

# DerivInsight - Query Reference Guide

## Natural Language to SQL Mapping

This document contains sample queries organized by domain. Each query shows:

- **NL Query:** What the user might ask
  - **SQL:** The corresponding database query
  - **Chart:** Recommended visualization
- 

## ● COMPLIANCE QUERIES

### 1. KYC Status Overview

**NL:** "Show me KYC status breakdown"

```
sql
SELECT
    kyc_status,
    COUNT(*) as count,
    ROUND(COUNT(*) * 100.0 / (SELECT COUNT(*) FROM users), 1) as percentage
FROM users
GROUP BY kyc_status
ORDER BY count DESC;
```

**Chart:** Pie Chart

---

### 2. Pending KYC Verifications

**NL:** "Show all pending KYC verifications"

```
sql
```

```

SELECT
    user_id,
    full_name,
    email,
    country,
    created_at,
    JULIANDAY('now') - JULIANDAY(created_at) as days_pending
FROM users
WHERE kyc_status = 'PENDING'
ORDER BY created_at ASC;

```

**Chart:** Table

---

### 3. High-Risk Users Needing Attention

**NL:** "List high-risk users with incomplete documentation"

```

sql

SELECT
    u.user_id,
    u.full_name,
    u.country,
    u.risk_level,
    u.risk_score,
    u.kyc_status,
    u.is_pep,
    COUNT(a.alert_id) as open_alerts
FROM users u
LEFT JOIN alerts a ON u.user_id = a.user_id AND a.status = 'OPEN'
WHERE u.risk_level = 'HIGH'
GROUP BY u.user_id
ORDER BY u.risk_score DESC, open_alerts DESC;

```

**Chart:** Table

---

### 4. Flagged Transactions Over Threshold

**NL:** "Show flagged transactions over \$50,000 in last 30 days"

```

sql

```

```

SELECT
    t.txn_id,
    t.user_id,
    u.full_name,
    t.amount_usd,
    t.txn_type,
    t.flag_reason,
    t.created_at
FROM transactions t
JOIN users u ON t.user_id = u.user_id
WHERE t.status = 'FLAGGED'
    AND t.amount_usd > 50000
    AND t.created_at >= datetime('now', '-30 days')
ORDER BY t.amount_usd DESC;

```

**Chart:** Table

---

## 5. Transaction Volume by KYC Status

**NL:** "Transaction volume by KYC status"

```

sql

SELECT
    u.kyc_status,
    COUNT(t.txn_id) as txn_count,
    ROUND(SUM(t.amount_usd), 2) as total_volume,
    ROUND(AVG(t.amount_usd), 2) as avg_amount
FROM users u
JOIN transactions t ON u.user_id = t.user_id
GROUP BY u.kyc_status
ORDER BY total_volume DESC;

```

**Chart:** Bar Chart

---

## 6. Users from High-Risk Jurisdictions

**NL:** "Users from FATF high-risk countries"

```
sql
```

```

SELECT
    u.user_id,
    u.full_name,
    u.country,
    u.risk_level,
    u.kyc_status,
    COUNT(t.txn_id) as txn_count,
    COALESCE(SUM(t.amount_usd), 0) as total_volume
FROM users u
LEFT JOIN transactions t ON u.user_id = t.user_id
WHERE u.country IN ('AF', 'IR', 'KP', 'SY', 'YE', 'MM', 'PK')
GROUP BY u.user_id
ORDER BY total_volume DESC;

```

**Chart:** Table

---

## 7. Expired KYC Documents

**NL:** "Users with expired KYC documents"

```

sql
SELECT
    user_id,
    full_name,
    email,
    country,
    kyc_expiry_date,
    JULIANDAY('now') - JULIANDAY(kyc_expiry_date) as days_expired
FROM users
WHERE kyc_status = 'EXPIRED'
    OR (kyc_expiry_date IS NOT NULL AND kyc_expiry_date < date('now'))
ORDER BY kyc_expiry_date ASC;

```

**Chart:** Table

---

## 8. PEP (Politically Exposed Persons) Activity

**NL:** "Show all PEP accounts and their activity"

```

sql

```

```

SELECT
    u.user_id,
    u.full_name,
    u.country,
    u.risk_score,
    COUNT(t.txn_id) as txn_count,
    COALESCE(SUM(t.amount_usd), 0) as total_volume,
    MAX(t.created_at) as last_activity
FROM users u
LEFT JOIN transactions t ON u.user_id = t.user_id
WHERE u.is_pep = 1
GROUP BY u.user_id
ORDER BY total_volume DESC;

