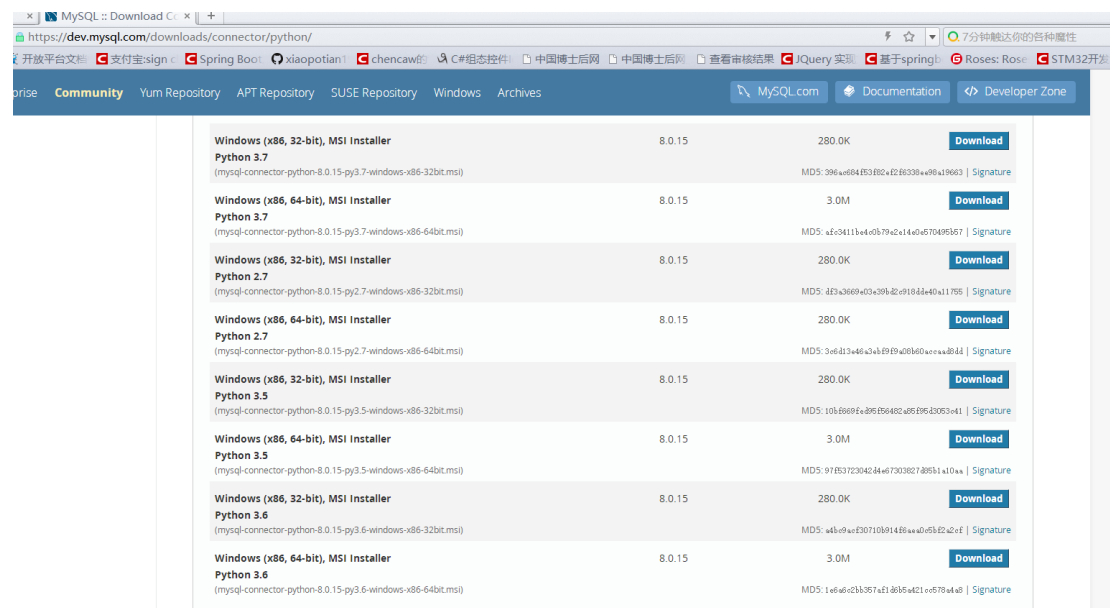


基础六、python 连接 mysql

6.1 安装 python 版本的 mysql 驱动

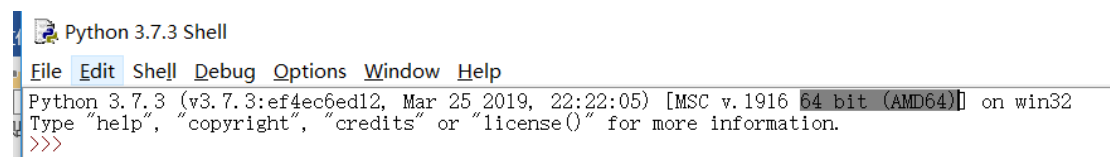
1、下载地址为

<https://dev.mysql.com/downloads/connector/python/>



2、由于我们的 python 版本为 3.7.3，所以选择 3.7 版本 64 位的下载

(1) 看清楚自己的 python 版本，选择对于的下载



(2) 选择的 python connect 版本



(3) 选择 no thanks 直接下载

Begin Your Download

mysql-connector-python-8.0.15-py3.6-windows-x86-64bit.msi

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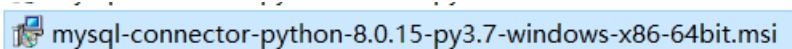
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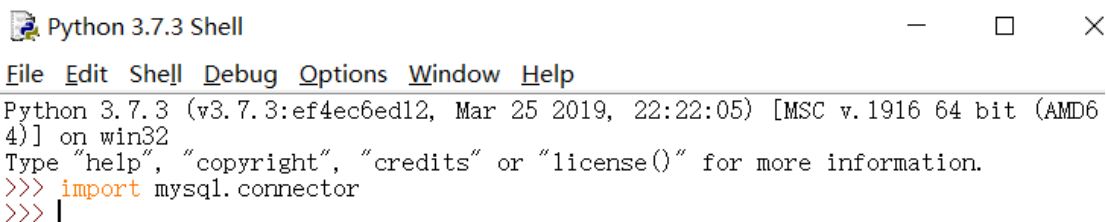
MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can sign up for a free account by clicking the Sign Up link and following the instructions.

