

EXPRESSIONS

- Anything that can be evaluated to a value
 - A column
 - A calculation
 - A function call
 - A string operation
- May appear in any clause of a SQL query

EXPRESSION EXAMPLES

- 7
- FirstName
- FirstName + ' ' + LastName
- CONCAT(FirstName, ' ', LastName)
- 1 + 2 * 3
- GETDATE()

FUNCTIONS

Hundreds of
built-in functions

You'll never
know them all

Scalar = returns
one value

Examples you
have seen

Look up by
categories

ISNULL,
COALESCE,
CONCAT, YEAR,
MONTH

FUNCTIONS

- [https://technet.microsoft.com/en-us/library/ms174318\(v=sql.110\).aspx](https://technet.microsoft.com/en-us/library/ms174318(v=sql.110).aspx)
- [https://technet.microsoft.com/en-us/library/ms187928\(v=sql.105\).aspx](https://technet.microsoft.com/en-us/library/ms187928(v=sql.105).aspx)
- <https://docs.microsoft.com/en-us/sql/t-sql/data-types/data-type-precedence-transact-sql>

Function category	Description
Configuration Functions	Return information about the current configuration.
Conversion Functions	Support data type casting and converting.
Cursor Functions	Return information about cursors.
Date and Time Data Types and Functions	Perform operations on a date and time input values and return string, numeric, or date and time values.
Logical Functions	Perform logical operations.
Mathematical Functions	Perform calculations based on input values provided as parameters to the functions, and return numeric values.
Metadata Functions	Return information about the database and database objects.
Security Functions	Return information about users and roles.
String Functions	Perform operations on a string (char or varchar) input value and return a string or numeric value.
System Functions	Perform operations and return information about values, objects, and settings in an instance of SQL Server.
System Statistical Functions	Return statistical information about the system.
Text and Image Functions	Perform operations on text or image input values or columns, and return information about the value.