



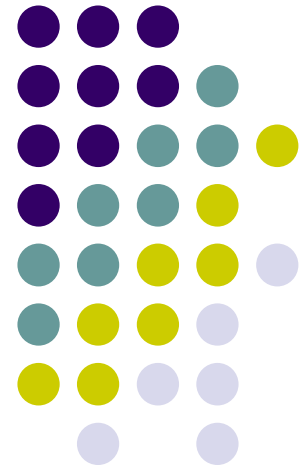
ຄະນະວິທະຍາສາດທຳມະຊາດ
ພາກວິຊາ ວິທະຍາສາດຄອມພິວເຕີ

ເວບໂປຣແກຣມມິງ 2

(Web Programming 2)

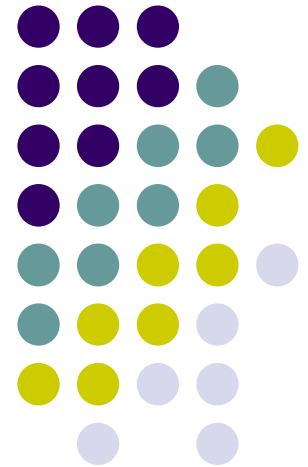
ສອນໂດຍ: ອຈ. ເພັດ ສອນວິໄລ
ມືຖື: 020 58390300

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ບົດທີ10

ການນຳໃຊ້ PHP ຮ່ວມກັບ Store Procedure



ເນື້ອໃນໂດຍລວມ



- Store Procedure ເບື້ອງຕົ້ນ
- MySQL Store Procedure
- Oracle Store Procedure
- ການເອີ້ນໃຊ້ Store Procedure ດ້ວຍ PHP

