December 20, 2022

Found some relevant project on Kaggle.   
<https://www.kaggle.com/datasets/bigquery/ethereum-blockchain>

<https://www.kaggle.com/code/mrisdal/visualizing-average-ether-costs-over-time/notebook>

They used Google bigquery datsaet to analyze Ethereum blockchain

<https://cloud.google.com/blog/products/data-analytics/ethereum-bigquery-public-dataset-smart-contract-analytics>

Sample query

SELECT

  SUM(value/POWER(10,18)) AS sum\_tx\_ether,

  AVG(gas\_price\*(receipt\_gas\_used/POWER(10,18))) AS avg\_tx\_gas\_cost,

  DATE(timestamp) AS tx\_date

FROM

  `bigquery-public-data.crypto\_ethereum.transactions` AS transactions,

  `bigquery-public-data.crypto\_ethereum.blocks` AS blocks

WHERE TRUE

  AND transactions.block\_number = blocks.number

  AND receipt\_status = 1

  AND value > 0

GROUP BY tx\_date

HAVING tx\_date >= '2018-01-01' AND tx\_date <= '2018-12-31'

ORDER BY tx\_date

Block number:

1st block of Jan 1st 2020: **9193266**

Last block of June 30th 2022: **15047598**

<https://codesandbox.io/s/get-block-numbers-by-from-to-dates-h4nx5?file=/src/App.js>