

SQL

PGAdmin

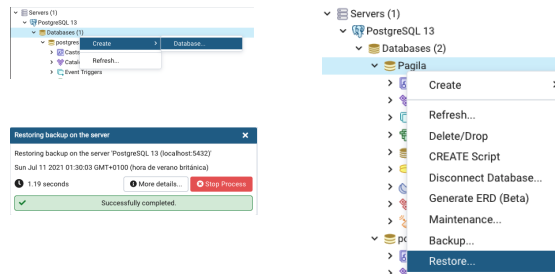
SetUp

https://youtu.be/u_gFq43p0VQ

- Download PostgreSQL (<https://www.enterprisedb.com/downloads/postgres-postgresql-downloads>)
 - Accept default installation
 - Tick everything
 - Choose a password. PostgreSQL runs as a service in the background; the PostgreSQL service account is named postgres. If you have already created a service account with the name postgres, you must specify the same password as the existing password for the postgres service account
 - Use the default port number 5432

- Import the
Pagila
database

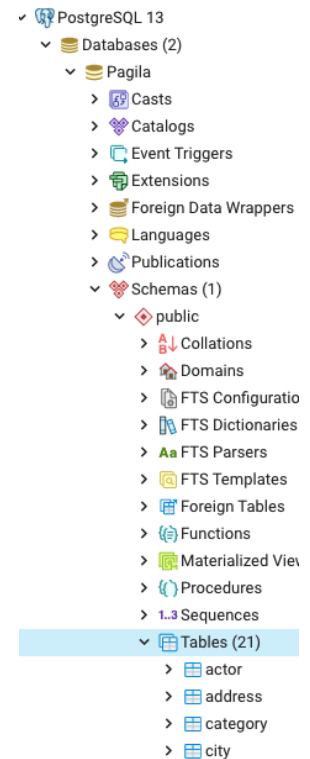
- Click on
PostgreSQL
14
- Click on
Databases
> Create >
Database
- Click on
the name
- Click
restore



- Format =
'custom or
tar'
- File =
'pagila.tar'
- Click
Schemas >
Public >
Tables

```
# initiate database | specify directory | password prompt
initdb -D DataCollectionPipeline -W
man initdb
postgres -D DataCollectionPipeline
```

- Connect to
local pc
 - Server >
Create >
Server
Group
 - Type
'localhost'
into host
address
 - Port 5432



Pandas

```
pip install SQLAlchemy psycopg2-binary
from sqlalchemy import create_engine
import psycopg2
engine = create_engine('postgresql://dbuser:dbpass@localhost:5432/sample_db')
df.to_sql('sample_table', engine, if_exists='replace')
sql_df = pd.read_sql('sample_table', engine, index_col='Respondent')
```

```
sql_df.head()  
sql_df = pd.read_sql('SELECT * FROM sample_table', engine, index_col='Respondent')
```
