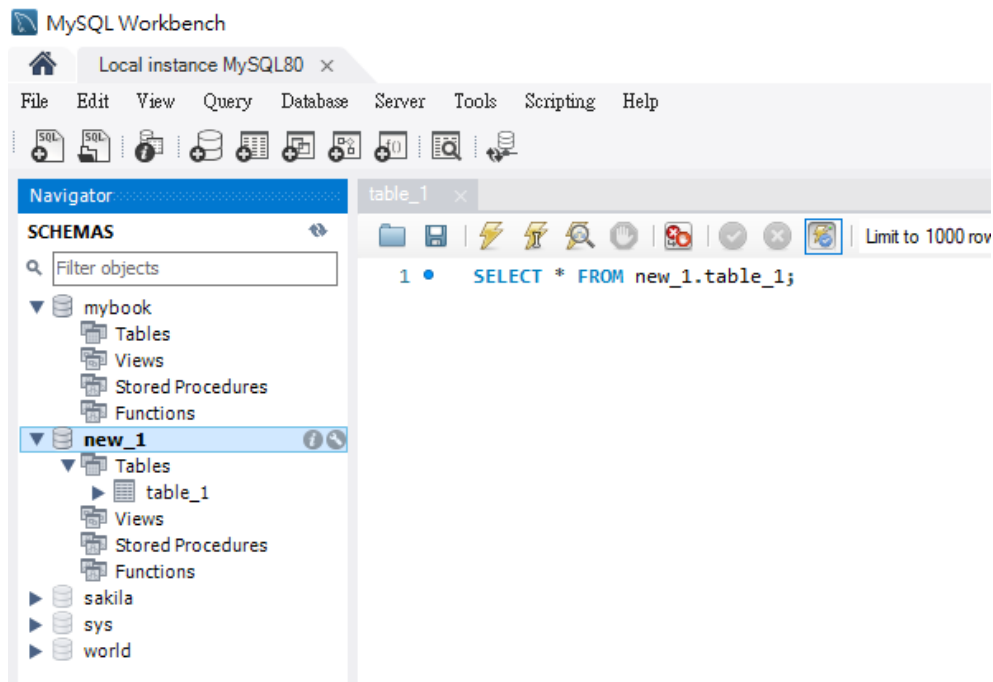


建立資料庫連線

建立資料庫連線，連接MYSQL伺服器，才能針對資料庫執行指令。

1. 先建立好資料庫，在MYSQL workbench建立"new_1" (Schemas create)，並且切換(雙擊 反黑)至該資料庫



=====

2. PyCharm執行連線(先買綠色乖乖，不知道為什麼無法連線到已建立的資料庫new_1，但是主管一來就又連線的上去)，確定執行連線後再操作後續步驟

```
import pymysql

dbhost = "localhost"

dbuser = "root"

dbpassword = "allen33323"

dbname = "new_1"
#pymysql.connect內各元素，分別指派給變數，使用以下語法會報錯
#db = pymysql.connect("localhost", "root", "allen33323", "new_1", charset="utf8")
#以上會顯示TypeError: __init__() takes 1 positional argument but 5 were given

try:
    db = pymysql.connect(host=dbhost, user=dbuser, password=dbpassword, database=dbname, charset="utf8")
    print("success")
```

```
except pymysql.Error as e:
    print("False" + str(e))
```

```
D:\scan\envs\evan\python.exe C:/Users/226083/PycharmProjects/pythonProject1/test4.py
success
```

=====

3. 建立操作游標 & 功能測試(取的版本編號)

```
import pymysql

dbhost = "localhost"

dbuser = "root"

dbpassword = "allen33323"

dbname = "new_1"

try:
    db = pymysql.connect(host=dbhost , user=dbuser , password=dbpassword , database=dbname , charset="utf8")
    print("success")

except pymysql.Error as e:
    print("False" + str(e))

#建立操作游標
cursor = db.cursor()

#SQL語法 (查詢資料庫版本)
#執行語法: cursor.execute()
cursor.execute("SELECT VERSION()")

#選取第一筆結果
data = cursor.fetchone()

print ("Database version : " , data)
```

```
D:\scan\envs\evan\python.exe C:/Users/226083/PycharmProjects/pythonProject1/test4.py
success
Database version : 8.0.31
```