# **SQL** Comparison Toolset

# SQL SERVER SCHEMA AND DATA COMPARISON

Rather than spending hours of time digging through and scrutinizing the database structure and/or data and manually generating scripts, let SQL Comparison Toolset do it for you!

# WHAT IS THE SQL COMPARISON TOOLSET?

The SQL Comparison Toolset bundles two helpful IDERA tools to bring you one powerful comparison toolset:

**SQL Schema Compare** provides a quick and easy way for developers and DBAs to compare SQL Server database schemas and propagate schema changes from one environment to another.

**SQL Data Compare** allows you to compare and synchronize tables across servers, databases and versions when performing data migrations, copying databases or auditing data.

# **PRODUCT HIGHLIGHTS**

- · Compare the structure of databases, including objects and data
- Display the differences in an easy-to-use and understand interface
- Generate a single synchronization script covering both the schema and data changes, reducing errors that happen when performed manually
- Execute the generated script to synchronize databases, for example, when moving database changes from test to production
- Automate the process of database migration, synchronization and promotion
   using a powerful command-line interface

			-	the local of the local division of the local		- e X
Home Review Co	mpare Synchronize					
				Next Difference	Toggle Status 🔹	Collapse Groups
		8	1			
			ERVER2012]	Previous Difference Toggle Base Objects •		Expand Groups Font
		Healthcare_Dev		= Toggle Equal Status	Toggle Advanced Objects •	Size Size
Comparison Result		Generate Script		Scher	ma Differences	Grouping and Font
Workspace New Con	н	OUSQLIMSSQLSERVER2012 ealthcare_Dev		HOUSQLWSSQLS	ERVER · Name Session	
		eanncare_Dev		Healthcare_Prod		
Comparison Result						
Synchronize 1				Status  Generate the script for:		script for:
H	Extension			-		SSQLSERVER2012].[Healthcare_Prod]
	Photo Notes					
	ReportsTo				Generate the	
	PhotoPath		-		[HOUSQLW:	SSQLSERVER2012][Healthcare_Dev]
	- TitleOfCourtesy		-		A Verse	parison options
HireDate						
-	HireDate		-			
H H	HireDate		+			mparison results
den en e	HireDate	=	-			
Schema Differences	HireDate	m Right Database	script			
	Left Database Script	m Right Database :			← CRefresh co	mparison results
i [Extension	Left Database Script ] [nvarchar] (4) COLLATE				<ul> <li>Refresh co</li> <li>n) [nvarchar] (4) COLLAI</li> </ul>	mparison results
[Extension [Photo] [i	Left Database Script	SQL_Latin1_General	_CP1_C ^	16 [Photo]	Prefresh control (1) COLLAT (image) NULL,	mparison results
[Extension [Photo] [i [Notes] [n [ReportsTo	Left Database Script ] [nvarchar] (4) COLLATE mage] NULL, SexE] COLLATE SQL_Latin1 ] (int) NULL,	SQL_Latin1_General _General_CP1_CI_AS	_CP1_C . NULL,	16 [Photo] 17 [Notes] 18 [Reports	on] [nverchar] (4) COLLAT [image] NULL, [ntext] COLLATE SQL_LATI [] [int] NULL,	mparison results FE SQL_Latin1_General_CP1_CI Ln1_General_CP1_CI_AS NULL,
[Extension [Photo] [i [Notes] [n [ReportsTo [PhotoPath	Left Database Script ] [nvarchar] (4) COLLATE mage] NULL, text] COLLATE SQL_Latin1	SQL_Latin1_General _General_CP1_CI_AS	_CP1_C . NULL,	16 [Photo] 17 [Notes] 18 [Reports 19 [PhotoPa	con] [nvaxchar] (4) COLLAN [image] NULL, [ntext] COLLATE SQL_LatJ To] [int] NULL, [] [nvarchar] (255) COLL	mparison results FE SQL_Latini_General_CP1_CI ini_General_CP1_CI_AS NULL, LATE SQL_Latini_General_CP1_
[Extension [Fhoto] [i [Notes] [n [ReportsTo [FhotoPath	Left Database Script ] [nvarchar] (4) COLLATE mage] NULL, SexE] COLLATE SQL_Latin1 ] (int) NULL,	SQL_Latin1_General _General_CP1_CI_AS	_CP1_C . NULL,	16 [Photo] 17 [Notes] 18 [Reports 19 [PhotoPa 20 [TitleOf	con] [nvaxchar] (4) COLLAN [image] NULL, [ntext] COLLATE SQL_LatJ To] [int] NULL, [] [nvarchar] (255) COLL	mparison results FE SQL_Latini_General_CP1_C1 Lni_General_CP1_C1_AS NULL, LATE SQL_Latini_General_CP1
