

```
In [1]: import requests
import pandas as pd
```

```
In [2]: api_link = 'https://api.llama.fi/overview/fees/ethereum?excludeTotalDataChart=true&excludeTotalDataChartBreakdo
```

```
In [3]: r = requests.get(api_link)
r
```

Out[3]: <Response [200]>

```
In [4]: data = r.json()
```

```
In [5]: df = pd.DataFrame(data['protocols'])
df.head(4)
```

Out[5]:

	defillamald	name	disabled	displayName	module	category	logo	change_1d	change_7d	change_1m	dailySupplySideRevenue	dailyFees	parentProtocol	versionKey
0	2695	SmarDex	False	SmarDex	SmarDex	Dexes	https://icons.llamao.fi/icons/protocols/smarde...	-1.64	961.75	-1.43	297.506530	416.509141	NaN	
1	398	ApeSwap AMM	False	ApeSwap AMM	apeswap	Dexes	https://icons.llamao.fi/icons/protocols/apeswa...	-17.46	26.17	-36.98	NaN	1.663077	parent#apeswap	
2	116	Balancer V1	False	Balancer V1	balancer	Dexes	https://icons.llamao.fi/icons/protocols/balanc...	-15.89	-25.52	-78.14	1782.155284	1782.155284	parent#balancer	
3	2611	Balancer V2	False	Balancer V2	balancer	Dexes	https://icons.llamao.fi/icons/protocols/balanc...	-46.22	-0.57					

4 rows × 38 columns

```
In [6]: #selecting the columns I really need
df_cols = df[['defillamaId', 'name', 'module', 'category', 'change_1d', 'change_7d', 'change_1m', 'dailySupplyS
'dailyFees', 'parentProtocol', 'versionKey']]
df_cols.head(3)
```

Out[6]:

	defillamald	name	module	category	change_1d	change_7d	change_1m	dailySupplySideRevenue	dailyFees	parentProtocol	vers
0	2695	SmarDex	SmarDex	Dexes	-1.64	961.75	-1.43	297.506530	416.509141	NaN	
1	398	ApeSwap AMM	apeswap	Dexes	-17.46	26.17	-36.98	NaN	1.663077	parent#apeswap	
2	116	Balancer V1	balancer	Dexes	-15.89	-25.52	-78.14	1782.155284	1782.155284	parent#balancer	

```
In [7]: import numpy as np
df_cols.index = np.arange(1, len(df) + 1)
df_cols.head(2)
```

Out[7]:

	defillamald	name	module	category	change_1d	change_7d	change_1m	dailySupplySideRevenue	dailyFees	parentProtocol	versio
1	2695	SmarDex	SmarDex	Dexes	-1.64	961.75	-1.43	297.50653	416.509141	NaN	
2	398	ApeSwap AMM	apeswap	Dexes	-17.46	26.17	-36.98	NaN	1.663077	parent#apeswap	

```
In [8]: import sqlalchemy
import os
from sqlalchemy import create_engine
```

```
In [9]: postgresdbpass = os.environ.get('postgresdbpass')
```

```
In [10]: engine = create_engine(f'postgresql://postgres:{postgresdbpass}@localhost:5432/defi_lama_transaction_data')
```

```
In [11]: sql_connection = engine.connect()
```

```
In [12]: df_cols.to_sql('defi_lama_transaction_details', sql_connection, if_exists = 'replace')
```

Out[12]: 59

```
In [ ]:
```