## Curso de SQL Avanzado







## Scotiabank | Belatrix

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## Sesión 05

```
!pip install pymssql
lacksquare Collecting pymssql
      Installing collected packages: pymssql
Successfully installed pymssql-2.3.0
import pymssql
conn = pymssql.connect("3.93.192.216", "test_curso", "TestCurso$123", "test_curso")
cursor = conn.cursor()
print("Cursor creado")
     Cursor creado
cursor.execute("""
select @@version
column1, = cursor.fetchone()
print(column1)
     Microsoft SQL Server 2019 (RTM-CU25) (KB5033688) - 15.0.4355.3 (X64)
            Jan 30 2024 17:02:22
            Copyright (C) 2019 Microsoft Corporation
            Express Edition (64-bit) on Windows Server 2019 Datacenter 10.0 <X64> (Build 17763: ) (Hypervisor)
cursor.execute("""
select id, dbo.countTodosByUserId(id) from users;
user_ids = []
todos_counts = []
for id, todosCount in cursor.fetchall():
 print(f"ID: {id} | TODOS COUNT: {todosCount}")
 user_ids.append(id)
 todos_counts.append(todosCount)
print(user_ids)
print(todos_counts)
import seaborn as sns
sns.barplot(x=user_ids, y=todos_counts)
```

```
ID: 1 | TODOS COUNT: 46
ID: 2 | TODOS COUNT: 39
     ID: 3 | TODOS COUNT: 40
     [1, 2, 3]
     [46, 39, 40]
<Axes: >
cursor.execute("""
create function dbo.hello()
returns varchar(255)
begin
 -- TODO: Más lógica
 return 'Hello SQL Server from Function 🤞'
end
""")
conn.commit()
      20 7
cursor.execute("select dbo.hello()")
for saludo, in cursor.fetchall():
 print(saludo)
     Hello SQL Server from Function ??
```

## Llamar a un procedimiento almacenado desde pymssql

```
username = input("Nombre de usuario: ")
password = input("Contraseña: ")
firstname = input("Nombre de la persona: ")
lastnname = input("Apellidos de la persona: ")
cursor.execute(
      declare @lastId int;
      execute dbo.createUser
        @username = %s,
        @password = %s,
        @firstname = %s,
@lastname = %s,
@insertedId = @lastId output
    select isnull(@lastId, -1);
""",
    (username, password, firstname, lastnname)
id, = cursor.fetchone()
print(f"ID: {id}")
conn.commit()
     Nombre de usuario: zz
     Contraseña: zz123
     Nombre de la persona: ZZ
Apellidos de la persona: TT
Comienza a programar o generar con IA.
```