EXISECHO FUZZY LOGIC SOFTWARE

Exis,LLC

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Exis has been in software business since 2006. Exis, llc specializes in Microsoft Office software, fuzzy logic, and business intelligence. Our different websites are as follows:

www.fuzzy-logic.com

www.officefindreplace.com

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ExisEcho Software Overview

ExisEcho is a desktop software designed to find data duplications in a variety of data sources. This software exists because inherently computers are great at finding situations where 2 pieces of data are exactly the same. Consider two customer master records:

1. John Smith
2. John Smyth

A typical computer search algorithm will not be able to find the correct match because two values are the same.

Special software is needed to find inexact data duplications when 2 values are close but not exactly the same. The approach taken to find these duplications uses a computer science technique called "Fuzzy Logic"

Furthermore, when using fuzzy logic algorithms, special care must be taken to ensure that the results are returned back to the user in a reasonable amount of time, as these algorithms can take some time to retrieve the necessary results.

Algorithms:

ExisEcho uses a combination of fuzzy logic and phonetic algorithms to solve the problem of finding inexact data duplications.

Sensitivity:

ExisEcho allows the user to set a variable sensitivity level from 0-100. This is a percentage of how close 2 entries need to be to be considered the same. This is an extremely important setting which lets the

user zero in appropriately to find inexact matches and generally requires some trial and error. A value of 10 is recommended to start.

Synonyms:

ExisEcho has several different sophisticated settings to enable the user to quickly zero in on the duplicates. For example, software has the ability to correct for several different types of synonyms that may appear such as Robert = Bob, etc. A user can also provide their own synonym definitions.

Batch:

ExisEcho allows for batch processing. This feature can be set up on a scheduler and can run unattended at night (for example) when data sets are extremely large and it is inconvenient for the user to tie up their computer during the day.

Installation

Desktop ExisEcho software needs to be downloaded from

https://www.fuzzy-logic.com/Home/Downloads

The software is downloaded in a .zip (zipped) folder. Please extract the contents of the folder by right clicking on the ExisEcho.zip, Extract it's contents somewhere on your computer. In the downloaded folder please run setup.exe and follow the appropriate prompts.

The download folder also contains Postgres drivers (if necessary) as well as a sample Excel Spreadsheet with some fictitious sample data to try the software.
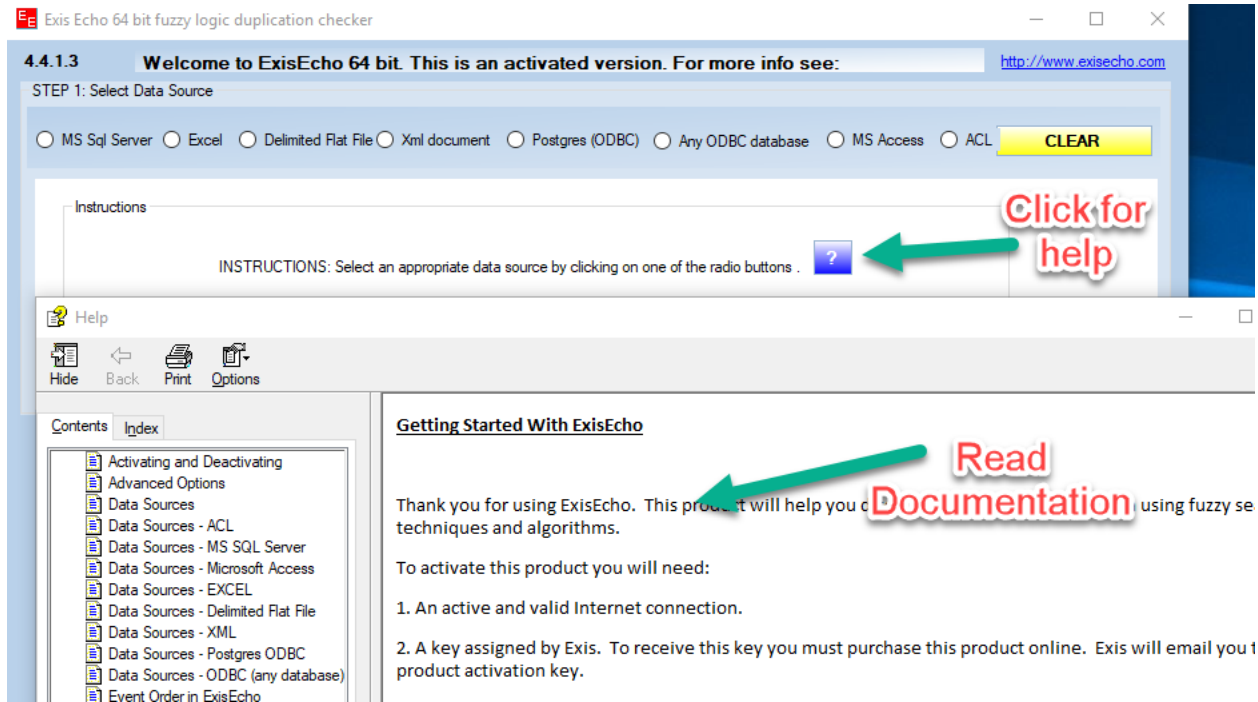
Support

