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 LOWER(contract\_address) NOT IN (

'0x0000000000300dd8b0230efcfef136ecdf6abcde', '0x0c4785ee3ca8bf1fb90c772703210bd346aa3413',

'0x1ce7d9942ff78c328a4181b9f3826fee6d845a97', '0x21d5a14e625d767ce6b7a167491c2d18e0785fda',

'0x32a6268f9ba3642dda7892add74f1d34469a4259', '0x4527a3b4a8a150403090a99b87effc96f2195047',

'0x57d9750893adb0d1ee07bac44c8bb45c45b58f73', '0x5ac6efe0d74c7938027c7c52130f2209a0c4f9a7',

'0x5d5e244660ca05c42073c9a526616d99f2c99516', '0x64684f4978f8ad9e67c2e19ca98d1f9b00cfe3a1',

'0x677fe4bd9ee5a3e36d3662505977cc387cee7b1a', '0x6ad9a31f02f1e790ff85584ea3c3d0001e45cd64',

'0x6b15602f008a05d9694d777dead2f05586216cb4', '0x6f365eb3686ee95bdefbae71f1728d62c0af7ab1',

'0x7a2db92624fc80116cc209c9662ee2baa8adbeb1', '0x7cda79830faf07ed696fe220566116951ced36a7',

'0x7fc66500c84a76ad7e9c93437bfc5ac33e2ddae9', '0x89d3c0249307ae570a316030764d12f53bb191fd',

'0x9360c489056b64d5003bf22f4f31458e31cc8028', '0x9681ee0d91e737c3b60aceba7fbdae61b5462f42'

)

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