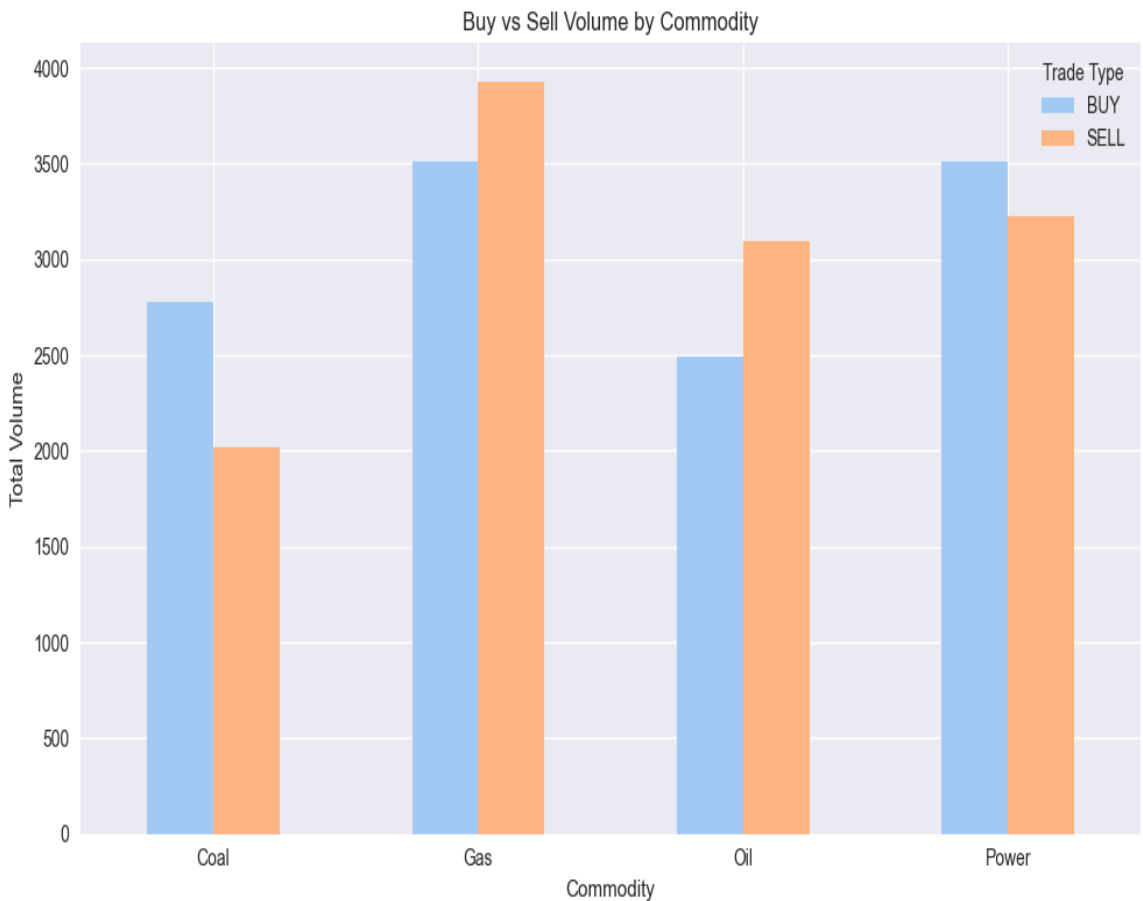


ETRM Data Analysis Report

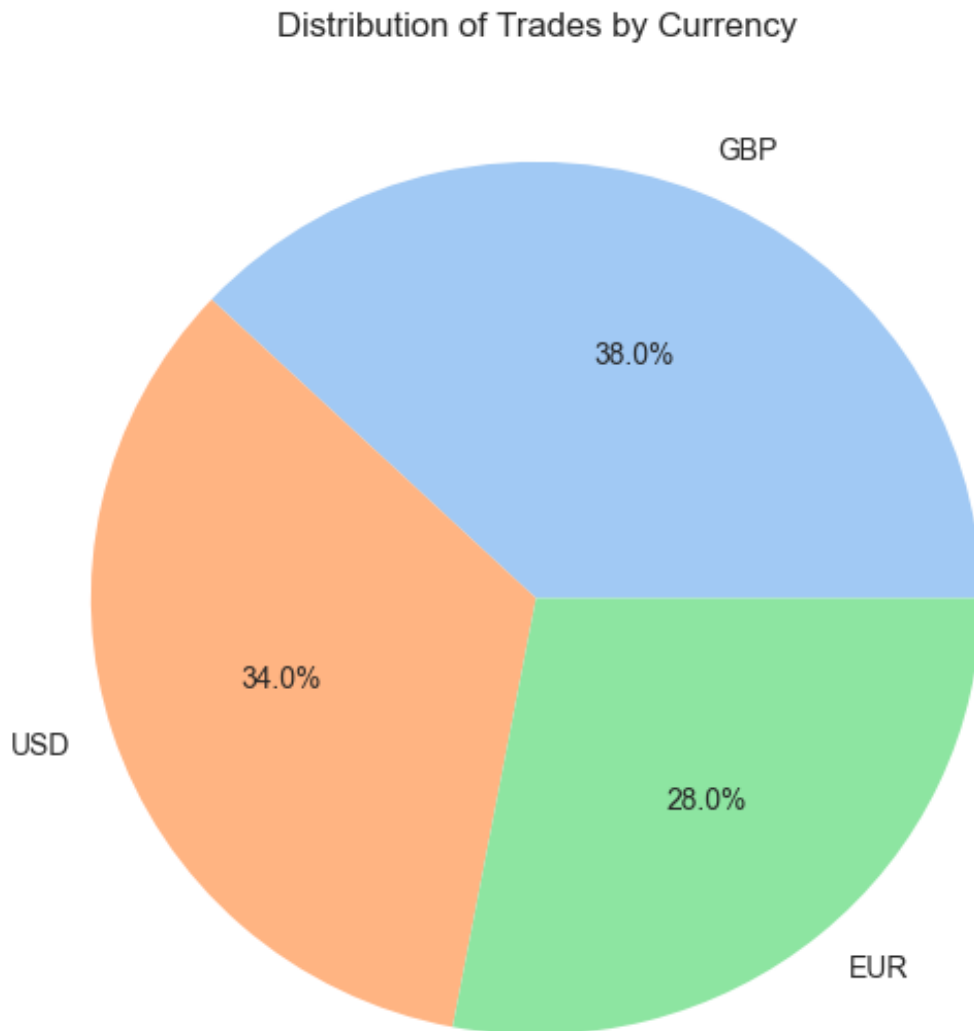
1. Total Volume by Commodity



Graph: Vertical Bar Chart

- Gas has the largest trade volume (>7,400 units), making it the most frequently traded commodity.
- Power is second (~6,800 units), showing it is also a major focus.
- Coal has the lowest (~4,800 units), meaning traders are less active in coal.
- The trend shows energy trading is shifting toward Gas and Power, with Coal losing relevance.
- This suggests market participants prefer cleaner fuels (Gas, Power) over traditional Coal.