No software in the world is useful without robust Support. To that end Exis makes it's highest priority the support for it's users. We respond to all customer support inquiries within a 2-4 hour window. Most support issues are resolved within 24 hours.

Support email: exisllc@gmail.com

Support phone: +1 423 714 7047

ExisEcho Fuzzy Logic software

Help

ExisEcho software has help built in. Customers can read about every functionality of the software within the software itself:

Technical Information:

ExisEcho runs on MS Windows XP, 7,8,10 and Windows Servers 2003 and up.

ExisEcho is written in .Net c# using MS framework 3.5 using ClickOnce technology to deliver updates.

Software is delivered in 2 formats: 32 bit and 64 bit.

The 32 bit version is provided for older operating systems (XP) and for compatibility with MS Access 32 bit databases. Generally speaking the user should select the 64 bit version to take advantage of being able to address more memory whenever possible.

ExisEcho uses multi threading processing to take advantage of all the horsepower that the computer has. The user can select the number of threads so as not to overburden the computer during the operation.   For maximum performance select the number of threads equal to the number of cores on the computer. If the computer has a 4 core CPU select between 4 and 8 threads for maximum performance.

Supported data sources are:

1. Access
2. Excel
3. MS Sql Server (on prem and cloud)
4. Postgres (on prem and gloud)
5. ODBC connections
6. ACL audit exchange files
7. XML
8. Delimited Flat Files

32 vs 64 bit decision matrix and list of data sources:

System	ExisEcho 32 bit	ExisEcho 64 bit
64 bit Win XP, 7, 8, 10, Server 2003+	Yes	Yes
32 bit Win XP, 7, 8, 10, Server 2003+	Yes	No
Excel 32 bit	Yes	Yes
Excel 64 bit	Yes	Yes
Access 32 bit	Yes	No
Access 64 bit	No	Yes
Postgres 64 bit	Yes	Yes
Postgres 32 bit	Yes	Yes
Sql Server	Yes	Yes
ODBC connections	Yes	Yes

Registering and Activating

Upon purchase an email sent to the purchaser with a 10 character activation code. The user must have an open internet connection to activate the software.

A single license can be used on only one computer at a time. However the user can deactivate the software on one machine and activate on another as many times as needed with no restriction.

API – Application Programming Interface

A cloud based set of APIs are available for integration with the customers own computer systems. Please see documentations downloadable from our website:

https://www.fuzzy-logic.com/Home/Downloads

Excel Store App (Excel 2013, 2016 +)

For most users who are looking to extract the most power out of the application Exis recommends using the desktop software. However, there is an Excel app available from the Excel App store. This app uses the same engine as the desktop version, and for lighter use cases can be used to extract duplicates directly with Excel. The free version allows up to 50 records to be processed. For higher record limits customers can purchase a key from our website to unlock the higher number of records:

https://www.fuzzy-logic.com/Home/Purchase

Please follow the screen shot below to download the app into Excel.