

Install mysql.connector for Python on CentOS 7

MySQL Connector/Python enables Python programs to access MySQL databases, using an API that is compliant with the Python Database API Specification v2.0 (PEP 249). It also contains an implementation of the X DevAPI, an Application Programming Interface for working with the MySQL Document Store.

```
sudo yum -y install mysql-connector-python
```

Example:

```

$ sudo yum install -y mysql-connector-python
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
epel/x86_64/metalink | 25 kB 00:00
* base: asi-fs-w.contabo.net
Excluding mirror: mirror.sfo12.us.leaseweb.net
* epel: ziplly.mm.fcix.net
* extras: mirror.fcix.net
* remi-php74: ftp.riken.jp
* remi-safe: ftp.riken.jp
Excluding mirror: mirror.mia11.us.leaseweb.net
* updates: asi-fs-w.contabo.net
base | 3.6 kB 00:00:00
epel | 4.7 kB 00:00:00
extras | 2.9 kB 00:00:00
mysql-connectors-community | 2.6 kB 00:00:00
mysql-tools-community | 2.6 kB 00:00:00
mysql57-community | 2.6 kB 00:00:00
remi-php74 | 3.0 kB 00:00:00
remi-safe | 3.0 kB 00:00:00
updates | 2.9 kB 00:00:00
(1/3): epel/x86_64/updateinfo | 1.0 MB 00:00:00
(2/3): epel/x86_64/primary_db | 7.0 MB 00:00:00
(3/3): remi-safe/primary_db | 2.3 MB 00:00:02
Resolving Dependencies
--> Running transaction check
--> Package mysql-connector-python.x86_64 0:8.0.23-1.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
mysql-connector-python x86_64 8.0.23-1.el7 mysql-connectors-community 11 M

Transaction Summary
=====
Install 1 Package

Total download size: 11 M
Installed size: 51 M
Downloading packages:
mysql-connector-python-8.0.23-1.el7.x86_64.rpm | 11 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : mysql-connector-python-8.0.23-1.el7.x86_64 1/1
Verifying : mysql-connector-python-8.0.23-1.el7.x86_64 1/1

Installed:
mysql-connector-python.x86_64 0:8.0.23-1.el7

Complete!

```

Reference class for ckmysql.py

ckmysql.py

```
"""
" Copyright ckii.com <http://ckii.com>
" =====
"
" @file          _lib/ckmysql.py
" @brief         ckmysql
" @author        Chun Kang (ck@ckii.com)
"
" @notes
" 2023.01.17    created
"
"""

import mysql.connector

class ckmysql(object):

    # Static variable for object member
    user = ''
    password = ''
    host = ''
    database = ''
    connector = None
    cursor = None

    def __init__( self, user='nobody', password='my_password', host='127.0.0.1', database='my_db'):
        self.user = user
        self.password = password
        self.host = host
        self.database = database

    def init(self):
        if self.connector == None:
            self.connector = mysql.connector.connect( user=self.user, password=self.password,
            host=self.host, database=self.database)
            self.cursor = self.connector.cursor()
        return

    def query( self, sql):
        self.init()
        rows = None
        if (self.cursor):
            self.cursor.execute(sql)
            rows = self.cursor.fetchall()
        return rows
```

Below example shows the example to use the class defined in ckmysql.py

test.py

```
from ckmysql import ckmysql

db = ckmysql() # if you want to use the default settings defined in the class
r = db.query("select * from test limit 5")
print(r)
```

Above case is based in using the default database connection information and below is based in the connection environment like user_id, password, server and database.

```
from ckmysql import ckmysql

db = ckmysql( 'my_id', 'my_password', '127.0.0.1', 'my_db')
r = db.query("select * from test limit 5")
print(r)
```