Stellar Log Analyzer for MySQL

User Guide 2.0

1. General Information

1.1. About Stellar Log Analyzer for MySQL

Stellar Log Analyzer for MySQL allows you to analyze the forensic details for various log files of MySQL server database in a simplified way. The MySQL logs such as Redo Log, General Query Log and Binary Log can be analyzed using this tool.

With **Stellar Log Analyzer for MySQL** you will be able to preview details of transactions such as transaction type, time, transaction Name, table name, query etc that were inserted, deleted or updated in the MySQL server database. The software is a complete package for search and analysis of general query log files, redo files and binary files. Also, you can preview the query detail corresponding to any transaction. Using this software you can save the log data into CSV, HTML and XLS format.

Key Features:

- Analyzes the forensic details of Redo Log, Binary Log and General log of MySQL Log files.

- Shows preview of complete details related to the transactions and their respective data before saving.

- Allows to save log tables data to MySQL server and CSV, HTML and XLS format.

- Allows to save log transactions in CSV, HTML and XLS format.

- Allows to select transaction type (Insert, Delete or Update) while saving log tables data and log transactions.

- Option to filter the log tables data and log transactions as per required date range while saving.

- Allows searching of object name in tree view.

- Support for automatic recreation of a new database having all the recovered database items.

- Support for Sorted tables in tree view and generates sorted log report.

- Support for saving separate log report after scanning database.

- Supports native JSON type and functions for working with JSON values according to the latest version of MySQL.

- Support for total row count detail in each table for all versions of MySQL.

- Compatible with Windows 10, Windows 8.1, Windows 8, Windows 7, Windows Server 2016, Windows Server 2012, and Windows Server 2008.

- Supports MySQL 5.0 and above.

1.2. About the Guide

This user guide contains steps to assist you through various functions of **Stellar Log Analyzer for MySQL**. Each function is explained in detail, 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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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/mysql-log-analyzer/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

Submit enquiry at http://www.stellarinfo.com/support/enquiry.php

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

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Utility Tools

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

Stellar Toolkits

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.

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

2. Getting Started

2.1. Installation Procedure

Before installing the software, ensure that your system meets the minimum system requirements.

Minimum System Requirements

- **Processor**: Intel-compatible (x86, x64)

- **Operating System**: Windows 10, Windows 8.1, Windows 8, Windows 7, Windows Server 2016, Windows Server 2012, Windows Server 2008

- **Memory**: 8 GB (recommended) 4 GB (minimum)

- **Hard Disk**: 250 MB for installation files

- **MySQL**: MySQL 5.0 and above

To install the software:

1. Double-click **StellarLogAnalyzerforMySQL.exe** setup installer to start the installation. **Setup - Stellar Log Analyzer for MySQL** window appears.

2. Click **Next**. **License Agreement** dialog box appears.

3. Choose **I accept the agreement** option. **Next** button will be enabled. Click **Next**. **Select Destination Location** dialog box appears.

4. Click **Browse** to select the destination path where the setup files are stored. Click **Next**. **Select Start Menu Folder** dialog box appears.

5. Click **Browse** to provide a path for the program's shortcuts. Click **Next**. **Select Additional Tasks** dialog box appears.

6. Select checkboxes as per your choice. Click **Next**. **Ready to Install** dialog box appears.

7. Review your selections. Click **Back** if you want to change them. Click **Install** to start the installation. The **Installing** window shows the installation process.

8. On completion of the installation process, **Completing the Stellar Log Analyzer for MySQL Setup Wizard** window appears. Click **Finish**.

*Note: Clear **Launch Stellar Log Analyzer for MySQL** check box to prevent the software from launching automatically.*

