

PyMySQL模块

NSD python



安装



下载

• 官方站点

https://pypi.python.org

 PyMySQL是Python中操作MySQL的模块,其使用方 法和MySQLdb几乎相同



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安装

• 安装依赖包

[root@localhost packages]# yum install -y python-devel mysql-devel gcc

• 安装

[root@localhost packages]# pip3 install PyMySQL

[root@localhost packages]# pip3 install MySQL-python # python2





PyMySQL应用

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连接数据库

• 创建连接是访问数据库的第一步

conn = pymysql.connect(host='127.0.0.1', port=3306, user='root',
passwd='tedu.cn', db='tkq1', charset='utf8')





游标

- 游标(cursor)就是游动的标识
- 通俗的这么说,一条sql取出对应n条结果资源的接口/句柄,就是游标,沿着游标可以一次取出一行

cursor = conn.cursor()





插入数据

• 对数据库表做修改操作,必须要commit

```
sql1 = "insert into departments(dep_name) values(%s)"
result = cur.execute(sql1, ('development',))
sql2 = "insert into departments(dep_name) values(%s)"
data = [('hr',), ('op',)]
result = cur.executemany(sql2, data)
sql3 = "insert into departments(dep_name) values(%s)"
data = [('行政',), ('财务',), ('运营',)]
result = cur.executemany(sql3, data)
conn.commit()
```





查询数据

• 可以取出表中一条、多条或全部记录

```
sql4 = "select * from departments"
cur.execute(sql4)
result = cur.fetchone()
print(result)

result2 = cur.fetchmany(2)
print(result2)

result3 = cur.fetchall()
print(result3)
```





移动游标

• 如果希望不是从头取数据,可以先移动游标

```
cur.scroll(1, mode="ralative")
cur.scroll(2, mode="absolute")
```

```
sql5 = "select * from departments"
cur.execute(sql5)
cur.scroll(3, mode='absolute')
result4 = cur.fetchmany(2)
print(result4)
```





修改数据

• 通过update修改某一字段的值

```
sql6 = "update departments set dep_name=%s where dep_name=%s"
result = cur.execute(sql6, ('operations', 'op'))
print(result)
conn.commit()
```





删除记录

• 通过delete删除记录

```
sql7 = "delete from departments where dep_id=%s"
result = cur.execute(sql7, (6,))
print(result)
conn.commit()
```



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练习

• 向employees和salary表中添加数据

```
sql8 = "insert into employees(name, genda, phone, dep_id) values(%s,
%s, %s, %s)"
data = ('bob', 'male', '15011223344', 3)
cur.execute(sql8, data)

sql9 = "insert into salary(date, emp_id, basic, extra) values(%s, %s, %s,
%s)"
data = (time.strftime('%Y-%m-%d'), 1, 10000, 5000)
result = cur.execute(sql9, data)

conn.commit()
```

