Query With Outputs

```
--This query gives the daily price change
SELECT
    [Date],
    [Open Price],
    [Close Price],
    ([Close Price] - [Open Price]) AS Daily_Price_Change
FROM
    suzlon
```

	Date	Total Traded Quantity
1	2022-09-06 00:00:00.000	666232827
2	2022-12-19 00:00:00.000	638219867
3	2022-10-19 00:00:00.000	612128665
4	2022-10-20 00:00:00.000	597335268
5	2022-12-15 00:00:00.000	476242220

```
--This query gives the highest trading vloume
SELECT
        TOP 5
    [Date],
    [Total Traded Quantity]
FROM
    suzlon
ORDER BY
    [Total Traded Quantity] DESC
```

	Date	Open Price	Close Price	Daily_Price_Change
1	2022-03-31 00:00:00.000	9.4	9.15	-0.25
2	2022-04-01 00:00:00.000	9.2	9.45	0.25
3	2022-04-04 00:00:00.000	9.7	9.9	0.200000000000001
4	2022-04-05 00:00:00.000	10.35	10.35	0
5	2022-04-06 00:00:00.000	10.85	10.85	0

--This query gives avg stock price for specific date range

```
SELECT
    AVG([Close Price]) AS Average_Close_Price
FROM
    Suzlon
WHERE
    [Date] BETWEEN '2022-09-01' AND '2022-12-01';
```

	Average_Close_Price
1	8.475

--this query calculates the percentage of delivered quantity to traded quantity for a specific date range

```
SELECT
    [Date],
    ([Deliverable Qty] / [Total Traded Quantity] * 100) AS [% Dly Qt to Traded Qty]
FROM
    suzlon
WHERE
    [Date] BETWEEN '2022-09-01' AND '2022-12-01';
```

	Date	% Dly Qt to Traded Qty
1	2022-09-01 00:00:00.000	27.7575194747517
2	2022-09-02 00:00:00.000	28.1238107524912
3	2022-09-05 00:00:00.000	41.2585119191631
4	2022-09-06 00:00:00.000	24.8762838280258
5	2022-09-07 00:00:00.000	42.8178722754598
6	2022-09-08 00:00:00.000	49.855305540288
7	2022-09-09 00:00:00.000	45.7624030966013
8	2022-09-12 00:00:00.000	38.7787879717806
9	2022-09-13 00:00:00.000	39.9108605463622
10	2022-09-14 00:00:00.000	46.3161902295743
11	2022-09-15 00:00:00.000	39.5951287908455
12	2022-09-16 00:00:00.000	51.1637084886405
13	2022-09-19 00:00:00.000	43.9969310838826
14	2022-09-20 00:00:00.000	44.9882321899919
15	2022-09-21 00:00:00.000	37.132914784873
16	2022-09-22 00:00:00.000	21.0191426880512
17	2022-09-23 00:00:00.000	29.2707650597158

Query executed successfully.

--this query finds the dates with the highest and lowest closing prices:

```
SELECT
    [Date],
    [Close Price]
FROM
    suzlon
WHERE
    [Close Price] = (SELECT MAX([Close Price]) FROM suzlon)
    OR
    [Close Price] = (SELECT MIN([Close Price]) FROM suzlon);
```

	Date	Close Price
1	2022-04-08 00:00:00.000	11.95
2	2022-07-28 00:00:00.000	6.1

```
--this query calculates the total turnover for a specific date range:
SELECT
    SUM([Turnover ₹]) AS Total_Turnover
FROM
    suzlon
WHERE
    [Date] BETWEEN '2022-09-01' AND '2022-12-01';
```

	Total_Turnover
1	76184782732.6

```
--this query finds the days with the highest percentage of deliverable quantity to traded quantity:
SELECT TOP 5
    [Date],
    [% Dly Qt to Traded Qty]
FROM
```

```
    suzlon
ORDER BY
    [% Dly Qt to Traded Qty] DESC
```

	Date	% Dly Qt to Traded Qty
1	2022-04-06 00:00:00.000	100
2	2022-04-05 00:00:00.000	100
3	2022-04-04 00:00:00.000	77.63
4	2022-11-24 00:00:00.000	61.61
5	2022-05-27 00:00:00.000	58.03

```
--this query finds the dates where the opening price was lower than the closing price:
SELECT
    [Date],
    [Open Price],
    [Close Price]
FROM
    suzlon
WHERE
    [Open Price] < [Close Price];
```

