

OBJECTIVES

Stored Function In SQL



```
drop function if exists precourse_cnt_f;
DELIMITER $$
create function precourse_cnt_f(acourseid varchar(8))
returns integer
begin
 declare cnt integer;
 select count(*) into cnt from prereq where course id=acourseid;
 return cnt;
end$$
```

CALL FUNCTION

In mysql workbench
 set @course_id='958';
 select precourse_cnt_f(@course_id) into @cnt;
 select @cnt;

CALL FUNCTION

 In sql functions and procedures declare course_id varchar(10); select '958' into course_id; select precourse_cnt_f(course_id);

```
import pymysql
conn = pymysql.connect(host='localhost',
user='mydbuser',password='iammydbuser',database='dblabtest',charset='utf8')
cursor = conn.cursor()
alnCourse_id = '958'
cursor.execute('select precourse_cnt_f(%s)', (alnCourse_id))
retdata = cursor.fetchall()
cnt=0
for row in retdata:
   cnt=cnt+1
    print("%s" %(row[0]))
cursor.close()
conn.close()
```

RETURNS IN FUNCITON

- RETURNS {STRING | INTEGER | REAL | DECIMAL }
- Function does not support returns a dataset (i.e. table)

QUIZ

- 1. 针对prereq表,实现一个Function来获取指定课程course_id的 所有依赖课程
 - 实现一个Function
 - · 动态输入指定课程ID
 - 递归获得所有依赖的课程
 - 客户端采用Python等来调用并显示结果