[Extension [Photo] [1 [Notes] [n [ReportsTo [PhotoPath ) ON [PRIMARY]	Left Database Script ] [nvarchar] (4) COLLATE mage] NULL, SexE] COLLATE SQL_Latin1 ] (int) NULL,	SQL_Latin1_General _General_CP1_CI_AS	_CP1_C . NULL,	16         [Photo]           17         [Notes]           18         [Reports]           19         [PhotoPa           20         [TitleOf           21         [HireDat           22         ) ON [PRIMAR	Refresh co on] [nvarchar] (4) COLLAT [image] NULL, [ntext] COLLATE SQL_LATE IO] [int] NULL, Ch] [nvarchar] (255) COLL Courteay] [nvarchar] (255) [nvarchar] (25	mparison results FE SQL_Latin1_General_CP1_C1 in1_General_CP1_C1_AS NULL, LATE SQL_Latin1_General_CP1 0 COLLATE SQL_Latin1_General
(Extension (Photo) [i (Notes] [n (ReportsTo (PhotoPath ) ON (PRIMARY) GO	Left Database Script [ Invarchar] (4) COLLATE mage] NULL, text) COLLATE SQL_Latini ] [int] NULL, ] [Invarchar] (255) COLLAT	SQL_Latin1_General _General_CP1_CI_AS	_CP1_C . NULL,	16         [Photo]           17         [Notes]           18         [Reports]           19         [PhotoPa           20         [TitleOf           21         [HireDat           22         ) ON [PRIMAR           23         GO	Refresh co conj [nvarchar] (4) COLLAN [image] NULL, [next] COLLAT SQL_Lati To] [int] NULL, to] [nvarchar] (255) COLL Coursesy] [nvarchar] (258) [ datetime] NULL	mparison results FE SQL_Latin1_General_CP1_CI in1_General_CP1_CI_AS NULL, LATE SQL_Latin1_General_CP1 0 COLLATE SQL_Latin1_General
(Extension (Photo) (i (Notes) [n (ReportsTo (PhotoPath ) ON (PRIMARY) GO	Left Database Script [ Invarchar] (4) COLLATE mage] NULL, text) COLLATE SQL_Latini ] [int] NULL, ] [Invarchar] (255) COLLAT	SQL_Latin1_General _General_CP1_CI_AS	_CP1_C . NULL,	16         [Photo]           17         [Notes]           18         [Reports]           19         [PhotoPa           20         [TitleOf           21         [HireDat           22         ) ON [PRIMAR	Refresh co conj [nvarchar] (4) COLLAN [image] NULL, [next] COLLAT SQL_Lati To] [int] NULL, to] [nvarchar] (255) COLL Coursesy] [nvarchar] (258) [ datetime] NULL	mparison results FE SQL_Latin1_General_CP1_CI in1_General_CP1_CI_AS NULL, LATE SQL_Latin1_General_CP1 0 COLLATE SQL_Latin1_General
(Extension (Fhoto) [1 (Notes) [n (Notes) [n (PhotoPath ) ON (PRIMARY) GO	Left Database Script  (Invarchar) (4) COLLATE mage] NULL, Ext: COLLATE SQL_Latin1 (int) NULL, (Invarchar) (255) COLLAT TEXTIMAGE_ON (PRIMARY) y - Equal	SQL_Latin1_General _General_CP1_CI_AS Z SQL_Latin1_General	CP1_C ^ NULL, a1_CP1	16 [Photo] 17 [Notes] 18 [Reports] 19 [PhotoPa 20 [Titleof 21 [HireDat 23 GO 24 25 26 ⊡ Primary]	Perfect co     P	mparison results FE SQL_Latinl_General_CP1_C1 ini_General_CP1_C1_AS NULL, LATE SQL_Latinl_General CP1 COLLATE SQL_Latinl_General ()
(Extension (Fhoto) [1 (Notes] [n (Nepersion (FhotoPath ) ON (PRIMARY) GO	Left Database Script [Invarchar] (4) COLLATE mage] NULL, text] COLLATE SQL_Letin1 [ int] NULL, ] [nvarchar] (255) COLLAT TEXTIMAGE_ON (PRIMARY]	SQL_Latin1_General _General_CP1_CI_AS Z SQL_Latin1_General	CP1_C ^ NULL, a1_CP1	16 [Photo] 17 [Notes] 18 [Reports] 19 [PhotoPa 20 [TitleOf 21 [HireDat 22 ] ON [PRIMAR 23 GO 24	Perfect co     P	mparison results FE SQL_Latinl_General_CP1_C1 ini_General_CP1_C1_AS NULL, LATE SQL_Latinl_General CP1 COLLATE SQL_Latinl_General ()
<pre>5 [Extension [Photo] [i [ReportsTo [ReportsTo [PhotoPath ] ON [PRIMARY] 60 5Primary Ke ] ALTER TABLE [d] 6 (</pre>	Left Database Script  [[(rvarchar](4) COLLATE mage] NULL,  cext] COLLATE SQL_Latin1 [ (int) NULL, ] [(rvarchar](255) COLLAT TEXTINGE_ON (FRIDGRY)  y - Equal bo], [Medicals] ADD CONST	SQL_Latin1_General _General_CP1_CI_AS Z SQL_Latin1_General	CP1_C ^ NULL, a1_CP1	16 [Photo] 17 [Notes] 18 [Reports 19 [PhotoPa 20 [TitleOf 21 [HireDat 22 ] ON [PRIMAR 23 GO 24	c Refrect co      collar of Collar      financi NULL      financi NULL      financi NULL      financi NULL      collart ogl_Lat      for (inf) NULL      collart ogl_Lat      financial(255) coll      collart      financial(255) collart      collart      collart      collart      financial(255) collart      collart      financial(255) collart	mparison results FE SQL_Latinl_General_CP1_CI ini_General_CP1_CI_AS NULL, LATE SQL_Latinl_General_CP1 COLLATE SQL_Latinl_General ()
