

Datasets

Datasets Overview

There are two types of Centic

Centic's data collection process begins with the acquisition of raw data from provider nodes across various blockchain networks. This invaluable data is meticulously decoded and then seamlessly integrated into our comprehensive knowledge graph. Beyond blockchain data, we also curate a wealth of off-chain information from a multitude of sources, expertly synthesizing it into our ever-expanding knowledge graph. The relationships between entities emerge, originating from both on-chain transactions and events, as well as the dynamic off-chain connections that interlace these entities.

In summary:

- Raw data: This encompasses the unprocessed and subsequently decoded blockchain data.
- Knowledge graph: This intricate structure encapsulates both on-chain and off-chain entities within the Web3 domain, while also mapping the intricate relationships that bind them together.

Available Chains

- EVM Chains
 - + Ethereum (0x1)
 - + BNB Chain (0x38)
 - + Polygon (0x89)
 - + Fantom (0xfa)
 - + Arbitrum One (0xa4b1)
 - + Optimism (0xa)
 - + Avalanche C-Chain (0xa86a)
- Non-EVM Chains (Coming Soon)

1. Raw Data

Raw data provides unprocessed and decoded information for each blockchain network supported by Centic. Raw data consists of data generated and stored within blockchain ledgers, containing the fundamental details of all blockchain activities. This data has been decoded to make it easily comprehensible for users to understand what has occurred in a transaction or an event.

EVM Raw Data

- Blocks: Blocks are the base unit that all transactions fit into.
- Transactions: Transactions are cryptographically signed instructions from accounts.
- Internal Transactions: Internal transactions are the consequence of smart contract logic that is triggered by an external transaction.

- Event Transfers: Event transfers are event logs generated by smart contracts through the transfer method.
- Lending Protocol Events: Lending protocol events are event logs created by smart contracts within lending protocols.

1.1. Blocks

Blocks are data structures within the blockchain, where transaction data in a cryptocurrency blockchain are permanently recorded. A block records some or all of the most recent transactions not yet validated by the network. Once the data is validated, the block is closed. Then, a new block is created for new transactions to be entered into and validated.

Collections

Chain	Collection	Notes
Ethereum	ethereum_blockchain_etl.blocks	
BNB Chain	blockchain_etl.blocks	
Polygon	polygon_blockchain_etl.blocks	
Fantom	ftm_blockchain_etl.blocks	
Arbitrum One	arbitrum_blockchain_etl.blocks	
Optimism	optimism_blockchain_etl.blocks	
Avalanche C-Chain	avalanche_blockchain_etl.blocks	

Example

```
{
  "_id":
  "block_0xa45c7a1b734add5384ce194970a0aecc943c7b0ee7554b8d19469a188d7ddae1",
  "type": "block",
  "number": 30358901,
  "hash":
  "0xa45c7a1b734add5384ce194970a0aecc943c7b0ee7554b8d19469a188d7ddae1",
  "parent_hash":
  "0xa5a2389ed885d2c71a604c766f810c8a45929e8332d45af44ecb44e6fa08c9ce",
  "nonce": "0x0000000000000000",
  "transactions_root":
  "0x299fd88926ed472b9eca569799b6858f42bfbb797d73d1246d83a92a742a56f9",
  "state_root":
  "0x220c2f1425504cc7488ba4d5c8c427da1b0bc3cac14ff13512aaad118218c6de",
}
```

```

"receipts_root":
"0x717f0ae59e87e0c1e598974bdc1877c1e1c2cc1fcca15685858351dafb5799d
a",
"miner": "0xef0274e31810c9df02f98fafde0f841f4e66a1cd",
"difficulty": "2",
"total_difficulty": "60327185",
"size": "32660",
"gas_limit": "1400000000",
"gas_used": "10887760",
"timestamp": 1690551200,
"transaction_count": 127,
"item_timestamp": "2023-07-28T13:33:20Z"
}

```

Description

Field	Data type	Description
_id	String	Document ID
type	String	Type of collection
number	Int32	The height of that block on blockchain
hash	String	A unique identifier for that block
parent_hash	String	The unique identifier for the prior block
nonce	String	The block nonce is used to demonstrate the proof of work during mining
miner	String	The address of the miner
difficulty	String	The effort required to mine the block
total_difficulty	String	Total difficulty of the chain until this block
size	String	This block's size in bytes (limited by gas limit)
gas_limit	String	The gas limit of the current block
gas_used	String	The gas used in this block
timestamp	Int32	Timestamp when that block closed
transaction_count	Int32	The number of transactions in that block
item_timestamp	String	Block timestamp in human readable format

1.2. Transactions

Transactions are signed messages recorded on blockchains. An account will initiate a transaction to update the state of the blockchain. Transactions will always originate from externally owned accounts.

A transaction could either be a payment or a request to run some sort of program on the blockchain. Ethereum and other virtual machines are like computers that can run programs like this, while other blockchains like Bitcoin can only handle payments.

Collections

Chain	Collection	Notes
Ethereum	ethereum_blockchain_etl.transactions	
BNB Chain	blockchain_etl.transactions	
Polygon	polygon_blockchain_etl.transactions	
Fantom	ftm_blockchain_etl.transactions	
Arbitrum One	arbitrum_blockchain_etl.transactions	
Optimism	optimism_blockchain_etl.transactions	
Avalanche C-Chain	avalanche_blockchain_etl.transactions	

Example

[illegible]

```

"block_hash":
"0x6c059f49e0fabd5c17b3e0e57b4040688f7c921c42160f86c175bd66d06fe33
0",
  "receipt_cumulative_gas_used": "44151",
  "receipt_gas_used": "44151",
  "receipt_contract_address": null,
  "receipt_root": null,
  "receipt_status": 1,
  "item_timestamp": "2023-07-28T13:38:08Z"
}

```

Description

Field	Data type	Description
_id	String	Document ID
type	String	Type of collection
hash	String	The hash of the transaction
nonce	Int32	The transaction nonce, unique to that wallet
transaction_index	Int32	The transactions index position in the block
from_address	String	Address of the sender
to_address	String	Address of the receiver. null when its a contract creation transaction
value	String	The amount of native token sent in this transaction in wei. Note that ERC20 tokens do not show up here
gas	String	The gas limit in wei
gas_price	String	The gas price in wei
input	String	Can either be empty, a hex encoded message or instructions for a smart contract call
block_timestamp	Int32	The time when the block was mined that includes this transaction
block_number	Int32	The length of the blockchain in blocks
block_hash	String	A unique identifier for that block
receipt_gas_used	String	The gas consumed by the transaction in wei
receipt_contract_address	String	Address of contract created

receipt_status	Int32	A value that shows if the transaction succeeded
item_timestamp	String	Block timestamp in human readable format

1.3. Internal transactions

An internal transaction is the consequence of smart contract logic that is triggered by an external transaction. Internal transactions lack a cryptographic signature and are typically stored off-chain, meaning they are not a part of the blockchain itself. Some are stored on-chain, although this necessitates the use of additional gas, therefore it isn't being used very often. Internal transactions like this always transfer Ether exclusively, affecting address balances.

Collections

Chain	Collection	Notes
Ethereum	ethereum_blockchain_etl.internal_transactions	
BNB Chain	blockchain_etl.internal_transactions	
Polygon	polygon_blockchain_etl.internal_transactions	
Fantom	ftm_blockchain_etl.internal_transactions	
Arbitrum One	arbitrum_blockchain_etl.internal_transactions	
Optimism	optimism_blockchain_etl.internal_transactions	
Avalanche C-Chain	avalanche_blockchain_etl.internal_transactions	

Example

```
{
  "_id":
  "transaction_0x21c24926245108343a7cd574cdd7713ee49d94f7a32d2ceb9156667841afcf09",
  "block_number": 17789772,
  "hash":
  "0x21c24926245108343a7cd574cdd7713ee49d94f7a32d2ceb9156667841afcf09",
  "internal_transactions": [
    {
      "from": "0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2",
      "to": "0x7a250d5630b4cf539739df2c5dacb4c659f2488d",
      "value": "91095282179790939",
      "contract_address": "",
      "input": "",

```

```

        "type": "call",
        "gas": "2300",
        "gas_used": "83",
        "trace_id": "0_1_1",
        "is_error": 0,
        "err_code": ""
    },
    {
        "from": "0x7a250d5630b4cf539739df2c5dacb4c659f2488d",
        "to": "0x6134ec94936de22c8d770c3614eaf12324d683ee",
        "value": "91095282179790939",
        "contract_address": "",
        "input": "",
        "type": "call",
        "gas": "82600",
        "gas_used": "0",
        "trace_id": "0_1",
        "is_error": 0,
        "err_code": ""
    }
]
}

