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# MySQL CREATE PROCEDURE

**Summary**: in this tutorial, you will learn step by step how to the MySQL CREATE PROCEDURE statement to create new stored procedures.

## MySQL CREATE PROCEDURE statement

This query returns all products in the products table from the sample database.

```
1 SELECT * FROM products;
```

The following statement creates a new stored procedure that wraps the query:

```
DELIMITER //

CREATE PROCEDURE GetAllProducts()

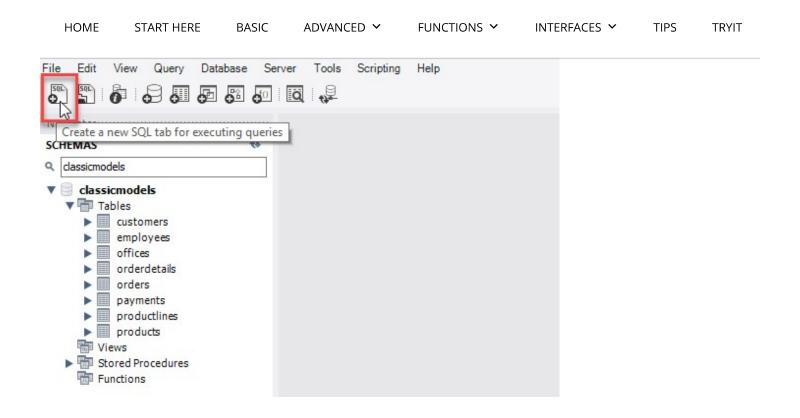
BEGIN

SELECT * FROM products;

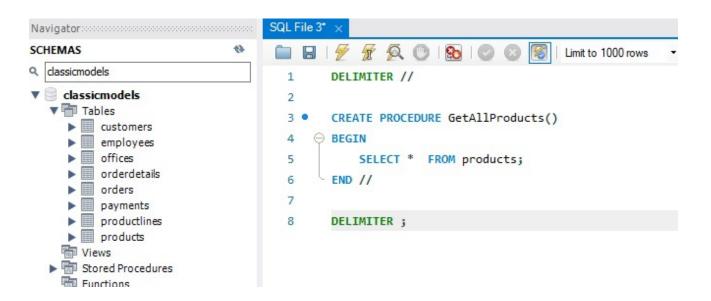
END //

DELIMITER;
```

To execute these statements:

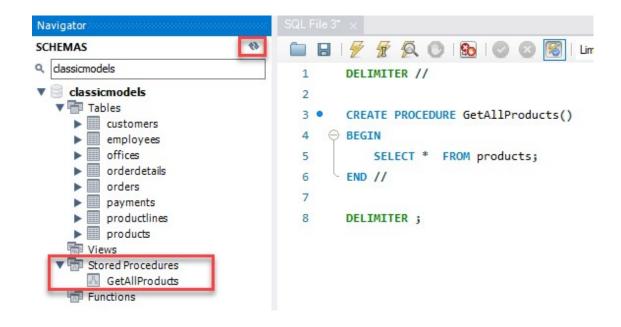


Third, enter the statements in the SQL tab:



Fouth, execute the statements. Note that you can select all statements in the SQL tab (or nothing) and click the **Execute** button. If everything is fine, MySQL will create the stored procedure and save  $\uparrow$  ne server.

Fifth, check the stored procedure by opening the **Stored Procedures** node. If you don't see the stored procedure, you can click the Refresh button next to the **SCHEMAS** title:



Congratulation! you have successfully created the first stored procedure in MySQL.

Let's examine the syntax of the stored procedure.

The first and last DELIMITER commands are not a part of the stored procedure. The first DELIMITER command changes the default delimiter to // and the last DELIMITER command changes the term back to the default one which is semicolon (;).

```
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2 BEGIN
3 statements;
4 END //
```

#### In this syntax

First, specify the name of the stored procedure that you want to create after the CREATE PROCEDURE keywords.

Second, specify a list of comma-separated parameters for the stored procedure in parentheses after the procedure name.

Third, write the code between the **BEGIN END** block. The above example just has a simple **SELECT** statement. After the **END** keyword, you place the delimiter character to end the procedure statement.

## Executing a stored procedure

To execute a stored procedure, you use the CALL statement:

```
1 CALL stored_procedure_name(argument_list);
```

In this syntax, you specify the name of the stored procedure after the CALL keyword. If the stored procedure has parameters, you need to pass arguments inside parentheses following the stored procedure name.

This example illustrates how to call the GetAllProducts() stored procedure:

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

Executing this statement is the same as executing an SQL statement:

```
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 5
            SELECT * FROM products;
 6
       END //
 7
 8
       DELIMITER ;
9
10 •
       CALL GetAllProducts();
```

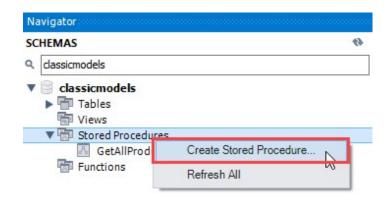
#### Here is the partial output:

	productCode	productName	productLine	productScale	productVendor
•	S10_1678	1969 Harley Davidson Ultimate Chopper	Motorcycles	1:10	Min Lin Diecast
	S10_1949	1952 Alpine Renault 1300	Classic Cars	1:10	Classic Metal Creations
	S10_2016	1996 Moto Guzzi 1100i	Motorcycles	1:10	Highway 66 Mini Classics
	S10_4698	2003 Harley-Davidson Eagle Drag Bike	Motorcycles	1:10	Red Start Diecast
	S10_4757	1972 Alfa Romeo GTA	Classic Cars	1:10	Motor City Art Classics
	S10_4962	1962 Lancia A Delta 16V	Classic Cars	1:10	Second Gear Diecast
	S12_1099	1968 Ford Mustang	Classic Cars	1:12	Autoart Studio Design
	S12_1108	2001 Ferrari Enzo	Classic Cars	1:12	Second Gear Diecast

