

In [1]: `#pip install psycopg2-binary sqlalchemy`

```

Collecting psycopg2-binary
  Downloading psycopg2_binary-2.9.11-cp313-cp313-win_amd64.whl.metadata (5.1 kB)
Collecting sqlalchemy
  Downloading sqlalchemy-2.0.44-cp313-cp313-win_amd64.whl.metadata (9.8 kB)
Collecting greenlet>=1 (from sqlalchemy)
  Downloading greenlet-3.2.4-cp313-cp313-win_amd64.whl.metadata (4.2 kB)
Requirement already satisfied: typing-extensions>=4.6.0 in c:\users\marty\anaconda3
\envs\dse5002\lib\site-packages (from sqlalchemy) (4.15.0)
  Downloading psycopg2_binary-2.9.11-cp313-cp313-win_amd64.whl (2.7 MB)
    0.0/2.7 MB ? eta -:-:--
    0.8/2.7 MB 5.3 MB/s eta 0:00:01
    1.6/2.7 MB 5.0 MB/s eta 0:00:01
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  Downloading sqlalchemy-2.0.44-cp313-cp313-win_amd64.whl (2.1 MB)
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    2.1/2.1 MB 3.9 MB/s 0:00:00
  Downloading greenlet-3.2.4-cp313-cp313-win_amd64.whl (299 kB)
Installing collected packages: psycopg2-binary, greenlet, sqlalchemy

    1/3 [greenlet]
    1/3 [greenlet]
    2/3 [sqlalchemy]
    3/3 [sqlalchemy]
```

Successfully installed greenlet-3.2.4 psycopg2-binary-2.9.11 sqlalchemy-2.0.44  
Note: you may need to restart the kernel to use updated packages.

In [1]:

```

import psycopg2
from sqlalchemy import create_engine # If using SQLAlchemy

# Connection parameters
db_name = "chinook" # Replace with your database name (created in pgAdmin 4)
user = "heyste"      # Replace with your PostgreSQL username (e.g., 'postgres')
password = "ab"       # Replace with your PostgreSQL password
host = "localhost"   # Usually 'localhost' for a local installation
port = "5432"         # Default PostgreSQL port, verify in pgAdmin 4 if u
```

```
try:  
    # Connect using psycopg2  
    conn = psycopg2.connect(dbname=db_name, user=user, password=password, host=host  
    cursor = conn.cursor()  
    print("Successfully connected to PostgreSQL!")  
  
    # Example: Execute a query  
    cursor.execute("SELECT version();")  
    db_version = cursor.fetchone()  
    print(f"PostgreSQL version: {db_version[0]}")  
  
    # If using SQLAlchemy (optional)  
    engine = create_engine(f'postgresql://{{user}}:{{password}}@{{host}}:{{port}}/{{db_name}}')  
    print("SQLAlchemy engine created successfully.")  
  
except psycopg2.Error as e:  
    print(f"Error connecting to PostgreSQL: {e}")  
  
finally:  
    # Close the connection when done  
    if 'conn' in locals() and conn:  
        cursor.close()  
        conn.close()  
        print("PostgreSQL connection closed.")
```

Successfully connected to PostgreSQL!  
PostgreSQL version: PostgreSQL 18.0 on x86\_64-windows, compiled by msvc-19.44.35217,  
64-bit  
SQLAlchemy engine created successfully.  
PostgreSQL connection closed.

In [ ]: