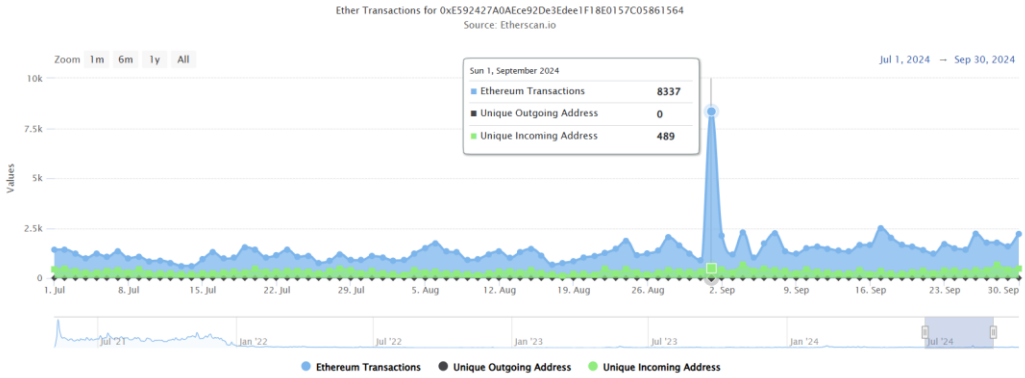
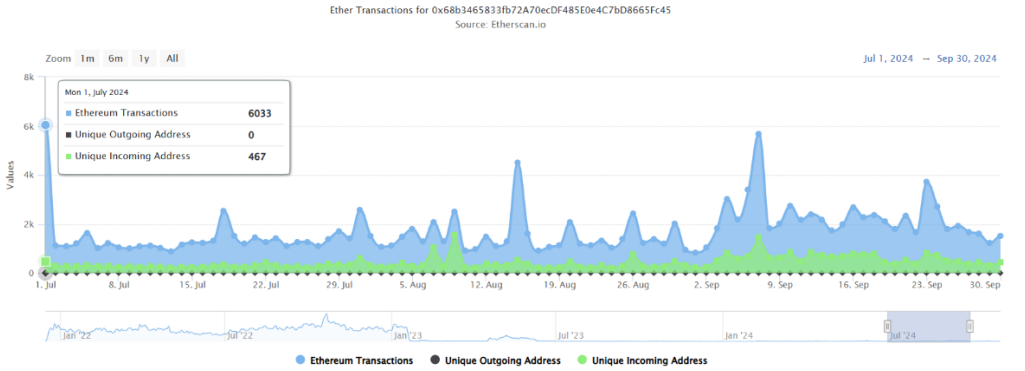
The Analytics was done in **Etherscan**, which gave valuable insights about the given contracts and their addresses.

After careful analysis, it was found that most of the users' engagement with uniswap v3 protocol happens via the following contracts:



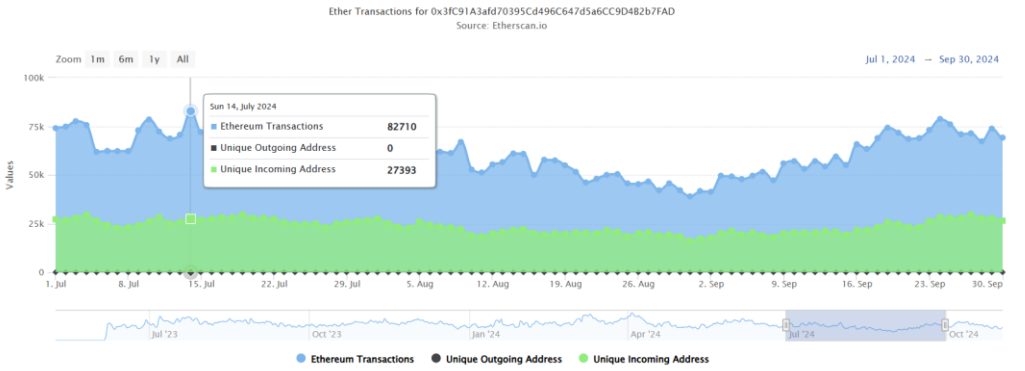
SwapRouter

Maximum number of transactions of 8337 on September 1.