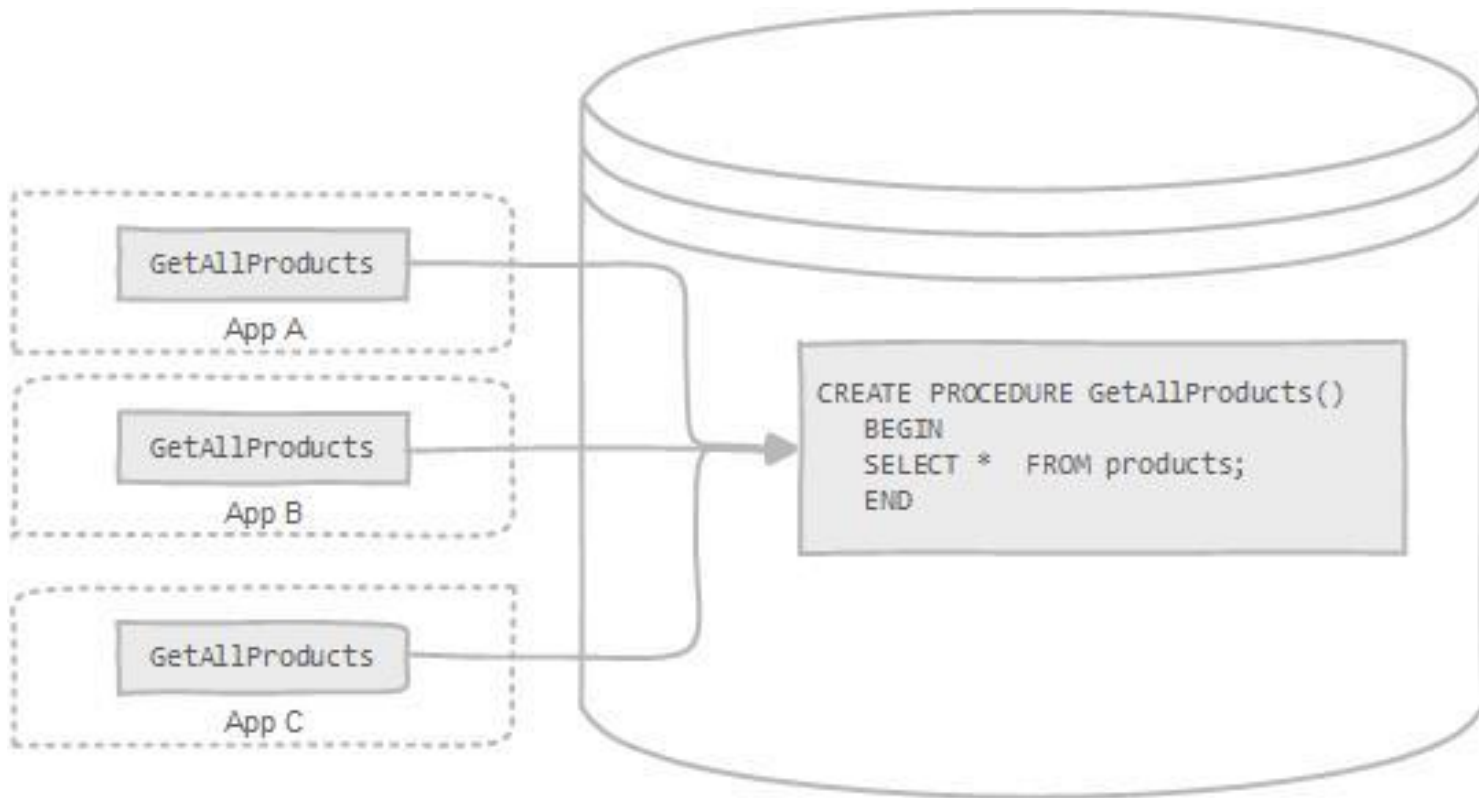


Store Procedure ເບື້ອງຕົ້ນ

- Store Procedure

Store procedure ເປັນການຂຽນຊຸດຄໍາສັ່ງຂອງພາສາ SQL ໄວ້ຢູ່ໃນຖານຂໍ້ມູນ, ຊຶ່ງ Store procedure ຈະຖືກເອີ້ນໃຊ້ຈາກ Triggers, Store procedure ດ້ວຍກັນ ແລະ ໂປຣແກຣມນຳໃຊ້ທີ່ພັດທະນາດ້ວຍພາສາໂປຣແກຣມຕ່າງໆ ເຊັ່ນວ່າ: Java, Python, PHP ແລະ ອື່ນໆ.

Store Procedure ເບື້ອງຕົ້ນ



Store Procedure



MySQL Store Procedure

- MySQL version 5.0, ຕອບສະໜອງການສ້າງ Store Procedure ແລ້ວ ຊຶ່ງມີຈຸດດີ ແລະ ຈຸດອ່ອນ ໃນການນຳໃຊ້ Store Procedure ຢູ່ໃນ MySQL.
- ຈຸດດີ: ເພີ່ມປະສິດທິພາບໃນການເຮັດວຽກຂອງໂປຣແກຣມ, ຫຼຸດຜ່ອນການສົ່ງຄຳສັ່ງ SQL ຈຳນວນຫຼາຍລະຫວ່າງໂປຣແກຣມນຳໃຊ້ ແລະ ຖານຂໍ້ມູນ, ສາມາດເອີ້ນໃຊ້ຊຸດຄຳສັ່ງຫຼາຍຄັ້ງໄດ້ບໍ່ຈຳເປັນຕ້ອງສ້າງໃໝ່ ແລະ ມີຄວາມປອດໄພສູງ.



MySQL Store Procedure

- ຈຸດອ່ອນ: ຖ້າມີ Store Procedure ຈຳນວນຫຼາຍ ເຮັດໃຫ້ມີການນຳໃຊ້ CPU ເພີ່ມຂຶ້ນ, Store Procedure ບໍ່ໄດ້ອອກແບບໃຫ້ນຳໃຊ້ກັບໜ້າວຽກທີ່ ຊັບຊ້ອນ, ຢາກຕໍ່ການກວດສອບຂໍ້ຜິດພາດ, ຢາກຕໍ່ ການພັດທະນາ ແລະ ບຳລຸງຮັກສາ.



MySQL Store Procedure

- **ឆ្លងប្រែ:**

CREATE

```
[DEFINER = { user | CURRENT_USER }]
PROCEDURE sp_name ([proc_parameter[,...]])
[characteristic ...] routine_body
```

- **proc_parameter:**

```
[ IN | OUT | INOUT ] param_name type
```




MySQL Store Procedure

- characteristic:

- COMMENT 'string'

- | LANGUAGE SQL

- | [NOT] DETERMINISTIC

- | { CONTAINS SQL | NO SQL | READS SQL DATA

- | MODIFIES SQL DATA }

- | SQL SECURITY { DEFINER | INVOKER }

- routine_body:

- Valid SQL routine statement



MySQL Store Procedure

- ຕົວຢ່າງ: ການສ້າງ Store Procedure ຈາກ mysql Client tools

```
DELIMITER //      ປຸງນ ; ໃຫ້ເປັນ //
```

```
CREATE PROCEDURE GetAllProducts()      ຊື່ Procedure
```

```
    BEGIN
```

```
    SELECT *      FROM products;      ຄໍາສັ່ງ SQL
```

```
    END //      ສິ້ນສຸດ Procedure
```

```
DELIMITER ;      ປຸງນ // ໃຫ້ເປັນ ; ຄືນ
```



MySQL Store Procedure

- DELIMITER ບໍ່ກ່ຽວຂ້ອງກັບຮູບແບບຂອງ Store Procedure ແຕ່ນຳໃຊ້ໃນການປ່ຽນ “;” ໃຫ້ເປັນ “//” ເພື່ອໃຫ້ MySQL ປະມວນຜົນຄຳສັ່ງທັງໝົດ.
- END keyword ໃຊ້ໃນການກຳນົດຈຸດສິ້ນສຸດ Store Procedure.



MySQL Store Procedure

```
mysql> DELIMITER //
mysql> CREATE PROCEDURE GetAllProducts()
  -> BEGIN
  -> SELECT * FROM products;
  -> END//
Query OK, 0 rows affected (0.00 sec)

mysql> DELIMITER ;
mysql>
```

- ການເອີ້ນໃຊ້ດ້ວຍຄໍາສັ່ງ

```
1 CALL STORED_PROCEDURE_NAME();
```

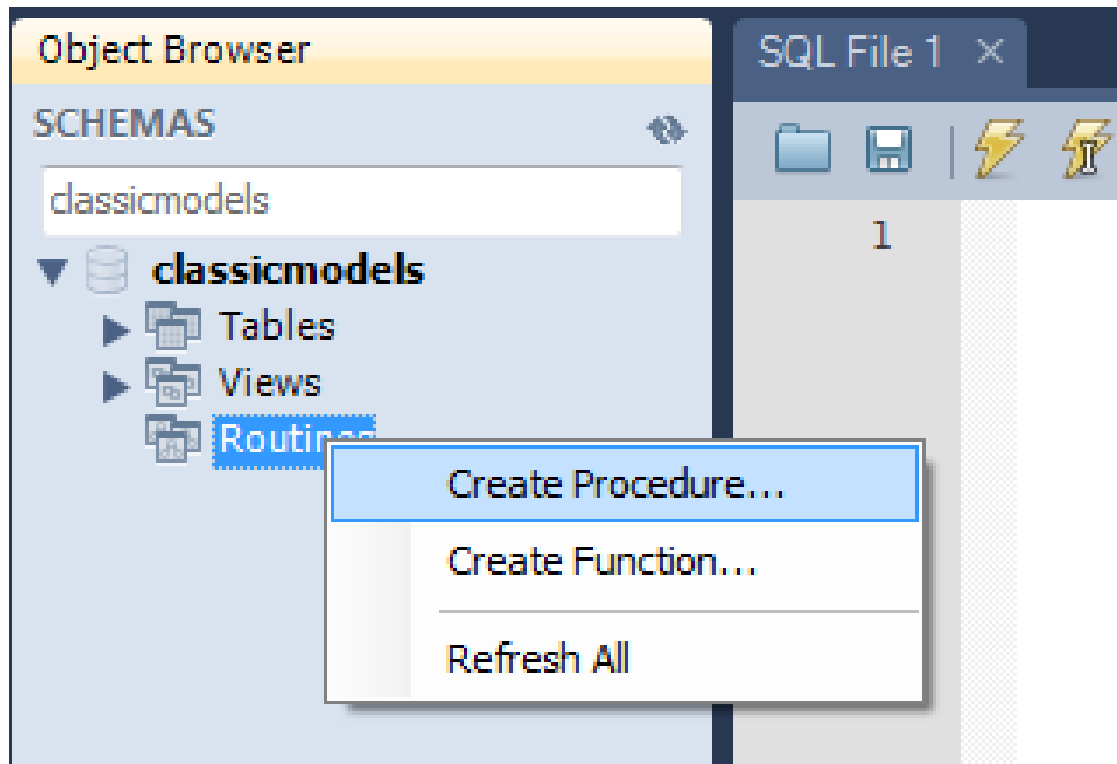
ຕົວຢ່າງ: ນຳໃຊ້ຄໍາສັ່ງ CALL

```
1 CALL GetAllProducts();
```



MySQL Store Procedure

- នាំໃឌ្ត MySQL Workbench





MySQL Store Procedure

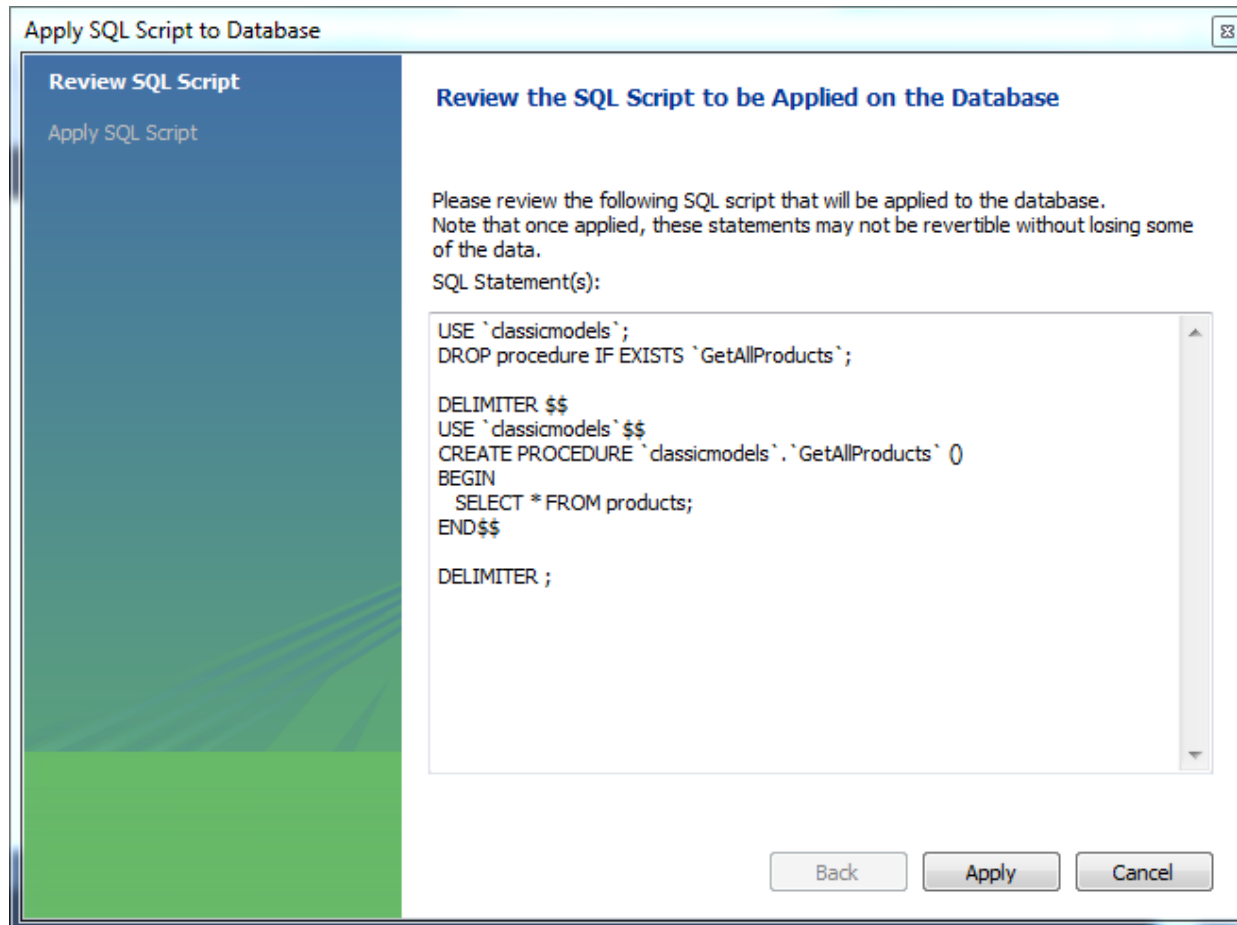
GetAllProducts

The name of the routine is parsed automatically from the DDL statement. The DDL is parsed automatically while you type.

