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**Date**: 13/12/2012

**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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**Document Version:** 1.0

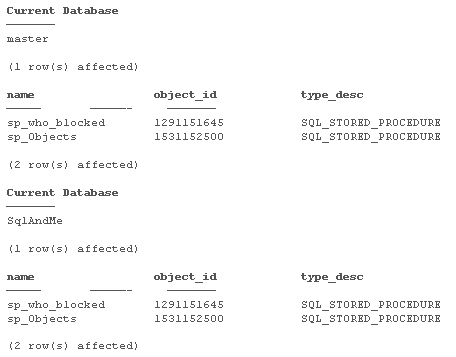
# [**Marking a stored procedure as System Object (SQL Server)**](http://heelpbook.altervista.org/2012/marking-a-stored-procedure-as-system-object-sql-server/)

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]  GO  CREATE PROCEDURE sp\_Objects  AS  SELECT      name, object\_id, type\_desc  FROM        sys.objects  WHERE       is\_ms\_shipped <> 1  GO  –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.

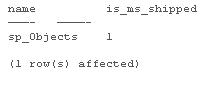
Below code will mark the procedure as system object:

|  |
| --- |
| 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\_shipped  FROM sys.objects  WHERE name = ‘sp\_objects’ |

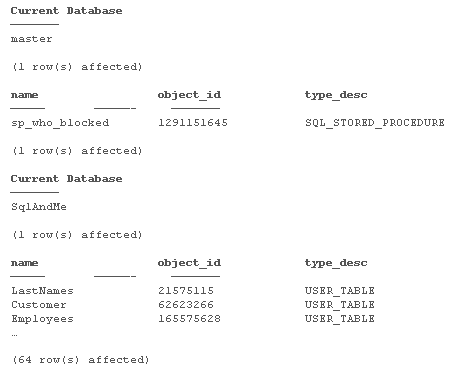
### Result Set:



**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]  GO  SELECT DB\_NAME() ‘Current Database’  CREATE TABLE sp\_Table1  (  Col1 CHAR(10)  )  INSERT INTO sp\_Table1  VALUES (‘Master’)  –Insert/Select from [SqlAndMe]  USE [SqlAndMe]  SELECT DB\_NAME() ‘Current Database’  INSERT INTO sp\_Table1  VALUES (‘SqlAndMe’)   SELECT \*  FROM sp\_Table1 |

Hope This Helps!