```

Description

Field	Data type	Description
_id	String	Document ID
block_number	Int32	The length of the blockchain in blocks
hash	String	The hash of the external transaction
internal_transactions	Array	List of internal transactions
internal_transactions.from	String	Address of internal transaction sender
internal_transactions.to	String	Address of internal transaction receiver
internal_transactions.value	String	The amount of native token sent in this transaction in wei
internal_transactions.contract_address	String	Address of contract created
internal_transactions.input	String	Can either be empty, a hex encoded message or instructions for a smart contract call
internal_transactions.type	String	Type of internal transaction
internal_transactions.gas	String	The gas limit in wei

internal_transactions.gas_used	String	The gas consumed by the transaction in wei
internal_transactions.trace_id	String	Trace ID of internal transaction in external transaction
internal_transactions.is_error	Int32	A value that shows if the transaction error
internal_transactions.err_code	String	Error code

1.4. Transferring events

Transferring events are event logs generated by smart contracts via the transfer method. This event must be triggered when the tokens are transferred from one account to another account. Even if the number of tokens is zero, the event must trigger. When new tokens are created or minted, the event should use 0x0 as the from address. In addition, NFT transferring events are also collected and stored.

Tables

Chain	Table	Notes
Ethereum	chain_0x1.token_transfer	
BNB Chain	chain_0x38.token_transfer	
Polygon	chain_0x89.token_transfer	
Fantom	chain_0xfa.token_transfer	
Arbitrum One	chain_0xa4b1.token_transfer	
Optimism	chain_0xa.token_transfer	
Avalanche C-Chain	chain_0xa86a.token_transfer	

Example

	contract_address text	transaction_hash text	log_index bigint	block_number bigint	from_address text	to_address text	value double precision
1	0x9702230a8ea53601f5cd2dc00f...	0xf36593983a448a50dd201f9171ee7...	5	31974624	0x29e38769f23701a2e4a8ef...	0x1aab1552182d285afccbb1e250...	56.082434
2	0x9702230a8ea53601f5cd2dc00f...	0x3fd679028e3e885d4cfd525a022d4...	8	31974624	0x44d437d6d379fa652cc4b...	0x29e38769f23701a2e4a8ef0492...	1096.902286
3	0xb97ef9ef8734c71904d8002f8b...	0x556de94eb2b13250ed937dce5002...	17	31974624	0xee51e4a4e00df57b15a28...	0x1205f31718499dbf1fca446663...	314.828555
4	0x1205f31718499dbf1fca446663...	0xd50cad1992c830aef5a5182ea222...	24	31974624	0x491df1caa24d087569264...	0x8731d54e9d02c286767d56ac0...	383.321539
5	0x9702230a8ea53601f5cd2dc00f...	0xe12224f9b75fedb81d01e3c55c42f...	27	31974624	0xa8182c324e58f60bdc0de...	0x29e38769f23701a2e4a8ef0492...	334.323049
6	0xfab550568c688d5d8a52c7d794...	0x2a616fdbdc34a9a35893e7c4fc15b...	0	31974625	0xe743a49f04f2f77eb2d3b7...	0xce16f69375520ab01377ce7b8...	3.116711
7	0xfab550568c688d5d8a52c7d794...	0x2a616fdbdc34a9a35893e7c4fc15b...	2	31974625	0xce16f69375520ab01377c...	0x4fd39c9e151e50580779bd04b...	3.116711
8	0xfab550568c688d5d8a52c7d794...	0x2a616fdbdc34a9a35893e7c4fc15b...	5	31974625	0x4fd39c9e151e50580779b...	0x73256ec7575d999c360c1ec1...	3.116711
9	0xfab550568c688d5d8a52c7d794...	0x2a616fdbdc34a9a35893e7c4fc15b...	7	31974625	0x73256ec7575d999c360c1...	0xc97d830cc15b35d361985a48d...	3.116711
10	0xb97ef9ef8734c71904d8002f8b...	0x2a616fdbdc34a9a35893e7c4fc15b...	12	31974625	0x7ece2e39fc384d15e7004...	0x4fd39c9e151e50580779bd04b...	3.116396

Description

Field	Data type	Description
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contract_address	text	Address of interacted contract
transaction_hash	text	The hash of the transaction
log_index	bigint	The logs index position in the block
block_number	bigint	The length of the blockchain in blocks
from_address	text	Address of the sender
to_address	text	Address of the receiver
value	double precision	The amount of token sent in this transfer. The value has been divided by token decimals.

1.5. Lending events

Lending events are event logs generated by smart contracts of lending protocols. These events include actions such as deposit, withdrawal, borrow, repay, and liquidate.