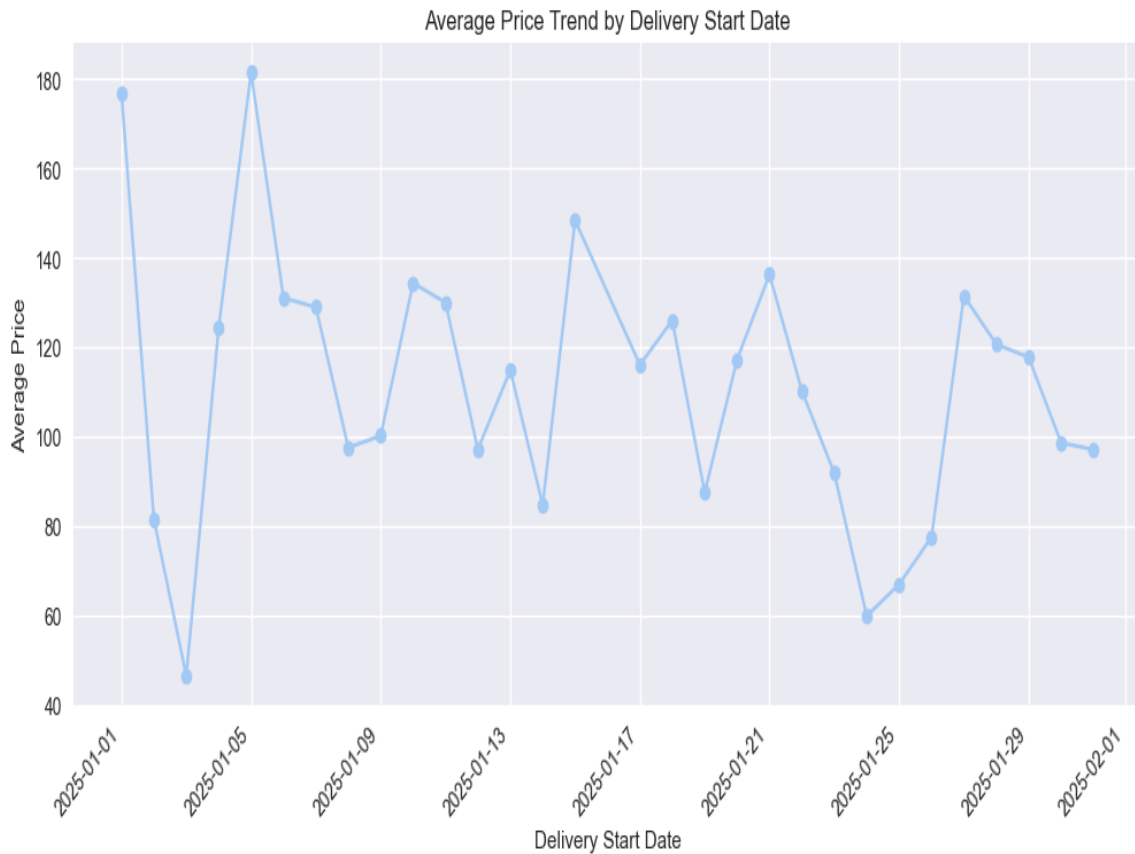
2. Trades by Currency



Graph: Pie Chart

- GBP is the highest (38%), showing strong UK market participation.
- USD is second (34%), reflecting global trading in international markets.
- EUR has 28%, indicating active European energy trading.
- The mix of currencies shows exposure to both domestic and international trades.
- Traders need to consider exchange rate impacts, as trade values vary with currency shifts.

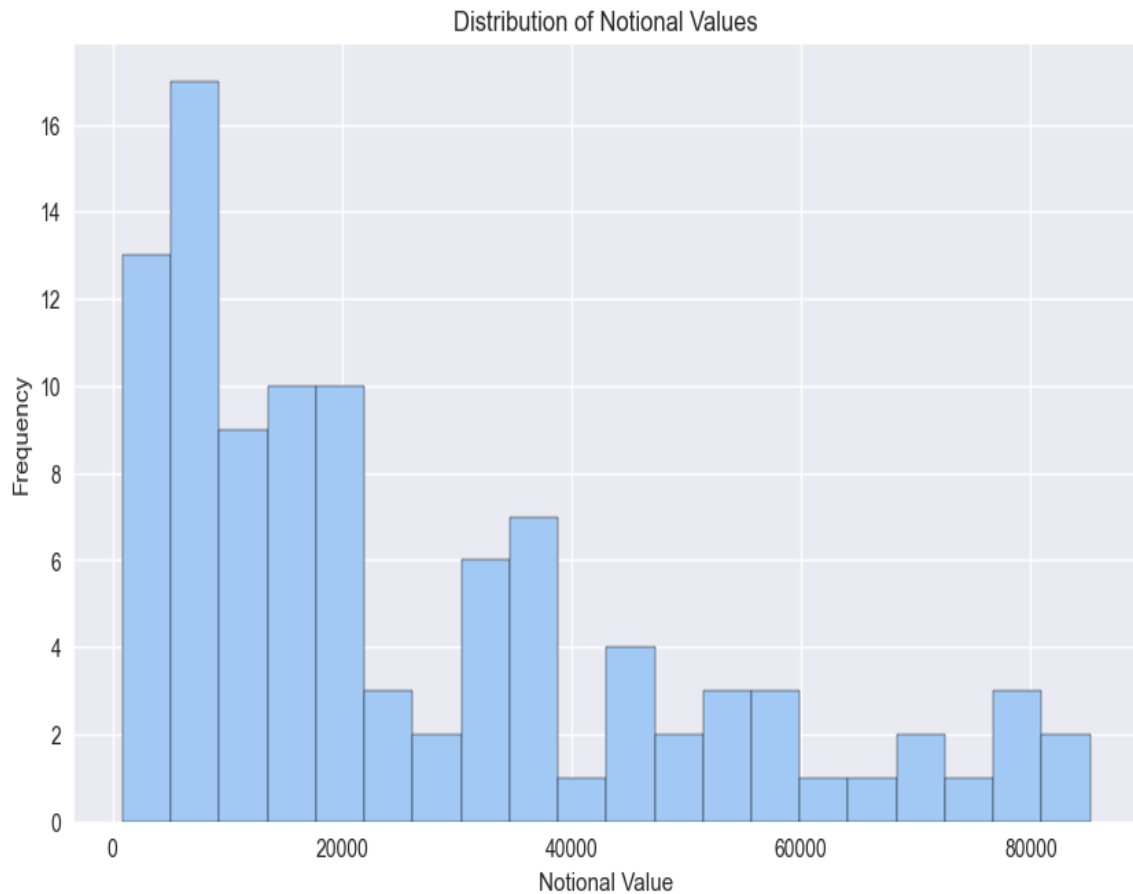
3. Average Price Trend by Delivery Start Date



Graph: Line Chart

- Prices showed huge volatility in early January, spiking above 180 (Jan 5) and falling near 45 (Jan 4).
- After mid-January, prices stabilized but continued to fluctuate.
- The sudden swings may be due to seasonal demand (winter usage) or supply disruptions.
- Traders faced high risk in early trades, requiring close monitoring.
- Later, more stable prices meant reduced risk but still no clear steady trend.