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(4) 点击下载的文件完成安装



(5) 测试是否安装成功



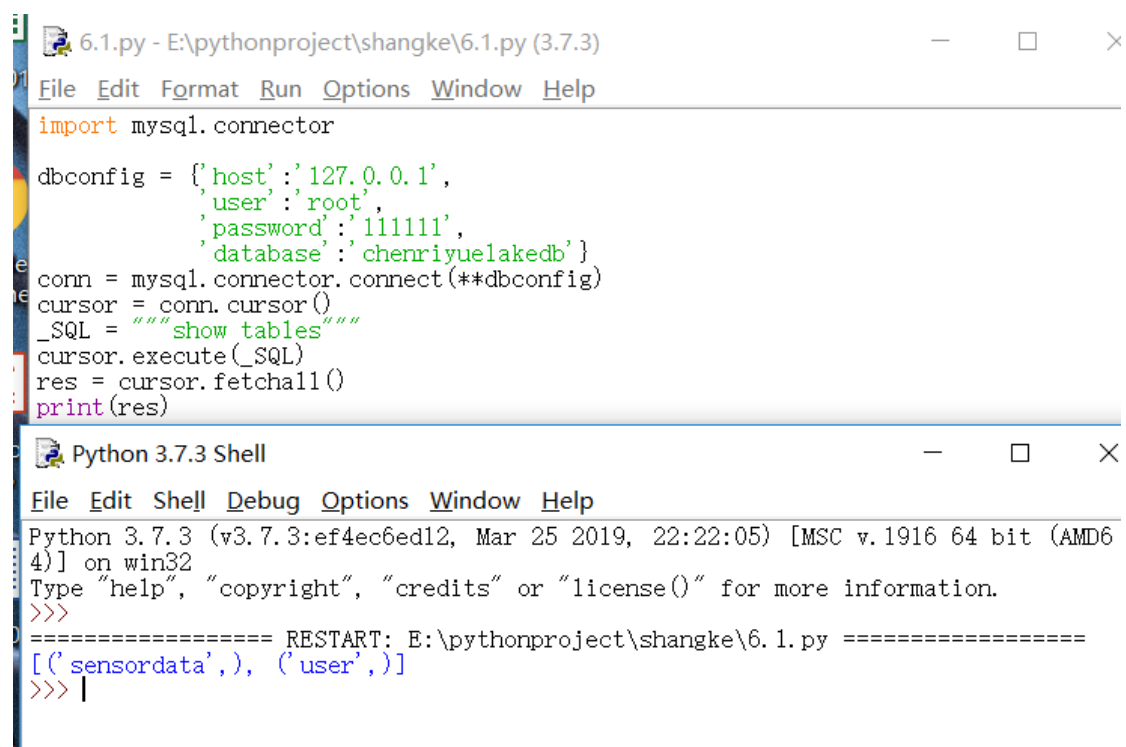
6.2 python 读取 mysql 测试

1、基础测试代码

```
import mysql.connector

dbconfig = {'host':'127.0.0.1',
            'user':'root',
            'password':'111111',
            'database':'chenriyuelakedb'}
conn = mysql.connector.connect(**dbconfig)
cursor = conn.cursor()
_SQL = "show tables"
cursor.execute(_SQL)
res = cursor.fetchall()
print(res)
```

2、实际输出




```
6.1.py - E:\pythonproject\shangke\6.1.py (3.7.3)
File Edit Format Run Options Window Help
import mysql.connector

dbconfig = {'host': '127.0.0.1',
            'user': 'root',
            'password': '111111',
            'database': 'chenriyuelakedb'}
conn = mysql.connector.connect(**dbconfig)
cursor = conn.cursor()
_SQL = """show tables"""
cursor.execute(_SQL)
res = cursor.fetchall()
print(res)

Python 3.7.3 Shell
File Edit Shell Debug Options Window Help
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 22:22:05) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\pythonproject\shangke\6.1.py =====
[('sensordata',), ('user',)]
>>> |
```

6.3 python 的 mysql 封装

- 1、在你的目录（你自己用的，什么地方都行，建议英文路径）下新建文件 chendbmanage.py

 chendbmanage.py

- 2、该类的内容如下

```
import mysql.connector
```

```
class ChenUseDatabase:
```

```
    def __init__(self, config:dict) -> None:
```

```
        self.configuration = config
```

```
    def __enter__(self) -> 'cursor':
```

```
        self.conn = mysql.connector.connect(**self.configuration)
```

```
        self.cursor = self.conn.cursor()
```

```
        return self.cursor
```



```
    def __exit__(self, exc_type, exc_value, exc_trace) -> None:
```

```
        self.conn.commit()
```

```
        self.cursor.close()
```

```
        self.conn.close()
```