```

**Chart:** Table

---

## 9. Structuring Detection (Multiple transactions just below threshold)

**NL:** "Detect potential structuring - transactions just below \$10,000"

```

sql

SELECT
    user_id,
    COUNT(*) as txn_count,
    SUM(amount_usd) as total_amount,
    GROUP_CONCAT(txn_id) as transaction_ids
FROM transactions
WHERE amount_usd BETWEEN 9000 AND 9999
    AND txn_type IN ('DEPOSIT', 'WITHDRAWAL')
    AND created_at >= datetime('now', '-7 days')
GROUP BY user_id
HAVING txn_count >= 3
ORDER BY txn_count DESC;

```

**Chart:** Table

---

## 10. Daily Compliance Summary Report

**NL:** "Daily compliance report summary"

sql

```
SELECT
    DATE(t.created_at) as date,
    COUNT(*) as total_txns,
    SUM(CASE WHEN t.status = 'FLAGGED' THEN 1 ELSE 0 END) as flagged_txns,
    SUM(CASE WHEN t.amount_usd > 50000 THEN 1 ELSE 0 END) as large_txns,
    ROUND(SUM(t.amount_usd), 2) as total_volume,
    COUNT(DISTINCT t.user_id) as unique_users
FROM transactions t
WHERE t.created_at >= datetime('now', '-30 days')
GROUP BY DATE(t.created_at)
ORDER BY date DESC;
```

**Chart:** Line Chart (trend) or Table

---

## ● SECURITY QUERIES

### 11. Failed Login Attempts (Last 24 Hours)

NL: "Failed login attempts in last 24 hours"

sql

```
SELECT
    country,
    COUNT(*) as failed_attempts,
    COUNT(DISTINCT ip_address) as unique_ips,
    COUNT(DISTINCT user_id) as affected_users
FROM login_events
WHERE status = 'FAILED'
    AND created_at >= datetime('now', '-24 hours')
GROUP BY country
ORDER BY failed_attempts DESC;
```

**Chart:** Bar Chart

---

### 12. Suspicious IPs (Multiple Accounts)

NL: "Suspicious IP addresses with multiple accounts"

sql

```
SELECT
    ip_address,
    COUNT(DISTINCT user_id) as unique_users,
    COUNT(*) as total_attempts,
    GROUP_CONCAT(DISTINCT user_id) as user_ids,
    MAX(created_at) as last_seen
FROM login_events
WHERE user_id IS NOT NULL
GROUP BY ip_address
HAVING unique_users > 1
ORDER BY unique_users DESC
LIMIT 20;
```

**Chart:** Table

---

### 13. Blocked Login Attempts by Country

**NL:** "Blocked login attempts by country"

```
sql
SELECT
    country,
    COUNT(*) as blocked_count,
    COUNT(DISTINCT ip_address) as unique_ips
FROM login_events
WHERE status = 'BLOCKED'
GROUP BY country
ORDER BY blocked_count DESC;
```

**Chart:** Bar Chart

---

### 14. Failed Auth Spike Detection

**NL:** "Users with more than 5 failed logins in last hour"

```
sql
```

```
SELECT
    user_id,
    email_attempted,
    COUNT(*) as failed_attempts,
    COUNT(DISTINCT ip_address) as unique_ips,
    MIN(created_at) as first_attempt,
    MAX(created_at) as last_attempt
FROM login_events
WHERE status = 'FAILED'
    AND created_at >= datetime('now', '-1 hour')
GROUP BY user_id
HAVING failed_attempts >= 5
ORDER BY failed_attempts DESC;
```

**Chart:** Table

---

## 15. New Geographic Logins

**NL:** "Users logging in from new countries (not seen in 30 days)"

sql

```

WITH recent_logins AS (
    SELECT DISTINCT user_id, country
    FROM login_events
    WHERE status = 'SUCCESS'
        AND created_at >= datetime('now', '-1 day')
),
historical_countries AS (
    SELECT DISTINCT user_id, country
    FROM login_events
    WHERE status = 'SUCCESS'
        AND created_at < datetime('now', '-1 day')
        AND created_at >= datetime('now', '-30 days')
)
SELECT
    r.user_id,
    r.country as new_country,
    u.full_name
FROM recent_logins r
JOIN users u ON r.user_id = u.user_id
WHERE NOT EXISTS (
    SELECT 1 FROM historical_countries h
    WHERE h.user_id = r.user_id AND h.country = r.country
);

