



SQL Server 2014

UNIT 3



Objectives

- Review the different editions of SQL Server 2014.
- Install SQL Server 2014 Express Edition.
- Use SQL Server Management Studio.



Installation

- SQL Server 2014 is a Microsoft's product.
- Focused on client/server systems.
- Several editions are available, depending on the user's needs.



SQL Server 2014 Editions

- SQL Server 2014 Express Edition.
- SQL Server 2014 Standard Edition.
- SQL Server 2014 Enterprise Edition.
- SQL Server 2014 Business Intelligence
- SQL Server 2014 Web Edition.
- SQL Server 2014 Compact Edition.
- SQL Server 2014 Developer Edition



Installing SQL Server 2014 EE

- Download: Microsoft SQL Server 2014 Express Edition **with Advanced Services**
- Without Advanced Services does not include the SSMS
- Execute the file downloaded
- Follow the instructions



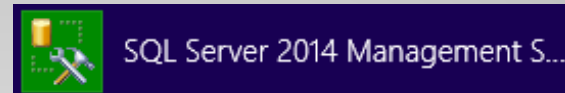
SQL Server Management Studio

- SQL Server Management Studio is the graphic tool that allows databases creation, manipulation and control.
- Lots of administration tools are included.
- More information:
[https://msdn.microsoft.com/en-us/library/ms174219\(v=sql.120\).aspx](https://msdn.microsoft.com/en-us/library/ms174219(v=sql.120).aspx)



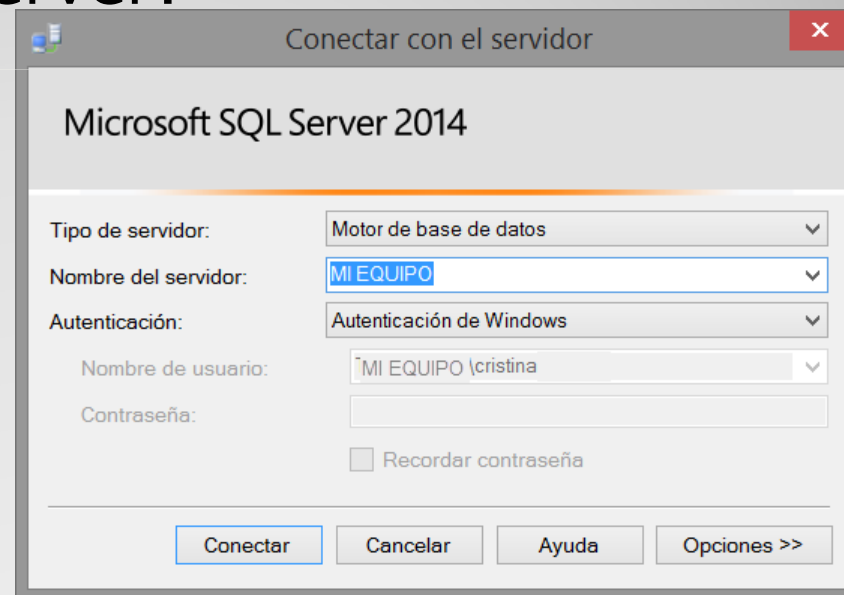
Enter SSMS

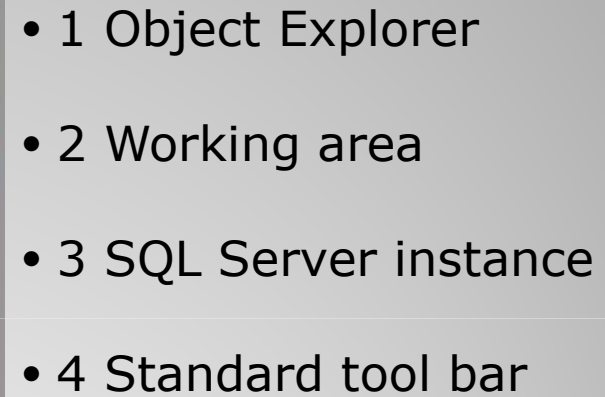
- Start the application:
 - From the direct access



SQL Server 2014 Management S...

- We connect to the server:







Databases

File types:

- Primary data files (.mdf).
- Secondary data files (.ndf).
- Log files (.ldf).

Every database has one primary data file.