	Date	Open Price	Close Price
1	2022-04-01 00:00:00.000	9.2	9.45
2	2022-04-04 00:00:00.000	9.7	9.9
3	2022-04-07 00:00:00.000	11.3	11.75
4	2022-04-12 00:00:00.000	11	11.35
5	2022-04-20 00:00:00.000	10.6	10.75
6	2022-04-21 00:00:00.000	11	11.1
7	2022-05-02 00:00:00.000	9.75	10
8	2022-05-06 00:00:00.000	9.6	9.75
9	2022-05-13 00:00:00.000	8.75	8.8
10	2022-05-17 00:00:00.000	9.05	9.5
11	2022-05-30 00:00:00.000	7.8	7.95
12	2022-05-31 00:00:00.000	8.05	8.55
13	2022-06-01 00:00:00.000	8.9	9.4
14	2022-06-02 00:00:00.000	9.35	9.8
15	2022-06-07 00:00:00.000	7.95	8.1
16	2022-06-08 00:00:00.000	8.05	8.15
17	2022-06-09 00:00:00.000	8.1	8.9

Query executed successfully.

```
--this query calculates the percentage change in the closing price from the previous day:
SELECT
```

```
    [Date],
    [Close Price],
    LAG([Close Price]) OVER (ORDER BY [Date]) AS Previous_Close_Price,
    (([Close Price] - LAG([Close Price]) OVER (ORDER BY [Date])) / LAG([Close Price]) OVER (ORDER BY [Date])) * 100 AS Percentage_Change
FROM
    suzlon;
```

	Date	Close Price	Previous_Close_Price	Percentage_Change
1	2022-03-31 00:00:00.000	9.15	NULL	NULL
2	2022-04-01 00:00:00.000	9.45	9.15	3.27868852459015
3	2022-04-04 00:00:00.000	9.9	9.45	4.76190476190477
4	2022-04-05 00:00:00.000	10.35	9.9	4.54545454545454
5	2022-04-06 00:00:00.000	10.85	10.35	4.83091787439614
6	2022-04-07 00:00:00.000	11.75	10.85	8.29493087557604
7	2022-04-08 00:00:00.000	11.95	11.75	1.70212765957446
8	2022-04-11 00:00:00.000	11.1	11.95	-7.11297071129707
9	2022-04-12 00:00:00.000	11.35	11.1	2.25225225225225
10	2022-04-13 00:00:00.000	11.2	11.35	-1.3215859030837
11	2022-04-18 00:00:00.000	11	11.2	-1.78571428571428
12	2022-04-19 00:00:00.000	10.65	11	-3.18181818181818
13	2022-04-20 00:00:00.000	10.75	10.65	0.938967136150231
14	2022-04-21 00:00:00.000	11.1	10.75	3.25581395348837
15	2022-04-22 00:00:00.000	11	11.1	-0.900900900900898
16	2022-04-25 00:00:00.000	10.65	11	-3.18181818181818
17	2022-04-26 00:00:00.000	10.7	10.65	0.469483568075107

Query executed successfully.

```
--Calculate the total traded quantity and turnover for the top 5 trading days
SELECT TOP 5
    [Date],
    [Total Traded Quantity],
    [Turnover ₹]
FROM
    suzlon
ORDER BY
    [Total Traded Quantity] DESC;
```

	Date	Total Traded Quantity	Turnover ₹
1	2022-09-06 00:00:00.000	666232827	7212657055.05
2	2022-12-19 00:00:00.000	638219867	7398115949.25
3	2022-10-19 00:00:00.000	612128665	5316831043
4	2022-10-20 00:00:00.000	597335268	5275872608.1
5	2022-12-15 00:00:00.000	476242220	5239824211.3

--this query finds the days with the highest and lowest intraday price range:

```
SELECT TOP 5
    [Date],
    ([High Price] - [Low Price]) AS Intraday_Price_Range
FROM
    suzlon
ORDER BY
    Intraday_Price_Range DESC
```

	Date	Intraday_Price_Range
1	2022-09-06 00:00:00.000	1.95
2	2022-12-21 00:00:00.000	1.9
3	2022-10-19 00:00:00.000	1.5
4	2022-09-05 00:00:00.000	1.5
5	2022-10-20 00:00:00.000	1.5

-- this query calculates the 7-day rolling average of the closing price:

```
SELECT
    [Date],
    [Close Price],
    AVG([Close Price]) OVER (ORDER BY [Date] ROWS BETWEEN 6 PRECEDING AND CURRENT ROW) AS
'7_Day_Rolling_Avg_Close'
FROM
    suzlon
```

