WITH eth\_prices AS (

SELECT

DATE\_TRUNC('month', hour) AS month,

AVG(price) AS avg\_eth\_price\_usd

FROM ETHEREUM.PRICE.EZ\_PRICES\_HOURLY

WHERE symbol = 'ETH'

AND hour >= '2023-01-01'

AND hour < '2025-09-01'

GROUP BY 1

),

monthly\_volumes AS (

-- DEX Trading

SELECT

DATE\_TRUNC('month', block\_timestamp) AS month,

'DEX Trading' AS category,

SUM(COALESCE(amount\_in\_usd, 0)) AS volume\_usd

FROM ETHEREUM.DEFI.EZ\_DEX\_SWAPS

WHERE block\_timestamp >= '2023-01-01'

AND block\_timestamp < '2025-09-01'

AND amount\_in\_usd BETWEEN 0.1 AND 1e9

AND amount\_in\_usd IS NOT NULL

GROUP BY 1, 2

UNION ALL

-- Lending Deposits

SELECT

DATE\_TRUNC('month', block\_timestamp) AS month,

'Lending Deposits' AS category,

SUM(COALESCE(amount\_usd, 0)) AS volume\_usd

FROM ETHEREUM.DEFI.EZ\_LENDING\_DEPOSITS

WHERE block\_timestamp >= '2023-01-01'

AND block\_timestamp < '2025-09-01'

AND amount\_usd BETWEEN 0.1 AND 1e9

AND amount\_usd IS NOT NULL

GROUP BY 1, 2

UNION ALL

-- Lending Borrows

SELECT

DATE\_TRUNC('month', block\_timestamp) AS month,

'Lending Borrows' AS category,

SUM(COALESCE(amount\_usd, 0)) AS volume\_usd

FROM ETHEREUM.DEFI.EZ\_LENDING\_BORROWS

WHERE block\_timestamp >= '2023-01-01'

AND block\_timestamp < '2025-09-01'

AND amount\_usd BETWEEN 0.1 AND 1e9

AND amount\_usd IS NOT NULL

GROUP BY 1, 2

UNION ALL

-- Token Transfers (with strict $10K cap)

SELECT

DATE\_TRUNC('month', block\_timestamp) AS month,

'Token Transfers' AS category,

SUM(COALESCE(amount\_usd, 0)) AS volume\_usd

FROM ETHEREUM.CORE.EZ\_TOKEN\_TRANSFERS

WHERE block\_timestamp >= '2023-01-01'

AND block\_timestamp < '2025-09-01'

AND amount\_usd BETWEEN 0.1 AND 10000 -- Strict cap

AND amount\_usd IS NOT NULL

-- Exclude problematic contracts (first 20 for brevity)

AND tx\_hash is not in (

Select distinct tx\_hash from FROM ETHEREUM.DEFI.EZ\_DEX\_SWAPS

WHERE block\_timestamp >= '2023-01-01'

AND block\_timestamp < '2025-09-01'

AND amount\_in\_usd BETWEEN 0.1 AND 1e9

AND amount\_in\_usd IS NOT NULL

Union

Select distinct tx\_hash FROM ETHEREUM.DEFI.EZ\_LENDING\_DEPOSITS

WHERE block\_timestamp >= '2023-01-01'

AND block\_timestamp < '2025-09-01'

AND amount\_usd BETWEEN 0.1 AND 1e9

AND amount\_usd IS NOT NULL

Union

Select distinct tx\_hash FROM ETHEREUM.DEFI.EZ\_LENDING\_BORROWS

WHERE block\_timestamp >= '2023-01-01'

AND block\_timestamp < '2025-09-01'

AND amount\_usd BETWEEN 0.1 AND 1e9

AND amount\_usd IS NOT NULL

Union

Select distinct tx\_hash FROM ETHEREUM.DEFI.EZ\_BRIDGE\_ACTIVITY

WHERE block\_timestamp >= '2023-01-01'

AND block\_timestamp < '2025-09-01'

AND amount\_usd BETWEEN 0.1 AND 1e9

AND amount\_usd IS NOT NULL

Union

Select distinct tx\_hash FROM ETHEREUM.NFT.EZ\_NFT\_SALES

WHERE block\_timestamp >= '2023-01-01'

AND block\_timestamp < '2025-09-01'

AND price\_usd BETWEEN 0.1 AND 1e9

AND price\_usd IS NOT NULL

Union

Select distinct tx\_hash FROM ETHEREUM.DEFI.EZ\_LENDING\_LIQUIDATIONS

WHERE block\_timestamp >= '2023-01-01'

AND block\_timestamp < '2025-09-01'

AND price\_usd BETWEEN 0.1 AND 1e9

AND price\_usd IS NOT NULL

)

GROUP BY 1, 2

UNION ALL

-- Bridge Activity

SELECT

DATE\_TRUNC('month', block\_timestamp) AS month,

'Bridge Activity' AS category,

SUM(COALESCE(amount\_usd, 0)) AS volume\_usd

FROM ETHEREUM.DEFI.EZ\_BRIDGE\_ACTIVITY

WHERE block\_timestamp >= '2023-01-01'

AND block\_timestamp < '2025-09-01'

AND amount\_usd BETWEEN 0.1 AND 1e9

AND amount\_usd IS NOT NULL

GROUP BY 1, 2

UNION ALL

-- NFT Sales

SELECT

DATE\_TRUNC('month', block\_timestamp) AS month,

'NFT Sales' AS category,

SUM(COALESCE(price\_usd, 0)) AS volume\_usd

FROM ETHEREUM.NFT.EZ\_NFT\_SALES

WHERE block\_timestamp >= '2023-01-01'

AND block\_timestamp < '2025-09-01'

AND price\_usd BETWEEN 0.1 AND 1e9

AND price\_usd IS NOT NULL

AND event\_type IN ('sale', 'bid\_won')

GROUP BY 1, 2

UNION ALL

-- Liquidations

SELECT

DATE\_TRUNC('month', block\_timestamp) AS month,

'Liquidations' AS category,

SUM(COALESCE(amount\_usd, 0)) AS volume\_usd

FROM ETHEREUM.DEFI.EZ\_LENDING\_LIQUIDATIONS

WHERE block\_timestamp >= '2023-01-01'

AND block\_timestamp < '2025-09-01'

AND amount\_usd BETWEEN 0.1 AND 1e9

AND amount\_usd IS NOT NULL

GROUP BY 1, 2

)

SELECT

month,

category,

volume\_usd,

volume\_usd / 1e9 AS volume\_usd\_billions

FROM monthly\_volumes

ORDER BY month, category