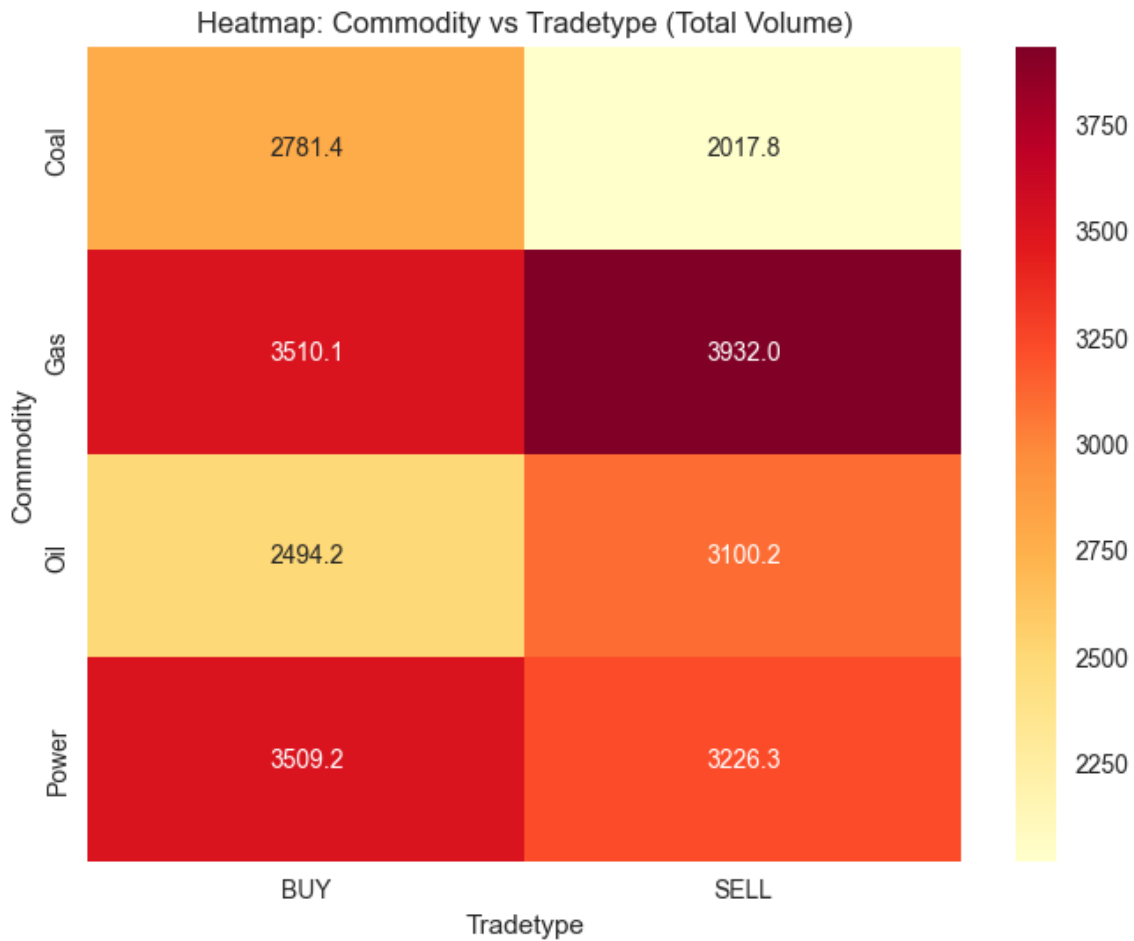
4. Distribution of Notional Values



Graph: Histogram

- Most trades fall in the 5,000–20,000 range, showing preference for medium-sized deals.
- Very few large trades (>70,000) exist, making them extreme outliers.
- Distribution is skewed → majority of trades are small/medium, only a handful are very large.
- These outliers can cause big gains or big losses depending on market moves.
- This shows trading activity is usually moderate, but occasionally traders make very high-value deals.