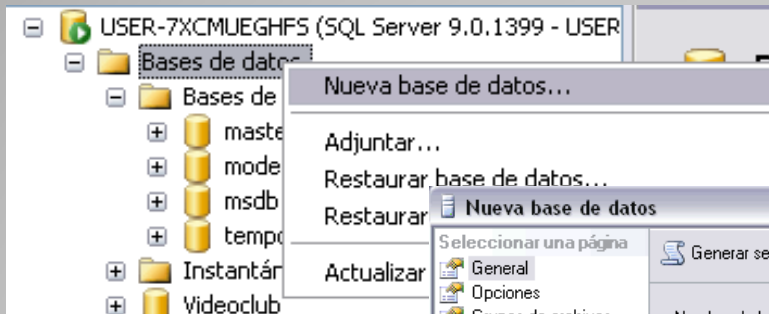
Some databases may not have any secondary data files, while others have several secondary data files.

There must be at least one log file for each database, although there can be more than one.

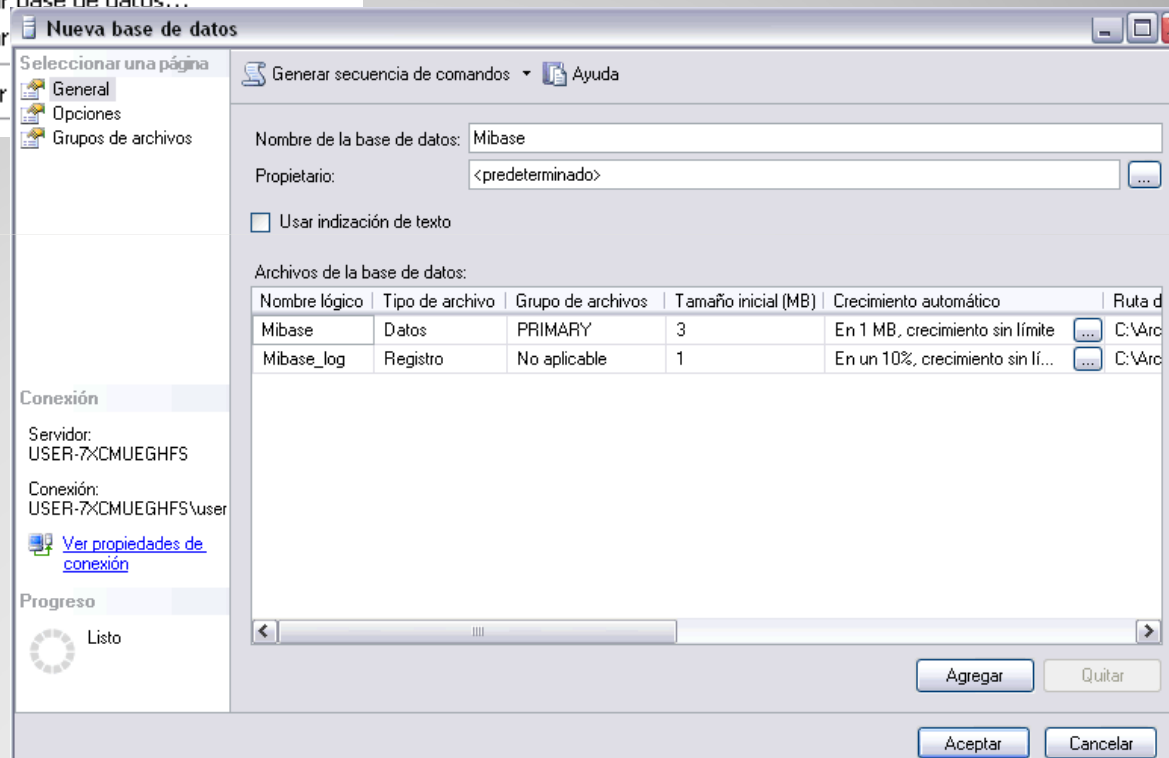
SQL Server does not enforce the .mdf, .ndf, and .ldf file name extensions, but these extensions help you identify the different kinds of files and their use.