```

## Chart: Table

---

### 16. Off-Hours Trading Activity

NL: "Off-hours trading activity (outside 8AM-8PM)"

sql

```

SELECT
    user_id,
    COUNT(*) AS off_hours_txns,
    SUM(amount_usd) AS total_volume,
    GROUP_CONCAT(DISTINCT strftime('%H', created_at)) AS hours_active
FROM transactions
WHERE txn_type = 'TRADE'
    AND (CAST(strftime('%H', created_at) AS INTEGER) < 8
        OR CAST(strftime('%H', created_at) AS INTEGER) >= 20)
    AND created_at >= datetime('now', '-7 days')
GROUP BY user_id
HAVING off_hours_txns >= 3
ORDER BY off_hours_txns DESC;

```

**Chart:** Table

---

## 17. Device Type Distribution

**NL:** "Login attempts by device type"

```

sql
SELECT
    device_type,
    COUNT(*) AS total_attempts,
    SUM(CASE WHEN status = 'SUCCESS' THEN 1 ELSE 0 END) AS successful,
    SUM(CASE WHEN status = 'FAILED' THEN 1 ELSE 0 END) AS failed,
    ROUND(SUM(CASE WHEN status = 'SUCCESS' THEN 1 ELSE 0 END) * 100.0 / COUNT(*), 1) AS success_rate
FROM login_events
GROUP BY device_type
ORDER BY total_attempts DESC;

```

**Chart:** Pie Chart

---

## 18. Account Takeover Risk Indicators

**NL:** "Account takeover risk indicators"

```
sql
```

```

SELECT
    l.user_id,
    u.full_name,
    u.email,
    COUNT(DISTINCT l.ip_address) AS unique_ips_24h,
    COUNT(DISTINCT l.country) AS unique_countries_24h,
    COUNT(DISTINCT l.device_fingerprint) AS unique_devices_24h,
    SUM(CASE WHEN l.status = 'FAILED' THEN 1 ELSE 0 END) AS failed_attempts
FROM login_events l
JOIN users u ON l.user_id = u.user_id
WHERE l.created_at >= datetime('now', '-24 hours')
GROUP BY l.user_id
HAVING unique_ips_24h > 3 OR unique_countries_24h > 1 OR failed_attempts > 3
ORDER BY unique_ips_24h DESC;

```

**Chart:** Table

---

## 19. Open Security Alerts by Severity

NL: "Open security alerts by severity"

```

sql
SELECT
    severity,
    COUNT(*) AS alert_count,
    GROUP_CONCAT(DISTINCT rule_name) AS rules_triggered
FROM alerts
WHERE status IN ('OPEN', 'INVESTIGATING')
GROUP BY severity
ORDER BY
    CASE severity
        WHEN 'CRITICAL' THEN 1
        WHEN 'HIGH' THEN 2
        WHEN 'MEDIUM' THEN 3
        ELSE 4
    END;

```

**Chart:** Bar Chart

---

## 20. Velocity Alert Detection

**NL:** "Users exceeding trade velocity limits (>20 trades in 5 min)"

```
sql

SELECT
    user_id,
    COUNT(*) as trade_count,
    MIN(created_at) as window_start,
    MAX(created_at) as window_end,
    SUM(amount_usd) as total_volume
FROM transactions
WHERE txn_type = 'TRADE'
    AND created_at >= datetime('now', '-1 hour')
GROUP BY user_id, strftime('%Y-%m-%d %H', created_at), CAST(strftime('%M', created_at) AS INTEGER) / 5
HAVING trade_count > 20
ORDER BY trade_count DESC;
```

**Chart:** Table

---

## ● OPERATIONS QUERIES

### 21. Daily Transaction Volume Trend

**NL:** "Daily transaction volume trend"

```
sql

SELECT
    DATE(created_at) as date,
    COUNT(*) as txn_count,
    ROUND(SUM(amount_usd), 2) as total_volume,
    ROUND(AVG(amount_usd), 2) as avg_amount
FROM transactions
WHERE created_at >= datetime('now', '-30 days')
GROUP BY DATE(created_at)
ORDER BY date ASC;
```

