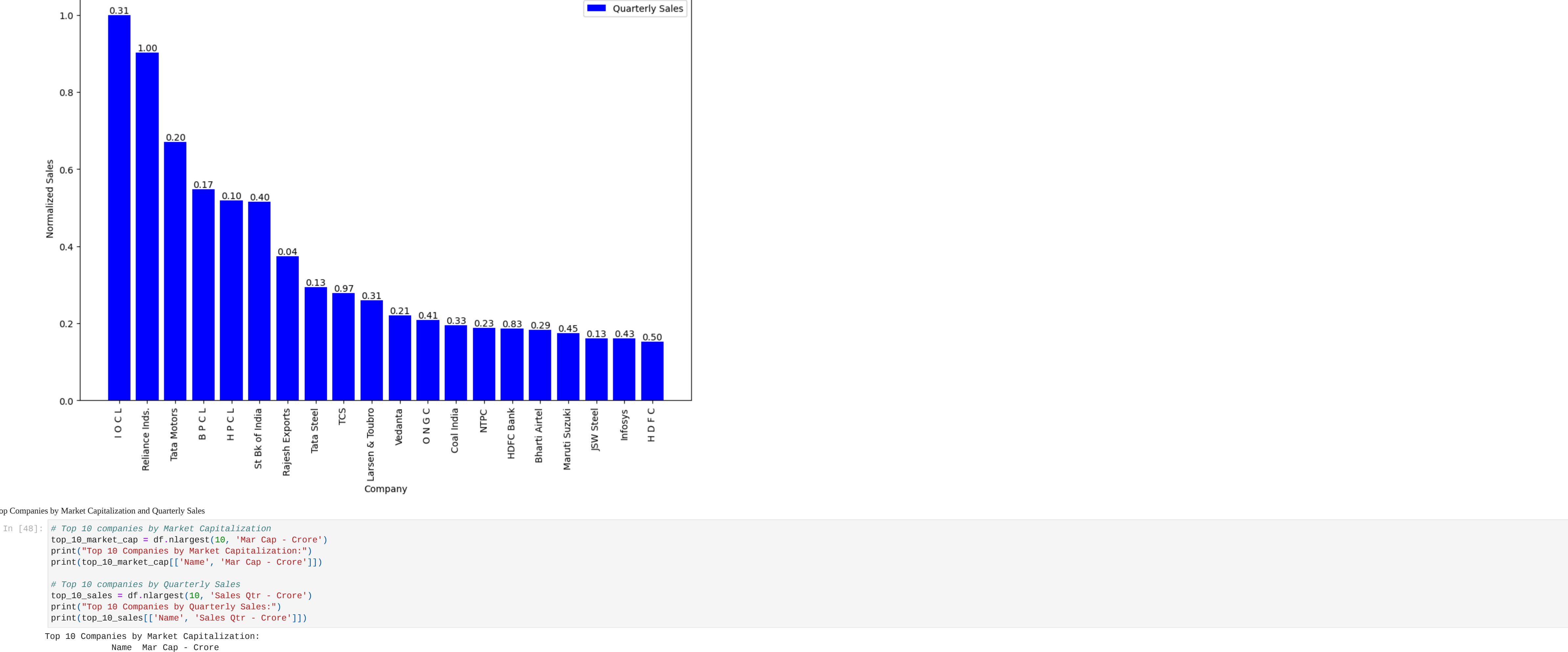
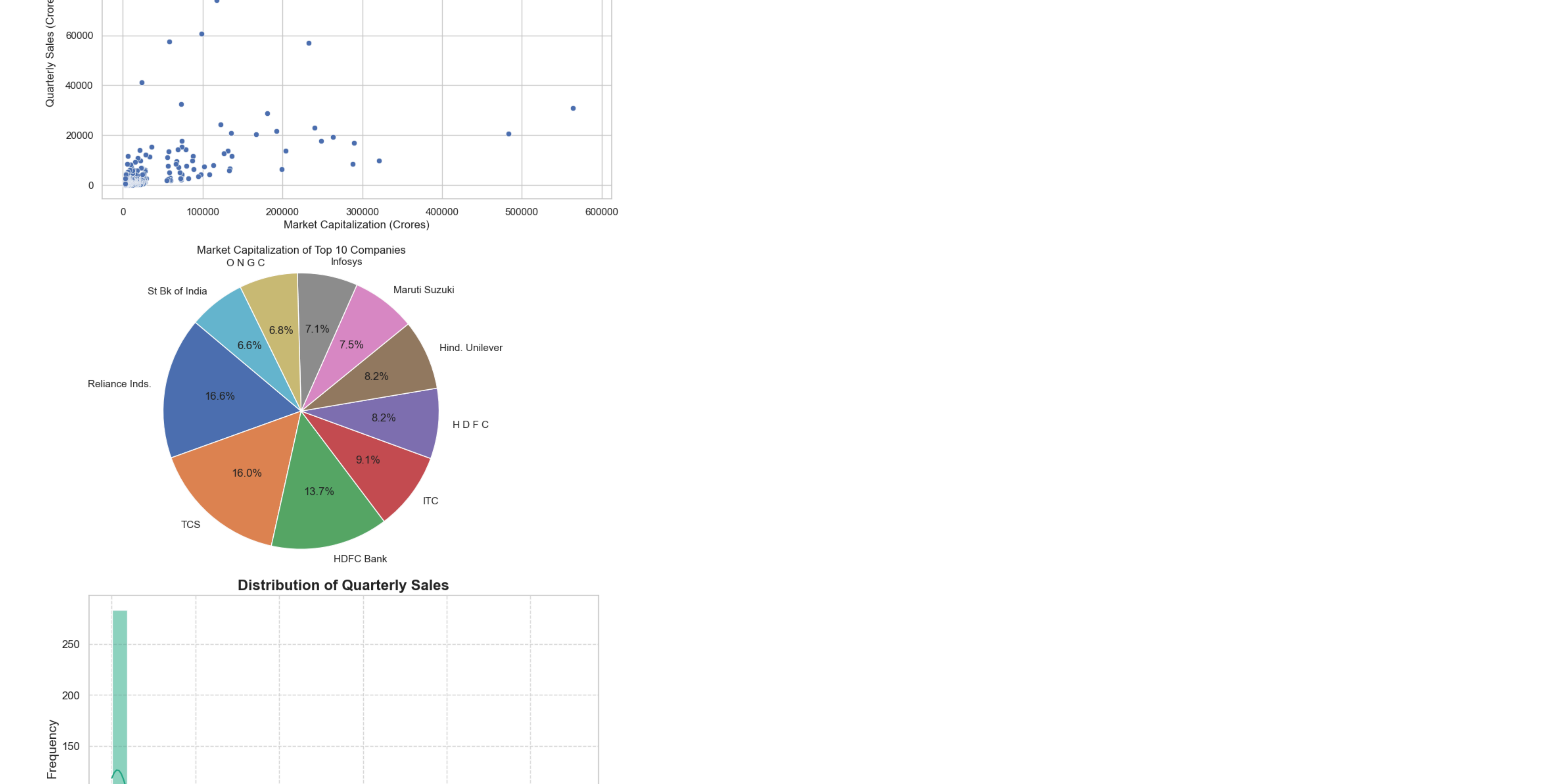
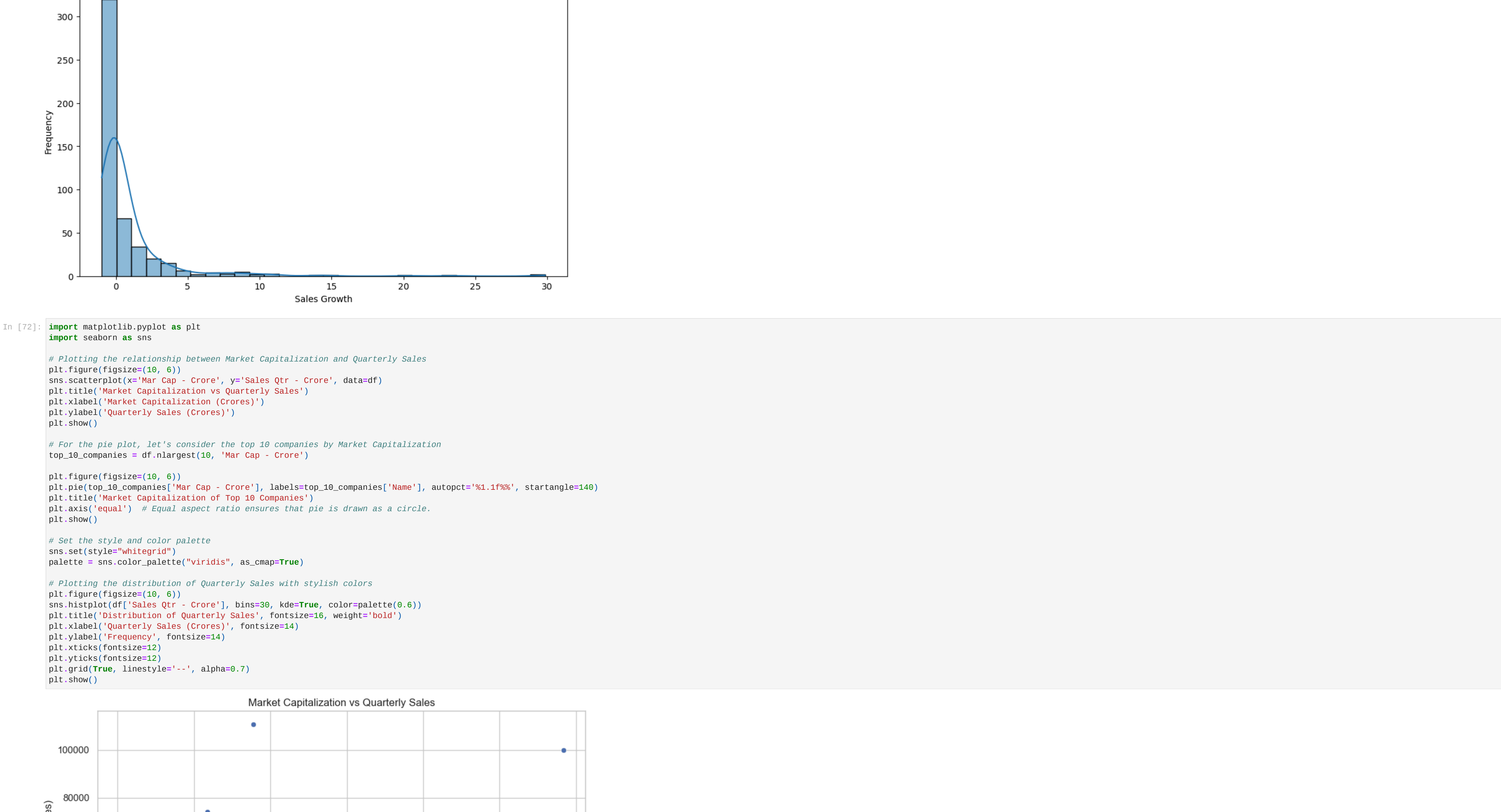
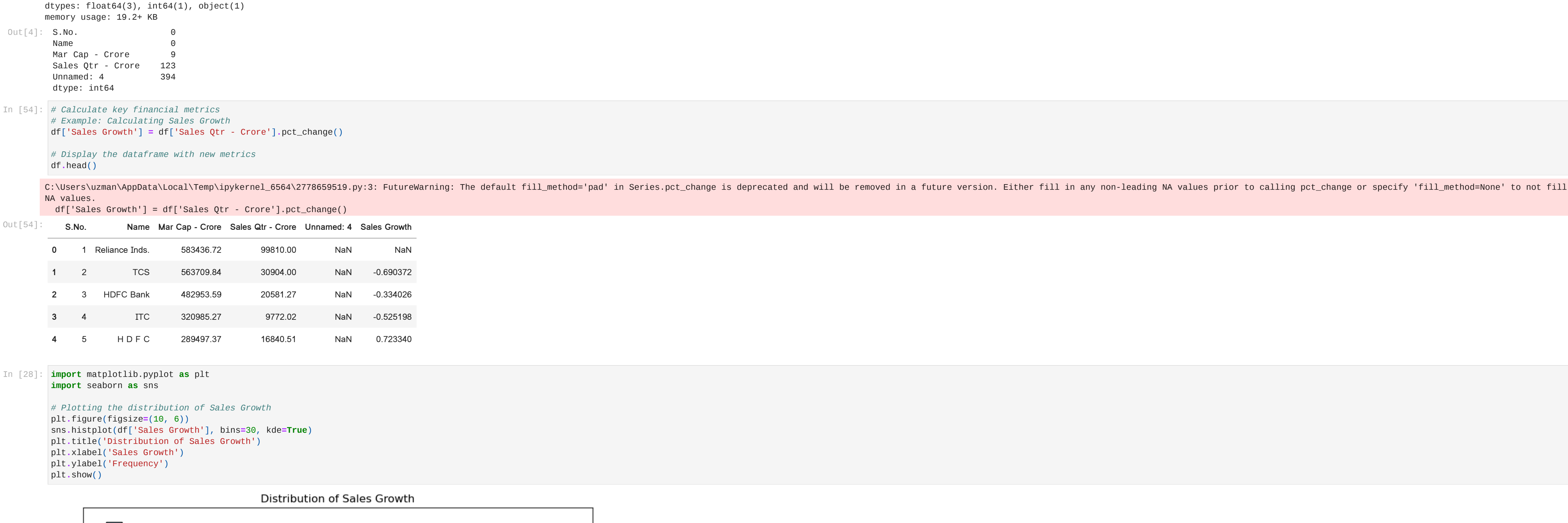
```
Out[4]:
```

```
In [54]: # Calculate key financial metrics
sns.set(style='whitegrid')
df['Sales Growth'] = df['Sales Qtr - Crore'].pct_change()

# Display the dataframe with new metrics
df.head()
```

```
Out[54]:
```

	S.No.	Name	Mar Cap - Crore	Sales Qtr - Crore	Unnamed: 4	Sales Growth
0	1	Reliance Inds.	583436.72	99810.00	NaN	NaN
1	2	TCS	563709.84	30064.00	NaN	-0.690372
2	3	HDFC Bank	482953.59	20581.27	NaN	-0.340206
3	4	ITC	320985.27	9772.02	NaN	-0.525198
4	5	H D F C	289497.37	16840.51	NaN	0.723340





4. The correlation between market capitalization and quarterly sales is positive, indicating that companies with higher market capitalization generally have higher quarterly sales.  
5. The top 10 companies by market capitalization include [List Top Companies], while the top 10 companies by quarterly sales include [List Top Companies].  
6. The Sales to Market Cap Ratio helps identify companies that are generating higher sales relative to their market capitalization. The top 10 companies by this ratio include [List Top Companies].