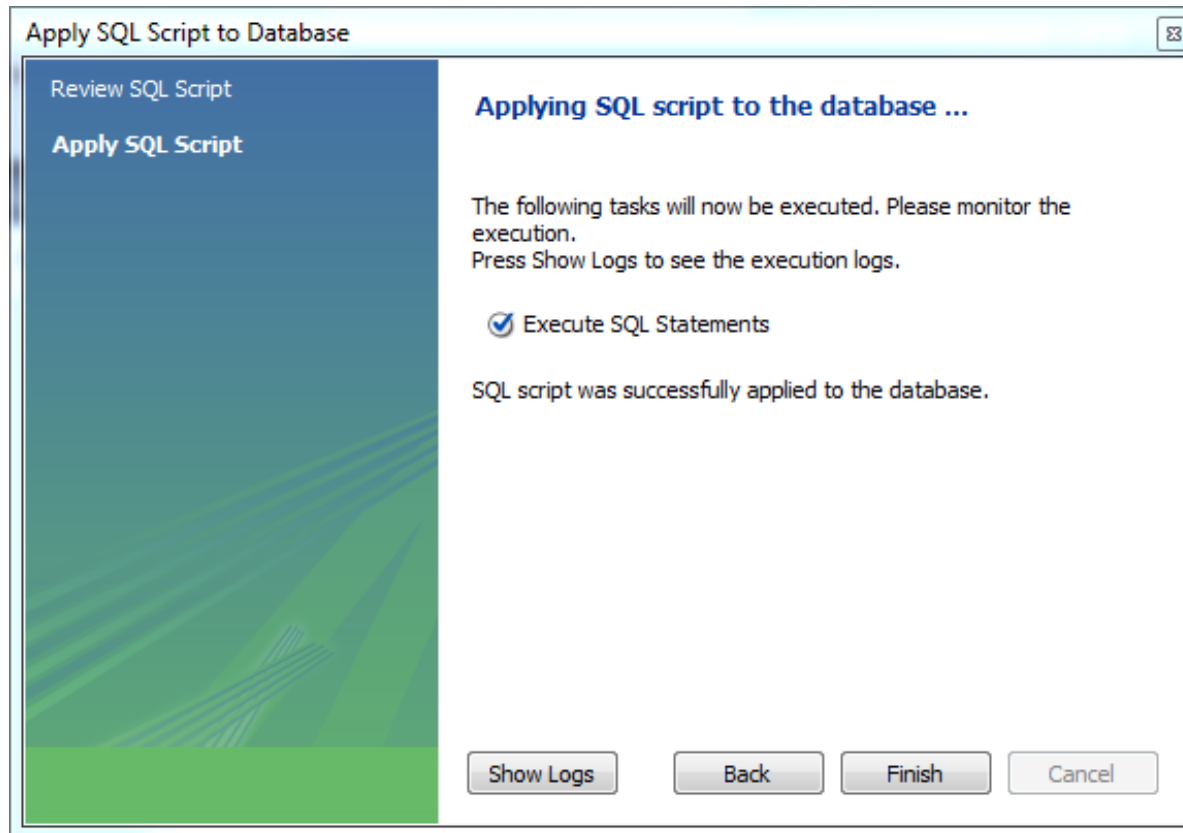
```
1  -- -----
2  -- Routine DDL
3  -- Note: comments before and after the routine body will not
4  -- -----
5  DELIMITER $$
6
7  CREATE PROCEDURE `classicmodels`.`GetAllProducts` ()
8  BEGIN
9      SELECT * FROM products;
10 END
```

