# MS SQL Management Studio Introducción

*Microsoft SQL Server Management Studio - Introducción*

## Conectándose al Servidor

- Menú Inicio -> SQL Server Management Studio
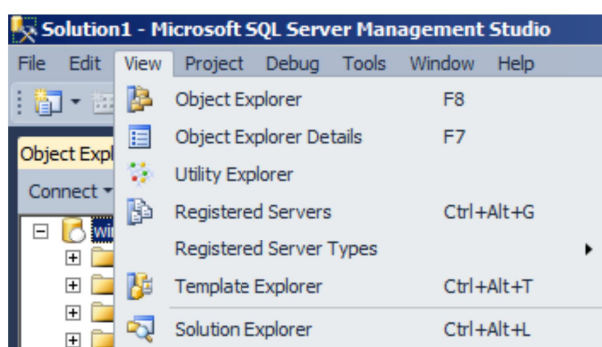- Conectarse al Servidor Local

**Connect to Server**

Microsoft® **SQL Server** 2012

| | |
|---|---|
| Server type: | Database Engine |
| Server name: | WINDOWS,1433 |
| Authentication: | Windows Authentication |
| User name: | Windows\User |
| Password: | |

☐ Remember password

[ Connect ]  [ Cancel ]  [ Help ]  [ Options >> ]

# Bases de Datos del Sistema

- Master
  - Información de cuentas de usuario, grupos de trabajo, permisos y bases de datos existentes.
- Model
  - Plantilla para la creación de nuevas bases de datos.
    - Cualquier objeto que agreguemos a esta base de dato aparecerá en las bases de datos nuevas.
- Msdb
  - Información de trabajos programados, información del servicio Agent
- Tempdb
  - Base de datos para operaciones temporales.
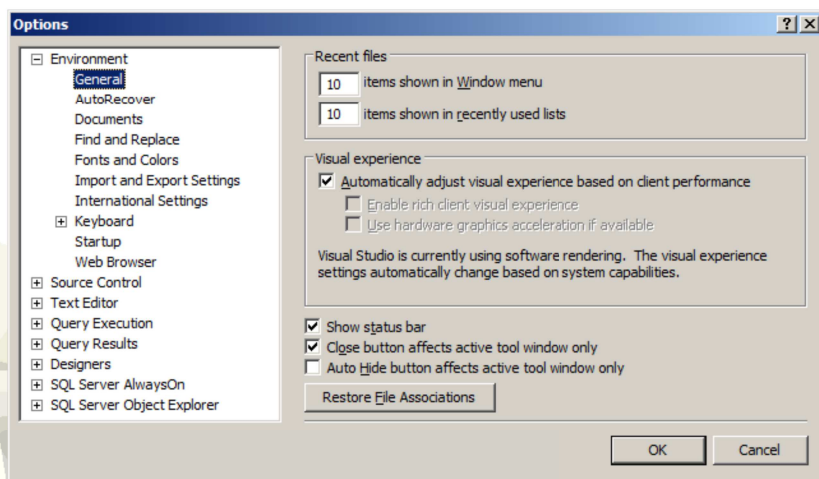    - Ej. Cursores, Tablas Temporales, etc.

# Menú View

- Object Explorer
- Object Explorer Details
- Registered Servers
- Template Explorer
- Solution Explorer

- Activity Monitor

# Personalizando Ambiente

- Tipo de Letra
- Números de Línea



# Demo: Mi Primer Base de Datos

- Crear Solución

- Crear Base de Datos
- Crear Tabla
- Insertar Datos
- Consultar Tabla

- Crear una Vista

- Crear un Sinónimo

- Utilidad: "Script OBJECT As"

# Demo: Query Window

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- Query Designer (CTRL+Shift+Q)
- Query Options

