# DB2019第八次数据库作业

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### 源码：

* 1. PYTHON源码：

import pymysql  
import os  
import shutil  
db = pymysql.**connect**("127.0.0.1", "test", "fanqiliang123456", "exercise")  
cursor = db.**cursor**()  
  
def modify():  
 # os.rename("H:\\sqlite-autoconf-3230100\\tea\\win\\makefile.vc",  
 # "H:\\sqlite-autoconf-3230100\\tea\\win\\mymakefile.vc")  
 # shutil.move("H:\\sqlite-autoconf-3230100\\tea\\win",  
 # "H:\\sqlite-autoconf-3230100\\tea\\doc")  
 cursor.**execute**("select \* from file where TYPE=1 and size>=2")  
 db.**commit**()  
 data=cursor.**fetchall**()  
 for d in data:  
 print(d)  
 for (dirName,dirs,files) in os.**walk**("H:\\sqlite-autoconf-3230100\\tea"):  
 for f in files:  
 os.**remove**(os.path.**join**(dirName,f))  
 shutil.**rmtree**("H:\\sqlite-autoconf-3230100\\tea")  
 **exe**("H:\\sqlite-autoconf-3230100", 0)  
  
  
def Print(data, order, last):  
 if data is None:  
 return  
 for d in data:  
 if d[0] != order:  
 continue  
 for i in range(0, d[0]-1):  
 print("", end=" ")  
 if d[0] != 0:  
 print("", end="└-------")  
 # print("", end="--------")  
 print(str(d[1]) + ":" + str(d[3]))  
  
 if d[5] == 1:  
 cursor.**execute**("select \* from file where parentDir=\'%s\'" % (d[1],))  
 \_data = cursor.**fetchall**()  
 if \_data is not None:  
 **Print**(\_data, order + 1, order)  
  
  
def exe(rootdir, i):  
 rootDir = rootdir  
 dirs = os.**listdir**(rootDir)  
 cursor.**execute**(  
 "insert into file(groupId, name, sub\_groupId, size,parentDir,TYPE) values(%s,\'%s\',%s,%s,\'%s\',%d);" % (  
 i, os.path.**basename**(rootDir), i + 1, len(dirs),os.path.**basename**(rootDir) , 1))  
 i += 1  
 sign=i-1  
 for (dirName, dirs, files) in os.**walk**(rootDir):  
 if i==sign+1:  
 pass  
 else:  
 i=sign+1  
 if len(dirs) == 0 :  
 pass  
 else:  
 sign+=1  
 for fileName in files:  
 filePath = os.path.**join**(dirName, fileName)  
 fileSize = os.path.**getsize**(filePath)  
 cursor.**execute**('''  
 insert into file values  
 (%s,\'%s\',%s,%s,\'%s\',%d)''' % (i, fileName, i + 1, fileSize, os.path.**basename**(dirName), 0))  
 for dirsName in dirs:  
 dirPath = os.path.**join**(dirName, dirsName)  
 sub\_dirs = os.**listdir**(dirPath)  
 cursor.**execute**('''  
 insert into file values  
 (%s,\'%s\',%s,%s,\'%s\',%d)''' % (i, dirsName, i + 1, len(sub\_dirs), os.path.**basename**(dirName), 1))  
 db.**commit**()  
 cursor.**execute**("select \* from file;")  
 data = cursor.**fetchall**()  
 last = 0  
 **Print**(data, 0, 0)  
  
  
  
def main():  
 **exe**('H:\\sqlite-autoconf-3230100', 0)  
 cursor.**execute**("delete from file")  
 db.**commit**()  
 **modify**()  
  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 **main**()

* 1. sql源码：

drop table if exists file;  
create table file(  
 groupId int,  
 name varchar(100),  
 sub\_groupId int,  
 size int,  
 parentDir varchar(100),  
 TYPE int,  
 primary key (groupId,name)  
);

