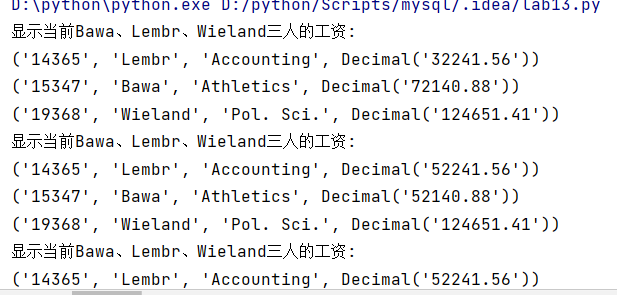
### 实验目的：

1.创建一个教师表instructor2，并把ID是30000以前的教师从instructor中导入：并显示所有教师instructor2 的信息

2.创建一个操作日志表mylog，该表结构id、title、result，其中id为自增长类型auto increment

3.采用任何程序语言连续实现如下两个业务：显示当前Bawa、Lembr、Wieland三人的工资。Business 1: 从Bawa 的工资中转出20000元给Lembr；记录转账操作及结果到mylog， 并显示当前Bawa、Lembr、Wieland三人的工资。Business 2(failed)：从Bawa的工资中再转出100000元给Wieland；记录转账操作及结果到mylog，显示当前Bawa、Lembr、Wieland三人的工资。



drop table if exists instructor2;

create table instructor2(

id varchar(8),

name varchar(20),

dept\_name varchar(20),

salary numeric(8,2)

);

insert into instructor2

(select \*

from instructor

where id<=30000);

select \* from instructor2;

drop table if exists mylog;

create table mylog(

id varchar(8) auto\_increment,

title varchar(20),

result varchar(20)

);

**import** pymysql  
  
*# 连接数据库*conn = pymysql.connect(host=**'127.0.0.1'**, user=**'myuser'**, password=**'Lp200211'**, database=**'dbsclab2018'**, charset=**'utf8'**)  
cursor = conn.cursor()  
  
*# 创建instructor2表*cursor.execute(**'''  
CREATE TABLE IF NOT EXISTS `instructor2` (  
 `ID` varchar(8),  
 `name` varchar(20) ,  
 `dept\_name` varchar(20) ,  
 `salary` decimal(8,2) ,  
 primary key(`ID`)  
) ;  
'''**)  
*# 导入id<=30000的instructor*cursor.execute(**'''  
insert into instructor2  
select \*  
from instructor   
where id<30000;  
'''**)  
  
*# 创建mylog 表*cursor.execute(**'''  
create table if not exists mylog(  
 id int(8) AUTO\_INCREMENT,  
 title varchar(20),  
 result varchar(20),  
 primary key(`id`)  
);  
'''**)  
  
*#显示当前Bawa、Lembr、Wieland三人的工资*cursor.execute(**'''  
select distinct \*  
from instructor2  
where name="Bawa" or name="Lembr" or name="Wieland";  
'''**)  
print(**"显示当前Bawa、Lembr、Wieland三人的工资:"**)  
res=cursor.fetchall()  
**for** row **in** res:  
 print(row)  
  
*# 事务 transaction***try**:  
 *#开始事务* conn.begin()  
 *# Business 1: 从Bawa 的工资中转出20000元给Lembr* cursor.execute(**'''update instructor2   
 set salary=salary-20000   
 where name="Bawa";'''**)  
 cursor.execute(**'''update instructor2   
 set salary=salary+20000   
 where name="Lembr";'''**)  
 *# 记录bussiness 结果* cursor.execute(**'''  
 insert into mylog(title,result)  
 values ("business1","success");'''**)  
 cursor.execute(**'''  
 select distinct \*  
 from instructor2  
 where name="Bawa" or name="Lembr" or name="Wieland";  
 '''**)  
 print(**"显示当前Bawa、Lembr、Wieland三人的工资:"**)  
 res = cursor.fetchall()  
 **for** row **in** res:  
 print(row)  
 *# Business 2: 从Bawa 的工资中转出100000元给Wieland* cursor.execute(**'''update instructor2   
 set salary=salary-100000   
 where name="Bawa";'''**)  
 cursor.execute(**'''update instructor2   
 set salary=salary+100000   
 where name="Wieland";'''**)  
 cursor.execute(**'''  
 insert into mylog(title,result)  
 values ("business2","failure");'''**)  
 cursor.execute(**'''  
 select distinct \*  
 from instructor2  
 where name="Bawa" or name="Lembr" or name="Wieland";  
 '''**)  
 print(**"显示当前Bawa、Lembr、Wieland三人的工资:"**)  
 res = cursor.fetchall()  
 **for** row **in** res:  
 print(row)  
 *# 提交事务* conn.commit()  
  
 *# 回滚事务* conn.rollback()  
  
 *# 记录Business 1、Business 2中哪些业务成功，哪些业务失败* cursor.execute(**'''  
 insert into mylog(title,result)  
 values ("business1","success");'''**)  
 cursor.execute(**'''  
 insert into mylog(title,result)  
 values ("business2","failure");'''**)  
 *# 回滚操作也需要提交* conn.commit()  
  
 cursor.execute(**'''  
 select distinct \*  
 from instructor2  
 where name="Bawa" or name="Lembr" or name="Wieland";  
 '''**)  
 print(**"显示当前Bawa、Lembr、Wieland三人的工资:"**)  
 res = cursor.fetchall()  
 **for** row **in** res:  
 print(row)  
**finally**:  
 cursor.close()  
 conn.close()