databases



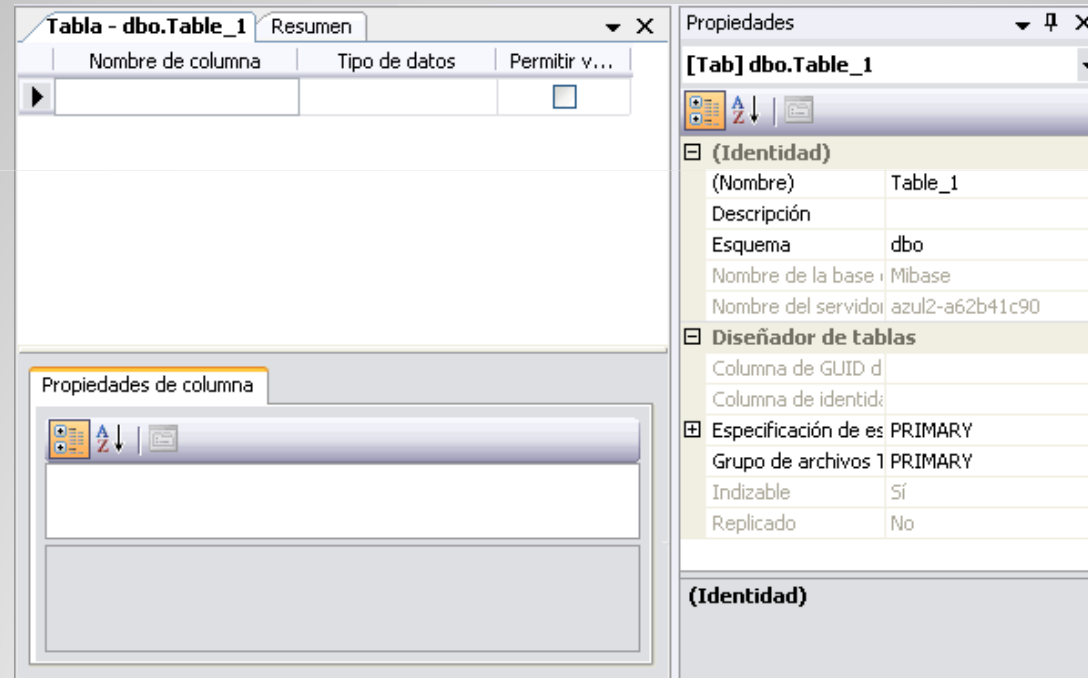
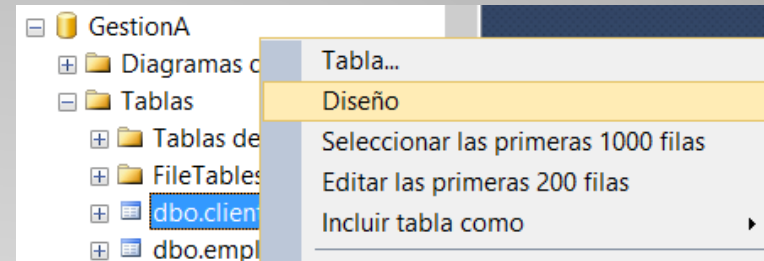
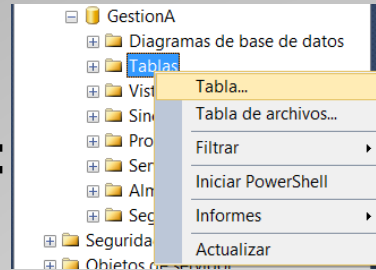
- Logical name
- File type
- File Group
- Initial size
- Autogrowth
- Path
- Add





Tables

- Definition:





Tables

- Define columns
- datatypes
- NULL values
- Primary key

Tabla - dbo.empleados Resumen

Nombre de columna	Tipo de datos	Permitir v...
numemp	int	<input type="checkbox"/>
nombre	nvarchar(20)	<input type="checkbox"/>
edad	int	<input checked="" type="checkbox"/>
oficina	int	<input checked="" type="checkbox"/>
titulo	nvarchar(20)	<input checked="" type="checkbox"/>
contrato	datetime	<input checked="" type="checkbox"/>
jefe	int	<input checked="" type="checkbox"/>
cuota	money	<input checked="" type="checkbox"/>
ventas	money	<input checked="" type="checkbox"/>

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ventas	money	<input checked="" type="checkbox"/>

Propiedades de columna

(General)	
(Nombre)	numemp
Permitir valores nulos	No
Tipo de datos	int
Valor o enlace predeterminado	
Diseñador de tablas	
Descripción	
Determinístico	Sí
Especificación de columna calculada	
Especificación de identidad	No

