## **TP: Les transactions**

# **Brahmi Nasma**

## 1/ - Affichage des lignes à modifier avant la transaction :

```
[17]: import mysql.connector
         from mysql.connector import errors
             conn = mysql.connector.connect(host="localhost",user="root",password="", database="exo01")
            cursor = conn.cursor()
            query_1 = "SELECT * FROM departement WHERE departement_id = 6 OR departement_id = 8"
            cursor.execute(query_1)
             data = cursor.fetchall()
             print(data)
Le résultat :
```

```
conn.close()
[(6, '06', 'Alpes-Maritimes', 'ALPES-MARITIMES', 'alpes-maritimes', 'A41256352'), (8, '08', 'Ardennes', 'ARDENNES', 'ardennes', 'A6352')]
```

#### 2/ - La transaction qui commence avec commit :

```
[22]: import mysql.connector
       from mysql.connector import errors
       import tkinter as tk
           conn = mysql.connector.connect(host="localhost",user="root",password="", database="exo01")
           cursor = conn.cursor()
            query_1 = "SELECT * FROM departement WHERE departement_id = 6 OR departement_id = 8"
           cursor.execute(query_1)
            print(data)
           sql_update_query_1 = "UPDATE departement SET departement_nom = 'TEST TRANSACTION' WHERE departement_id = 6"
sql_update_query_2 = "UPDATE departement SET departement_nom = 'TEST TRANSACTION 2' WHERE departement_id = 8"
            cursor.execute(sql_update_query_1)
           cursor.execute(sql_update_query_2)
            query_2 = "SELECT * FROM departement WHERE departement_id = 6 OR departement_id = 8"
           cursor.execute(query_1)
           data 2 = cursor.fetchall()
           print(data_2)
       except errors.Error as e:
    conn.rollback() # rollback changes
            print("Rolling back ...")
            print(e)
                                                                                                                               Activer Windows
       conn.close()
                                                                                                                                 ccédez aux paramètres pour ac
```

#### Le résultat :

```
[(6, '06', 'TEST TRANSACTION', 'ALPES-MARITIMES', 'alpes-maritimes', 'A41256352'), (8, '08', 'TEST TRANSACTION 2', 'ARDENNES', 'ardennes', 'A6352')]
[(6, '06', 'TEST TRANSACTION', 'ALPES-MARITIMES', 'alpes-maritimes', 'A41256352'), (8, '08', 'TEST TRANSACTION 2', 'ARDENNES', 'ardennes', 'A6352')]
:
```

### 3/ - La transaction qui commence avec rollback :

```
[25]: import mysql.connector
      from mysql.connector import errors
      import tkinter as tk
          conn = mysql.connector.connect(host="localhost",user="root",password="", database="exo01")
          cursor = conn.cursor()
          query_1 = "SELECT * FROM departement WHERE departement_id = 6 OR departement_id = 8"
          cursor.execute(query_1)
           data = cursor.fetchall()
          print(data)
          conn.start_transaction()
          sql_update_query_1 = "UPDATE departement SET departement_nom = 'TEST ROLLBACK' WHERE departement_id = 6" sql_update_query_2 = "UPDATE departement SET departement_nom = 'TEST ROLLBACK 2' WHERE departement_id = 8"
          cursor.execute(sql_update_query_1)
cursor.execute(sql_update_query_2)
          #conn.commit()
          conn.rollback()
          query_2 = "SELECT * FROM departement WHERE departement_id = 6 OR departement_id = 8"
          cursor.execute(query_1)
          data_2 = cursor.fetchall()
          print(data_2)
      except errors.Error as e:
          conn.rollback() # rollback changes
          print("Rolling back ...")
          print(e)
      conn.close()
                                                                                                                              Accédez aux paramètres poi
```

#### Le résultat :

```
[(6, '06', 'TEST TRANSACTION', 'ALPES-MARITIMES', 'alpes-maritimes', 'A41256352'), (8, '08', 'TEST TRANSACTION 2', 'ARDENNES', 'ardennes', 'A6352')]
[(6, '06', 'TEST TRANSACTION', 'ALPES-MARITIMES', 'alpes-maritimes', 'A41256352'), (8, '08', 'TEST TRANSACTION 2', 'ARDENNES', 'ardennes', 'A6352')]
```