**Chart:** Line Chart / Area Chart

---

### 22. Top 10 Users by Transaction Volume

**NL:** "Top 10 users by transaction volume"

```
sql

SELECT
    t.user_id,
    u.full_name,
    u.country,
    u.risk_level,
    COUNT(t.txn_id) as txn_count,
    ROUND(SUM(t.amount_usd), 2) as total_volume,
    ROUND(AVG(t.amount_usd), 2) as avg_txn
FROM transactions t
JOIN users u ON t.user_id = u.user_id
GROUP BY t.user_id
ORDER BY total_volume DESC
LIMIT 10;
```

**Chart:** Bar Chart

---

## 23. Transaction Breakdown by Type

**NL:** "Transaction breakdown by type"

```
sql

SELECT
    txn_type,
    COUNT(*) as count,
    ROUND(SUM(amount_usd), 2) as total_volume,
    ROUND(AVG(amount_usd), 2) as avg_amount,
    ROUND(COUNT(*) * 100.0 / (SELECT COUNT(*) FROM transactions), 1) as percentage
FROM transactions
GROUP BY txn_type
ORDER BY total_volume DESC;
```

**Chart:** Pie Chart

---

## 24. Transaction Success Rate

**NL:** "Transaction success rate by type"

```
sql
```

```
SELECT
    txn_type,
    COUNT(*) as total,
    SUM(CASE WHEN status = 'COMPLETED' THEN 1 ELSE 0 END) as completed,
    SUM(CASE WHEN status = 'FAILED' THEN 1 ELSE 0 END) as failed,
    SUM(CASE WHEN status = 'PENDING' THEN 1 ELSE 0 END) as pending,
    ROUND(SUM(CASE WHEN status = 'COMPLETED' THEN 1 ELSE 0 END) * 100.0 / COUNT(*), 1) as success_rate
FROM transactions
GROUP BY txn_type
ORDER BY total DESC;
```

**Chart:** Table / Bar Chart

---

## 25. Users by Country

**NL:** "User distribution by country"

```
sql
SELECT
    country,
    COUNT(*) as user_count,
    SUM(CASE WHEN risk_level = 'HIGH' THEN 1 ELSE 0 END) as high_risk,
    SUM(CASE WHEN kyc_status = 'VERIFIED' THEN 1 ELSE 0 END) as verified,
    ROUND(COUNT(*) * 100.0 / (SELECT COUNT(*) FROM users), 1) as percentage
FROM users
GROUP BY country
ORDER BY user_count DESC;
```

**Chart:** Bar Chart

---

## 26. Revenue by Instrument

**NL:** "Trading volume breakdown by instrument"

```
sql
```

```
SELECT
instrument,
COUNT(*) as trade_count,
ROUND(SUM(amount_usd), 2) as total_volume,
ROUND(AVG(amount_usd), 2) as avg_trade
FROM transactions
WHERE txn_type = 'TRADE' AND instrument IS NOT NULL
GROUP BY instrument
ORDER BY total_volume DESC;
```

**Chart:** Bar Chart / Pie Chart

---

## 27. Peak Trading Hours Analysis

**NL:** "Peak trading hours analysis"

```
sql
SELECT
CAST(strftime('%H', created_at) AS INTEGER) as hour,
COUNT(*) as txn_count,
ROUND(SUM(amount_usd), 2) as total_volume
FROM transactions
WHERE txn_type = 'TRADE'
GROUP BY hour
ORDER BY hour;
```

**Chart:** Bar Chart (Histogram)

---

## 28. User Growth Trend

**NL:** "User registration trend by month"

```
sql
```

```
SELECT
    strftime('%Y-%m', created_at) as month,
    COUNT(*) as new_users,
    SUM(COUNT(*)) OVER (ORDER BY strftime('%Y-%m', created_at)) as cumulative_users
FROM users
GROUP BY month
ORDER BY month;
```

**Chart:** Line Chart

---

## 29. Average Transaction Size by Risk Level

**NL:** "Average transaction size by user risk level"

```
sql
SELECT
    u.risk_level,
    COUNT(t.txn_id) as txn_count,
    ROUND(AVG(t.amount_usd), 2) as avg_amount,
    ROUND(MIN(t.amount_usd), 2) as min_amount,
    ROUND(MAX(t.amount_usd), 2) as max_amount
FROM users u
JOIN transactions t ON u.user_id = t.user_id
GROUP BY u.risk_level
ORDER BY avg_amount DESC;
```