- Snippet
    - CTRL+K, CTRL+X

- Execute vs. Debug

# Tipos de Dato

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| Data Category | Data Type | Size | Value Range |
|---|---|---|---|
| Exact numeric | Bit | 1 | 1, 0, or NULL. |
| | Tinyint | 1 | 0 to 255 |
| | Smallint | 2 | -2^15 (-32,768) to 2^15-1 (32,767) |
| | Int | 4 | -2^31 (-2,147,483,648) to 2^31-1 (2,147,483,647) |
| | Bigint | 8 | -2^63 (-9,223,372,036,854,775,808) to 2^63-1 (9,223,372,036,854,775,807) |
| | Smallmoney | 4 | - 214,748.3648 to 214,748.3647 |
| | Money | 8 | -922,337,203,685,477.5808 to 922,337,203,685,477.5807 |
| | numeric[ (p[ ,s] )] | 5-17 | |
| | decimal [ (p[ ,s] )] | 5-17 | |
| Approximate numeric | Float | 4-8 | - 1.79E+308 to -2.23E-308, 0 and 2.23E-308 to 1.79E+308 |
| | Real/float(24) | 4 | - 3.40E + 38 to -1.18E - 38, 0 and 1.18E - 38 to 3.40E + 38 |
| Character strings | char [ ( N ) ] | N | N = 1 to 8000 non-Unicode characters bytes |
| | varchar [ ( N or max ) ] | N or 2^31-1 | N = 1 to 8000 non-Unicode characters bytes / Max = 2^31-1 bytes (2 GB) non-Unicode characters bytes |
| | Text | 2^31-1 | 1 to 2^31-1 (2,147,483,647) non-Unicode characters bytes |
| Unicode character strings | nchar [ ( N ) ] | N | N = 1 to 4000 UNICODE UCS-2 bytes |
| | nvarchar [ ( N | max ) ] | N or 2^31-1 | N = 1 to 4000 UNICODE UCS-2 bytes / 1 to 2^31-1 (2,147,483,647) UNICODE UCS-2 bytes |
| | Ntext | 2^30-1 | Maximum size 2^30 - 1 (1,073,741,823) bytes |
| Binary strings | binary [ ( N ) ] | N | N = 1 to 8000 bytes |
| | varbinary [ ( N | max) ] | N or 2^31-1 | N = 1 to 8000 bytes / Max = 0 to 2^31-1 bytes |
| | Image | 2^31-1 | 0 to 2^31-1 (2,147,483,647) bytes |
| Other data types | Uniqueidentifier | 16 | xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx (hex decimal) |
| | Timestamp | 8 | binary(8) or varbinary(8) |
| | rowversion | 8 | binary(8) or varbinary(8) |
| | xml | 2^31-1 | xml( [ CONTENT | DOCUMENT ] xml_schema_collection ) |
| | sql_variant | 8016 | data type that stores values of various SQL Server-supported data types |
| | Hierarchyid | 892 | 6*logA n bits where n is child node |
| | Cursor | | |
| | Table | | |
| | Sysname | 256 | |
| Date and time | Date | 3 | 0001-01-01 through 9999-12-31 |
| | time [ (fractional second precision) ] | 3 to 5 | 00:00:00.0000000 through 23:59:59.9999999 |
| | Smalldatetime | 4 | Date: 1900-01-01 through 2079-06-06 / Time: 00:00:00 through 23:59:59 |
| | Datetime | 8 | Date: January 1, 1753, through December 31, 9999 / Time: 00:00:00 through 23:59:59.997 |
| | datetime2 [ (fractional seconds precision) ] | 6 to 8 | Date: 0001-01-01 through 9999-12-31 / Time: 00:00:00 through 23:59:59.9999999 |
| | datetimeoffset [ (fractional seconds precision) ] | 8 to 10 | Date: 0001-01-01 through 9999-12-31 / Time: 00:00:00 through 23:59:59.9999999 / Time zone offset: -14:00 through +14:00 |
| Spatial | Geography | 2^31-1 | |
| | Geometry | 2^31-1 | |

https://sqlserverrider.wordpress.com/2013/04/21/sql-server-data-type-cheat-sheet-sql-server-2012/
https://msdn.microsoft.com/en-us/library/ms187752%28v=sql.110%29.aspx

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- Crear la base de datos del caso de estudio en MS SQL Server, y enviar el script de creación de todos los objetos a

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