	Date	Close Price	7_Day_Rolling_Avg_Close
1	2022-03-31 00:00:00.000	9.15	9.15
2	2022-04-01 00:00:00.000	9.45	9.3
3	2022-04-04 00:00:00.000	9.9	9.5
4	2022-04-05 00:00:00.000	10.35	9.7125
5	2022-04-06 00:00:00.000	10.85	9.94
6	2022-04-07 00:00:00.000	11.75	10.2416666666667
7	2022-04-08 00:00:00.000	11.95	10.4857142857143
8	2022-04-11 00:00:00.000	11.1	10.7642857142857
9	2022-04-12 00:00:00.000	11.35	11.0357142857143
10	2022-04-13 00:00:00.000	11.2	11.2214285714286
11	2022-04-18 00:00:00.000	11	11.3142857142857
12	2022-04-19 00:00:00.000	10.65	11.2857142857143
13	2022-04-20 00:00:00.000	10.75	11.1428571428571
14	2022-04-21 00:00:00.000	11.1	11.0214285714286
15	2022-04-22 00:00:00.000	11	11.0071428571429
16	2022-04-25 00:00:00.000	10.65	10.9071428571429
17	2022-04-26 00:00:00.000	10.7	10.8357142857143

Query executed successfully.

--this query finds the dates with the highest and lowest number of trades:

```
SELECT
    [Date],
    [No# of Trades]
FROM
    suzlon
WHERE
    [No# of Trades] = (SELECT MAX([No# of Trades]) FROM suzlon)
    OR
    [No# of Trades] = (SELECT MIN([No# of Trades]) FROM suzlon);
```

	Date	No# of Trades
1	2022-09-06 00:00:00.000	248853
2	2022-10-04 00:00:00.000	1

--this query finds the dates with the highest and lowest turnover per traded quantity:

```
SELECT TOP 5
    [Date],
    ([Turnover ₹] / [Total Traded Quantity]) AS Turnover_Per_Trade
FROM
    suzlon
```

```
ORDER BY
    Turnover_Per_Trade DESC
```

	Date	Turnover_Per_Trade
1	2022-04-08 00:00:00.000	12.0807415636117
2	2022-12-20 00:00:00.000	11.6491169830143
3	2022-12-19 00:00:00.000	11.5917982685581
4	2022-04-11 00:00:00.000	11.5323948081037
5	2022-04-07 00:00:00.000	11.4746572145905

```
--this query calculates the average daily turnover for each year:
SELECT
    YEAR([Date]) AS Year,
    AVG([Turnover ₹]) AS Average_Daily_Turnover
FROM
    suzlon
GROUP BY
    [Date]
ORDER BY
    [Date];
```

	Year	Average_Daily_Turnover
1	2022	185728227.95
2	2022	214653144.7
3	2022	285596590.25
4	2022	69773407.2
5	2022	60044127.85
6	2022	2622537748.7
7	2022	1001144305.95
8	2022	1054407122.55
9	2022	985576069.8
10	2022	428173122.9
11	2022	561726462.95
12	2022	703640802.1
13	2022	285433966.2
14	2022	459648932.5
15	2022	798403004.8
16	2022	521643053.25
17	2022	282491488.05

Query executed successfully.

```
--this query finds the date with the highest total turnover:
SELECT
```

```
    [Date],
    [Turnover ₹]
FROM
    suzlon
WHERE
    [Turnover ₹] = (SELECT MAX([Turnover ₹]) FROM suzlon);
```

	Date	Turnover ₹
1	2022-12-19 00:00:00.000	7398115949.25

```
--this query finds the dates with the highest and lowest closing prices within a specific date range:
SELECT
    [Date],
    [Close Price]
FROM
    suzlon
WHERE
    [Date] BETWEEN '2022-09-01' AND '2022-12-01'
    AND ([Close Price] = (SELECT MAX([Close Price]) FROM suzlon WHERE [Date] BETWEEN '2022-09-01' AND '2022-12-01')
    OR [Close Price] = (SELECT MIN([Close Price]) FROM suzlon WHERE [Date] BETWEEN '2022-09-01' AND '2022-12-01'));
```

	Date	Close Price
1	2022-09-06 00:00:00.000	10.7
2	2022-10-14 00:00:00.000	6.7

```
--this query calculates the 30-day moving average of the closing price:
SELECT
    [Date],
    [Close Price],
    AVG([Close Price]) OVER (ORDER BY [Date] ROWS BETWEEN 29 PRECEDING AND CURRENT ROW) AS '30_Day_Moving_Avg_Close'
```

FROM

suzlon;

	Date	Close Price	30_Day_Moving_Avg_Close
1	2022-03-31 00:00:00.000	9.15	9.15
2	2022-04-01 00:00:00.000	9.45	9.3
3	2022-04-04 00:00:00.000	9.9	9.5
4	2022-04-05 00:00:00.000	10.35	9.7125
5	2022-04-06 00:00:00.000	10.85	9.94
6	2022-04-07 00:00:00.000	11.75	10.2416666666667
7	2022-04-08 00:00:00.000	11.95	10.4857142857143
8	2022-04-11 00:00:00.000	11.1	10.5625
9	2022-04-12 00:00:00.000	11.35	10.65
10	2022-04-13 00:00:00.000	11.2	10.705
11	2022-04-18 00:00:00.000	11	10.7318181818182
12	2022-04-19 00:00:00.000	10.65	10.725
13	2022-04-20 00:00:00.000	10.75	10.7269230769231
14	2022-04-21 00:00:00.000	11.1	10.7535714285714
15	2022-04-22 00:00:00.000	11	10.77
16	2022-04-25 00:00:00.000	10.65	10.7625
17	2022-04-26 00:00:00.000	10.7	10.7588235294118

Query executed successfully.

