Paso 1 - Instalar pymssql

```
!pip install pymssql

    Collecting pymssql

       Downloading pymssql-2.3.0-cp310-cp310-manylinux_2_28_x86_64.whl (4.6 MB)
                                                      - 4.6/4.6 MB 21.0 MB/s eta 0:00:00
     Installing collected packages: pymssql
Successfully installed pymssql-2.3.0
print("Hola Python ₫")
     Hola Python 🍳
(2 ** 10) * 4
     4096
import matplotlib.pyplot as plt
import numpy as np
x = [23, 45, 67, 34]
y = [10500, 35000, 8000, 12000]
plt.bar(x, y)
     <BarContainer object of 4 artists>
       35000
       30000
       25000
       20000
       15000
       10000
        5000
                           30
                                         40
                                                       50
                                                                     60
```

```
try:
    a = 1 / 0
except:
    print("No se pudo realizar la operación")
```

No se pudo realizar la operación

Conectar una base de datos SQL Server

```
cursor.execute("select id, name from foo")
max id = None
for row in cursor.fetchall():
 print(f"ID: {row[0]} | NAME: {row[1]}")
  if max_id == None or row[0] > max_id:
    max_id = row[0]
print(f"MAX ID: {max_id}")
     ID: 1 | NAME: Nombre Ejemplo
     ID: 2 | NAME: Otro Ejemplo
     ID: 3 | NAME: Tercer Ejemplo
     ID: 4 | NAME: Probando desde DBeaver
     ID: 5 | NAME: Hola mundo 5147
     ID: 6 | NAME: Hola mundo 1059
     ID: 7 | NAME: Hola mundo 6707
     ID: 8 | NAME: Hola mundo 3618
     ID: 9 | NAME: Hola mundo 3006
     ID: 15 | NAME: Scotia
     MAX ID: 15
import random
id = max id + 1
name = f"Hola mundo \{random.randint(1, 10_000)\}"
cursor.execute("insert into foo (id, name) values (%d, %s)", (id, name))
conn.commit()
sql = """
create table bar (
 id int primary key,
 title varchar(255)
cursor.execute(sql)
conn.commit()
actividades = ["Comprar", "Escuchar", "Lavar", "Devolver"]
objetos = ["huevo", "leche", "galletas", "música", "videos", "a la abuela", "ropa", "los tenis", "la camisa", "el estéreo"]
import random
print("Se crearán 5 TODOS")
print("=" * 80)
for i in range(5):
 cursor.execute("select top(1) id, username from users order by newid()")
  user_id, username = cursor.fetchone()
 print(f"Username: {username} ((user_id})")
title = random.choice(actividades) + " " + random.choice(objetos)
  description = f"El usuario hará la tarea de: {title}"
  print(title)
  print(description)
  print("-" * 80)
  cursor.execute(
      insert into todos (user_id, title, description, checked, create_at)
      values (%d, %s, %s, 0, sysdatetime())
      (user_id, title, description)
print("=" * 80)
print("Se crearon los 5 TODOS, vamos a insertarlos")
conn.commit()
     Se crearán 5 TODOS
     Username: daniela98 (3)
     Comprar a la abuela
     El usuario hará la tarea de: Comprar a la abuela
     Username: daniela98 (3)
     Devolver ropa
     El usuario hará la tarea de: Devolver ropa
     Username: daniela98 (3)
     Escuchar huevo
     El usuario hará la tarea de: Escuchar huevo
     Username: paty123 (1)
```