### 运行结果：

* 1. 最初文件树：

sqlite-autoconf-3230100:24

└-------aclocal.m4:372375

└-------compile:7333

└-------config.guess:42938

└-------config.sub:35987

└-------configure:474456

└-------configure.ac:6461

└-------depcomp:23566

└-------INSTALL:15744

└-------install-sh:14675

└-------ltmain.sh:324089

└-------Makefile.am:828

└-------Makefile.in:37703

└-------Makefile.msc:27932

└-------missing:6872

└-------README.txt:3558

└-------Replace.cs:7272

└-------shell.c:491779

└-------sqlite3.1:8928

└-------sqlite3.c:7391127

└-------sqlite3.h:531695

└-------sqlite3.pc.in:267

└-------sqlite3.rc:1992

└-------sqlite3ext.h:31394

└-------tea:11

└-------aclocal.m4:147

└-------configure:280772

└-------configure.ac:8308

└-------doc:1

└-------sqlite3.n:494

└-------generic:1

└-------tclsqlite3.c:117731

└-------license.terms:257

└-------Makefile.in:15902

└-------pkgIndex.tcl.in:167

└-------README:1338

└-------tclconfig:2

└-------install-sh:13868

└-------tcl.m4:134055

└-------win:3

└-------makefile.vc:13830

└-------nmakehlp.c:17368

└-------rules.vc:18743

* 1. 对文件系统进行操作后：
     1. 操作1：修改文件名

sqlite-autoconf-3230100:24

└-------aclocal.m4:372375

└-------compile:7333

└-------config.guess:42938

└-------config.sub:35987

└-------configure:474456

└-------configure.ac:6461

└-------depcomp:23566

└-------INSTALL:15744

└-------install-sh:14675

└-------ltmain.sh:324089

└-------Makefile.am:828

└-------Makefile.in:37703

└-------Makefile.msc:27932

└-------missing:6872

└-------README.txt:3558

└-------Replace.cs:7272

└-------shell.c:491779

└-------sqlite3.1:8928

└-------sqlite3.c:7391127

└-------sqlite3.h:531695

└-------sqlite3.pc.in:267

└-------sqlite3.rc:1992

└-------sqlite3ext.h:31394

└-------tea:11

└-------aclocal.m4:147

└-------configure:280772

└-------configure.ac:8308

└-------doc:1

└-------sqlite3.n:494

└-------generic:1

└-------tclsqlite3.c:117731

└-------license.terms:257

└-------Makefile.in:15902

└-------pkgIndex.tcl.in:167

└-------README:1338

└-------tclconfig:2

└-------install-sh:13868

└-------tcl.m4:134055

└-------win:3

└-------mymakefile.vc:13830

└-------nmakehlp.c:17368

└-------rules.vc:18743

* + 1. 操作2：移动文件

sqlite-autoconf-3230100:24

└-------aclocal.m4:372375

└-------compile:7333

└-------config.guess:42938

└-------config.sub:35987

└-------configure:474456

└-------configure.ac:6461

└-------depcomp:23566

└-------INSTALL:15744

└-------install-sh:14675

└-------ltmain.sh:324089

└-------Makefile.am:828

└-------Makefile.in:37703

└-------Makefile.msc:27932

└-------missing:6872

└-------README.txt:3558

└-------Replace.cs:7272

└-------shell.c:491779

└-------sqlite3.1:8928

└-------sqlite3.c:7391127

└-------sqlite3.h:531695

└-------sqlite3.pc.in:267

└-------sqlite3.rc:1992

└-------sqlite3ext.h:31394

└-------tea:10

└-------aclocal.m4:147

└-------configure:280772

└-------configure.ac:8308

└-------doc:2

└-------sqlite3.n:494

└-------win:3

└-------mymakefile.vc:13830

└-------nmakehlp.c:17368

└-------rules.vc:18743

└-------generic:1

└-------license.terms:257

└-------Makefile.in:15902

└-------pkgIndex.tcl.in:167

└-------README:1338

└-------tclconfig:2

* + 1. 操作3：选出包含至少两个文件的文件夹的名字

sqlite-autoconf-3230100

tea

doc

tclconfig

win

* + 1. 操作4：删除tea文件夹

sqlite-autoconf-3230100:23

└-------aclocal.m4:372375

└-------compile:7333

└-------config.guess:42938

└-------config.sub:35987

└-------configure:474456

└-------configure.ac:6461

└-------depcomp:23566

└-------INSTALL:15744

└-------install-sh:14675

└-------ltmain.sh:324089

└-------Makefile.am:828

└-------Makefile.in:37703

└-------Makefile.msc:27932

└-------missing:6872

└-------README.txt:3558

└-------Replace.cs:7272

└-------shell.c:491779

└-------sqlite3.1:8928

└-------sqlite3.c:7391127

└-------sqlite3.h:531695

└-------sqlite3.pc.in:267

└-------sqlite3.rc:1992

└-------sqlite3ext.h:31394