

Bankit con SQLite

```
import sqlite3, pandas , matplotlib.pyplot as plt, seaborn as sns, os, pandas as pd
os.chdir('D:/files/csv/Bankit')
conn = sqlite3.connect("D:/files/csv/Bankit/Bankit.db")
```

```
df = pd.read_sql_table('TDB20295', 'sqlite:///D:/files/csv/Bankit/Bankit.db') df =
df[['DATA_OSS','LOC_CTP','SET_CTP','VALORE']].sort_values(by = 'DATA_OSS', as-
cending = True) stamen = pd.read_sql_table('DOMAIN_STAMEN', 'sqlite:///D:/files/csv/Bankit/Bankit.db')
```

TDB20295

```
sql = """SELECT data_oss, ENTE_SEGN, LOC_CTP, set_ctp, valore, b.descrizione NUT,c.descrizione
left JOIN DOMAIN_STAMEN b ON a.LOC_CTP = b.Elemento left JOIN DOMAIN_STAMEN c ON a.set_CTP =
where DATA_OSS > '2020-01-01 00:00:00' order by 1"""
df = pandas.read_sql(sql, conn)
df['DATA_OSS'] = pd.to_datetime(df['DATA_OSS'])
```

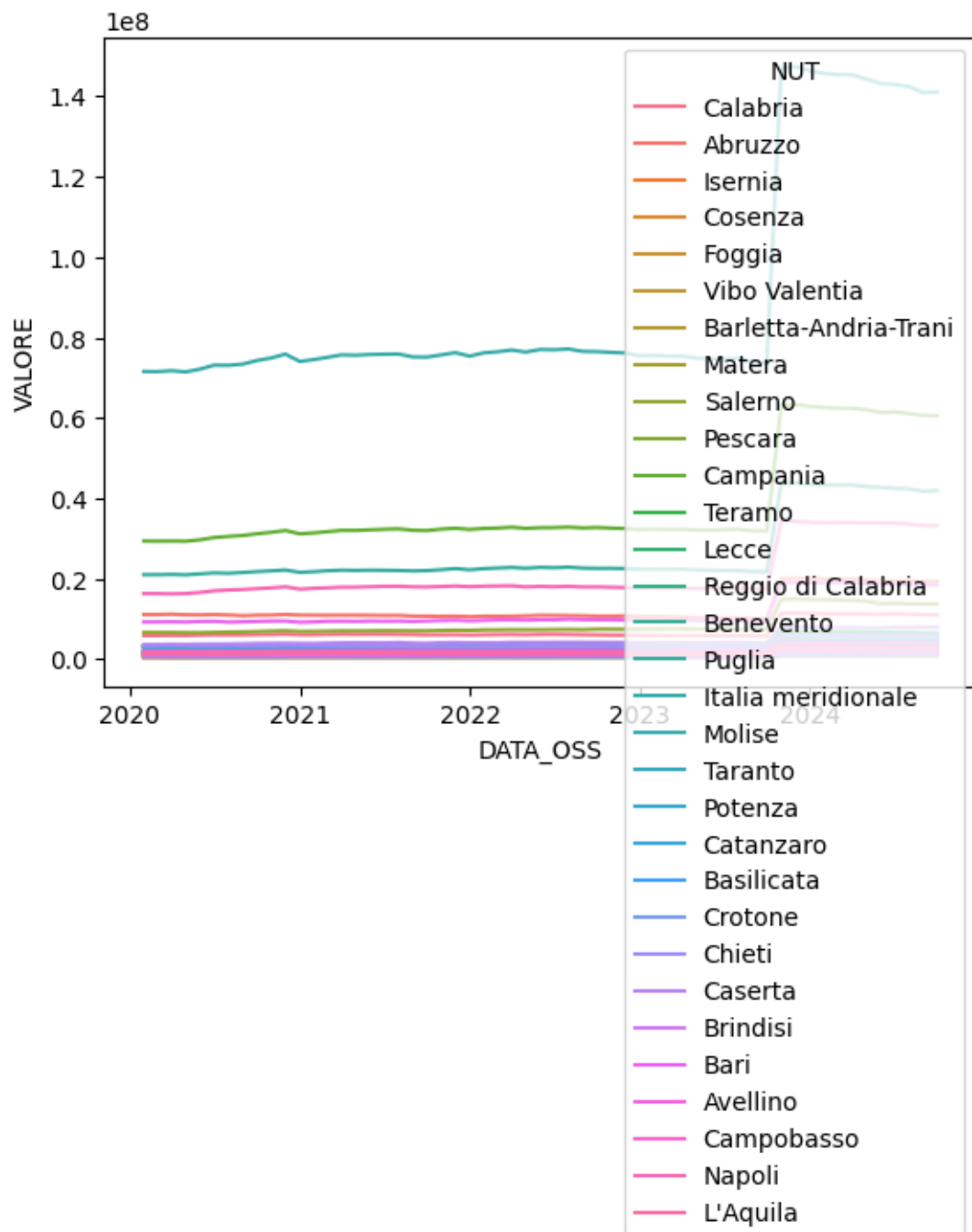
```
area =df.query('LOC_CTP.str.contains("ITF") and SET_CTP == "SBI25"')[['DATA_OSS','NUT','VALORE']]
#Umbria.query('NUT == "Umbria"]').sort_values(by = 'DATA_OSS', ascending = False)
```

```
sns.lineplot(x = "DATA_OSS", y = "VALORE", hue = "NUT", data = area);
```

```
C:\Users\PVolterr\AppData\Roaming\Python\Python311\site-packages\seaborn\_oldcore.py:1119: F
with pd.option_context('mode.use_inf_as_na', True):
C:\Users\PVolterr\AppData\Roaming\Python\Python311\site-packages\seaborn\_oldcore.py:1119: F
with pd.option_context('mode.use_inf_as_na', True):