S     [Extension       6     [Fhoto]       7     [Notes] [n       8     [ReportsTo]       1     [PhotoPath]       2     ) ON [FRIMARY]       3     GO       5     [Primary Ke]       6     [Primary Ke]       9     [MedicalID]	Left Database Script [[[rvarchar](4) COLLATE mage] NULL, [[ctr] NULL, [[[trt] NULL, ] [[rvarchar](255) COLLAT TEXTINGGE_ON [FRIMARY] y - Equal bo].[[Medicals] ADD CONST ] ASC	SQL_Latin1_General _General_CP1_CI_AS E SQL_Latin1_General RAINT (PK_Medicals)	_CP1_C ^ NULL, a1_CP1	16         [Fhoto]           17         [Notes]           18         [Reports]           19         [Fhoto]           20         [TiteOT]           21         [HireDat]           22         ) ON [FRIMAR           23         GO           24	Contractant (4) CollAit (1mage) VIL. (1mage) VIL.	mparison results FE SQL_Latin1_General_CP1_CT in1_General_CP1_CT_AS NVLL, LATE SQL_Latin1_General_CP1 + OOLLATE SQL_Latin1_General +1 HSTRAINT [FW_Medicals] FRING
6 [Extension 6 [Fhoto] [ 1 [Notes] [ 8 [ReportsTo 9 [FhotoPath 1 ] ON [FRIMARY] 6 ] Primary Ke 5 Primary Ke 6 [RedicalD] 9 [MedicalD] 1 ] MITH (FAD_INDE	Left Database Script  [[(rvarchar](4) COLLATE mage] NULL,  cext] COLLATE SQL_Latin1 [ (int) NULL, ] [(rvarchar](255) COLLAT TEXTINGE_ON (FRIDGRY)  y - Equal bo], [Medicals] ADD CONST	SQL_Latin1_General _General_CP1_CI_AS E SQL_Latin1_General RAINT (PK_Medicals)	_CP1_C ^ NULL, a1_CP1	16 [Fhoto] 17 [Notes] 18 [Reports 19 [FhotoPa 20 [TitleOT 21 [HireDar 23 GO 24 [ 25 ] 26 ⊡Primary 27 ALTER TABLE 28 ( 29 [Medical 30 ) 31 KITH (PAD IN	Contractant (4) CollAit (1mage) VIL. (1mage) VIL.	mparison results FE SQL_Latinl_General_CP1_CI ini_General_CP1_CI_AS NULL, LATE SQL_Latinl_General CP1 COLLATE SQL_Latinl_General ()
6     [Extension       6     [Photo] [       7     [Notes] [n       8     [PhotoPath       1     )       9     [ON [FRIMARY]       3     GO       5    Primary Ke       6    Primary [Ke       9     [MedicalID	Left Database Script [[[rvarchar](4) COLLATE mage] NULL, [[ctr] NULL, [[[trt] NULL, ] [[rvarchar](255) COLLAT TEXTINGGE_ON [FRIMARY] y - Equal bo].[[Medicals] ADD CONST ] ASC	SQL_Latin1_General _General_CP1_CI_AS E SQL_Latin1_General RAINT (PK_Medicals)	_CP1_C ^ NULL, a1_CP1	16         [Fhoto]           17         [Notes]           18         [Reports]           19         [Fhoto]           20         [TiteOT]           21         [HireDat]           22         ) ON [FRIMAR           23         GO           24	Petreb co      Control (1) COLLAN      Image   WOL,      Image   WOL,      Image   WOL,      Sol_ast      Image   WOL,      Sol_ast      Image   WOL,      Sol_ast      Image   WOL      Sol_ast      Image   WOL      Image	mparison results FE SQL_Latini_General_CPI_CI ini_General_CPI_CI_AS NULL, LATE SQL_Latini_General_CPI_ COLLATE SQL_Latini_General () NSTRAINT (FK_Medicals) FRING
6 [Extension 6 [Fhoto] [ 1 [Notes] [ 8 [ReportsTo 9 [FhotoPath 1 ] ON [FRIMARY] 6 ] Primary Ke 5 Primary Ke 6 [RedicalD] 9 [MedicalD] 1 ] MITH (FAD_INDE	Left Database Script [[[rvarchar](4) COLLATE mage] NULL, [[ctr] NULL, [[[trt] NULL, ] [[rvarchar](255) COLLAT TEXTINGGE_ON [FRIMARY] y - Equal bo].[[Medicals] ADD CONST ] ASC	SQL_Latin1_General _General_CP1_CI_AS E SQL_Latin1_General RAINT (PK_Medicals)	_CP1_C ^ NULL, a1_CP1	16 [Fhoto] 17 [Notes] 18 [Reports 20 [TitleOf 21 [HireDat 22 ] ON [FRIMAR 23 GO 24 ] 25 ] 26 ]Primary ] 27 AlTER TABLE 28 [ 29 [Medical 30 ] 31 KITH (FAD_IN	Petreb co      Control (1) COLLAN      Image   WOL,      Image   WOL,      Image   WOL,      Sol_ast      Image   WOL,      Sol_ast      Image   WOL,      Sol_ast      Image   WOL      Sol_ast      Image   WOL      Image	mparison results FE SQL_Latini_General_CPI_CI ini_General_CPI_CI_AS NULL, LATE SQL_Latini_General_CPI_ COLLATE SQL_Latini_General () NSTRAINT (FK_Medicals) FRING

