Entrée [ ]:
```
import mysql.connector
from mysql.connector import Error
```

TEST - Liste des bases sur serveur MYSQL

Entrée [ ]:
```
mydb = mysql.connector.connect(
  host="localhost",
  port=3308,
  user="BASTIER",
  passwd="DA2019"
)
```

Entrée [ ]:
```
mycursor = mydb.cursor()
mycursor.execute("SHOW DATABASES")

for x in mycursor:
  print(x)

if (mydb.is_connected()):
    mycursor.close()
    mydb.close()
    print("La connection est fermée")
```

TEST - CONNECTION A LA BASE BIHR_DB

Entrée [ ]:
```
try:
    connection = mysql.connector.connect(host="localhost",
                                         port=3308,
                                         database='bihr_db',
                                         user="BASTIER",
                                         passwd="DA2019"
                                         )
    if connection.is_connected():
        db_Info = connection.get_server_info()
        print("Connected to MySQL Server version ", db_Info)
        cursor = connection.cursor()
        cursor.execute("select database();")
        record = cursor.fetchone()
        print("You're connected to database: ", record)

except Error as e:
    print("Error while connecting to MySQL", e)
finally:
    if (connection.is_connected()):
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

Create Category table

Entrée [ ]:
```
try:
    connection_config = {
                         'host':"localhost",
                         'port': 3308,
                         'database': 'bihr_db',
                         'user': 'BASTIER',
                         'passwd': "DA2019",
                         'autocommit': True
                         }

    connection = mysql.connector.connect(**connection_config)

    mySql_Create_Table_Query = """CREATE TABLE Category (
                               categoryId char(6) NOT NULL,
                               DESCRIPTION varchar(250) NOT NULL,
                               PARENT char(6),
                               PRIMARY KEY (categoryId)) """

    cursor = connection.cursor()
    result = cursor.execute(mySql_Create_Table_Query)
    print("Category table created successfully ")

except mysql.connector.Error as error:
    print("Failed to create table in MySQL: {}".format(error))
finally:
    if (connection.is_connected()):
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

Create Product table

Entrée [ ]:
```
productQuery = """ CREATE TABLE Product (
            barCode varchar(255),
            brandId VARCHAR(255),
            discountClass VARCHAR(255),
            endOfLifeProduct BOOLEAN,
            furtherDescription VARCHAR(255),
            height MEDIUMINT,
            ispartialshippingallowed BOOLEAN,
            isremainingonbackorderallowed BOOLEAN,
            length MEDIUMINT ,
            longDescription_1 VARCHAR(255),
            longDescription_2 VARCHAR(255),
            longDescription_3 VARCHAR(255),
            productId VARCHAR(255),
            publicPriceHT DECIMAL(10,2),
            publicPriceTTC DECIMAL(10,2),
            salesMultiple TINYINT unsigned,
            shortDescription_1 VARCHAR(255),
            shortDescription_2 VARCHAR(255),
            shortDescription_3 VARCHAR(255),
            volume MEDIUMINT ,
            weight SMALLINT ,
            width MEDIUMINT ,
            parentProduct char(6) NOT NULL,
            PRIMARY KEY (productId) ,
            FOREIGN KEY (parentProduct) REFERENCES Category(categoryId)
            )"""
```

Entrée [ ]:
```
try:
    connection_config = {
                         'host':"localhost",
                         'port': 3308,
                         'database': 'bihr_db',
                         'user': 'BASTIER',
                         'passwd': "DA2019",
                         'autocommit': True
                         }

    connection = mysql.connector.connect(**connection_config)

    cursor = connection.cursor()
    result = cursor.execute(productQuery)
    print("Product table created successfully ")

except mysql.connector.Error as error:
    print("Failed to create table in MySQL: {}".format(error))
finally:
    if (connection.is_connected()):
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

Create Attribute table

Entrée [ ]:
```
attributeQuery = """ CREATE TABLE Attribute (
                    attributeID SMALLINT PRIMARY KEY,
                    textFr VARCHAR(255)
                    )"""
```

Entrée [ ]:
```
try:
    connection_config = {
                         'host':"localhost",
                         'port': 3308,
                         'database': 'bihr_db',
                         'user': 'BASTIER',
                         'passwd': "DA2019",
                         'autocommit': True
                         }

    connection = mysql.connector.connect(**connection_config)

    cursor = connection.cursor()
    result = cursor.execute(attributeQuery)
    print("Attribute table created successfully ")

except mysql.connector.Error as error:
    print("Failed to create Attribute table in MySQL: {}".format(error))
finally:
    if (connection.is_connected()):
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

Create Image table

Entrée [ ]:
```
ImageQuery = """ CREATE TABLE Image (
                    defaultDocumentId  VARCHAR(255),
                    urlImage VARCHAR(255),
                    isDefault BOOLEAN,
                    productId VARCHAR(255) NOT NULL,
                    FOREIGN KEY (productId) REFERENCES Product(productId)
                    )"""
```

Entrée [ ]:
```
try:
    connection_config = {
                         'host':"localhost",
                         'port': 3308,
                         'database': 'bihr_db',
                         'user': 'BASTIER',
                         'passwd': "DA2019",
                         'autocommit': True
                         }

    connection = mysql.connector.connect(**connection_config)

    cursor = connection.cursor()
    result = cursor.execute(ImageQuery)
    print("Image table created successfully ")

except mysql.connector.Error as error:
    print("Failed to create table in MySQL: {}".format(error))
finally:
    if (connection.is_connected()):
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

Create DealerPrice table

Entrée [ ]:
```
dealerPriceQuery = """ CREATE TABLE DealerPrice (
                    dealerPriceHT DECIMAL (10,2),
                    productId VARCHAR(255),
                    discountRate DECIMAL (5,2),
                    FOREIGN KEY (productId) REFERENCES Product(productId)
                    )"""
# Attention :discountRate non implémenté dans API de prod
```

Entrée [ ]:
```
try:
    connection_config = {
                         'host':"localhost",
                         'port': 3308,
                         'database': 'bihr_db',
                         'user': 'BASTIER',
                         'passwd': "DA2019",
                         'autocommit': True
                         }

    connection = mysql.connector.connect(**connection_config)

    cursor = connection.cursor()
    result = cursor.execute(dealerPriceQuery)
    print("DealerPrice table created successfully ")

except mysql.connector.Error as error:
    print("Failed to create table in MySQL: {}".format(error))
finally:
    if (connection.is_connected()):
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

Create productAttribute table

Entrée [ ]:
```
productAttributeQuery = """ CREATE TABLE productattribute (
                            productId VARCHAR(255) NOT NULL,
                            attributes JSON,
                            FOREIGN KEY (productId) REFERENCES Product(productId)
                            )"""
```

Entrée [ ]:
```
try:
    connection_config = {
                         'host':"localhost",
                         'port': 3308,
                         'database': 'bihr_db',
                         'user': 'BASTIER',
                         'passwd': "DA2019",
                         'autocommit': True
                         }

    connection = mysql.connector.connect(**connection_config)

    cursor = connection.cursor()
    result = cursor.execute(productAttributeQuery)
    print("productAttribute table created successfully ")

except mysql.connector.Error as error:
    print("Failed to create productAttribute table in MySQL: {}".format(error))
finally:
    if (connection.is_connected()):
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

Entrée [ ]:
```

```