import requests

from bs4 import BeautifulSoup

import pymysql

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# 连接到MySQL数据库

conn = pymysql.connect(

host="localhost", # MySQL服务器主机

user="root", # 数据库用户名

password="Xhb200302%", # 数据库密码

database="finance", # 数据库名

port=3306

)

cursor = conn.cursor()

# 创建一个表来存储数据

cursor.execute('''CREATE TABLE IF NOT EXISTS financial\_data

(id INT AUTO\_INCREMENT PRIMARY KEY, title VARCHAR(255))''')

keywords = ['疫情', '科技', '体育', '政治', '经济']

for keyword in keywords:

url = f"http://www.baidu.com/s?wd={keyword}"

response = requests.get(url)

soup = BeautifulSoup(response.text, 'html.parser')

# 找到所有的标题链接

for a in soup.find\_all('a', href=True):

title = a.get\_text(strip=True)

link = a['href']

# 如果链接不是以'http'或'https'开头，则可能是相对链接，需要拼接完整链接

if not link.startswith(('http://', 'https://')):

link = "http://www.baidu.com" + link

# 插入到数据库中

cursor.execute('INSERT INTO financial\_data (title) VALUES (%s)', (title))

# 提交更改并关闭数据库连接

conn.commit()

import pymysql

import csv

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# 数据库链接配置

db\_config = {

'host': 'localhost',

'user': 'root',

'password': 'Xhb200302%',

'charset': 'utf8mb4'

}

# 建立数据库链接

connect = pymysql.connect(\*\*db\_config)

# 创建数据库与表

with connect.cursor() as cursor:

# 要创建的数据库名称

database\_name = "python\_finance\_mining"

# 创建数据库的sql(使用if判断是否已经存在数据库，数据库不存在时才会创建，否则会报错)

create\_db\_query = f"CREATE DATABASE IF NOT EXISTS {database\_name}"

# 执行sql语句

cursor.execute(create\_db\_query)

print(f"Database [{database\_name}] created successfully.")

# 连接到此数据库

connect\_db\_query = f"USE {database\_name}"

cursor.execute(connect\_db\_query)

# 创建表

table\_name = "students"

create\_table\_query = f"""

CREATE TABLE IF NOT EXISTS {table\_name} (

student\_id VARCHAR(255) NOT NULL,

name VARCHAR(255) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

"""

cursor.execute(create\_table\_query)

# 提交事务

connect.commit()

print(f"table [{table\_name}] created successfully.")

connect.close()

# 将csv文件导入表

# 没有避免重复插入。只要执行一次

csv\_path = "./student.csv"

connect = pymysql.connect(\*\*db\_config)

with connect.cursor() as cursor:

cursor.execute("USE python\_finance\_mining")

with open(csv\_path, 'r', encoding='gbk') as f:

lines = csv.reader(f)

# 一行一行地存，除去第一行

for each in list(lines)[1:]:

i = tuple(each)

# 使用SQL语句添加数据。按顺序匹配字段与数据

insert\_data\_query = "INSERT INTO students VALUES" + str(i)

cursor.execute(insert\_data\_query) # 执行SQL语句

connect.commit()

connect.close()

print("data added")

def search\_studentname\_by\_surname(surname):

connect = pymysql.connect(\*\*db\_config)

with connect.cursor() as cursor:

cursor.execute("USE python\_finance\_mining")

# % 通配符表示零个或多个字符。例如，'a%' 匹配以字母 'a' 开头的任何字符串。

search\_query = f"""

select \* from students where name like '{surname}%'

"""

cursor.execute(search\_query)

results = cursor.fetchall() # 获取所有匹配的记录

if results:

print(f"找到 {len(results)} 名姓为 '{surname}' 的学生：")

for student in results:

print(student) # 打印每个学生的信息

else:

print("没有找到姓为 '{}' 的学生。".format(surname))

while True:

surname = input("请输入要查询的学生的姓氏：")

search\_studentname\_by\_surname(surname)

conn.close()