

Question 5: Plot Tesla Stock Graph

Use the `make_graph` function to graph the Tesla Stock Data, also provide a title for the graph. Note the graph will only show data upto June 2021.

```
*[49]: import matplotlib.pyplot as plt
def make_graph(data, title):
    plt.figure(figsize=(10, 5))
    plt.plot(data['Date'], data['Close'], label='Tesla Stock Price', color='blue')
    plt.title(title)
    plt.xlabel('Date')
    plt.ylabel('Stock Price (USD)')
    plt.xticks(rotation=45)
    plt.grid()
    plt.legend()
    plt.tight_layout()
    plt.show()

tesla_ticker = yf.Ticker('TSLA')

tesla_data = tesla_ticker.history(period='max')

tesla_data.reset_index(inplace=True)

tesla_data_filtered = tesla_data[tesla_data['Date'] <= '2021-06-30']
```