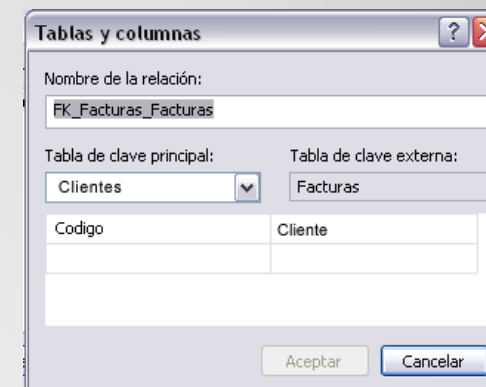
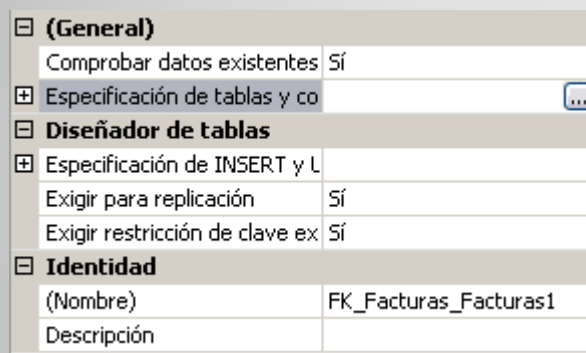
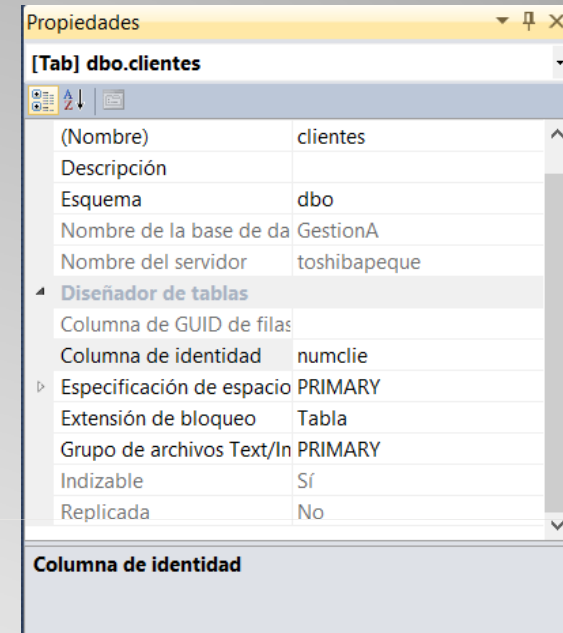
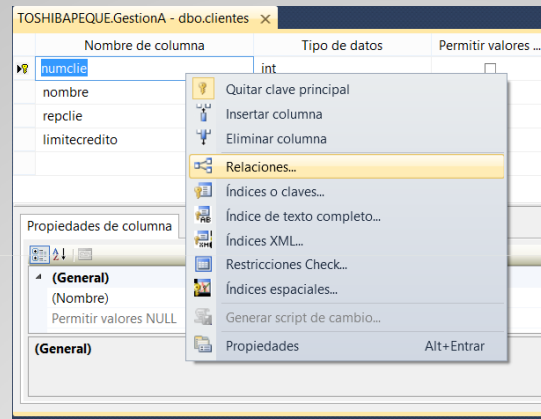
Propiedades de columna

(Nombre)	nombre
Longitud	20
Permitir valores nulos	No
Tipo de datos	nvarchar
Valor o enlace predeterminado	
Diseñador de tablas	
Descripción	
Determinístico	Sí
Especificación de columna calculada	
Especificación de identidad	No



Tables

- Identity column
- Foreign key





Queries

- New query

The screenshot shows the SQL Server Enterprise Manager interface. A context menu is open over the 'GestionA' database, with 'Nueva consulta' (New query) selected. Below, a new query window titled 'SQLQuery3.sql - TO...EQUE\cristina (54))' is open. It contains the following SQL code:

```
USE GestionA
SELECT * FROM clientes; -- comentario de linea
/* comentario de bloque
continua el comentario
*/
```

The 'Resultados' (Results) tab is active, displaying a table with 5 columns: 'numclie', 'nombre', 'repc...', and 'limitecred...'. The table contains 3 rows of data:

	numclie	nombre	repc...	limitecred...
1	2101	Luis García Antón	106	6500
2	2102	Alvaro Rodríguez	101	6500
3	2103	Jaime Llorens	110	5000

At the bottom of the results window, a status bar indicates: 'Consulta ejecutada correctamente' (Query executed successfully), 'TOSHIBAPEQUE (12.0 RTM)', 'TOSHIBAPEQUE\cristina ...', 'GestionA', '00:00:00', and '22 filas'.

- Execute / Comments / Save / USE Change the default DB