

SQL Data Generator

"Red Gate's SQL Data Generator has overnight become the principal tool we use for loading test data to run our performance and load tests."

Grant Fritchey Principal DBA, FM Global

One-click data generation for SQL Server

What is SQL Data Generator?



Creating realistic example or test data can be a tedious process, but it is essential for both functional and load testing, and for giving product demonstrations. SQL Data Generator speeds up the process by quickly generating any number of rows, based on templates you specify. To save even more time, for many databases SQL Data Generator will do most of the configuration work for you, based on your database schema.

Why SQL Data Generator?

Using SQL Data Generator is far easier and more straightforward than manually populating a database, or writing scripts to do so, and the tool is flexible enough to work with any database you are likely to encounter. Furthermore, SQL Data Generator uses bulk copy insertion, so there is no quicker way to get test data into your SQL Server.

Features of SQL Data Generator include:

- Intuitive, easy-to-use user interface makes it easy to start populating your database immediately
- Intelligently generates appropriate data based on table and column names and data types
- Over 60 built-in generators with sensible configuration options
- Inter-column dependency support, for example, to generate records with matching email addresses and domain names
- Very fast data generation through the use of SQL Server's bulk copy insertion feature
- Support for all SQL Server 2000, 2005, and 2008 data types, including CLR types
- Command-line support for automated data generation, for example, as part of your build process
- Foreign key support for generating consistent data across multiple tables with no manual configuration
- Seeded random data generation allows you to generate the same set of data every time
- Select data from existing tables to easily create a database containing a sample of your data
- Import data from flat files in CSV format
- User-defined generators in any .NET language give complete control over the generated data

AddressID IDs	AddressLine1 Address Line (Stre...	AddressLine2 Address Line (Stre...	City US City	StateProvince Foreign Key (f...	PostalCode ZIP Code
1	1 317 Oak Blvd.	749 East Rocky...	Oklahoma	☺	22649
2	2 162 Clarendon F...	30 North Green...	Anchorage	☺	95193
3	3 36 Fabien Street	377 East Green...	Montgomery	☺	04190
4	4 477 Old Parkway	78 Fabien Freew...	Boston	☺	24087
5	5 769 Nobel Park...	990 Clarendon D...	Tampa	☺	72791
6	6 52 Rocky Secon...	702 South Milto...	Memphis	☺	73139
7	7 743 White Oak F...	144 Nobel Boule...	Nashville	☺	71731
8	8 41 East First Fre...	644 East Rocky...	Tacoma	☺	85105
9	9 110 Oak Blvd.	457 Fabien Park...	Charlotte	☺	89925
10	10 871 West Milton...	69 Green New...	Albuquerque	☺	24447
11	11 794 Green First...	877 West Cowle...	Buffalo	☺	30402
12	12 436 New Way	394 Hague Free...	Lincoln	☺	96591
13	13 188 Rocky Fabie...	NULL	Anchorage	☺	09309
14	14 445 Green Fabie...	449 Rocky Fabie...	Chicago	☺	97610
15	15 471 Oak Blvd.	13 Nobel Road	Phoenix	☺	05891

The preview pane of SQL Data Generator shows the first 100 rows of data that will be inserted. When you make changes, you can easily see their effect in the preview pane.

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SQL Data Generator™ (continued)

How does SQL Data Generator work?

SQL Data Generator has a large number of generators, each of which produces a different sort of data. For example, there are generators to produce names, addresses, numbers, and to extract data from existing databases or files. Once the correct generators have been selected, either by hand or automatically, SQL Data Generator uses them to provide values for as many rows as desired.

When should I use SQL Data Generator?

Use SQL Data Generator when you want some data to test or demonstrate an application. You can also use it to populate a database with initial data, either based on an algorithm or from an external source.

Who should use SQL Data Generator?

SQL Data Generator is used by DBAs, developers, and testers, who need appropriate realistic data to test and demonstrate SQL Server-driven applications or stored procedures.

Technical specifications

Supported environments

- SQL Server 2000, SQL Server 2005 and SQL Server 2008

Operating requirements

- Windows 2000, Windows XP, Windows Vista, Windows 7, Windows Server 2003 or Windows Server 2008
- SQL Server client-side tools
- SQL Server 2000, 2005 or 2008
- Microsoft .NET Framework 2.0 or later
- MDAC 2.8+
- 256 MB RAM
- 200 MB hard disk space on the client
- Sufficient hard disk space on the server to store all the generated data
- Runs on a user's PC (can also run on a server)

"In less than the time it took me to get my coffee, I had a database with 2 million rows of data for each of 10 tables. The database was filled with proper names, cities, geographical locations, and FK links."

Stephanie Beach, QA Manager

How much does SQL Data Generator cost?

SQL Data Generator costs **\$295** for a single user license with discounts available for multiple license purchases. **SQL Data Generator** can also be purchased in a bundle of complementary products for a discount on the cost of the individual products.

- **SQL Prompt Bundle™ = \$595**
SQL Prompt™ Pro + SQL Doc™ Pro + SQL Refactor™ + SQL Data Generator™
- **SQL Developer Bundle™**
SQL Compare Pro + SQL Data Compare Pro + SQL Dependency Tracker + SQL Packager + SQL Prompt Pro + SQL Refactor + SQL Data Generator + SQL Multi Script + SQL Doc + SQL Comparison SDK = **\$1295**
- **SQL Toolbelt™**
SQL Compare Pro + SQL Data Compare Pro + SQL Dependency Tracker+ SQL Packager + SQL Prompt Pro + SQL Refactor + SQL Backup Pro + SQL Object Level Recovery Native + SQL Data Generator + SQL Multi Script + SQL Doc + SQL Comparison SDK + SQL Response = **\$1995**

Annual support and upgrade contracts are available for 25% of the product's purchase price.

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SQL Data Generator™ (continued)

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