Subgraph Query in Python

The following example queries the Carbon DeFi Subgraph using Python.

1. Copy the following code snippet into a Python development environment:

Note that you must assign the value for"GRAPH_API_KEY" with your API key. This example acquires the key from an .env file. To get an API key, visit:https://thegraph.com/studio/apikeys/ ```

Copy importrequests importos

GRAPH_API_KEY=os.environ.get("GRT_API_KEY")

function to use requests.post to make an API call to the subgraph url

defrun_query(q):

endpoint where you are making the request

request=requests.post(f'https://gateway-arbitrum.network.thegraph.com/api/{GRAPH_API_KEY}/subgraphs/id/3oYNFcwAGk5mVtzzMTDjanoMRsZRCGk88EFRn75dLRyp'
'', json={'query': query}) ifrequest.status_code==200: returnrequest.json() else: raiseException('Query failed. return code is{}.
{}'.format(request.status_code, query))

The Graph query

query="""

{ pairs { token0 { symbol } token1 { symbol } } } """

result=run_query(query)

pairs=result['data']['pairs']

print(f"number of pairs from subgraph:{len(pairs)}") print(f"first pair:{pairs[0]}")

```

1. Run the code!

If successful, you will see a printout of:

- The number of pairs found in Carbon DeFi
- The token symbols of the first pair
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The printout should look like:

number of pairs from subgraph: 87

first pair: {'token0': {'symbol': 'BIAO'}, 'token1': {'symbol': 'ETH'}}

Previous Creating Subgraph Queries Next Sample Subgraph Queries Last updated2 months ago On this page
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