

# Meta Stock Price Technical Indicators (10 Years)



The dataset holds the following information:

- **Date:** The date that the data is recorded .
- **Open:** A stock's opening price on a given trading day.
- **High:** The price at which a stock reached its peak during the trading session.
- **Low:** The most affordable price a stock made throughout the day's trading.
- **Close:** A stock's closing price on a given trading day. This is the closing price used to determine the stock's daily value.
- **Volume** is the total number of shares or contracts that are exchanged in a market or securities over a specific time frame, often one trading day.

	date	open	high	low	close	volume
0	2014-01-02	54.830002	55.220001	54.189999	54.709999	43195500
1	2014-01-03	55.020000	55.650002	54.529999	54.560001	38246200
2	2014-01-06	54.419998	57.259998	54.049999	57.200001	68852600
3	2014-01-07	57.700001	58.549999	57.220001	57.919998	77207400
4	2014-01-08	57.599998	58.410000	57.230000	58.230000	56682400
5	2014-01-09	58.650002	58.959999	56.650002	57.220001	92253300
6	2014-01-10	57.130001	58.299999	57.060001	57.939999	42449500
7	2014-01-13	57.910000	58.250000	55.380001	55.910000	63010900

We use SQL to answer the following questions:

- The average closing price for each year.
- The highest closing price for each month.
- The lowest volume traded over the entire dataset
- **RSI\_7** (7-day Relative Strength Index). A momentum indicator measuring the magnitude of recent price changes to evaluate overbought or oversold conditions in the price of a stock.
- **RSI\_14** (14-day Relative Strength Index). Similar to RSI\_7 but calculated over 14 days.
- **CCI\_7** (7-day Commodity Channel Index). A technical indicator that measures the difference between the current price and the historical average price. When calculated over 7 days, it gives short-term trends.
- The day with the highest CCI\_7
- **CCI\_14** (14-day Commodity Channel Index). Like CCI\_7, but over 14 days for more medium-term trends.
- **SMA\_50** (Simple Moving Average with 50 days). It takes the average of a stock's closing prices over the previous fifty days.
- **EMA\_50** (50-day Exponential Moving Average) similar to SMA\_50, but more sensitive to fresh data because it places greater emphasis on recent prices.