Volatility Analysis

"Show coins with 24h price changes 2x greater than the average volatility, ordered by market cap"

Market Dominance

"Calculate each coin's percentage contribution to total market cap, including a cumulative dominance column"

Volume Anomalies

"Find coins where 24h volume exceeds 20% of their market cap, indicating unusual trading activity"

1. **Top 10 by Market Cap:**  
   List the top 10 crypto coins with the highest USD market capitalization (usd\_market\_cap), ordered from highest to lowest.
2. **Average Trading Volume:**  
   Calculate the average 24-hour trading volume (usd\_24h\_vol) across all coins.
3. **Extreme 24h Change:**  
   Identify the coin with the highest positive 24-hour percentage change (usd\_24h\_change) and the coin with the lowest (most negative) 24-hour percentage change.
4. **Market Cap to Volume Ratio:**  
   For each coin, calculate the ratio of usd\_market\_cap to usd\_24h\_vol and order the results in descending order by this ratio.
5. **Ranking by Market Cap:**  
   Use a window function to rank the coins by usd\_market\_cap and display each coin’s name along with its rank.
6. **Count of Significant Declines:**  
   Count how many coins experienced a 24-hour percentage change (usd\_24h\_change) of less than -5%.
7. **Daily Average Market Cap:**  
   Extract the date from last\_updated\_at and compute the average usd\_market\_cap for coins updated on each distinct date.
8. **Max Market Cap per Volume Quartile:**  
   Divide the coins into quartiles based on their usd\_24h\_vol and then, for each quartile, find the coin with the maximum usd\_market\_cap.
9. **Coin’s Market Cap Percentage:**  
   Calculate the total usd\_market\_cap and usd\_24h\_vol for all coins, then compute the percentage of the total market cap that each coin contributes.