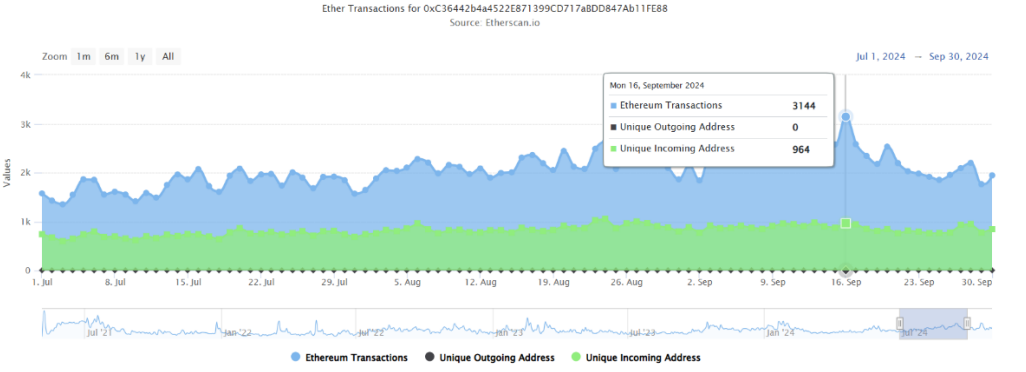
SwapRouter02

Maximum number of transactions of 6033 on July 1.



UniversalRouter

Maximum number of transactions of 82710 on July 14.



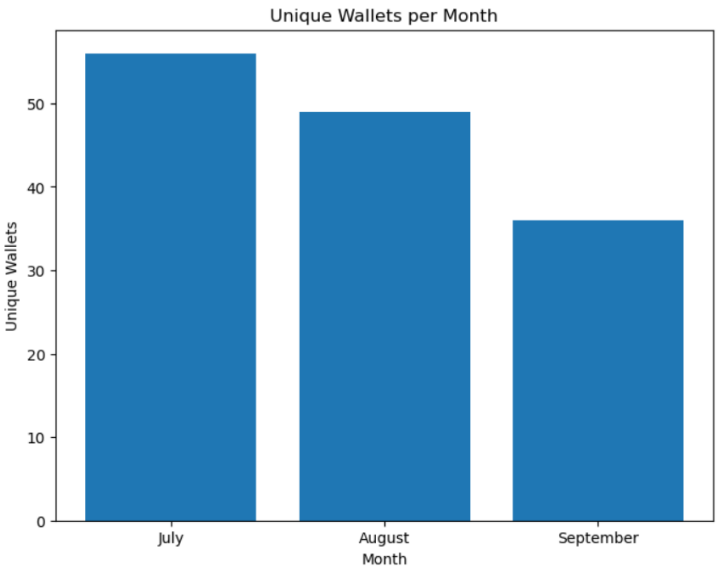
NonfungiblePositionManager

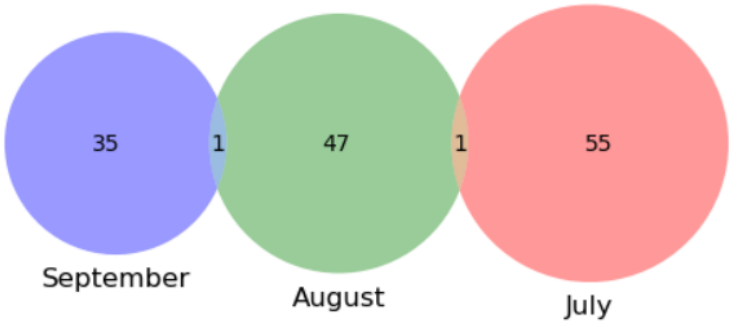
Maximum number of transactions of 3144 on September 16.

For the above major transaction contractors, the transaction dataset for the period July 2024 – September 2024 is very large. Etherscan allows the download of earliest 5000 records within the selected range. Hence, the dataset for the mentioned contracts will not be uniformly distributed along the given period.

After careful analysis, it was found that the transaction data for V3Migrator contract was much uniformly distributed along the given period. The analysis was done using python libraries such as pandas and matplotib and the results are:

Month (Year 2024)	Number of Unique Wallets
July	56
August	49
September	36





Observations:

- Total number of unique transactions via the given contract for the given period is **139**.
- The number of unique transactions **decreased** gradually from July to September.
- Only one user wallet was common in September and August transactions.
- Only one user wallet was common in August and July transactions.
- There is no common wallet in July and September transactions.
- There is no common wallet that engaged in transactions in all three months.
- In this transaction period, the number of common unique wallets engaged in transaction between consecutive months remained constant, which is equal to one wallet.

Note: The notebook used for analytics is shared along with this.