

OBJECTIVES

- Transactions
 - Rollback
 - cursor.close()
 - conn.rollback()
 - Commit
 - cursor.close()
 - conn.commit()

TRANSACTION IN PYTON

```
try:
      cursor.execute(sql)
      db.commit()
    except Exception:
      print("发生异常",Exception)
      db.rollback()
    finally:
      db.close()
```

LAB(1)

- 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.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: (success)
 - 分别从Bawa、Wieland的工资中转出30000元给Lembr;
 - 显示当前Bawa、Lembr、Wieland三人的工资
 - Business 2: (failed)
 - 从Lembr的工资中再转出1000元给Wieland;
 - 从Bawa的工资中再转出100000元给Wieland;

©L显示当前Bawa、Lembr、Wieland三人的工资

#	ID	name	dept_name	salary
1	14365	Lembr	Accounting	32241.56
2	15347	Bawa	Athletics	72140.88
3	19368	Wieland	Pol. Sci.	124651.41

```
drop trigger if exists instuctor03 salary;
DELIMITER $$
create trigger instuctor03 salary before update on instructor03
for each row
begin
declare MESSAGE TEXT varchar(200);
if NEW.salary < 0 then
 signal sqlstate 'AL001' set MESSAGE TEXT = 'error salary is less than zero';
end if;
end$$
DELIMITER;
  ©LXD
```

LAB(2)

- 14365 Lembr Accounting 32241.56 2 15347 Bawa Athletics 72140.88 3 19368 Wieland Pol. Sci. 124651.41
- 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