Collections

Chain	Collection	Notes
Ethereum	ethereum_blockchain_etl.lending_events	
BNB Chain	blockchain_etl.lending_events	
Polygon	polygon_blockchain_etl.lending_events	
Fantom	ftm_blockchain_etl.lending_events	
Arbitrum One	arbitrum_blockchain_etl.lending_events	
Optimism	optimism_blockchain_etl.lending_events	
Avalanche C-Chain	avalanche_blockchain_etl.lending_events	

Example

```
{
  "_id": "17812114_282",
  "amount": 1.08,
  "block_number": 17812114,
  "block_timestamp": 1690795931,
  "contract_address":
"0x87870bca3f3fd6335c3f4ce8392d69350b4fa4e2",
  "event_type": "DEPOSIT",
  "log_index": 282,
  "on_behalf_of": "0x719bd84af4f2a08f3aa83037a3728cade5a43c3f",
  "reserve": "0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2",
```

```

"transaction_hash":
"0xb19d0a21590c553ec48e627b3a09e69d9a5de9f45384110536545cc66c1893b
b",
  "type": "event",
  "user": "0xd322a49006fc828f9b5b37ab215f99b4e5cab19c",
  "wallet": "0x719bd84af4f2a08f3aa83037a3728cade5a43c3f"
}

```

Description

Field	Data type	Description
_id	String	Document ID
type	String	Type of collection
amount	Double	The amount of reserve in action. The value has been divided by token decimals.
block_timestamp	Int32	The time when the block was mined that includes this transaction
block_number	Int32	The length of the blockchain in blocks
transaction_hash	String	The hash of the transaction
contract_address	String	Address of interacted contract
event_type		Type of lending event
log_index	Int32	The logs index position in the block
on_behalf_of	String	Address of wallet that received lending event result
user	String	Event's input wallet address
wallet	String	Address of wallet made the transaction
reserve	String	Address of reserve token

2. KLG data

Knowledge graph represents a network of Web3 entities—i.e. wallets, tokens, smart contracts, or projects—and illustrates the relationship between them. In this process, on-chain data related to crypto wallets and smart contracts is aggregated from the decoded raw data. Off-chain data about the entities is gathered from various sources and added to each entity on the knowledge graph. The relationships between entities on the knowledge graph are established using both on-chain transactions and events, as well as the off-chain relationships between these entities.

2.1. Projects

A project refers to blockchain initiatives, encompassing all projects deployed on blockchain, offering blockchain services, or conducting blockchain data analysis from any of the blockchain networks we support. These projects span diverse domains such as exchanges, DeFi, NFTs, or tokens.

Example

```
{
  "_id": "aave-v2",
  "name": "AAVE V2",
  "imgUrl": "https://icons.llama.fi/aave-v2.png",
  "tv1": 2935898293.830274,
  "deployedChains": ["0x1", "0x89", "0xa86a"],
  "tv1ChangeLogs": {"1691028000": 2943819900.059697, "1691031601":
2942073760.450257, "1691035201": 2935898293.830274},
  "sources": ["defillama"],
  "category": "Lending"
  "coinId": "aave",
  "tokenAddresses": {
    "0x1": "0x7fc66500c84a76ad7e9c93437bfc5ac33e2ddae9",
    "0x89": "0xd6df932a45c0f255f85145f286ea0b292b21c90b",
    "0xa86a": "0x63a72806098bd3d9520cc43356dd78afe5d386d9"
  },
  "description": "Aave is an Open Source and Non-Custodial
protocol to earn interest on deposits and borrow assets",
  "contractAddresses": {
    "0x1_0x7d2768de32b0b80b7a3454c06bdac94a69ddc7a9": "Aave:
Lending Pool V2",
    "0x1_0xd784927ff2f95ba542bfc824c8a8a98f3495f6b5": "Aave:
Incentives Controller",
    "0x1_0x028171bca77440897b824ca71d1c56cac55b68a3": "Aave: aDAI
Token V2"
  },
  "socialAccounts": {
    "website": "https://aave.com",
    "twitter": "https://twitter.com/AaveAave",
    "telegram": "https://t.me/Aavesome",
    "reddit": "https://www.reddit.com/r/Aave_Official",
    "github": "https://github.com/aave"
  },
  "parentProtocol": "aave",
  "tv1ByChains": { "0x1": 2775200083.629346, "0xa86a":
38363179.10059328, "0x89": 122335031.10033514}
}
```