--this query calculates the daily price change as a percentage of the opening price:

SELECT

[Date],

[Open Price],

[Close Price],

(([Close Price] - [Open Price]) / [Open Price]) * 100 AS Daily_Price_Change_Percentage

FROM

suzlon;

	Date	Open Price	Close Price	Daily_Price_Change_Percentag
1	2022-03-31 00:00:00.000	9.4	9.15	-2.65957446808511
2	2022-04-01 00:00:00.000	9.2	9.45	2.71739130434783
3	2022-04-04 00:00:00.000	9.7	9.9	2.0618556701031
4	2022-04-05 00:00:00.000	10.35	10.35	0
5	2022-04-06 00:00:00.000	10.85	10.85	0
6	2022-04-07 00:00:00.000	11.3	11.75	3.98230088495575
7	2022-04-08 00:00:00.000	12.3	11.95	-2.84552845528456
8	2022-04-11 00:00:00.000	12.05	11.1	-7.8838174273859
9	2022-04-12 00:00:00.000	11	11.35	3.18181818181818
10	2022-04-13 00:00:00.000	11.6	11.2	-3.44827586206897
11	2022-04-18 00:00:00.000	11.1	11	-0.900900900900898
12	2022-04-19 00:00:00.000	11.15	10.65	-4.48430493273543
13	2022-04-20 00:00:00.000	10.6	10.75	1.41509433962264
14	2022-04-21 00:00:00.000	11	11.1	0.909090909090906
15	2022-04-22 00:00:00.000	11	11	0
16	2022-04-25 00:00:00.000	10.9	10.65	-2.29357798165138
17	2022-04-26 00:00:00.000	10.85	10.7	-1.38248847926268

Query executed successfully.

--this query calculates the average closing price for days when the trading volume was above a certain threshold:

```
SELECT
    AVG([Close Price]) AS Average_Close_Price
FROM
    suzlon
WHERE
    [Total Traded Quantity] > 15000;
```

	Average_Close_Price
1	8.68505976095618

--this query determines the days with the highest and lowest trading volume as a percentage of the average volume:

```
SELECT TOP 5
    [Date],
    [Total Traded Quantity],
    [Total Traded Quantity] / AVG([Total Traded Quantity]) OVER () AS Volume_Percentage_of_Average
FROM
    suzlon
ORDER BY
```

Volume_Percentage_of_Average DESC;

	Date	Total Traded Quantity	Volume_Percentage_of_Average
1	2022-09-06 00:00:00.000	666232827	6.87338302953299
2	2022-12-19 00:00:00.000	638219867	6.58437925177259
3	2022-10-19 00:00:00.000	612128665	6.31520184444722
4	2022-10-20 00:00:00.000	597335268	6.16258149947442
5	2022-12-15 00:00:00.000	476242220	4.91329015959028

--this query calculates the average daily turnover for days when the closing price increased:

sql

Copy code

```
SELECT
    AVG([Turnover ₹]) AS Avg_Daily_Turnover_On_Price_Increase
FROM
    suzlon
WHERE
    [Close Price] > [Open Price];
```

	Avg_Daily_Turnover_On_Price_Increase
1	1229100122.3425

--thies query calculates the total number of records (days) in the dataset:

```
SELECT COUNT(*) AS Total_Days FROM suzlon;
```

	Total_Days
1	251

--Find the highest closing price and the date it occurred:

```
SELECT
    MAX([Close Price]) AS Highest_Close_Price
FROM
    suzlon
WHERE
```

[Close Price] = (SELECT MAX([Close Price]) FROM suzlon);

	Highest_Close_Price
1	11.95

--Determine the average trading volume (Total Traded Quantity) for the entire dataset

SELECT AVG([Total Traded Quantity]) AS Average_Trading_Volume FROM suzlon;

	Average_Trading_Volume
1	96929390.3944223

--query to calculate the overall turnover (Total Turnover ₹) for all records:

SELECT SUM([Turnover ₹]) AS Total_Turnover FROM suzlon;

	Total_Turnover
1	222859448751.85