

OBJECTIVES

- Stored Procedure
- Tasks



```
drop procedure if exists precourse_cnt_proc;
DELIMITER $$
create procedure precourse cnt proc
in acourseid varchar(8), out acnt integer)
deterministic
reads sql data
begin
 select count(*) into acnt from prereq
 where course_id=acourseid;
end$$
```

CALL PROCEDURE

• In mysql workbench

```
set @course_id='958';
call precourse_cnt_proc(@course_id,@cnt);
select @cnt as cnt;
```

CALL PROCEDURE

In sql functions and procedures
 declare course_id varchar(10);
 declare cnt integer;
 select '958' into course_id;
 call precourse_cnt_proc(course_id, cnt);

```
import pymysql
conn = pymysql.connect(host='localhost',
user='mydbuser',password='iammydbuser',database='dblabtest',charset='utf8')
cursor = conn.cursor()
alnCourse_id = '958'
aCnt = -1
cursor.callproc('precourse_cnt_proc',(aInCourse_id,aCnt))
cursor.execute('select @_precourse_cnt_proc_0 as Course_ID,@_precourse_cnt_proc_1 as Cnt')
retdata = cursor.fetchone()
if retdata:
  aCnt = retdata[1]
conn.commit()
cursor.close()
conn.close()
print('The result:%d' %(aCnt))
```

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```
drop procedure if exists precourse cnt proc2;
    DELIMITER $$
    create procedure precourse cnt proc2(
    in acourseid varchar(8), out acnt integer)
    deterministic
    reads sql data
    begin
     select count(*) into acnt from prereq where course id=acourseid;
    end$$
    DELIMITER;
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```

```
import pymysql
        conn = pymysql.connect(host='localhost',
        user='mydbuser',password='iammydbuser',database='dblabtest',charset='utf8')
        cursor = conn.cursor()
        alnCourse id = '958'
        aCnt = -1
        print(retdata1)
        retdata2 = cursor.fetchone()
        if retdata2:
          aCnt = retdata2[1]
        cursor.close()
        conn.close()
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        print('The result:%d' %(aCnt))
```

LAB

• • •



LAB(2)

- 2. 针对prereq表,实现一个Procedure来获取依赖于指定学院开设课程的所有课程
 - 实现一个Procedure
 - 动态输入指定学院
 - 递归获得所有依赖该指定学院课程的课程
 - 客户端采用Python等来调用并显示结果