

```
# Install Required Packages of Dune and Mongo DB
```

```
!pip install pymongo pandas
! pip install dune-client
```

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Requirement already satisfied: pymongo in /usr/local/lib/python3.10/dist-packages (4.10.1)
Requirement already satisfied: pandas in /usr/local/lib/python3.10/dist-packages (2.2.2)
Requirement already satisfied: dnspython<3.0.0,>=1.16.0 in /usr/local/lib/python3.10/dist-packages (from pymongo) (2.7.0)
Requirement already satisfied: numpy>=1.22.4 in /usr/local/lib/python3.10/dist-packages (from pandas) (1.26.4)
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.10/dist-packages (from pandas) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-packages (from pandas) (2024.2)
Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.10/dist-packages (from pandas) (2024.2)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.8.2->pandas) (1.16.0)
Requirement already satisfied: dune-client in /usr/local/lib/python3.10/dist-packages (1.7.7)
Requirement already satisfied: aiohttp>=3.8.3 in /usr/local/lib/python3.10/dist-packages (from dune-client) (3.11.9)
Requirement already satisfied: dataclasses-json>=0.6.4 in /usr/local/lib/python3.10/dist-packages (from dune-client) (0.6.7)
Requirement already satisfied: types-python-dateutil>=2.8.19 in /usr/local/lib/python3.10/dist-packages (from dune-client) (2.9.0.202412)
Requirement already satisfied: types-PyYAML>=6.0.11 in /usr/local/lib/python3.10/dist-packages (from dune-client) (6.0.12.20240917)
Requirement already satisfied: types-requests>=2.28.0 in /usr/local/lib/python3.10/dist-packages (from dune-client) (2.32.0.20241016)
Requirement already satisfied: types-Deprecated>=1.2.9.3 in /usr/local/lib/python3.10/dist-packages (from dune-client) (1.2.15.20241117)
Requirement already satisfied: types-setuptools>=68.2.0.0 in /usr/local/lib/python3.10/dist-packages (from dune-client) (75.6.0.20241126)
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.10/dist-packages (from dune-client) (2.8.2)
Requirement already satisfied: requests>=2.28.0 in /usr/local/lib/python3.10/dist-packages (from dune-client) (2.32.3)
Requirement already satisfied: ndjson>=0.3.1 in /usr/local/lib/python3.10/dist-packages (from dune-client) (0.3.1)
Requirement already satisfied: Deprecated>=1.2.0 in /usr/local/lib/python3.10/dist-packages (from dune-client) (1.2.15)
Requirement already satisfied: aiohappyeyeballs>=2.3.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp>=3.8.3->dune-client) (2.3.0)
Requirement already satisfied: aiosignal>=1.1.2 in /usr/local/lib/python3.10/dist-packages (from aiohttp>=3.8.3->dune-client) (1.3.1)
Requirement already satisfied: async-timeout<6.0,>=4.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp>=3.8.3->dune-client) (4.0.3)
Requirement already satisfied: attrs>=17.3.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp>=3.8.3->dune-client) (24.2.0)
Requirement already satisfied: frozenlist>=1.1.1 in /usr/local/lib/python3.10/dist-packages (from aiohttp>=3.8.3->dune-client) (1.5.0)
Requirement already satisfied: multidict<7.0,>=4.5 in /usr/local/lib/python3.10/dist-packages (from aiohttp>=3.8.3->dune-client) (6.1.0)
Requirement already satisfied: propcache>=0.2.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp>=3.8.3->dune-client) (0.2.1)
Requirement already satisfied: yarl<2.0,>=1.17.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp>=3.8.3->dune-client) (1.18.3)
Requirement already satisfied: marshmallow<4.0.0,>=3.18.0 in /usr/local/lib/python3.10/dist-packages (from dataclasses-json>=0.6.4->dune-client) (3.22.0)
Requirement already satisfied: typing-inspect<1,>=0.4.0 in /usr/local/lib/python3.10/dist-packages (from dataclasses-json>=0.6.4->dune-client) (0.9.0)
Requirement already satisfied: wrapt<2,>=1.10 in /usr/local/lib/python3.10/dist-packages (from Deprecated>=1.2.0->dune-client) (1.17.0)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.8.2->dune-client) (1.16.0)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests>=2.28.0->dune-client) (3.4.0)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests>=2.28.0->dune-client) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests>=2.28.0->dune-client) (2.2.3)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests>=2.28.0->dune-client) (2024.12.14)
Requirement already satisfied: packaging>=17.0 in /usr/local/lib/python3.10/dist-packages (from marshmallow<4.0.0,>=3.18.0->dataclasses-json) (24.2)
Requirement already satisfied: typing-extensions>=4.1.0 in /usr/local/lib/python3.10/dist-packages (from multidict<7.0,>=4.5->aiohttp>=3.8.3->dune-client) (4.12.0)
Requirement already satisfied: mypy-extensions>=0.3.0 in /usr/local/lib/python3.10/dist-packages (from typing-inspect<1,>=0.4.0->dataclasses-json) (1.0.0)
```

```
# Connect to Dune using API Key
```

```
from dune_client.client import DuneClient
import pandas as pd
```

```
# Connect to Dune using its API generate for the user and query id generated by Dune
```

```
dune = DuneClient("xQ0GH11bpKU53Qv3c7pa1LWVHZBprAWp")
query_id = 4385897
```

```
# Run and Pull query results
```

```
try:
    query_result = dune.get_latest_result(query_id)
    print("Dune Analytics query successful.")
```

```
# Extract the rows from the query data and convert to Pandas Data Frame named bonk
```

```
data = query_result.get_rows()
if data:
    bonk = pd.DataFrame(data)
    print("DataFrame created successfully.")
    print(bonk.head())
else:
    print("No rows found in the query result.")
except Exception as e:
    print(f"Error fetching data from Dune: {e}")
```

```
Dune Analytics query successful.
DataFrame created successfully.
  amount_usd block_month block_slot block_time blockchain \
0    2.659123  2024-11-01  304132892  2024-11-28 12:42:00.000 UTC    solana
1    3.039952  2024-11-01  304133841  2024-11-28 12:48:52.000 UTC    solana
```



