

**UNIVERSIDAD TECNOLÓGICA DE**

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**Stored Procedures**

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**What are stored procedures?**

A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again. So if you have an SQL query that you write over and over again, save it as a stored procedure, and then just call it to execute it.

You can also pass parameters to a stored procedure, so that the stored procedure can act based on the parameter value(s) that is passed.

**What types of stored procedures exist and what is their function?**

**System Defined Stored Procedure**

These stored procedures are already defined in SQL Server. These are physically stored in hidden SQL Server Resource Database and logically appear in the sys schema of each user-defined and system-defined database. This procedure starts with the **sp\_** prefix. Hence we don't use this prefix when naming user-defined procedures. Here is a list of some useful system defined procedure.

**Extended Procedure**

Extended procedures provide an interface to external programs for various maintenance activities. These extended procedures start with the **xp\_** prefix and stored in the Master database. Basically, these are used to call programs that reside on the server automatically from a stored procedure or a trigger run by the server.

**User-Defined Stored Procedure**

These procedures are created by the user for own actions. These can be created in all system databases except the Resource database or in a user-defined database.

**CLR Stored Procedure**

CLR stored procedure is a special type of procedure that is based on the CLR (Common Language Runtime) in .net framework. CLR integration of procedure was introduced with SQL Server 2008 and allow for the procedure to be coded in one of .NET languages like C#, Visual Basic and F#.

**CREATE PROCEDURE** procedure\_name

**AS**

sql\_statement

GO;

**ALTER PROCEDURE** procedure\_name (parameters)

[characteristics] definition;

**SELECT** procedure\_name

**FROM** table\_name

GO;

**DROP PROCEDURE** procedure\_name;