Description

Field	Data type	Description
_id	String	Document ID
name	String	Name of project
description	String	Project introduction
category	String	Project category
imgUrl	String	Link to project avatar
deployedChains	Array	Supported blockchains of project
socialAccounts	Object	Website and social marketing accounts of project
parentProtocol	String	Parent project
coinId	String	ID of token issued by the project
tokenAddresses	Object	Address of tokens issued by the project
contractAddresses	Object	Address of project's contracts
tvI	Double	Total value locked by project
tvIChangeLogs	Object	History of total value locked by project
tvIByChains	Object	Total value locked by project in each deployed chain
sources	Object	Data sources

2.2. Smart contracts

A smart contract is a transaction protocol designed to autonomously execute, control, or record events and actions in accordance with the terms of a contract or agreement. Each smart contract is deployed by individuals or organizations (blockchain projects) on a specific blockchain network and can be interacted with by users on that blockchain. Depending on the code, a smart contract can take on various forms, such as a token (ERC20), NFT (ERC721), or a specialized-function smart contract within blockchain projects.

Example

```
{
  "_id": "0x1_0x7fc66500c84a76ad7e9c93437bfc5ac33e2ddae9",
  "address": "0x7fc66500c84a76ad7e9c93437bfc5ac33e2ddae9",
  "chainId": "0x1",
  "keyABI": "erc20_abi",
  "name": "Aave",
```

```

"imageUrl":
"https://assets.coingecko.com/coins/images/12645/large/AAVE.png",
  "tags": ["token"],
  "createdAt": 1600945588,
  "numberOfLastDayCalls": 752,
  "numberOfLastDayActiveUsers": 289,
    "numberOfDailyCalls": {"1690761600": 35, "1690848000": 934,
"1690934400": 752},
    "numberOfDailyActiveUsers": {"1690848000": 361, "1690934400":
289},
  "symbol": "aave",
  "decimals": 18,
  "idCoingecko": "aave",
  "tokenHealth": 577,
  "price": 64.08,
  "marketCap": 928825537,
  "tradingVolume": 120685346,
  "totalSupply": 16000000,
  "tokenDailyTransfers": {"1690761600": 2126, "1690848000": 2298,
"1690934400": 1476},
  "categories": ["Yield Farming", "Decentralized Finance (DeFi)",
"Governance"],
  "priceChangeLogs": {"1691036143": 64.24, "1691037044": 64.16,
"1691037942": 64.08},
  "marketCapChangeLogs": {"1691036143": 931425025, "1691037044":
931117114, "1691037942": 928825537},
  "tradingVolumeChangeLogs": {"1691036143": 120652302,
"1691037044": 126905985, "1691037942": 120685346},
  "numberOfHolders": 152672,
  "socialAccounts": {
    "website": "https://app.aave.com/",
    "twitter": "https://twitter.com/AaveAave",
    "telegram": "https://t.me/Aavesome",
    "reddit": "https://www.reddit.com/r/Aave_Official",
    "github": "https://github.com/aave"
  }
}

```

Description

Field	Data type	Description
_id	String	Document ID
address	String	Address of contract
chainId	String	Blockchain ID
keyABI	String	ID of contract abi

name	String	Name of contract
imgUrl	String	Link to smart contract avatar
tags	Array	List tags of contract
createdAt	Int32	Timestamp when the contract was created
numberOfLastDayCalls	Int32	The number of times the contract was called yesterday
numberOfLastDayActiveUsers	Int32	The number of users who called the contract yesterday
numberOfDailyCalls	Object	Number of times the contract is called daily
numberOfDailyActiveUsers	Object	Number of users calling the contract daily

If the contract has tags that includes token, the record may have the following additional fields:

Field	Data type	Description
symbol	String	Token symbol
decimals	Int32	Token decimals
idCoingecko	String	ID of token in CoinGecko
tokenHealth	Int32	Token Health
price	Double	Token price
marketCap	Int32	Market capitalize of token
tradingVolume	Int32	Trading volume 24h of token
totalSupply	Int32	Total supply of token
tokenDailyTransfers	Object	Daily token transfers
categories	Array	Categories of token
priceChangeLogs	Object	History of token price
marketChangeLogs	Object	History of token market cap
tradingVolumeChangeLogs	Object	History of token trading volume 24h
numberOfHolders	Int32	Number of token's holders
socialAccounts	Object	Website and social marketing accounts of token

2.3. Wallets

Crypto wallets store your private keys, keeping your crypto safe and accessible. They also allow you to send, receive, and spend cryptocurrencies like Bitcoin and Ethereum. Centic stores the asset status and tracks the activities of electronic wallets based on the transactions conducted by those wallets. We also utilize transfer and lending events to provide a more precise calculation of users' assets.

