## What is Stored Procedures in SQL ?

**Stored Procedures** are created to perform one or more DML operations on Database. It is nothing but the group of SQL statements that accepts some input in the form of parameters and performs some task and may or may not returns a value.

**Syntax :** Creating a Procedure

CREATE or REPLACE PROCEDURE name(parameters)

IS

variables;

BEGIN

//statements;

END;

The most important part is parameters. Parameters are used to pass values to the Procedure. There are 3 different types of parameters, they are as follows:

1. **IN:**  
   This is the Default Parameter for the procedure. It always recieves the values from calling program.
2. **OUT:**  
   This parameter always sends the values to the calling program.
3. **IN OUT:**  
   This parameter performs both the operations. It Receives value from as well as sends the values to the calling program.

**Example:**  
Imagine a table named with emp\_table stored in Database. We are Writing a Procedure to update a Salary of Employee with 1000.

CREATE or REPLACE PROCEDURE INC\_SAL(eno IN NUMBER, up\_sal OUT NUMBER)

IS

BEGIN

UPDATE emp\_table SET salary = salary+1000 WHERE emp\_no = eno;

COMMIT;

SELECT sal INTO up\_sal FROM emp\_table WHERE emp\_no = eno;

END;

**Store procedure in Xampp**

* **Step 1:** Open PHP My Admin and select the database to create stored procedure
* **Step 2**: Go to **Routines**menu & Click on Add routine.
* **Step 3:** By Clicking on Add Routine Link, PHPMyAdmin will open Pop-up.
* **Step 4 :** Follow the steps and create stored procedure.Create stored procedure to get data from **users**table( Without Parameters).

**Stored procedure Without Parameters**

**Without Parameters**

[*CREATE*](http://localhost/phpmyadmin/url.php?url=https%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcreate-procedure.html&ref=hackernoon.com)[*PROCEDURE*](http://localhost/phpmyadmin/url.php?url=https%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcreate-procedure.html&ref=hackernoon.com)*`GerUsers`()*[*NOT*](http://localhost/phpmyadmin/url.php?url=https%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html&ref=hackernoon.com#operator_not)*DETERMINISTIC CONTAINS SQL SQL SECURITY DEFINER BEGIN*[*Select*](http://localhost/phpmyadmin/url.php?url=https%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&ref=hackernoon.com)*\* From users; END*

**Stored Procedure with Parameters**

**With Parameters**

[*CREATE*](http://localhost/phpmyadmin/url.php?url=https%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcreate-procedure.html&ref=hackernoon.com)[*PROCEDURE*](http://localhost/phpmyadmin/url.php?url=https%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcreate-procedure.html&ref=hackernoon.com)*`GetUserByEmail`(*[*IN*](http://localhost/phpmyadmin/url.php?url=https%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fcomparison-operators.html&ref=hackernoon.com#function_in)*`uEmail`*[*VARCHAR*](http://localhost/phpmyadmin/url.php?url=https%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-types.html&ref=hackernoon.com)*(255))*[*NOT*](http://localhost/phpmyadmin/url.php?url=https%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Flogical-operators.html&ref=hackernoon.com#operator_not)*DETERMINISTIC CONTAINS SQL SQL SECURITY DEFINER BEGIN*[*select*](http://localhost/phpmyadmin/url.php?url=https%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&ref=hackernoon.com)*\* from users where email = uEmail; END*

**Execute Stored Procedure from PHP MyAdmin**

PHP MyAdmin will display list of created Stored Procedures.

**List of Stored Procedure**

Click on Execute link to Run Specific **Stored Procedure.**

Procedure without parameters will directly Run Query and list out the data Procedure parameters will open Pop up to add parameters, then Run Procedure and get result data.