Banca d'Italia - sportelli

```
import pandas as pd
import sqlite3
conn = sqlite3.connect("D:/files/Bankit.sqlite")
cursor = conn.cursor()
```

```
tabella = 'TDB20220'
FENEC_values = ['30990011']
FENEC_values_str = ", ".join(f"'{val}'" for val in FENEC_values)
query = f"SELECT * FROM {tabella} where \
        FENEC in ({FENEC_values_str}) \
        and LOC_SPORT like 'ITF4%'"
df = pd.read_sql_query(query, conn)
df
```

	index	DATA_OSS	ENTE_SEGN	FENEC	LOC_SPORT	VALORE	STATUS
0	1	2023-12-31	1100010	30990011	ITF43	21	None
1	3	2023-12-31	1100010	30990011	ITF4	24	None
2	42	2023-12-31	1100010	30990011	ITF45	25	None
3	43	2023-12-31	1100010	30990011	ITF47	26	None
4	84	2023-12-31	1100010	30990011	ITF48	23	None
...	...	...	...	...	...	...	...
58	1142	2015-12-31	1100010	30990011	ITF46	33	None
59	1158	2015-12-31	1100010	30990011	ITF45	31	None
60	1179	2015-12-31	1100010	30990011	ITF44	29	None
61	1180	2015-12-31	1100010	30990011	ITF4	31	None
62	1194	2015-12-31	1100010	30990011	ITF43	26	None

```
tabella = 'TDB20220_sportelli_abitanti'
query = f"SELECT * FROM {tabella} where \
         sportello_elemento like 'ITF4%'"
```

```
df = pd.read_sql_query(query, conn)
df
```

	DATA_OSS	ente_elemento	ente_descrizione	sportello_elemento	sportello_descrizione	VALORE
0	2023-12-31	1100010	Banche	ITF43	Taranto	21
1	2023-12-31	1100010	Banche	ITF4	Puglia	24
2	2023-12-31	1100010	Banche	ITF45	Lecce	25
3	2023-12-31	1100010	Banche	ITF47	Bari	26
4	2023-12-31	1100010	Banche	ITF48	Barletta-Andria-Trani	23
...	...	...	...	...	...	...
58	2015-12-31	1100010	Banche	ITF46	Foggia	33
59	2015-12-31	1100010	Banche	ITF45	Lecce	31
60	2015-12-31	1100010	Banche	ITF44	Brindisi	29
61	2015-12-31	1100010	Banche	ITF4	Puglia	31
62	2015-12-31	1100010	Banche	ITF43	Taranto	26

```
pivot_df = pd.pivot_table(df,
                          index='DATA_OSS',
                          columns='sportello_descrizione',
                          values='VALORE',
                          aggfunc="sum")
pivot_df = pivot_df.fillna(0).astype(int).sort_values(by="DATA_OSS", ascending=False)
nuovi_nomi={"Bari":"BA","Barletta-Andria-Trani":"BAT",
            "Brindisi":"BR","Foggia":"FG","Lecce":"LE","Taranto":"TA"}
pivot_df = pivot_df.rename(columns=nuovi_nomi)
ordine_colonne = ['Puglia','BA','BAT','BR','FG','LE','TA']
pivot_df = pivot_df[ordine_colonne]


pivot_df
```

sportello_descrizione DATA_OSS	Puglia	BA	BAT	BR	FG	LE	TA
2023-12-31	24	26	23	23	23	25	21
2022-12-31	24	26	23	24	24	26	21
2021-12-31	25	27	23	23	25	26	22
2020-12-31	27	30	24	25	27	27	22
2019-12-31	27	30	25	25	28	27	23
2018-12-31	28	32	26	27	29	28	23

sportello_descrizione DATA_OSS	Puglia	BA	BAT	BR	FG	LE	TA
2017-12-31	30	33	28	26	31	29	24
2016-12-31	31	34	28	28	32	30	25
2015-12-31	31	36	28	29	33	31	26

:

```
The Kernel crashed while executing code in the current cell or a previous cell.
Please review the code in the cell(s) to identify a possible cause of the failure.
Click <a href='https://aka.ms/vscodeJupyterKernelCrash'>here</a> for more info.
View Jupyter <a href='command:jupyter.viewOutput'>log</a> for further details.
```

```
pivot_df.columns
```

```
Index(['Bari', 'Barletta-Andria-Trani', 'Brindisi', 'Foggia', 'Lecce',
       'Puglia', 'Taranto'],
      dtype='object', name='sportello_descrizione')
```

```
# Chiusura della connessione
conn.close()
```