**Chart:** Bar Chart

---

## 30. Failed Transaction Analysis

**NL:** "Failed transaction root cause analysis"

```
sql
```

```
SELECT
    txn_type,
    payment_method,
    COUNT(*) as failed_count,
    ROUND(SUM(amount_usd), 2) as failed_volume
FROM transactions
WHERE status = 'FAILED'
GROUP BY txn_type, payment_method
ORDER BY failed_count DESC;
```

**Chart:** Table

---

## ● ALERT QUERIES

### 31. Alert Distribution by Rule

**NL:** "Alerts grouped by detection rule"

```
sql
SELECT
    rule_name,
    severity,
    COUNT(*) as total_alerts,
    SUM(CASE WHEN status = 'OPEN' THEN 1 ELSE 0 END) as open,
    SUM(CASE WHEN status = 'RESOLVED' THEN 1 ELSE 0 END) as resolved
FROM alerts
GROUP BY rule_name, severity
ORDER BY total_alerts DESC;
```

**Chart:** Bar Chart

---

### 32. Alert Resolution Time

**NL:** "Average alert resolution time by severity"

```
sql
```

```

SELECT
    severity,
    COUNT(*) as resolved_count,
    ROUND(AVG(JULIANDAY(resolved_at) - JULIANDAY(created_at)) * 24, 1) as avg_hours_to_resolve
FROM alerts
WHERE status = 'RESOLVED' AND resolved_at IS NOT NULL
GROUP BY severity
ORDER BY
    CASE severity
        WHEN 'CRITICAL' THEN 1
        WHEN 'HIGH' THEN 2
        WHEN 'MEDIUM' THEN 3
        ELSE 4
    END;

```

## Chart: Bar Chart

---

### 33. Users with Most Alerts

NL: "Users with most open alerts"

```

sql
SELECT
    a.user_id,
    u.full_name,
    u.risk_level,
    COUNT(*) as alert_count,
    GROUP_CONCAT(DISTINCT a.rule_name) as triggered_rules
FROM alerts a
JOIN users u ON a.user_id = u.user_id
WHERE a.status IN ('OPEN', 'INVESTIGATING')
GROUP BY a.user_id
ORDER BY alert_count DESC
LIMIT 15;

```

## Chart: Table

---

### 34. Alert Trend Over Time

NL: "Alert trend over the last 30 days"

sql

```
SELECT
    DATE(created_at) as date,
    COUNT(*) as total_alerts,
    SUM(CASE WHEN severity = 'CRITICAL' THEN 1 ELSE 0 END) as critical,
    SUM(CASE WHEN severity = 'HIGH' THEN 1 ELSE 0 END) as high,
    SUM(CASE WHEN severity = 'MEDIUM' THEN 1 ELSE 0 END) as medium,
    SUM(CASE WHEN severity = 'LOW' THEN 1 ELSE 0 END) as low
FROM alerts
WHERE created_at >= datetime('now', '-30 days')
GROUP BY DATE(created_at)
ORDER BY date;
```

**Chart:** Stacked Area Chart / Line Chart

---

### 35. Unassigned Critical Alerts

**NL:** "Show unassigned critical and high severity alerts"

sql

```
SELECT
    a.alert_id,
    a.rule_name,
    a.severity,
    a.user_id,
    u.full_name,
    a.created_at,
    ROUND(JULIANDAY('now') - JULIANDAY(a.created_at), 1) as days_open
FROM alerts a
LEFT JOIN users u ON a.user_id = u.user_id
WHERE a.status = 'OPEN'
    AND a.assigned_to IS NULL
    AND a.severity IN ('CRITICAL', 'HIGH')
ORDER BY
    CASE a.severity WHEN 'CRITICAL' THEN 1 ELSE 2 END,
    a.created_at ASC;
```

**Chart:** Table

---

## DASHBOARD KPI QUERIES

### 36. Executive Dashboard KPIs

NL: "Show me the main KPIs"

sql

-- Total Volume (Today)

```
SELECT 'Today Volume' as metric, ROUND(SUM(amount_usd), 2) as value
```

```
FROM transactions WHERE DATE(created_at) = DATE('now')
```

```
UNION ALL
```

-- Active Users (Today)

```
SELECT 'Active Users', COUNT(DISTINCT user_id)
```

```
FROM transactions WHERE DATE(created_at) = DATE('now')
```

```
UNION ALL
```

