**Types of Stored Procedure**

## System Defined Stored Procedure

These stored procedures are already defined in[SQL Server](https://www.dotnettricks.com/learn/sqlserver). 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.

**System Defined Stored Procedure**

**sp\_rename**

It is used to rename a database object like stored procedure, views, table etc.

**sp\_changeowner**

It is used to change the owner of a database object.

**sp\_help**

It provides details on any database object.

**sp\_helpdb**

It provides the details of the databases defined in the SQL Server.

**sp\_helptext**

It provides the text of a stored procedure reside in SQL Server

**sp\_depends**

It provides the details of all database objects that depend on the specific database object.

## 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](https://www.dotnettricks.com/learn/netframework). 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#](https://www.dotnettricks.com/learn/csharp), Visual Basic and F#. I will discuss the CLR stored procedure later.