Module 09. Pymysql

September 26, 2018

```
In [6]: import pymysql as sql

        db = sql.connect("localhost", "root", "12345","mydb")
        cursor = db.cursor()
        print("Connection established!!")
```

```
Connection established!!
```

```
In [4]: print(db)
        print(cursor)
```

```
<pymysql.connections.Connection object at 0x055B9FB0>
<pymysql.cursors.Cursor object at 0x03CB3DD0>
```

```
In [5]: cursor.execute("SELECT VERSION()")
        data = cursor.fetchone()
        print(data)
```

```
('5.5.59',)
```

```
In [6]: print(data)

        print("Database version : ", data[0])
```

```
('5.5.59',)
Database version :  5.5.59
```

0.0.1 Select Query

```
In [6]: import pymysql as sql
        sqlQuery = "select * from icecream"

        try:
            db = sql.connect("localhost", "root", "12345","mydb")
```

```
        cursor = db.cursor()
        cursor.execute(sqlQuery)  # Execute the SQL command

    #     print("No of rows fetched : ", cursor.rowcount)  # returns the number of rows th

    #     results = cursor.fetchone()  # Fetch all the rows in a list of lists.
        results = cursor.fetchall()  # Fetch all the rows in a list of lists.

    #     print(results)

        for row in results:
            for ele in row:
                print(ele, end="\t")
            print()

    except Exception:
        print("Error: unable to fetch data")

    db.close()
```

```
1       mango       candy       50
2       Choco Chips       combopacks       90
3       Buterscotch       cups       50
4       American Nuts       combopacks       120
5       Almond Chocobar       candy       70
6       Black current       cups       60
7       Choco Brownie       combopacks       130
8       Strawberry       cups       40
9       Chicoo       cups       60
10      malai kulfi       candy       60
11      Mango kulfi       candy       80
12      Strawberry       candy       90
13      Vanilla       cups       30
14      Pista       combopacks       40
```

0.0.2 Insert Query

```
In [14]: import pymysql as sql

        db = sql.connect("localhost", "root", "12345","mydb")
        cursor = db.cursor()

        sqlQuery = "INSERT INTO student (name,marks) VALUES ('Ashish',79)"

        try:
            cursor.execute(sqlQuery)  # Execute the SQL command
            db.commit()  # Commit your changes in the database
```

```
            print("Inserted data successfully!!!")
        except Exception:
            print("Exception")
            db.rollback()  # Rollback in case there is any error
        db.close()
```

```
Inserted data successfully!!!
```

0.0.3 Update Query

```
In [15]: import pymysql as sql

         db = sql.connect("localhost", "root", "12345","mydb")
         cursor = db.cursor()

         sqlQuery = "UPDATE student SET  marks = 80 WHERE name = 'Ashish'"

         try:
             cursor.execute(sqlQuery)  # Execute the SQL command
             db.commit()  # Commit your changes in the database
             print("Updated Successfully")
         except:
             print("Exception")
             db.rollback()  # Rollback in case there is any error
         db.close()
```

```
Updated Successfully
```

0.0.4 Delete Query

```
In [13]: import pymysql as sql

         db = sql.connect("localhost", "root", "12345","mydb")
         cursor = db.cursor()

         sqlQuery = "DELETE FROM student WHERE name ='Sam'"

         try:
             cursor.execute(sqlQuery)  # Execute the SQL command
             db.commit()  # Commit your changes in the database
         except Exception:
             print("Error in deletion")
             db.rollback()  # Rollback in case there is any error
```

0.0.5 Close Database

```
In [31]: db.close()
```

In [20]:
```
import pymysql as sql

db = sql.connect("localhost", "root", "12345","mydb")
cursor = db.cursor()

sqlQuery = "SELECT name, category, price FROM icecream"

try:
    cursor.execute(sqlQuery)  # Execute the SQL command
    results = cursor.fetchall()
    with open("IceCreamInventory.txt", "w") as f:
        for row in results:
            s = ""
            for ele in row:
                s += "{} \t".format(ele)
            else:
                s += "\n"
            f.write(s)

except Exception:
    print("Error in deletion")
```

In [19]:
```
import pymysql as sql

with open("IceCreamInventory.txt", "r") as f:
    lines = f.readlines()

lines = list(map(lambda x: list((x.strip()).split(" \t"))  ,lines))

print(lines)

db = sql.connect("localhost", "root", "12345","mydb")
cursor = db.cursor()

for line in lines:
    sqlQuery = "INSERT INTO icecream (name,category,price) VALUES ('{}','{}',{})".for

    try:
        cursor.execute(sqlQuery)  # Execute the SQL command
        db.commit()  # Commit your changes in the database
        print("Inserted data successfully!!!")
    except Exception:
        print("Exception")
        db.rollback()  # Rollback in case there is any error

db.close()
```

```
[['mango', 'candy', '50'], ['Choco Chips', 'combopacks', '90'], ['Buterscotch', 'cups', '50'],
Inserted data successfully!!!
```

```
Inserted data successfully!!!
Inserted data successfully!!!
Inserted data successfully!!!
Inserted data successfully!!!
Inserted data successfully!!!
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```

In [23]:
```
with open("IceCreamInventory.txt", "r") as f:
    data = f.readlines()

lines = list(map(lambda x: list((x.strip()).split(" \t"))  ,data))

print(lines)
```

```
[['mango', 'candy', '50'], ['Choco Chips', 'combopacks', '90'], ['Buterscotch', 'cups', '50'],
```

In [ ]: