

# Stellar Repair for MS SQL

User Guide

## 1. General Information

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## 1.1. About Stellar Repair for MS SQL

Stellar Repair for MS SQL is designed to repair data from damaged or corrupt Microsoft SQL Server database (.MDF files).

Microsoft SQL Server database files (MDF) can get damaged or corrupted due to a number of reasons such as virus attack, unexpected system shutdown, media read error, and so on. Using strong algorithm, Stellar Repair for MS SQL does a complete repair of the corrupt MS SQL database and efficiently repairs almost every bit of information without deleting or modifying original data. Even heavily damaged database can be optimally repaired and restored with this software.

After repairing, **Stellar Repair for MS SQL** provides preview of database in a tree structure. User can view the components of selected database and can save desired components.

The software also shows details of ongoing process in a **Log Report** pane. These details can be saved as a text file.

### **Key Features**

- Shows preview of database before saving.
- Find option to search items of database while previewing.
- Option to save repaired database to SQL Server Authentication.
- Option to recover deleted records.
- Option to save repaired database to New or Live database.
- Option to save repaired database as MDF, CSV, HTML and XLS.
- Option to save the scan information to resume the repair process at a later stage.
- Supports Sequence Objects in MS SQL Server.
- Supports MS SQL Server ROW Compressed data.
- Supports MS SQL Server PAGE Compressed data.
- Supports Standard Compression Scheme for Unicode (SCSU) in SQL Server.
- Recovers Column Row GUID COL Property.
- Recovers Sp\_addextended Property.
- Saves non-recovered queries, views, stored procedures, etc. in a text file.
- Supports automatic recreation of a new database having all the recovered database items.
- Supports large SQL Server MDF files for all versions.
- Supports XML data types, XML indexes, SQL Server filestream data types, SQL Server sparse columns, SQL Server columns set property.
- Supports separate log report after scanning database.
- Supports Sorted tables in tree view and generates sorted log report.

- Supports fast scanning algorithms.
- Supports total row count detail in each table for all versions.
- Supports recovery of Tables, Triggers, Views, Collations, Recovery of Stored Procedure, Synonyms, Functions,
   Defaults and Default constraints, Primary Keys, Foreign Keys, Unique Keys, Identity, Indexes (Clustered, Non Clustered indexes), Check constraints, User Defined Data Types, Null / Not null, Predefined defaults, default values, and Rules.
- Compatible with MS SQL Server 2019, MS SQL Server 2017, MS SQL Server 2016, MS SQL Server 2014, MS SQL Server 2012 R2, 2012, MS SQL Server 2008 R2, 2008, 2008 (64 bit), 2008 Express, MS SQL Server 2005, 2005 (64 bit), 2005 Express, MS SQL Server 2000, 2000 (64 bit), 7.0 and mixed formats.
- Operating system: Ubuntu 16.04 (64-bit) / Ubuntu 18.04 (64-bit) / Ubuntu 19.10 (64-bit) / CentOS 7 (64 bit) / Red
   Hat Enterprise Linux 7 (64bit).

## 1.2. About the Guide

This user guide contains sequential steps to assist you through various **Stellar Repair for MS SQL** functions. Each function is explained in details, in the corresponding sections. The guide covers following major topics:

- 1. General Information
- 2. Getting Started
- 3. Working with the Software
- 4. Frequently Asked Questions (FAQ)

This guide has the following features for easy navigation and understanding:

There are Notes and Tips in some topics of this guide for better understanding and ease of work. These Notes
and Tips are given in *italics* style.

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## 1.3. Stellar Support

Our Technical Support professionals will give solutions for all your queries related to Stellar products.

You can either call us or go online to our support section at http://www.stellarinfo.com/support/

For price details and to place the order, click https://www.stellarinfo.com/database-recovery/sql-recovery-linux/buy-now.php

Chat Live with an **Online** technician at http://www.stellarinfo.com/

Search in our extensive Knowledge Base at http://www.stellarinfo.com/support/kb

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Send e-mail to Stellar Support at support@stellarinfo.com

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### 1.5. About Stellar

**stellar** is the world's foremost Data Care Corporation, with expertise in Data Recovery, Data Erasure, Mailbox Conversion, and File Repair software and services. Stellar has been in existence from past 25+ years and is a customercentric, critically acclaimed, global data recovery, data migration & erasure solutions provider with cost-effective solutions available for large corporate, SMEs & Home Users.

Stellar has a strong presence across USA, Europe & Asia.

#### **Product Line:**

Stellar provides a wide range of Do It Yourself (DIY) Software for Consumer as well as Software for Businesses:

#### **Data Recovery**

The widest range of data recovery software that helps you recover your valued data lost after accidental format, virus problems, software malfunction, file/directory deletion, or even sabotage!



Know More -->

#### File Repair

The most comprehensive range of file repair software for Windows, Mac and Linux. Recover your files, which have been infected by viruses, malwares or have been damaged by improper shutdown and other corruption-related issues.



Know More -->

#### **Data Erasure**

Best software for IT assets disposition. Secure and erase variety of storage media and files from PC/Laptop, Servers, Rack Drives or Mobile devices. Data once erased cannot be recovered by using any data recovery software or service.



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#### **Email Repair & Converter**

Robust applications to restore inaccessible mailboxes of MS Exchange, Outlook, AppleMail, Thunderbird, Eudora, Spicebird, Entourage, and Pocomail mailbox. Also, tools to convert mailboxes and database files from one format to another.



Know More -->

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Professional and reliable software to repair corrupt or damaged database for Microsoft SQL Server, QuickBooks®, Microsoft Access, SQLite and many more.



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Fully featured backup utilities that provides a comprehensive solution in case of any disaster. These software facilitates taking back up of all your mails, contacts, tasks, notes, calendar entries, journals etc. with full & incremental backup options.



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#### **Photo and Video Tools**

### **Utility Tools**

#### **Stellar Toolkits**

Professional tools to rebuild damaged or corrupt photos, videos, audios, and other multimedia files, from Window and Mac systems.
Recover files from hard drives, memory cards, iPods, USB flash drives, digital cameras, IBM Micro Drives and more.

ves, digital cameras, IBM Micro Drives and more.

Know More -->

A range of utility software such as SpeedUp Mac, Drive Clone and Partition Manager for Mac systems as well as Password Recovery for Windows and Password Recovery for Windows Server based systems



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Stellar also provides toolkits that are combination of Powerful Tools Designed for Data Recovery, File repair, Mailbox repair and File Conversion. All in one power packed toolkits to meet the need of every business.



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For more information about us, please visit www.stellarinfo.com.

### 2.1. Installation Procedure

Before beginning the installation procedure, make sure that the computer meets the minimum system requirements.

### **Minimum System Requirements:**

- Processor: Intel Pentium Class
- **Memory**: Minimum 2 GB (4 GB Recommended)
- Hard Disk: 250 MB of free space
- MS SQL Server: MS SQL Server 2019, MS SQL Server 2017, MS SQL Server 2016, MS SQL Server 2014, MS SQL Server 2012, MS SQL Server 2008 R2, 2008, 2008 (64 bit), 2008 Express, MS SQL Server 2005, 2005 (64 bit), 2005 Express, MS SQL Server 2000, 2000 (64 bit), 7.0 and mixed formats.
- Operating System: Ubuntu 16.04 (64-bit) / Ubuntu 18.04 (64-bit) / Ubuntu 19.10 (64-bit) / CentOS 7 (64-bit) /
   Red Hat Enterprise Linux 7 (64-bit)

#### To install the software, follow the steps given below:

- To install the software on Ubuntu 16.04 / 18.04 / 19.10:
  - 1. Open Terminal.
  - Enter the command as given below:

```
$ sudo apt install app name
```

Note: app\_name here is the absolute path of Stellar Repair for MS SQL package that you wish to install.

- To install the software on CentOS 7 / Red Hat Enterprise Linux 7:
  - 1. Open Terminal.
  - 2. Enter the command as given below:

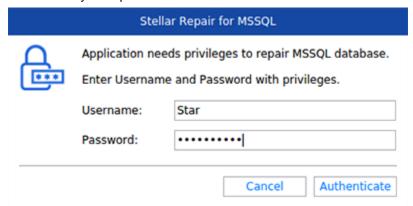
\$ sudo yum install app name

Note: app\_name here is the absolute path of Stellar Repair for MS SQL package that you wish to install.

## 2.2. Launching the Software

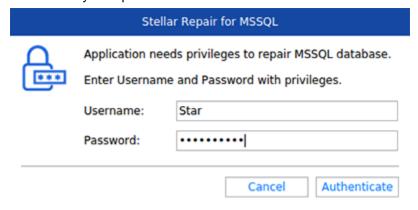
To launch Stellar Repair for MS SQL in Ubuntu 16.04 / 18.04 / 19.10:

- On your desktop, locate and click on the Activities to show the Activities overview.
- Locate the Stellar Repair for MS SQL application in the list of applications or search by typing Stellar Repair for MS SQL on the Application Launcher Search text-box on top of the screen.
- Select the Stellar Repair for MS SQL application to launch it.
- Enter the system password to authenticate.



#### To launch Stellar Repair for MS SQL in CentOS 7 / Red Hat Enterprise Linux 7:

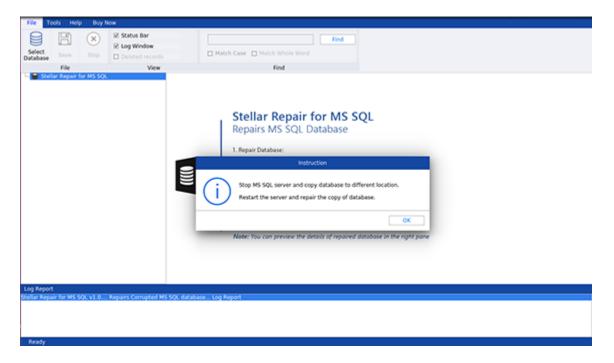
- Click on the **Activities** tab on the top left corner of your desktop.
- Select the Show Applications icon on the launcher.
- The **GNOME** applications menu will appear, displaying all the applications you have in your system in alphabetical order.
- Locate the Stellar Repair for MS SQL application in the list of applications or search by typing Stellar Repair for MS SQL on the Application Launcher Search text-box on top of the screen.
- Select the Stellar Repair for MS SQL application to launch it.
- Enter the system password to authenticate.



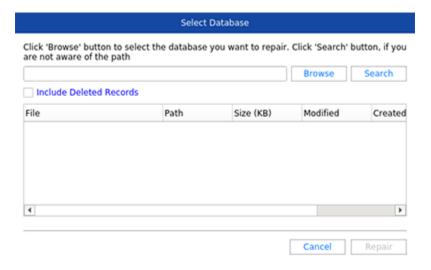
### 2.3. User Interface

Stellar Repair for MS SQL has a simple and user-friendly interface that lets you access its various feature with ease.

After launching the program, you will see the interface as shown below:



When you start Stellar Repair for MS SQL, the Select database dialog box opens as shown below:



The main user interface consists of Ribbons and Buttons.

### **2.3.1. Ribbons**

### File Ribbon

#### **Select Database**

Use this option to select the corrupt SQL database for repairing.

#### Save

Use this option to save the repaired SQL database.

#### Stop

Use this option to stop the repairing process.

#### View

Use this option to view or hide the **Status Bar** and **Log Window**.

#### **Deleted Records**

Select this check box to show or hide deleted records in the tree view (if found) during the repairing process.

#### Find

Use this option to find a particular item in the database file while previewing.

#### **Tools Ribbon**

#### Save Log

Use this option to save the log report.

#### Clear Log

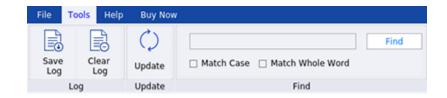
Use this option to clear the log report.

#### Update

Use this option to update the software.



File Ribbon



**Tools Ribbon** 

### **Help Ribbon**

#### **Help Topics**

Software is accompanied by a descriptive help document. Use this option to view the help manual for the software.

#### Support

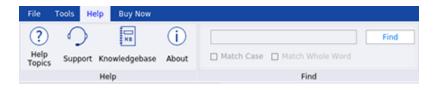
In case you don't find any related content in the help document or on the knowledgebase page that resolves your query, use this option view the support page of stellarinfo.com and contact the Stellar customer support.

#### **Knowledge Base**

Frequently asked questions and other common queries are available as knowledgebase for your reference and to help you use the software to get the best outcome. Use this option to visit Knowledge Base articles of stellarinfo.com

#### **About**

Use this option to read more information about the software.



**Help Ribbon** 

### **Buy Ribbon**

#### **Buy now**

Use this option to buy Stellar Repair for MS SQL.

#### **Activation**

You can repair corrupt or damaged Microsoft SQL Server database (MDF) files to recover as much data as possible using the trial version of the software. To save the recovered data, you need to purchase and activate it. Use this option to activate the software after the successful purchase.



**Buy Ribbon** 

## **2.3.2. Buttons**



Click this button to open Select SQL database dialog box.



Click this button to save the repaired SQL database.



Click this button to stop the repairing process.



Click this button to save the log report, which contains the details of the repairing process.



Click this button to clear the log report.



Click this button to activate the software after purchasing.



Click this button to update your software. Use this option to check for both, major and minor versions of the software.



Click this button to purchase the software.



Click this button to visit the Knowledge Base articles of stellarinfo.com



Click this button to open the help manual for Stellar Repair for MS SQL.



Click this button to read more information about the software.

## 2.4. Ordering the Software

Click https://www.stellarinfo.com/sql-recovery.php know more about **Stellar Repair for MS SQL**.

To purchase the software online, please visit https://www.stellarinfo.com/database-recovery/sql-recovery-linux/buy-now.php

Alternatively, click on Buy now icon in Buy online Ribbon on Menu Bar to purchase the software online.

Select either of the methods given above to purchase the software.

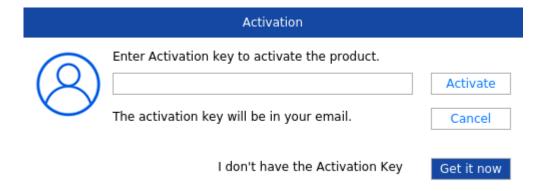
Once the order is confirmed, a key will be sent to you through e-mail, which would be required to activate the software.

## 2.5. Activating the Software

The demo version is just for evaluation purposes and must be eventually activated to use the full functionality of the software. The software can be activated using the Activation Key that you receive via email after purchasing the software.

#### To activate the software:

- 1. Run the demo version of **Stellar Repair for MS SQL** software.
- 2. On the main user interface, click the **Activation** button in **Buy Now** ribbon icon. The **Activation** dialog is displayed as shown below:



- 3. If you don't have the activation key, click the **Get it now** in the dialog to go online and purchase the product.
- Once the order is confirmed, an Activation Key will be sent to the email provided.
- 5. Type the Activation Key (received through email after purchasing the product) and click Activate.



- 6. If the key you entered is valid, the software will be activated successfully.
- 7. The 'Activation completed successfully' message is displayed after the process gets completed successfully. Click **OK**.

## 2.6. Updating the Software

There are periodical software updates for **Stellar Repair for MS SQL**. Using the update option, you can check for both the latest minor and major version available online. You can easily download the minor and major version through the update wizard. While updating the software, it's recommended to close all the running programs.

#### To start Stellar Repair for MS SQL Update Wizard:

- 1. Run Stellar Repair for MS SQL software.
- 2. Select **Update** from **Tools** ribbon.
- 3. Update window pops up.
- 4. The wizard will start searching for the latest updates and if it finds any new version, a window will pop up indicating the availability an update.
- 5. Click **Next** and the software will start downloading update files from the server. When the process is complete, the software will be updated to the latest version.

#### Live Update may not happen due to following reasons:

- Internet connection failure
- Unable to download configuration files
- Unable to locate updated files or version
- Unable to locate executable file

## 3. Working with the Software

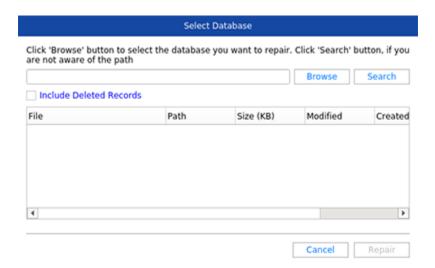
- 3.1. Select MS SQL database (MDF) File
- 3.2. Include Deleted Records
- 3.3. Repair MDF files
- 3.4. Save Scan Information
- 3.5. Preview and Save MDF Files
- 3.6. Find Specific Item In Tree
- 3.7. Save Log Report

## 3.1. Select MS SQL Database (MDF) File

#### To select MDF file:

Stellar Repair for MS SQL allows you to select MS SQL database (MDF) files from your computer for the repairing process.

- Open Select Database dialog box by choosing Select Database icon from File ribbon.
- In Select Database dialog box, click Browse.
- 3. **Open** dialog box will appear. Browse and select the desired file and then click **Open**.
- Select 'Include Deleted Records' check box to recover deleted records (if found) during the repairing process.



#### To find MDF File:

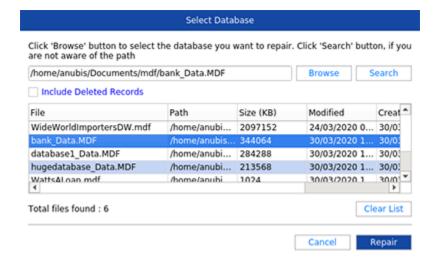
**Stellar Repair for MS SQL** also allows you to search for MS SQL database (MDF) files in your computer. Using **Search** option, you can search for MS SQL Database files in your computer's drives, folders and sub folders. However, you can only select one drive at a time to search for MS SQL Database files.

#### To find MDF files in drives:

- Open Select Database dialog box by choosing Select Database icon from File Ribbon
- From Search section, select the drive you want to search for MDF files. Click OK.
- After the search is finished, a list of MS SQL Database files found in the selected drive is shown.
- Select file you wish to repair from this list and click **Repair** button to start the repairing process.

## To find MS SQL Database files in folders and subfolders:

 Open Select Database dialog box by choosing Select Database icon from File Ribbon



- From Search section, select the folder or subfolder you want to search for MDF files. Click OK.
- 3. After the search is finished, a list of MS SQL Database files found in the selected drive is shown.
- 4. Select file you wish to repair from this list and click **Repair** button to start the repairing process.

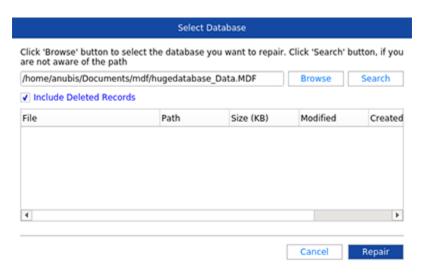
**Note:** Click **Clear List** button to clear the search result.

### 3.2. Include Deleted Records

Stellar Repair for MS SQL provides you an option to include deleted records in MS SQL database (MDF) repaired file.

To include deleted records, follow the steps given below:

- 1. Select the file by clicking on the **Select Database** icon from the **File Ribbon** or from the list of MS SQL Database files found, select the desired file to repair.
- 2. Select 'Include Deleted Records' check box to recover deleted records (if found) during the repairing process.



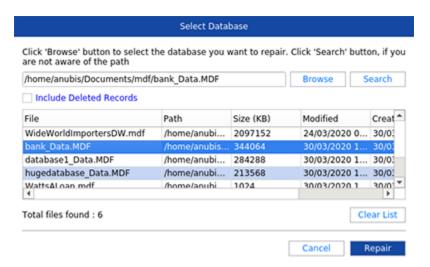
3. Click **Repair** to start the repairing process. Repairing of the selected files is performed by the tool.

## 3.3. Repair MDF Files

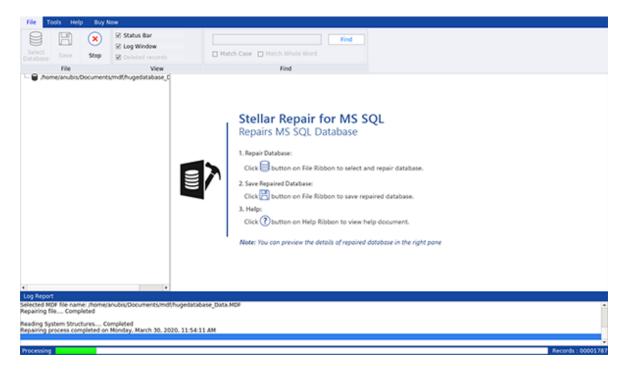
**Stellar Repair for MS SQL** repairs MS SQL Database (MDF) files and allows you to save to your preferred location. You can also preview the repaired database before saving it.

### To repair MS SQL Database files:

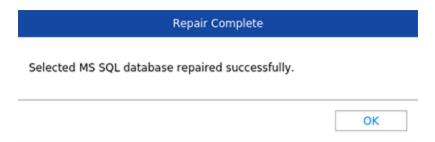
1. Select the file by clicking on the **Select Database** icon from the **File** ribbon or from the list of MS SQL Database files found, select the desired file to repair.



Click Repair to start the repairing process. Repairing of the selected files is performed by the tool.

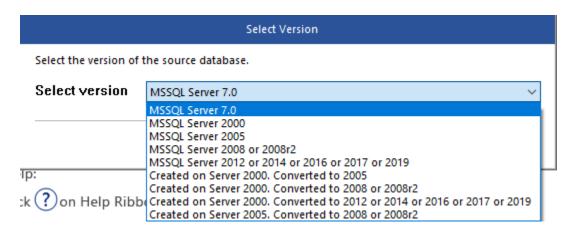


3. After the completion of repairing process, a message appears indicating the successful completion of the process.

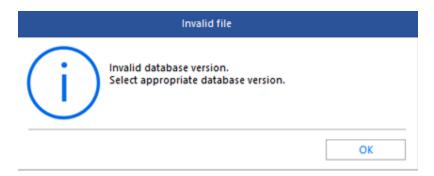


#### Note:

o If the selected database file is heavily corrupted and application is unable to detect the database file version, then you can select the database version manually from the dialog box as shown below:



o If in case you select invalid version of the database file, then a message prompts on the screen indicating the inappropriate version of file.



o To proceed to the repairing process, you need to select the appropriate version.

## 3.4. Save Scan Information

**Stellar Repair for MS SQL** saves a scan information of the MS SQL Database (MDF) File at the time of repairing. This saved scan information can be used later to repair corrupt database in case you wish to repair the database file again.

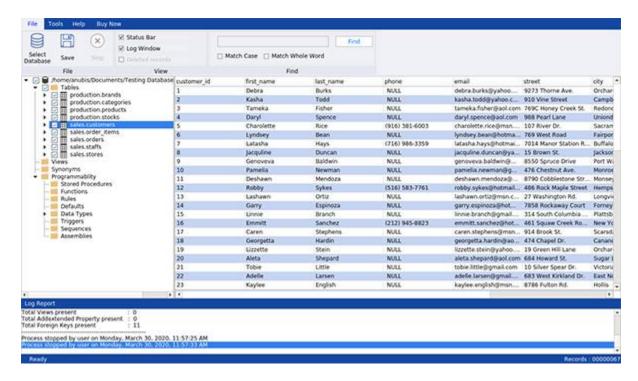
Using a scan information saves time, since scanning of each database file does not take place. All files and folders shown after scan process can be viewed as we load the saved scan information created for that particular scan. You can resume recovery by selecting the saved scan information without scanning the database again.

#### To Repair Database using scan information

- 1. You will be prompted to use the saved scan information for selected database.
- 2. Click **Yes** if you want to repair using the existing saved scan information.
- 3. Click No if you want to repair using selected database itself.

### 3.5. Preview and Save MDF Files

After you complete the repairing process successfully, **Stellar Repair for MS SQL** shows preview of corrupted database files. The left pane displays list of items (Tables, Views, Synonyms, Defaults, Data Types and more) in a tree like structure, upper right pane displays the contents of the item selected in the tree view and bottom pane shows message log. A sample screen is displayed below:



By default, all the check boxes of the tree view are selected. You can click on the item in the tree view to preview its content.

**Note:** The software performs a counting of records present in the database after repairing process is completed. The time taken in counting depends on the number of records present in the database. You can skip the counting of records to speed up repair process without affecting the repair results.

### To save the repaired file to MS SQL database:

- After the repairing process gets completed, click Save option from File ribbon.
- Specify whether you want to save the repaired database in MDF, CSV, HTML or XLS format by selecting the
  appropriate radio button.

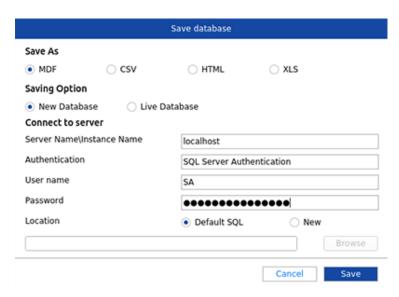
Saving repaired database as MDF

Saving repaired database as CSV, HTML or XLS

If you want to save your repaired database as an MDF, you can either save your database as a **New database** or you can insert the data to an existing **Live database**.

- To save the repaired database as a completely New database, follow the steps mentioned below:
  - Select New Database radio button.
  - Enter Server / Instance Name.

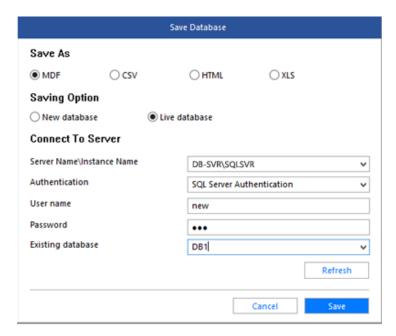
SQL Server Authentication method is selected by default. Enter the server user name and password.



- Select a destination for saving the repaired MDF file.
- Click Save button to save the repaired MS SQL Database file. A message is displayed after the process is completed successfully.



- To save the repaired database in an existing Live database, follow the steps mentioned below:
  - Select Live Database radio button.
  - o Enter Server / Instance Name.
  - o SQL Server Authentication method is selected by default. Enter the server user name and password.

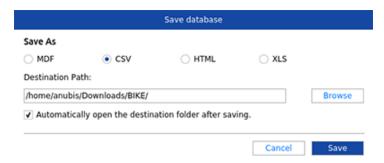


- From the Existing Database drop down button select the database into which you want to save the repaired file.
- Click Save button to save the repaired MS SQL Database file. A message is displayed after the process is completed successfully.



### To save the repaired file to CSV, HTML or XLS format:

- After the repairing process gets completed, go to File ribbon and select Save option.
- Save dialog box will open. Select the required format.



- Click **Browse** to go to the folder where you want to save the repaired file and click **Save** button.
- The file will be saved in the desired format.

Note: Perform repair process on the copy of database and make sure MS SQL Server is running during repair process.

## 3.6. Find Specific Item In Tree

**Stellar Repair for MS SQL** gives option to find particular items in tree view. After completion of repairing process, a search bar along with the preview window appears as shown below:

	Find
Match Case Match Whole Word	
Find	

To find a particular item, enter its name in the text box and click **Find** button. If that item is present in the database, it is highlighted in tree. Use back and forward button to traverse in the tree.

To narrow down the search result, you can select **Match case** or **Match whole word** check box.

## 3.7. Save Log Report

With **Stellar Repair for MS SQL**, you can save the Log Report to analyze the repairing process at a later stage. You can view log of the process at the bottom of the user interface. If this pane is not visible, you can enable it by selecting the **Log Window** checkbox in **View** section of **File Ribbon**.

### To save log report:

- From Tools Ribbon, select Save Log.
- In Save As dialog box, select the location where you want to save the log report. Click Save.

### To clear log report:

• From Tools Ribbon, select Clear Log.

### 4. FAQs

#### 1. What does the demo version of the software do?

Demo version of the software shows only repairs and displays the preview of the database. To save repaired database, you need to purchase and activate the software.

#### 2. Why do I require Stellar Repair for MS SQL?

Sometimes due to virus infection, operating system malfunction, file system corruption or other similar reasons, the SQL database gets corrupted and the data in it becomes inaccessible. **Stellar Repair for MS SQL** helps you rebuild the corrupt database and restore the data back.

The software is risk-free and repair inaccessible database components from the corrupt MDF file in three easy steps: Select, Repair and Save. See Working with the Software, to know about the steps.

#### 3. Why is it necessary to perform repair process on the copy of database?

Stellar Repair for MS SQL will not be able to repair if the database is attached to MS SQL Server.

#### 4. Can we repair tables in a MDF file selectively?

Yes, you can recover single or multiple tables. Simply select desired tables in tree view and start repair process.

#### 5. Software is not able to detect the Database version what should I do?

There is an option to choose the database version manually. When software fails to detect the version then, select the database version manually. See Repair MDF File for more information.

#### 6. How can Stellar Repair for MS SQL help me search for the location of MDF file in the computer?

You can search for MDF file in the computer using **Search** option of the software. For more details, please refer Select MS SQL database ( MDF ) File topic of the help manual.

#### 7. I want to locate an item in the database ( MDF ) file. Is there any way I can do this using the software?

Yes, after repairing the MDF file, the software gives you option to find items in tree view. Use Find option to locate desired item in a table.

#### 8. How to Recover Deleted Records using Stellar Repair for MS SQL?

**Stellar Repair for MS SQL** provides you an option to include deleted records in MS SQL database (MDF) repaired file. See **Include Deleted Records** for more details.

#### 9. How Can I Save The Repaired SQL Database In 4 Different Formats?

**Stellar Repair for MS SQL** software allows you to save the repaired SQL database file in four different formats — MDF, CSV, XLS, and HTML.

To save the repaired SQL database file in any one of the four file formats, click **Save** from **File** ribbon. A **Save Database** dialog box appears giving you the option to save in either MDF, CSV, HTML, or XLS formats. Fill in the details and click **Save**.

#### 10. How can we view process log?

You can view log of the process at the bottom of the user interface. If this pane is not visible, you can enable it by selecting the **Log Window** checkbox in **View** section of **File** ribbon.

#### 11. Can we save process log?

Yes, Stellar Repair for MS SQL gives you option to save log report of the process.

To save log report:

- From **Tools** ribbon, select **Save Log**.
- In Save As dialog box, select the location where you want to save the log report. Click Save.

#### 12. Can I recover database created on a Windows based system?

Yes. You can recover your corrupt/damaged MS SQL database even if it has been created on a Windows based system.

#### 13. How much time Stellar Repair for MS SQL will take to scan and repair corrupt/damaged database?

The time taken in scanning and recovering database is totally dependent upon the size of database file.

#### 14. Is MS SQL application is required to be installed on the system for previewing database?

No, MS SQL application is not required to be installed for previewing the database.

#### 15. How to fix connection error when trying to save the SQL database in New or Live Database?

When you are trying to save MS SQL Database in Live or New Database you might face a "**Connection Error**". This can be due to the following reasons:

- Stellar Repair for MS SQL software and the server where the database is deployed are installed **on two different machines**. If **Stellar Repair for MS SQL** is installed on Machine X and you are trying to save the Database by using the **New Database option** on a server; then the server should also be connected to Machine X. In case, this SQL server is installed on Machine Y then there is no connection, and the database cannot be saved and you will face the Connection Error.
- Similarly, when Stellar Repair for MS SQL software and the server where the database is to be saved are
  installed on two different Networks, the Network connection is not established, and hence SQL Database is not
  saved in Live or New Database.

Check for the following:

- 1. The corrupt MDF file, SQL server and the software should be on the **same network**.
- 2. The corrupt MDF file, SQL server and the software should be on the **same machine**.