Example

```
{
  "_id": "0x38_0x01c952174c24e1210d26961d456a77a39e1f0bb0",
  "address": "0x01c952174c24e1210d26961d456a77a39e1f0bb0",
  "chainId": "0x38",
  "balanceInUSD": 3729624.9644285426,
  "balanceChangeLogs": {
    "1690934400": 4494451.188273331,
    "1691020800": 3729624.9644285426
  },
  "tokens": {
    "0x0e09fabb73bd3ade0a17ecc321fd13a19e81ce82": 15512.3111,
    "0x1d2f0da169ceb9fc7b3144628db156f3f6c60dbe": 662.1
  },
  "tokenChangeLogs": {
    "0x0e09fabb73bd3ade0a17ecc321fd13a19e81ce82": {
      "1689984000": {
        "amount": 1.956474577907406,
        "valueInUSD": 3.012970849977405
      },
      "1690070400": {
        "amount": 1.956474577907406,
        "valueInUSD": 2.973841358419257
      }
    }
  },
  "depositInUSD": 21.814046586576744,
  "depositChangeLogs": {
    "1676246400": 21.73238186765593,
    "1679270400": 21.814046586576744
  },
  "depositTokens": {
    "0x0e09fabb73bd3ade0a17ecc321fd13a19e81ce82": 0.07085473279818347
  },
  "depositTokenChangeLogs": {
    "0x0e09fabb73bd3ade0a17ecc321fd13a19e81ce82": {
      "1676246400": {
        "amount": 0.07058947564769523,
        "valueInUSD": 21.73238186765593
      },
      "1679270400": {
        "amount": 0.07085473279818347,
        "valueInUSD": 21.814046586576744
      }
    }
  },
  "borrowInUSD": 1.891,
  "borrowChangeLogs": {
    "1676246400": 7.164,
    "1679270400": 1.891
  },
  "borrowTokens": {
    "0x0e09fabb73bd3ade0a17ecc321fd13a19e81ce82": 0.07085473279818347
  },
  "borrowTokenChangeLogs": {
```

```

    "0x0e09fabb73bd3ade0a17ecc321fd13a19e81ce82": {
      "1689984000": {"amount": 1.956474577907406, "valueInUSD":
3.012970849977405},
      "1690070400": {"amount": 1.956474577907406, "valueInUSD":
2.973841358419257}
    }
  },
  "dailyAllTransactions": {"1690675200": 1369, "1690934400":
1579},
  "dailyNumberOfTransactions": {"1690761600": 1369, "1691020800":
1578},
  "dailyTransactionAmounts": {"1690588800": 1548479.7544996615,
"1690675200": 3891267.483325918},
  "numberOfLiquidation": 0,
  "totalValueOfLiquidation": 0,
  "liquidationLogs": {}
}

```

Description

Field	Data type	Description
_id	String	Document ID
address	String	Address of wallet
chainId	String	Blockchain ID
balanceInUSD	Double	Wallet balance in USD
balanceChangeLogs	Object	History of wallet balance
tokens	Object	Amount of tokens that the wallet is holding
tokenChangeLogs	Object	History of tokens that the wallet is holding
depositInUSD	Double	Wallet deposit in USD
depositChangeLogs	Object	History of wallet deposit
depositTokens	Object	Amount of tokens that the wallet is depositing
depositTokenChangeLogs	Object	History of tokens that the wallet is depositing
borrowInUSD	Double	Wallet borrow in USD
borrowChangeLogs	Object	History of wallet borrow
borrowTokens	Object	Amount of tokens that the wallet is

		borrowing
borrowTokenChangeLogs	Object	History of tokens that the wallet is borrowing
dailyAllTransactions	Object	Number of transactions the wallet address interacts daily
dailyNumberOfTransactions	Object	Number of transactions that the wallet address generates daily
dailyTransactionAmounts	Object	The amount that the wallet address receives every day
numberOfLiquidation	Int32	Number of times the wallet address has been liquidated
totalValueOfLiquidation	Double	The amount of the wallet address has been liquidated
liquidationLogs	Object	Wallet liquidation history

2.4. Relationships

The relationships between entities in the knowledge graph are constructed from both on-chain transactions and events, as well as the off-chain connections between these entities.