

Report of queries:

SQL File 5*

Limit to 1000 rows

```
6 -- Get the first 5 trading hours with price and volume
7 • SELECT
8     d.datetime,
9     p.open,
10    p.high,
11    p.low,
12    p.close,
13    v.volume
14 FROM
15     price_ohlcv p
16 JOIN
17     datetime_dimension d ON p.datetime = d.datetime
18 JOIN
19     volume_metrics v ON p.datetime = v.datetime
20 ORDER BY
21     d.datetime ASC
22 LIMIT 5;
```

Result Grid

datetime	open	high	low	close	volume
2023-05-16 13:30:00	165.6499938964844	167.5599975585938	164.3500061035156	167.4700012207031	28269977
2023-05-16 14:30:00	167.4499969482422	169.4199981689453	167.1600036621094	168.5800018310547	18020917
2023-05-16 15:30:00	168.5648956298828	169.5184020996094	167.9199981689453	168.4299926757812	11617670
2023-05-16 16:30:00	168.4219970703125	168.9700012207031	167.8549957275391	168.31689453125	9570871
2023-05-16 17:30:00	168.3200988769531	168.8600006103516	166.7599945068359	166.9998931884766	10569064

Result 2 x

Read Only

Result 4 x Read On

```
SQL File 5"
Limit to 1000 rows
73 SELECT
74     d.datetime,
75     p.close,
76     o.bollinger_upper,
77     o.bollinger_lower,
78     v.volume,
79     CASE
80         WHEN p.close > o.bollinger_upper THEN 'Upper Breakout'
81         WHEN p.close < o.bollinger_lower THEN 'Lower Breakout'
82         ELSE 'Within Bands'
83     END AS bollinger_status
84 FROM
85     price_ohlcv p
86 JOIN
87     datetime_dimension d ON p.datetime = d.datetime
88 JOIN
89     oscillators o ON p.datetime = o.datetime
90 JOIN
91     volume_metrics v ON p.datetime = v.datetime
92 WHERE
93     (p.close > o.bollinger_upper OR p.close < o.bollinger_lower)
94     AND v.volume > (SELECT AVG(volume) FROM volume_metrics)
95 ORDER BY
96     v.volume DESC;
```

Result Grid

datetime	close	bollinger_upper	bollinger_lower	volume	bollinger_status
2024-11-06 14:30:00	281.2179870605469	266.6747742313225	233.9630751949471	77672528	Upper Breakout
2024-04-29 13:30:00	185.6100006103516	178.598395092828	155.5901714965275	75090478	Upper Breakout
2024-04-24 13:30:00	164.5829925537109	155.9511047875403	135.4412124121667	73656909	Upper Breakout
2024-07-02 13:30:00	229.4400024414062	221.2269362396734	185.9508637481195	73622009	Upper Breakout
2024-10-24 13:30:00	248.9400024414062	232.9766512059601	202.9091596460907	73391487	Upper Breakout
2024-07-02 13:30:00	244.55000275686038	244.5776100856774	186.15101120480055	71007540	Lower Breakout

Result 5

```
SQL File 6"
Limit to 1000 rows
101 -- Compare morning vs afternoon trading sessions
102 SELECT
103     CASE
104         WHEN HOUR(d.datetime) BETWEEN 9 AND 12 THEN 'Morning (9AM-12PM)'
105         WHEN HOUR(d.datetime) BETWEEN 13 AND 16 THEN 'Afternoon (1PM-4PM)'
106         ELSE 'Other Hours'
107     END AS session,
108     COUNT(*) AS observations,
109     AVG(p.close - p.open) AS avg_price_change,
110     AVG(v.volume) AS avg_volume,
111     AVG(o.rsi) AS avg_rsi
112 FROM
113     price_ohlcv p
114 JOIN
115     datetime_dimension d ON p.datetime = d.datetime
116 JOIN
117     volume_metrics v ON p.datetime = v.datetime
118 JOIN
119     oscillators o ON p.datetime = o.datetime
120 WHERE
121     d.is_weekend = FALSE
122 GROUP BY
123     session
124 ORDER BY
125     avg volume DESC;
```

Result Grid

session	observations	avg_price_change	avg_volume	avg_rsi
Afternoon (1PM-4PM)	1713	-0.017344468668475777	18839745.8004	50.649911270136066
Other Hours	1564	-0.027031266780764847	9410698.9802	50.03903194379238

Result 6

Result Grid	Filter Rows:	Export:	Wrap Cell Contents:
datetime	sma_50	sma_200	signal_type
2023-05-19 15:30:00	170.6542840576172	170.4941276550293	Golden Cross
2023-09-05 16:30:00	245.943062121582	245.9139122009277	Golden Cross
2023-10-11 16:30:00	257.3438330078125	257.2807870483758	Golden Cross
2023-11-17 17:30:00	226.8158148193359	226.7799027618408	Golden Cross
2024-02-26 18:30:00	195.3611560058594	195.0285019683838	Golden Cross
2024-05-01 16:30:00	168.7158892822266	168.1269807219238	Golden Cross
2024-06-14 14:30:00	176.700237121582	176.5853806707871	Golden Cross
2024-08-27 17:30:00	217.7453262329101	217.7342997741699	Golden Cross
2024-09-05 15:30:00	212.8137750244141	212.6336323547363	Golden Cross