## Datagenerator for MySQL databases

With this application you can easily **insert multiple rows** into your local database with random data or values that you choose from predefined options. For (web)developers or hobby programmers it **saves a lot of time** to insert testdata in the database while testing their code. Besides, it's not just boring lorem ipsum, but real-like data, so much more **fancy when you present your website** or application to your customers.

### Unique features

- Preview of the values that will be generated.
- Your local databases are automatically scanned.
- Import directly into the database or generate sql, array or JSON.
- It handles primary keys, autoincrement, unique keys and foreign keys (also multicolumn).
- Countryspecific data for real localized values (USA, Great Britain, Netherlands, France and Germany).
- For maximum flexibility you can add own options and set ranges.

### Features

- Scans your local databases and determines which datatypes are used
- Insert upto 300 rows in one request
- Configure columns to add **default** values or **custom** values
- **Landspecific data** for real localized values (USA, Great Britain, Netherlands, France and Germany)
- Options for values are based on columntype
- Insert upto 5 own values to use as custom value(string, integer, md5, serialized or json_encode)
- Choose from many **predefined types** of values such as surnames, firstnames, streets, postalcodes, emailaddresses, states, provences, countries, telephonenumbers, url's, md5, screenresolutions, colorcodes, mimetypes, fileextensions, filenames, IP addresses, INET_ATON, months, dates, years, timestamps, times
- Set a **range** for dates, numbers, names, cities etc.
- **Output** directly to database, query as text or a sqlfile
- **Save current configuration** to use on a later moment, saved as xml in the `misc/saved` folder existing in datagenerator folder.
- View current tablerows to see what type of values each column has, useful when you can't exactly see by the name of the column what kind of data is in the column
- Application in **English, Dutch or German**
- No installation required, just put the datagenerator folder in your htdocs folder and typ in your browser: localhost/datagenerator. You can set the language in config.php.
- Tested with PHP 5.2.6 on Windows Vista (XAMPP 1.6.7), PHP 5.3.2 on Windows 7, PHP 5.4.16 on Window XP (XAMPP 1.8.2) and PHP 5.4.16 on Ubuntu 9.0.4 (XAMPP 1.8.2) and on a Mac (MAMP)
- Tested with Firefox 22.0, Chrome 28, Safari 5.1.7 and Opera 15.0
- Tested with personal databases and the MySQL example databases `sakila-schema` and `world_innodb`.

**Requirements**

- You need to have a local Apache webserver with PHP, phpMyAdmin and MySQL installed. The easiest way to do this is to **install XAMPP (free software)**. (http://www.apachefriends.org/en/xampp.html)

**Hints**

- **Foreign keys** are detected and automatically given a value that exists in the column of the linked table. You can only override this value by adding your own value. But pay attention that the value has to be an existing value in the linked table otherwise the constraint fails.
  *When you put the mouse over the foreign key icon the linked table and column is displayed.*
  Multi-column foreign keys are processed as multicolumns, so there are checks on multi-columns instead of individual columns.
- **Unique keys** are detected and automatically given unique values.
- Sometimes it's better to generate data in **two or more steps**.
  **1.** For example when you want to fill two tables that depend on each other with an ID that must exist in one table and there is no constraint configured in the table structure. First generate data in table 1 with e.g. the option 'counting up from 1' or define your own values (by checking the checkbox in the 'own' column). Then choose the second table and generate data. Now you know in what range the ID's should be, so choose the option 'counting up from 1' again or set a range.

  **2.** A way to get a wider variety of values that depend on foreign key values in other tables is to import not too many rows at the same time, but a few rows several times. Because when the import sequence is started it only uses values that are already in the existing linked table. So when there are only 2 rows existing the import sequence only has 2 values to use for the foreign key values. When you first import 10 rows and then 10 rows again, there are 12 values available.

- **Enum** columns and **Set** columns get values automatically, to avoid errors while executing the generated query. If you want to give custom values you can set ALLOW_CUSTOM_ENUMS to true in config.php

**Feature requests**

- Support blob fields.

**Updates**

update1 (aug. 2013):

- fixed a few bugs with float, unique keys and special characters
- added 2 new output types: php array and JSON
- textual output now appear in dialog instead of in new browsertab

update2 (oct. 2013):

- added France for countryspecific data
- added lorem pixel, GPS as new custom options
- added 1 new output type: CSV
- added basic checks if ranges are correct (matching the chosen custom option) while typing

update3 (oct. 2013):

- fixed an error with unique keys and multicolumn primary keys
- improved the success rate of dbimport to almost 100%
- fixed a bug with lorem pixel
- you can set the pre-selected items of the datatypes-combo now in config.php

update4 (oct. 2013):

- multi-column foreign keys are now processed and handled as multi-columns
- expanded ranges and rangechecks

update5 (nov. 2013):

- improved output to PHP array, JSON and CSV
- added possibility to rollback (undo) the last db import
- added possibility to change tables selection when opening a saved file
- added possibility to set a preferred enumvalue
- added new constants in config.php

update 6 (nov 2013):

- Added possibility to link a column to another (of the same table or another table). The targetcolumn will get the same value as the sourcecolumn.

update 7 (dec 2013):

- Now colorcodes are randomly processed instead of using a predefined array with colorcodes.
- Now a foreign-key field is not visible in the ‘same_as’ combo when you want to select a value for the field that is actually the referenced field of that foreign-key.

**Terms of Use**

- By accessing or using this application, MySQL Datagenerator, you agree to be bound by these terms of use. MySQL Datagenerator is owned by Paul Wolbers. If you do not agree to be bound by all of these Terms of Use, do not access or use the application.
- The generated data is exclusively meant for testing purposes and cannot be distributed in any way.
- Combinations of firstnames and lastnames are randomly picked.
- Combinations of streets, zipcodes and cities are randomly picked so they don't exist in the real world. You cannot depend on them if your software also works with geocoding or GPS coordinates.
- IP-addresses, telephonenumbers and every other data are randomly picked.
- I cannot be held responsible for any misuse of generated data.
- I cannot be held responsible for any damage that might be caused by this application or the data generated with this application.
- You are not allowed to resell this application. You can change or add things for personal use only.

**MySQL Datagenerator is created by P.L. Wolbers, Netherlands (paul.wolbers@gmail.com)**