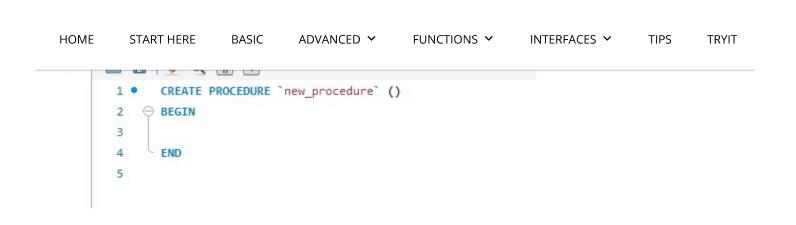
## Creating a stored procedure using the MySQL Workbench wizard

By using the MySQL Workbench wizard, you don't have to take are of many things like delimiters or executing the command to create stored procedures.

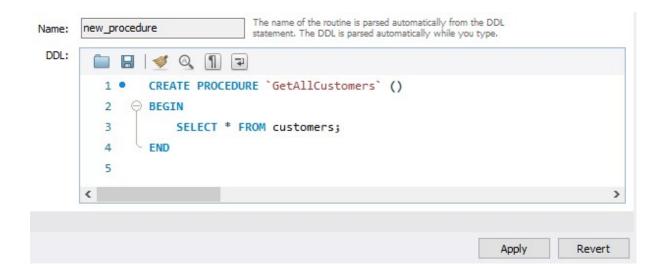
First, right-click on the **Stored Procedures** from the **Navigator** and select the **Create Stored Procedure...** menu item.



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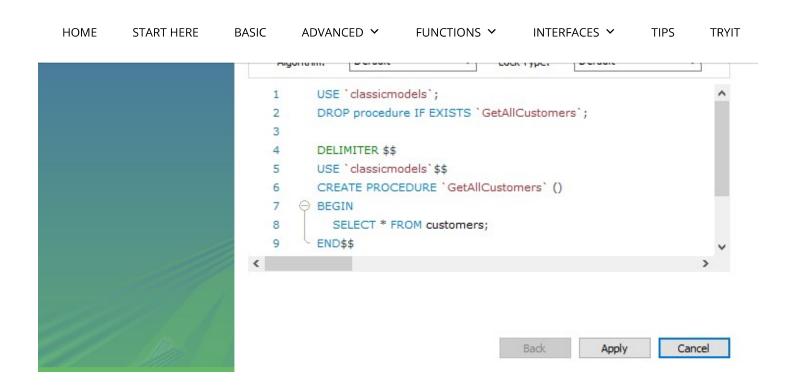
Second, change the stored procedure's name and add the code between the BEGIN END block:



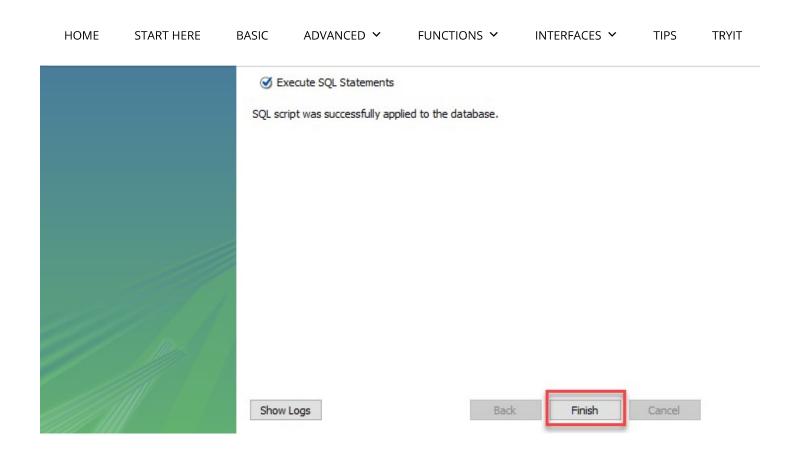
The stored procedure name is <a href="GetAllCustomers">GetAllCustomers</a>() which returns all rows in the <a href="Gustomers">customers</a> table from the sample database.

Third, Click the **Apply** button, MySQL Workbench will open a new window for reviewing SQL script before applying it on the database:

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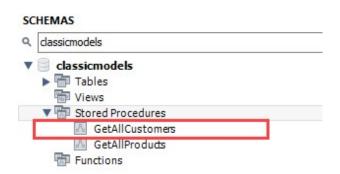


Fourth, Click the **Apply** button to confirm. MySQL Workbench will create the stored procedure:



Fifth, click the **Finish** button to close the window.

Finally, view the stored procedure in the **Stored Procedures** list:

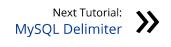


In this tutorial, you have learned how to use the MySQL CREATE PROCEDURE statement to create new stored procedures in the database.

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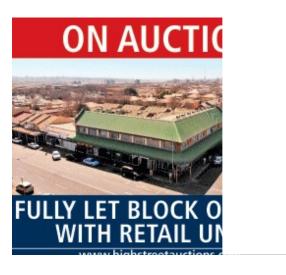
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