Apply Revert

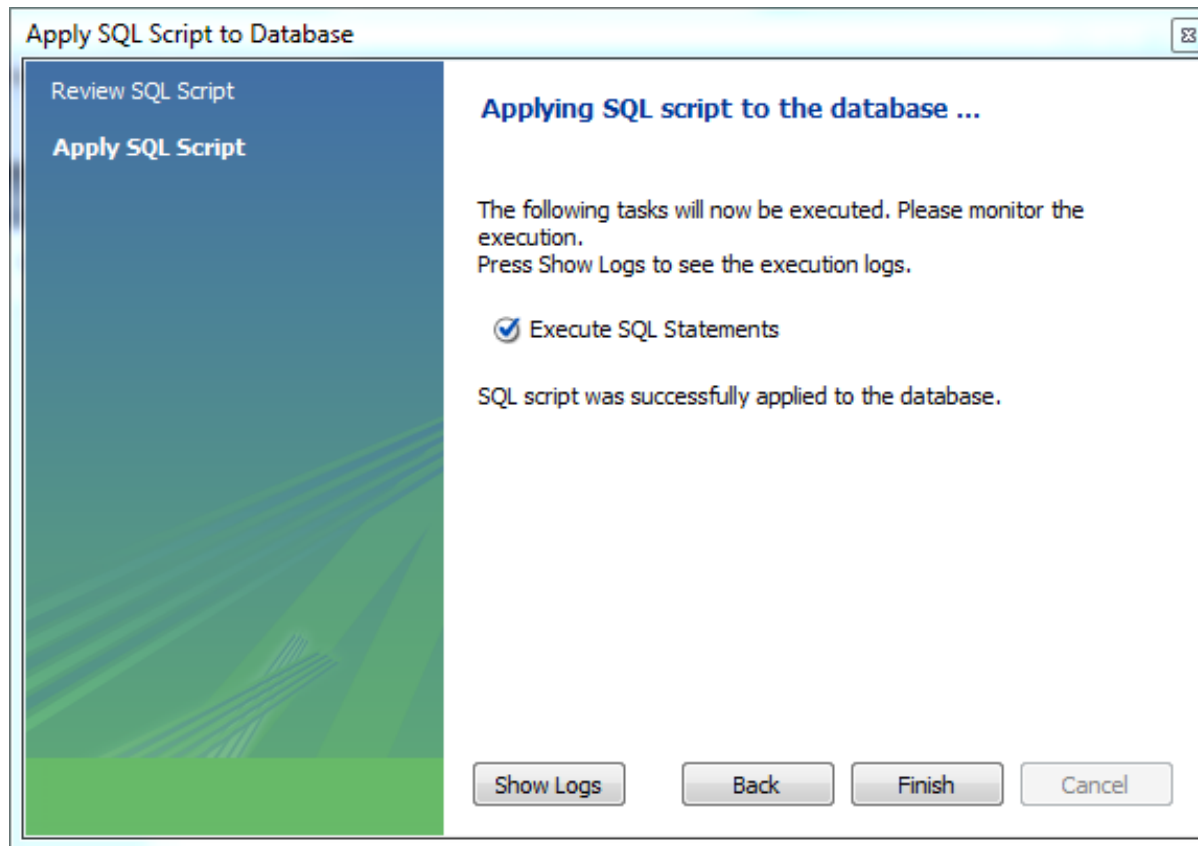
MySQL Store Procedure



MySQL Store Procedure



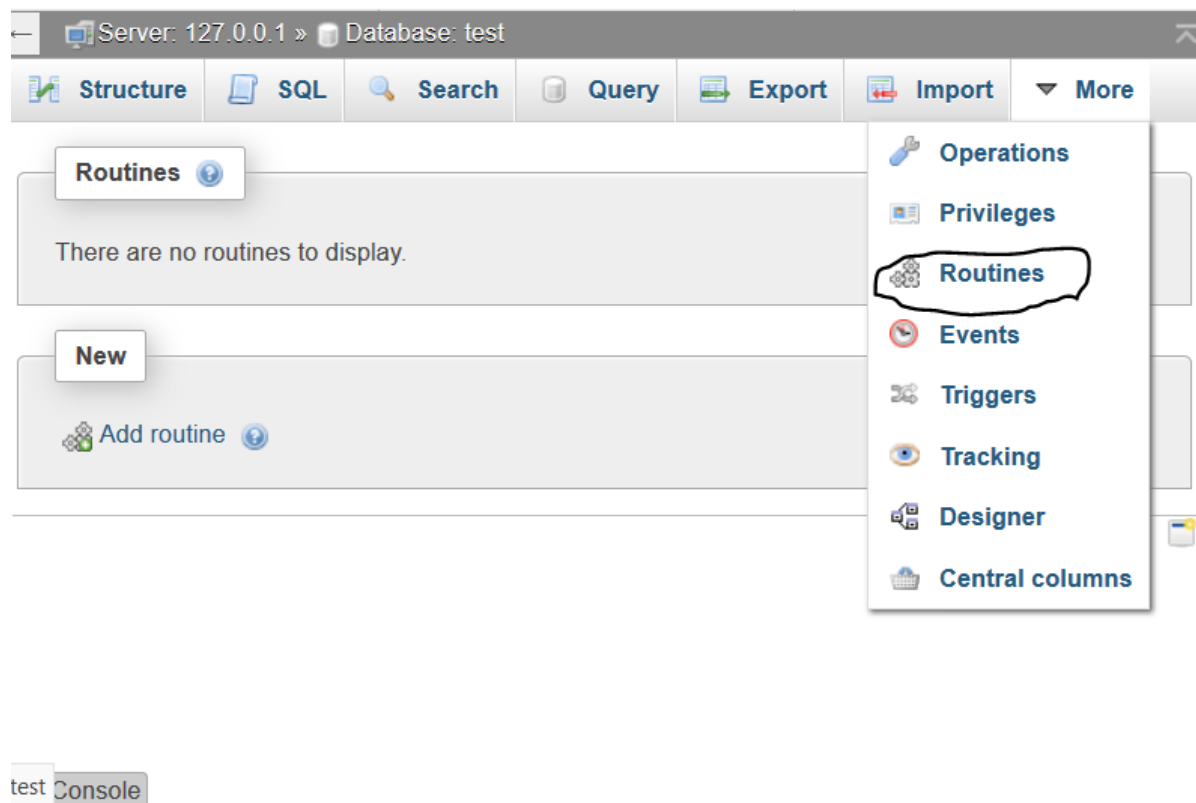
MySQL Store Procedure



MySQL Store Procedure



- នាំទៅ PhpMyAdmin



MySQL Store Procedure



Add routine ✕

Details

Routine name

Type

Parameters	Direction	Name	Type	Length/Values	Options
<div><div>Add parameter</div><div><div>1 BEGIN</div><div>2 SELECT * FROM products;</div><div>3 END</div></div></div>					

Definition

Is deterministic ☐

Definer

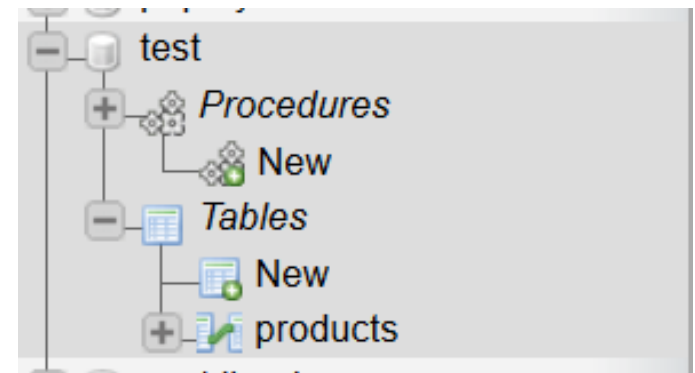
Security type

SQL data access

Comment

Go

Close





Oracle Store Procedure

- នាំໃឌ្ត SQL/Plus

```
Select Command Prompt - sqlplus test
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\financial>sqlplus test

