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**Procedure:** Marking a stored procedure as System Object (SQL Server)

**Source:** [**LINK**](http://sqlandme.com/2011/10/03/sql-server-marking-a-stored-procedure-as-system-object/)

**Permalink:** [**LINK**](http://heelpbook.altervista.org/2012/marking-a-stored-procedure-as-system-object-sql-server/)

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# [**Marking a stored procedure as System Object (SQL Server)**](http://heelpbook.altervista.org/2012/marking-a-stored-procedure-as-system-object-sql-server/)

Marking a stored procedure as system object allows to run the procedure in a user database context. There are two requirements to allow running a procedure created in **[master]**database in user database context:

## **The stored procedure name must begin with “sp\_” :**

A stored procedure created with **“sp\_”** prefix can be used in any user database without specifying database/schema. But, the procedure still run in the context of master database and not the user database. Let’s create a procedure to test this:

|  |
| --- |
| USE   [master]GOCREATE PROCEDURE sp\_ObjectsASSELECT      name, object\_id, type\_descFROM        sys.objectsWHERE       is\_ms\_shipped <> 1GO–Execute procedure in [master]SELECT DB\_NAME() ’Current Database’EXEC sp\_Objects–-Execute procedure in [SqlAndMe]USE   [SqlAndMe]SELECT DB\_NAME() ’Current Database’EXEC sp\_Objects |



###  Result Set:

As you can see from the result set, the procedure **sp\_Objects** runs under **[master]**even after switching the database using **“USE DB”**.

## **The stored procedure must be marked as system object explicitly:**

You can mark a stored procedure as system object using **sys.sp\_MS\_marksystemobject** system procedure. Let’s mark our procedure **sp\_Objects** as system object and re-execute above code.

Below code will mark the procedure as system object:

|  |
| --- |
| USE [master]EXEC sys.sp\_MS\_marksystemobject sp\_Objects |

You can verify if the object is marked as system object:

|  |
| --- |
| USE [master]SELECT name, is\_ms\_shippedFROM sys.objectsWHERE name = ‘sp\_objects’ |

### Result Set:



**sp\_Objects** is now marked as system object and can be run in user database context:

|  |
| --- |
| –Execute procedure in [master]USE [master]SELECT DB\_NAME() ‘Current Database’EXEC sp\_Objects–Execute procedure in [SqlAndMe]USE [SqlAndMe]SELECT DB\_NAME() ‘Current Database’EXEC sp\_Objects |

### Result Set:



You can also create tables in master database which begin with prefix “**sp\_**“, and these can be used in user databases without database/schema prefix. It does not need to marked as system object. Try below example yourself:

|  |
| --- |
| –Create Table in [master]USE [master]GOSELECT DB\_NAME() ‘Current Database’CREATE TABLE sp\_Table1(Col1 CHAR(10))INSERT INTO sp\_Table1VALUES (‘Master’)–Insert/Select from [SqlAndMe]USE [SqlAndMe]SELECT DB\_NAME() ‘Current Database’INSERT INTO sp\_Table1VALUES (‘SqlAndMe’)SELECT \*FROM sp\_Table1 |

Hope This Helps!