# **Start for FREE!**



To keep a system running smoothly, it's critical to quickly identify and manage schema and data changes in your databases. **SQL Comparison Toolset** does this quickly, easily, and accurately.



#### **Project Workspace**

Create and store different workspaces for different sets of servers and databases and easily navigate back to them to jump straight into a comparison operation.

#### Comparison Sessions

Save all the settings and configuration options related to a comparison operation such as databases, credentials, options, mapping rules, scripting options, and more; allowing for single click re-run of comparison operations.

#### Automate Comparison and Synchronization:

Automate data or schema comparison and synchronization operations using the command-line utility allowing for unattended comparison and synchronization.

## COMPARE AND SYNCHRONIZATION

#### **Customizable Comparisons:**

Easily compare and synchronize data for whole databases or selected tables and quickly compare and synchronize database schemas for whole databases or selected objects.

#### Schema Snapshots

2

Maintain an audit trail of schema changes by saving schema snapshots. Run comparisons between schema snapshots or against live databases to identify differences and provide a safe and efficient way to reverse schema changes when necessary.

#### Robust Object Support:

Supports all database objects including tables, stored procedures, views, user-defined functions, XML schema collections and CLR Assemblies, as well as data.

#### Ready to Deploy Scripts:

Generate a complete database script, properly ordered based on the dependencies between the objects.

#### Mapping Rules:

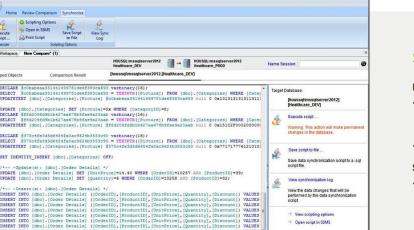
Customize the way database schemas, object names, and data types are paired.

# Cross Version Comparison and Synchronization:

Although comparison and synchronization scripts are version specific, SQL comparison toolset can perform synchronizations between a variety of supported SQL Server versions.

#### **Robust Object Filters:**

Comparison filters can include/exclude particular object types by object name.



### SYSTEM REQUIREMENTS

#### **Management Console**

- X86 and x64: Windows XP SP3, Windows Server 2003 SP2, Windows 2008, Windows Vista, Windows 7, Windows 2008 R2, Windows 8, Windows server 2012
- Microsoft .NET 4.0

#### SQL Server Support

• SQL Server 2005, 2008, 2008 R2, 2012, 2014



der Details] WITH NOCHECK ADD der Details Prescriptions] FOREIGN KEY

## IDERA.com

TWITTER twitter.com/Idera\_Software FACEBOOK facebook.com/IderaSoftware LINKEDIN linkedin.com/company/idera-software 877 GO IDERA 464.3372 EMEA +44 (0) 1753 218410 APAC +61 1300 307 211 MEXICO +52 (55) 8421-7980 BRAZIL +55 (11) 3280-1159