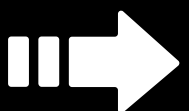


OPERATION SINDOOR



**Pakistan Stock Exchange (PSX) Crash
During Operation Sindoor Using SQL**

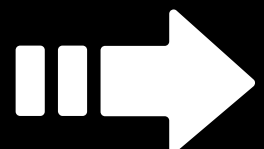
REAL TIME SQL CASE STUDY WITH REAL DATA SET



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Tables Used :

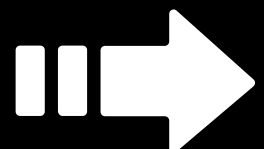
1. STOCK_INDICES
2. INDEX_MOVEMENTS
3. MARKET_EVENTS
4. EVENT_IMPACTS
5. ANALYSTS
6. ANALYST_COMMENTS



1. FIND THE PERCENTAGE CHANGE IN THE KSE-100 INDEX BETWEEN OPENING AND CLOSING VALUES ?

```
● ● ● Pakistan Stock Exchange (PSX) During Operation Sindoor Using SQL

SELECT
    name AS index_name,
    ROUND(((closing_value - opening_value) / opening_value) * 100, 2) AS
percent_change
FROM
    stock_indices si
JOIN
    index_movements im ON si.index_id = im.index_id
WHERE
    si.name = 'KSE-100' AND movement_date = '2025-05-14';
```

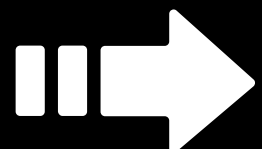


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OUTPUT

Query #1 Execution time: 1.51ms

index_name	percent_change
KSE-100	-5.78

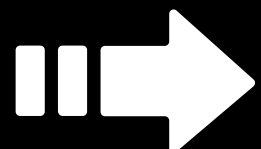


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2. List all analysts who commented on the event before 11:00 AM ?

● ● ● Pakistan Stock Exchange (PSX) During Operation Sindoor Us

```
SELECT DISTINCT
    a.name,
    a.organization
FROM
    analyst_comments ac
JOIN
    analysts a ON ac.analyst_id = a.analyst_id
WHERE
    ac.event_id = 1 AND ac.comment_time < '11:00:00';
```

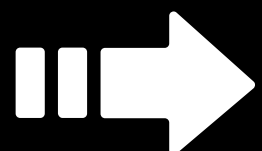


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OUTPUT

Query #2 Execution time: 0.79ms

name	organization
Fatima Bucha	AKD Securities
Shahbaz Ashraf	Frim Ventures

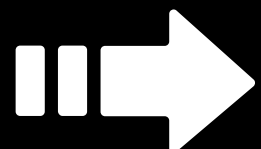


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3. FIND A FULL EVENT TIMELINE: OPENING, HIGH, LOW, AND CLOSE FOR THE DAY ?

```
● ● ● Pakistan Stock Exchange (PSX) During Operation Sindoor Using SQL

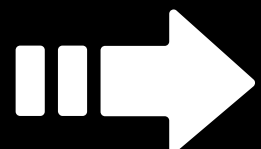
SELECT
    si.name AS index_name,
    im.movement_date,
    im.opening_value,
    im.highest_value,
    im.lowest_value,
    im.closing_value
FROM
    stock_indices si
JOIN
    index_movements im ON si.index_id = im.index_id
WHERE
    si.name = 'KSE-100' AND im.movement_date = '2025-05-14';
```



OUTPUT

Query #3 Execution time: 0.52ms

index_name	movement_date	opening_value	highest_value	lowest_value	closing_value
KSE-100	2025-05-14	113568.50	113568.50	107007.68	107007.68

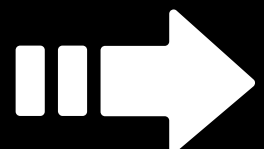


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4. CALCULATE HOW MUCH THE INDEX
WOULD HAVE RECOVERED IF IT HAD
CLOSED AT THE INTRADAY HIGH
(112,457.37) ?

Pakistan Stock Exchange (PSX) During Operation Sindoor Using SQL

```
SELECT  
    113568.50 - 112457.37 AS opening_to_intraday_high,  
    ROUND((((112457.37 - 113568.50) / 113568.50) * 100, 2) AS  
potential_recovery_percent
```

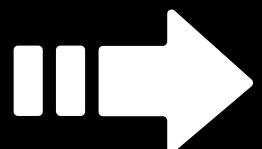


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OUTPUT

Query #4 Execution time: 0.13ms

opening_to_intraday_high	potential_recovery_percent
1111.13	-0.98

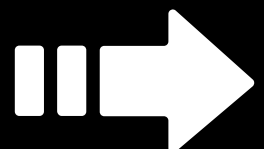


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5. IDENTIFY EVENTS THAT CAUSED MORE THAN 5% DROP IN PSX ?

● ● ● Pakistan Stock Exchange (PSX) During Operation Sindoor Using SC

```
SELECT
    me.event_name,
    im.intraday_drop_percent,
    me.event_date
FROM
    market_events me
JOIN
    event_impacts ei ON me.event_id = ei.event_id
JOIN
    index_movements im ON ei.movement_id = im.movement_id
WHERE
    im.intraday_drop_percent > 5 AND ei.index_id = 1;
```

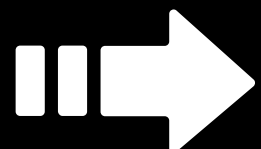


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OUTPUT

Query #5 Execution time: 0.85ms

event_name	intraday_drop_percent	event_date
Operation Sindoor	5.78	2025-05-14



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