

```
In [1]: import pandas as pd
import sqlalchemy
import psycopg2
from sqlalchemy import create_engine
import re
import pandas as pd
from sqlalchemy.types import String, Integer
import os
```

```
In [2]: engine = create_engine('postgresql://admin:secret@as7_db:5432/Names')
```

```
In [3]: for file in os.listdir("names/"):
    if file.endswith(".txt"):
        year = re.findall('\d+', file)[0]
        df = pd.read_csv("names/" + file, names = ["Name", "Sex", "Count"])
        df.to_sql(str(year),
                  engine,
                  if_exists='replace',
                  index=False,
                  dtype={"Name": String(), "Sex": String(), "Count": Integer()})
```

```
In [4]: df = pd.DataFrame(columns = ["Name", "Sex", "Count", "Year"])
for file in os.listdir("names/"):
    if file.endswith(".txt"):
        year = re.findall('\d+', file)[0]
        temp = pd.read_csv("names/" + file, names = ["Name", "Sex", "Count"])
        temp["Year"] = year
        df = pd.concat([df, temp])
        df = df.reset_index(drop = True)

df.to_sql("Full",
          engine,
          if_exists='replace',
          index=False,
          dtype={"Name": String(), "Sex": String(), "Count": Integer(), "Year": Integer()})
```

```
Out[4]: 46
```