C:\Users\PVolterr\AppData\Roaming\Python\Python311\site-packages\seaborn\_oldcore.py:1075: F
data_subset = grouped_data.get_group(pd_key)
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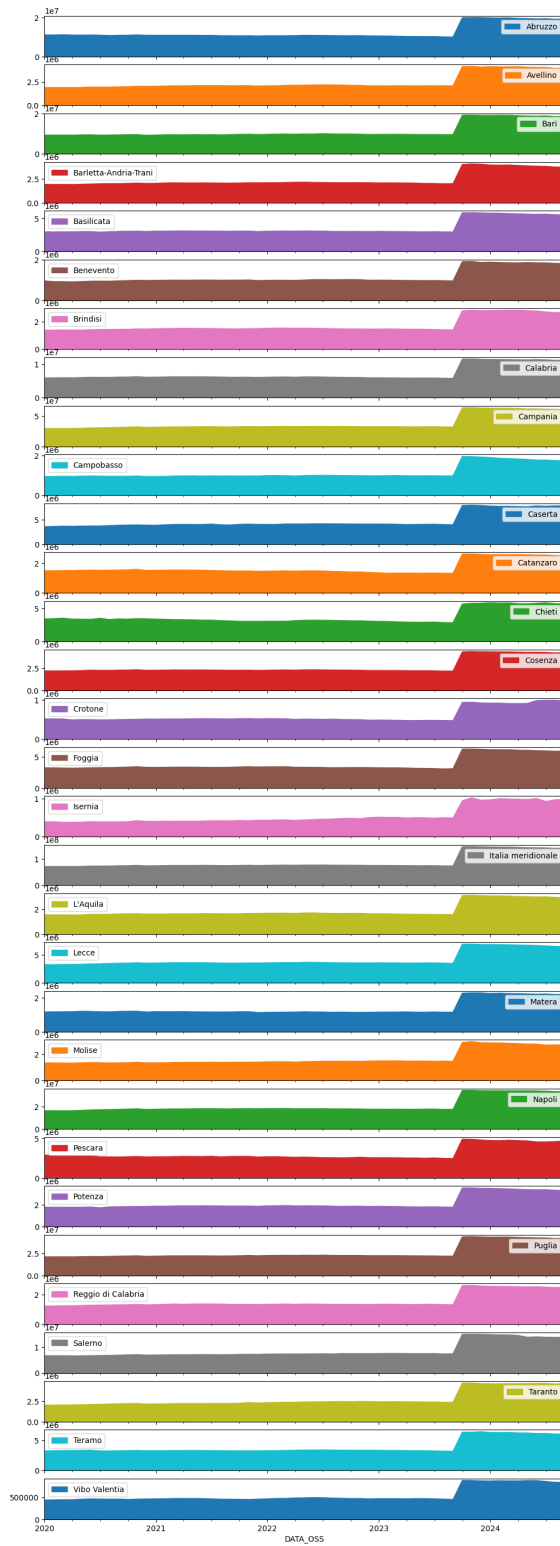
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```



area

	DATA_OSS	NUT	VALORE
35	2020-01-31	Calabria	5841016.0
44	2020-01-31	Abruzzo	11080835.0
186	2020-01-31	Isernia	388075.0
197	2020-01-31	Cosenza	2179939.0
272	2020-01-31	Foggia	3206372.0
...
166730	2024-09-30	Cosenza	4233104.0
166746	2024-09-30	Pescara	4670490.0
166786	2024-09-30	L'Aquila	2893489.0
167003	2024-09-30	Taranto	4708485.0
167048	2024-09-30	Puglia	41936569.0

```
df_pivot = area.pivot(index="DATA_OSS", columns="NUT", values="VALORE").reset_index()
axs = df_pivot.plot.area(x="DATA_OSS", figsize=(12, 35), subplots=True, legend=True)
plt.show()
```



TFR20231

```
sql = """SELECT data_oss, ENTE_SEGN, LOC_CTP, set_ctp, valore, b.descrizione NUT,c.descrizione  
left JOIN DOMAIN_STAMEN b ON a.LOC_CTP = b.Elemento left JOIN DOMAIN_STAMEN c ON a.set_CTP =  
df = pandas.read_sql(sql, conn)  
df['DATA_OSS'] = pd.to_datetime(df['DATA_OSS'])  
  
Umbria =df.query('LOC_CTP.str.contains("ITI2") and SET_CTP == "SBI25"')[['DATA_OSS','NUT','V  
Umbria.query('NUT =="Umbria"').sort_values(by = 'DATA_OSS', ascending = False).head()
```

	DATA_OSS	NUT	VALORE
101	2024-06-30	Umbria	-3.7
166	2024-03-31	Umbria	-3.5
336	2023-12-31	Umbria	-4.6
526	2023-09-30	Umbria	-8.2
574	2023-06-30	Umbria	-6.0