

## python\_数据库连接之mysql

python远程连接数据库，需要安装对应得第三方模块，现以mysql为例，其他的同理

### 1、安装第三方库

pip install pymysql

### 2、数据库连接及关闭

备注：数据库连接后不关闭，会导致大量占用数据库连接池不释放，导致其他数据库连接无法连接到数据库

```
import pymysql

#host 数据库服务IP地址

#user 数据库连接用户名

#password 数据库连接密码

#db 连接数据库名称

#port 数据库服务端口号

#charset 编码方式

#autocommit 自动提交，sql执行后直接自动提交，无需再次手动进行执行

conn=pymysql.Connect(host='host',user='user',password='password',db='db', port=3306, charset='utf8',

                        autocommit=True) #数据库连接

cur=conn.cursor() #建立游标

cur.execute('select * from table') #执行sql

#conn.commit() #手动提交sql执行结果

#cur.fetchone() #单条获取sql执行结果

cur.fetchall() #获取所有sql执行结果

#cur.fetchmany(10) #获取指定的10条执行结果

cur.close() #关闭游标

conn.close() #关闭数据库
```

### 3、插入

```
import pymysql
```

```
#建立连接
```

```
conn=pymysql.connect(host='IP',user='jxz',password='123456',db='jxz',port=3306,charset='utf8',autocommit=True)
```

```
cur =conn.cursor() #建立游标
```

```
sql="insert into acc_info VALUES (7,'dd3',123,1);"
```

```
cur.execute(sql)
```

```
print(cur.fetchall())
```

```
cur.close()
```

```
conn.close()
```

C:\Users\zhaow\AppData\Local\Programs\Python\Python37\python.exe D:/study/python/test/YY.PY.py

```
() #返回的空元组
```

#### 4、查询

```
import pymysql
```

```
#建立连接
```

```
conn=pymysql.connect(host='IP',user='jxz',password='123456',db='jxz',port=3306,charset='utf8',autocommit=True)
```

```
cur =conn.cursor() #建立游标
```

```
sql="SELECT * from acc_info;"
```

```
cur.execute(sql)
```

```
print(cur.fetchall())
```

```
cur.close()
```

```
conn.close()
```

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```
((1, '55', 0, 0), (3, 'dd', 0, 0), (4, 'dd', 0, 0), (5, 'dd', 0, 0), (6, 'dd3', 0, 0), (7, 'dd3', 123, 1)) #返回的元组
```

#### 5、修改

```
import pymysql
```

```
#建立连接
```

```
conn=pymysql.connect(host='IP',user='jxz',password='123456',db='jxz',port=3306,charset='utf8',autocommit=True)
```

```
cur =conn.cursor() #建立游标
```

```
sql="UPDATE acc_info set name='xiug' where id=5;"
```

```
cur.execute(sql)
```

```
print(cur.fetchall())
```

```
cur.close()
```

```
conn.close()
```

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```
() #返回空元组
```

## 6、删除

```
import pymysql
```

```
#建立连接
```

```
conn=pymysql.connect(host='IP',user='jxz',password='123456',db='jxz',port=3306,charset='utf8',autocommit=True)
```

```
cur =conn.cursor() #建立游标
```

```
sql="DELETE from acc_info where id=3"
```

```
cur.execute(sql)
```

```
print(cur.fetchall())
```

```
cur.close()
```

```
conn.close()
```

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```
()
```

## 7、其他