SQL*Plus: Release 11.2.0.2.0 Production on Wed Jan 17 08:36:08 2018

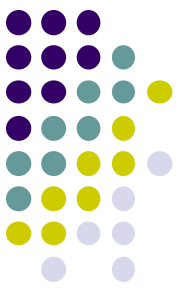
Copyright (c) 1982, 2014, Oracle. All rights reserved.

Enter password:

Connected to:
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production

SQL>
```

ການເອີ້ນໃຊ້ Store Procedure ດ້ວຍ PHP



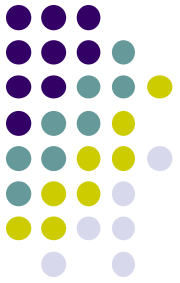
- ນຳໃຊ້ຄຳສັ່ງ CALL ດັ່ງລຸ່ມນີ້:

```
mysqli_query($conn,"CALL StoreProcedureName");
```

ຂໍ້ມູນອ້າງອີງ



- [1] <http://www.mysqltutorial.org/getting-started-with-mysql-stored-procedures.aspx>
- [2] ບັນຊາ ປະສິລະເຕສັງ. ພັດທະນາເວບແອັບພລິກເຄຊັນດ້ວຍ PHP ຮ່ວມກັບ MySQL ແລະ jQuery. ຊີເອສ, ໄທ. ໜ້າ 126-183. 2557.
- [3] <https://dev.mysql.com/doc/refman/8.0/en/create-procedure.html>



ព្យាបាល និង ព្យាបាល

ឧបករណ៍