3、在你的同一个目录下新建文件 chendbtest.py

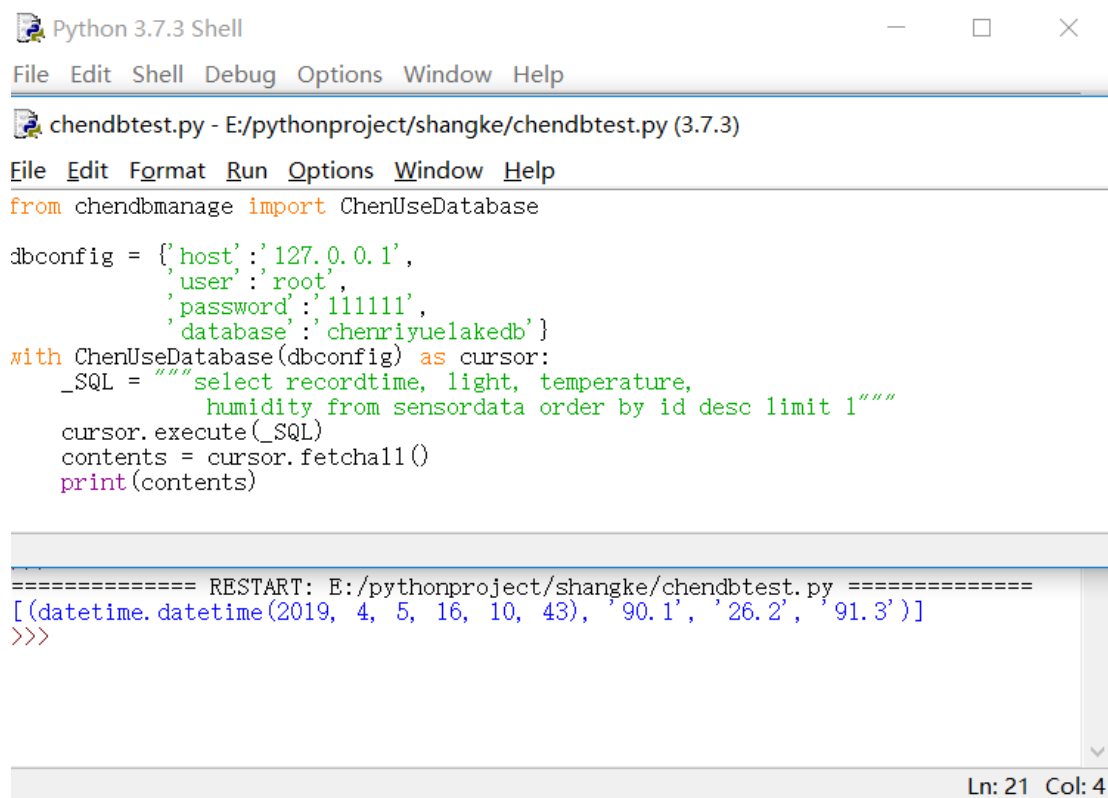
 chendbmanage.py
 chendbtest.py

该文件的内容如下：

```
from chendbmanage import ChenUseDatabase

dbconfig = {'host':'127.0.0.1',
            'user':'root',
            'password':'111111',
            'database':'chenriyuelakedb'}
with ChenUseDatabase(dbconfig) as cursor:
    _SQL = """select recordtime, light, temperature,
                humidity from sensordata order by id desc limit 1"""
    cursor.execute(_SQL)
    contents = cursor.fetchall()
    print(contents)
```

4、运行 chendbtest.py 后的测试内容如下，可以看出，最近一次的数据已查询获得



```
Python 3.7.3 Shell
File Edit Shell Debug Options Window Help

chendbtest.py - E:/pythonproject/shangke/chendbtest.py (3.7.3)
File Edit Format Run Options Window Help
from chendbmanage import ChenUseDatabase

dbconfig = {'host':'127.0.0.1',
            'user':'root',
            'password':'111111',
            'database':'chenriyuelakedb'}
with ChenUseDatabase(dbconfig) as cursor:
    _SQL = """select recordtime, light, temperature,
                humidity from sensordata order by id desc limit 1"""
    cursor.execute(_SQL)
    contents = cursor.fetchall()
    print(contents)

===== RESTART: E:/pythonproject/shangke/chendbtest.py =====
[(datetime.datetime(2019, 4, 5, 16, 10, 43), '90.1', '26.2', '91.3')]
>>>
```

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