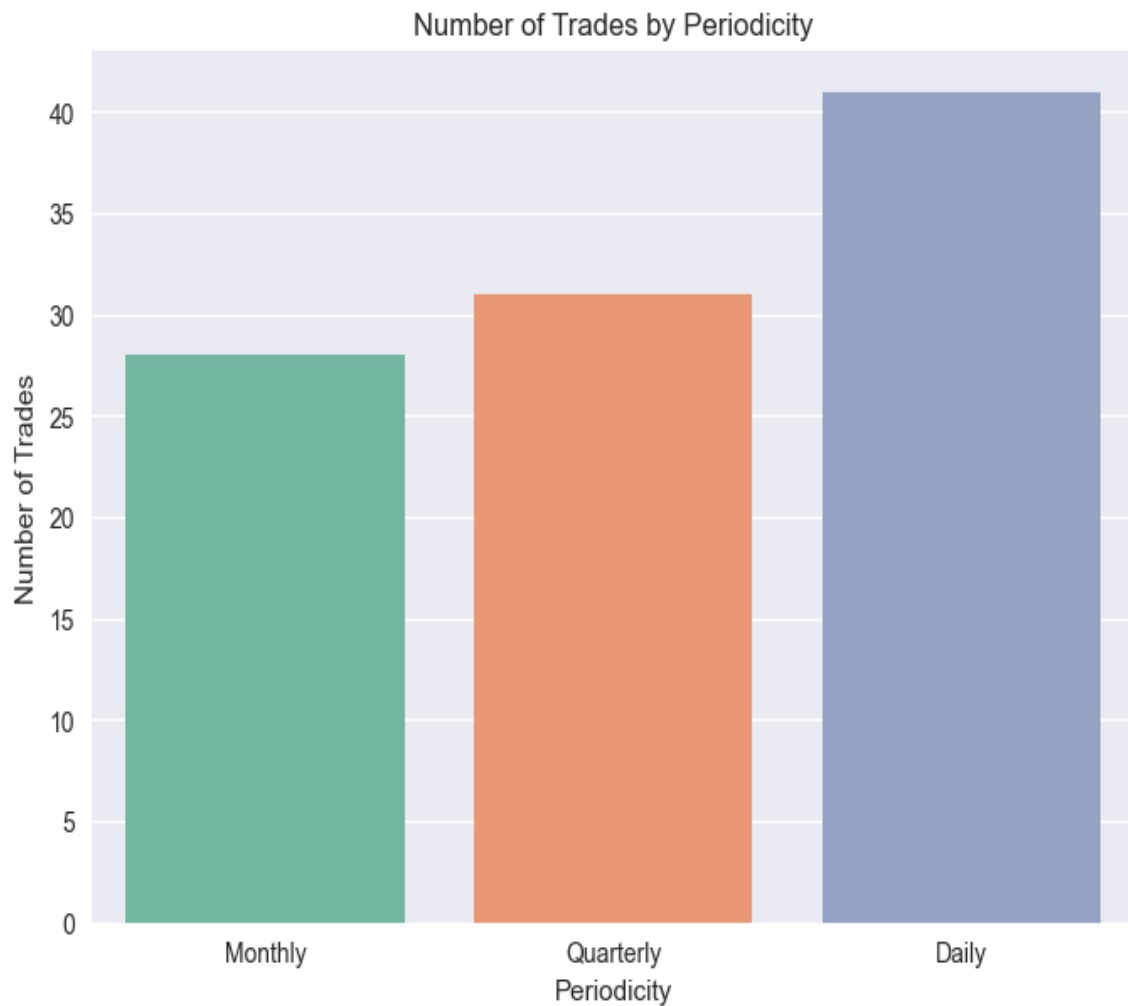
5. Commodity vs Trade Type (Heatmap)



Graph: Heatmap

- Gas SELL trades are the highest (3,932) → Gas dominates sell-side trading.
- Power has a balanced BUY and SELL, showing steady activity in both directions.
- Coal SELL trades are lowest, reflecting less demand for coal-related deals.
- The mix suggests Gas is the most dynamic market, Power is stable, and Coal is declining.
- Traders are actively exiting Gas positions (more sells than buys).

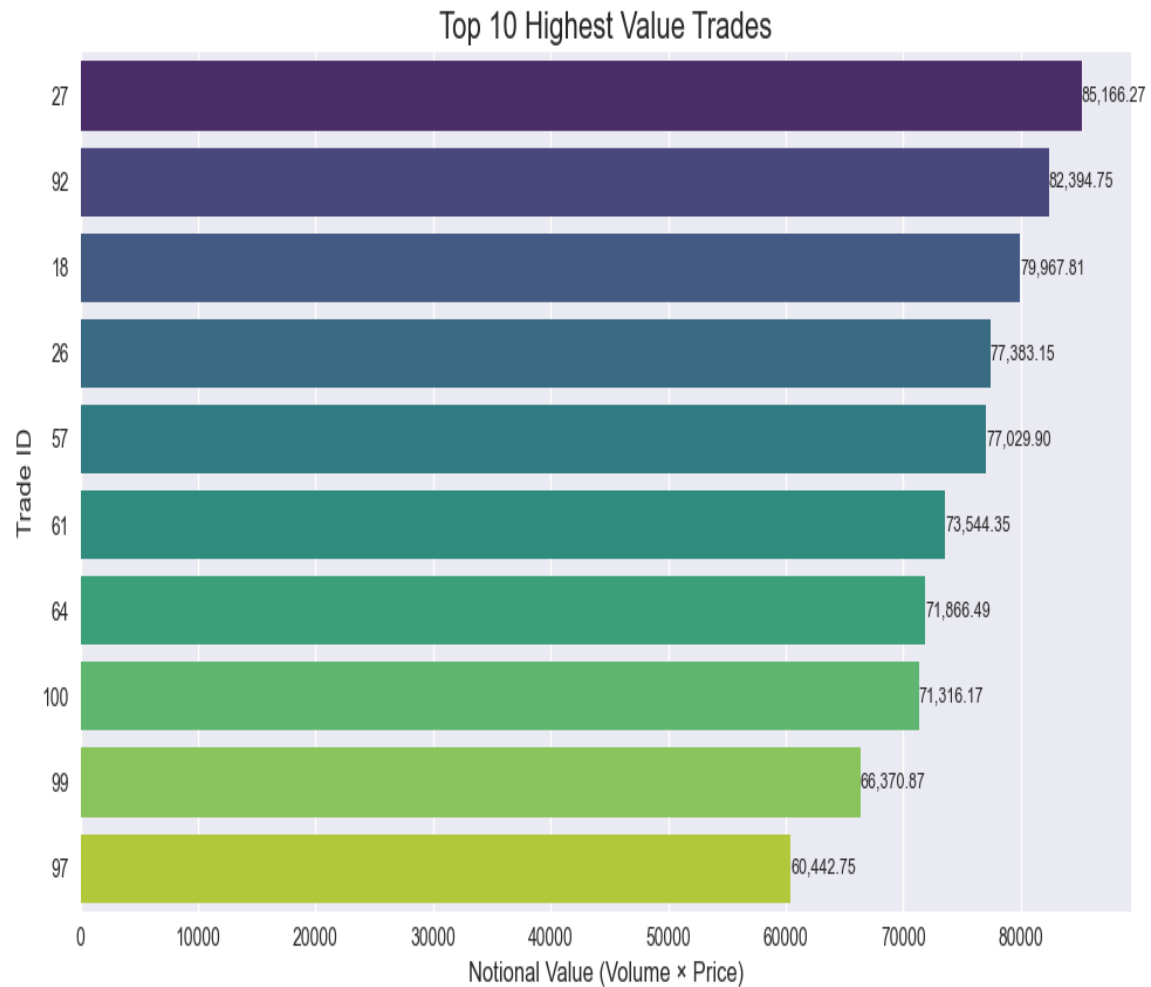
6. Periodicity Analysis



Graph: Bar Chart

- Daily trades (41) are most common, showing focus on short-term trading.
- Quarterly trades (31) show some longer-term deals.
- Monthly trades (28) are slightly fewer than quarterly.
- This indicates short-term trading dominates but medium/long-term contracts are still important.

7. Top 10 Highest Value Trades



Graph: Horizontal Bar Chart

- The largest trade (ID 27) is valued at 85,166.27, far above average.
- Trade ID 92 (82,394.75) and Trade ID 18 (79,967.81) are also extremely large.
- These 3 trades alone are far bigger than the rest of the dataset.
- Such large trades are critical to watch, as they strongly influence the overall trade dataset.