

--the number of unique addresses that made their first transaction on Ethereum for each date.

```
SELECT first_tx AS date, COUNT(*) AS no_of_addresses
FROM (
    SELECT from_address AS address, MIN(DATE(block_timestamp)) AS first_tx
    FROM `bigquery-public-data.crypto_ethereum.transactions`
    WHERE value > 0 AND block_timestamp < '2023-11-01 00:00:00'
    GROUP BY address
    ORDER BY first_tx
)
GROUP BY first_tx
ORDER BY date desc;
```

--Ether Transferred and Average Transaction Fee Query

```
SELECT SUM(value/POWER(10,18)) AS ether_value, DATE(block_timestamp) as date,
AVG(gas_price*(receipt_gas_used/POWER(10,18))) as avg_tx_fee
FROM `bigquery-public-data.crypto_ethereum.transactions`
WHERE DATE(block_timestamp) BETWEEN '2018-01-01' AND '2023-03-27'
GROUP BY date
ORDER BY date;
```

--Total Value of Transactions per Day Query

```
SELECT
    DATE(block_timestamp) AS date, (SUM(value) / power(10,18)) AS total_value
FROM
    `bigquery-public-data.crypto_ethereum.transactions` AS transactions
WHERE
    block_timestamp < '2023-11-01 00:00:00'
GROUP BY date
ORDER BY date;
```

--Transaction Status Query

```
select
    b.block_timestamp,
    transaction_hash,
    status
from
    (
        select
            block_timestamp,
            `hash`
        from
            bigquery-public-data.crypto_ethereum.transactions
        where true
            and date(block_timestamp) > '2023-01-01'
    ) a
join
    (
        select
            block_timestamp,
            transaction_hash,
            status
        from
            bigquery-public-data.crypto_ethereum.traces
        where true
            and date(block_timestamp) > '2023-01-01'
            and trace_address is null
            and traces.status = 0
    ) b
```

```

    ) b
on a.hash = b.transaction_hash;

-- Value Table Query top 10 transactions
WITH value_table AS (
    SELECT to_address AS address, value
    FROM `bigquery-public-data.crypto_ethereum.traces`
    WHERE to_address IS NOT NULL
        AND block_timestamp < '2023-11-01 00:00:00'
        AND status = 1
        AND (call_type NOT IN ('delegatecall', 'callcode', 'staticcall') OR call_type IS
NULL)

    UNION ALL

    SELECT from_address AS address, -value
    FROM `bigquery-public-data.crypto_ethereum.traces`
    WHERE from_address IS NOT NULL
        AND block_timestamp < '2023-11-01 00:00:00'
        AND status = 1
        AND (call_type NOT IN ('delegatecall', 'callcode', 'staticcall') OR call_type IS
NULL)

    UNION ALL

    SELECT miner AS address, SUM(CAST(receipt_gas_used AS NUMERIC) * CAST(gas_price AS
NUMERIC)) AS value
    FROM `bigquery-public-data.crypto_ethereum.transactions` AS transactions
    JOIN `bigquery-public-data.crypto_ethereum.blocks` AS blocks
    ON blocks.number = transactions.block_number
    WHERE block_timestamp < '2023-11-01 00:00:00'
    GROUP BY blocks.miner

    UNION ALL

    SELECT from_address AS address, -(CAST(receipt_gas_used AS NUMERIC) * CAST(gas_price AS
NUMERIC)) AS value
    FROM `bigquery-public-data.crypto_ethereum.transactions`
    WHERE block_timestamp < '2023-11-01 00:00:00'
)
SELECT address, FLOOR(SUM(value) / POWER(10, 18)) AS balance
FROM value_table
GROUP BY address
ORDER BY balance DESC
LIMIT 10;

```