-- Open Alerts

```
SELECT 'Open Alerts', COUNT(*)
```

```
FROM alerts WHERE status = 'OPEN'
```

```
UNION ALL
```

-- Flagged Transactions (Today)

```
SELECT 'Flagged Today', COUNT(*)
```

```
FROM transactions WHERE status = 'FLAGGED' AND DATE(created_at) = DATE('now')
```

```
UNION ALL
```

-- Pending KYC

```
SELECT 'Pending KYC', COUNT(*)
```

```
FROM users WHERE kyc_status = 'PENDING'
```

```
UNION ALL
```

-- High Risk Users

```
SELECT 'High Risk Users', COUNT(*)
```

```
FROM users WHERE risk_level = 'HIGH';
```

**Chart:** KPI Cards

## SEARCH/LOOKUP QUERIES

### 37. Search User by Email or Name

NL: "Find user john.smith"

sql

```
SELECT *
FROM users
WHERE email LIKE '%john.smith%'
OR full_name LIKE '%john%smith%'
OR user_id LIKE '%john%';
```

**Chart:** Table

---

### 38. Transaction History for User

NL: "Show transaction history for user USR-0042"

```
sql
SELECT
  txn_id,
  txn_type,
  instrument,
  amount_usd,
  status,
  created_at
FROM transactions
WHERE user_id = 'USR-0042'
ORDER BY created_at DESC
LIMIT 50;
```

**Chart:** Table

---

### 39. User Activity Summary

NL: "Complete activity summary for user USR-0042"

```
sql
```

```
SELECT
    'Profile' as category,
    u.full_name || ' | ' || u.country || ' | ' || u.risk_level || ' | KYC: ' || u.kyc_status as details
FROM users u WHERE u.user_id = 'USR-0042'
UNION ALL
SELECT 'Total Transactions', COUNT(*) || ' transactions ($' || ROUND(SUM(amount_usd), 2) || ' volume)'
FROM transactions WHERE user_id = 'USR-0042'
UNION ALL
SELECT 'Open Alerts', COUNT(*) || ' alerts'
FROM alerts WHERE user_id = 'USR-0042' AND status = 'OPEN'
UNION ALL
SELECT 'Login Attempts (30d)', COUNT(*) || ' attempts (' || SUM(CASE WHEN status='FAILED' THEN 1 ELSE 0 END) ||
FROM login_events WHERE user_id = 'USR-0042' AND created_at >= datetime('now', '-30 days');
```

Chart: Table

---

## 40. Recent Activity Feed

NL: "Show recent platform activity"

sql

```

SELECT
  'Transaction' as type,
  txn_id as id,
  user_id,
  txn_type || '$' || amount_usd as description,
  status,
  created_at
FROM transactions
WHERE created_at >= datetime('now', '-1 hour')
UNION ALL
SELECT
  'Alert' as type,
  alert_id as id,
  user_id,
  rule_name || '(' || severity || ')' as description,
  status,
  created_at
FROM alerts
WHERE created_at >= datetime('now', '-1 hour')
UNION ALL
SELECT
  'Login' as type,
  event_id as id,
  user_id,
  status || ' from ' || country as description,
  status,
  created_at
FROM login_events
WHERE created_at >= datetime('now', '-1 hour')
ORDER BY created_at DESC
LIMIT 50;

```

## Chart: Activity Feed / Table

---

## NOTES FOR NL2SQL MAPPING

### Query Pattern Recognition:

NL Pattern	SQL Pattern
"show/list/get all"	SELECT *

NL Pattern	SQL Pattern
"how many" / "count"	SELECT COUNT(*)
"total" / "sum"	SELECT SUM()
"average"	SELECT AVG()
"top N" / "highest"	ORDER BY ... DESC LIMIT N
"last N days"	WHERE created_at >= datetime('now', '-N days')
"by country/type/status"	GROUP BY column
"between X and Y"	WHERE column BETWEEN X AND Y
"more than" / "greater than"	WHERE column > value
"pending flagged/high-risk"	WHERE status = 'VALUE'

### Time Filters:

NL	SQL
"today"	DATE(created_at) = DATE('now')
"yesterday"	DATE(created_at) = DATE('now', '-1 day')
"this week"	created_at >= datetime('now', '-7 days')
"this month"	created_at >= datetime('now', '-30 days')
"last 24 hours"	created_at >= datetime('now', '-24 hours')

*End of Query Reference Guide*