2.2. User Interface

Stellar Log Analyzer for MySQL has a simple and easy to use Graphical User Interface (GUI). After launching the software, the main user interface appears as shown below:
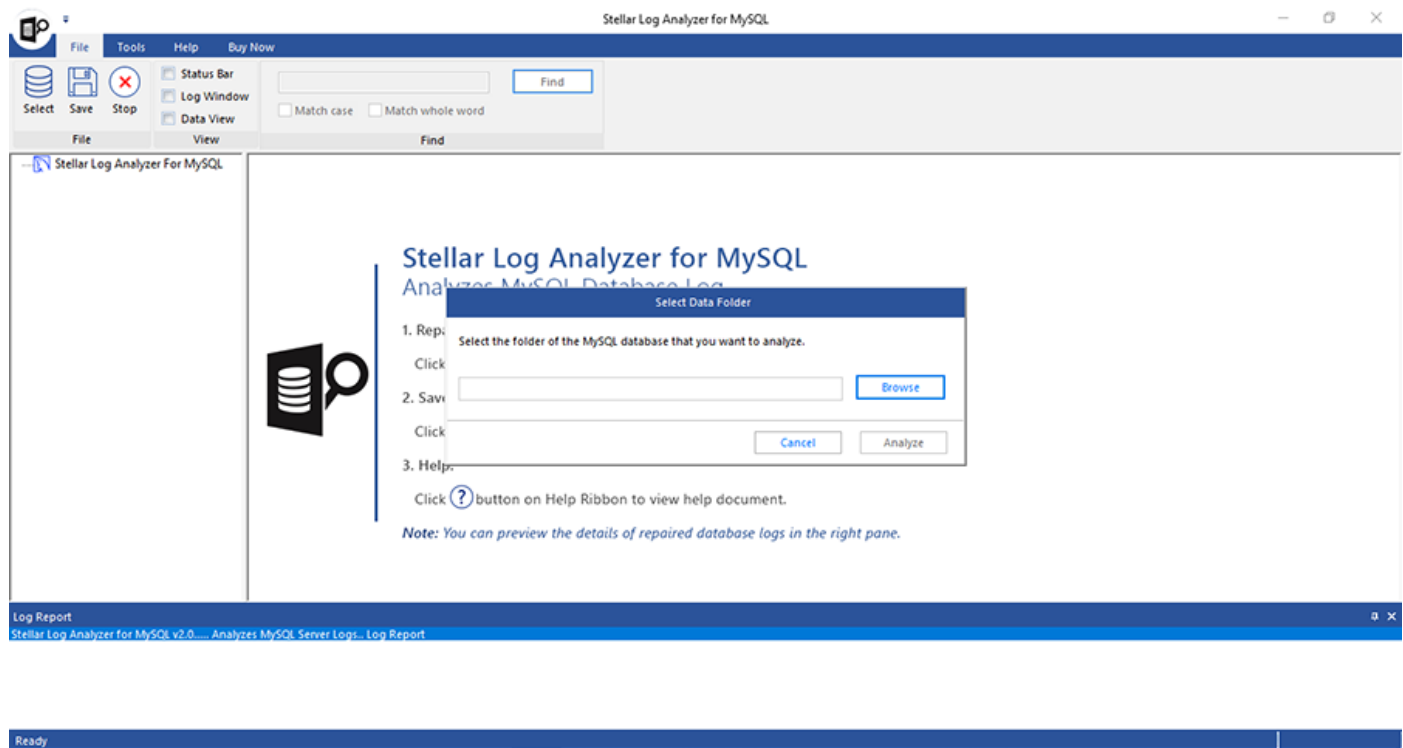
The user interface contains Ribbons and Buttons that allow you access various features of the software with ease.

2.2.1. Ribbons and Buttons

1. File Ribbon
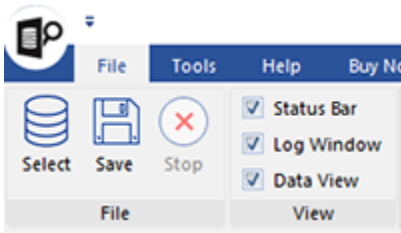
The **File** ribbon contains the following buttons:

- **Select:** Use this option to select the MySQL Database for analysis.

- **Save:** Use this option to save the MySQL Database Log Data and Log Transaction after analysis.

- **Stop:** Use this option to stop the analysis process.

- **View:** Use this option to view or hide the **Status Bar, Log Window** and **Data View**

2. Tools Ribbon
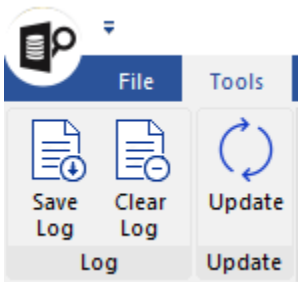
The **Tools** ribbon contains the following buttons:

- **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.

3. Help Ribbon
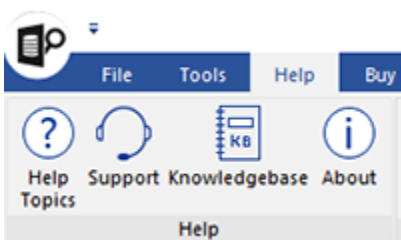
The **Help** ribbon contains the following buttons:

- **Help Topics:** Use this option to open the help manual of the software.

- **Support:** Use this option to visit the support page of stellarinfo.com

- **Knowledgebase:** Use this option to visit the Knowledgebase articles of stellarinfo.com

- **About:** Use this option to read information about the software.

4. Buy Now Ribbon
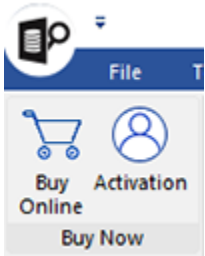
The **Buy Now** ribbon contains the following buttons:

- **Buy Online:** Use this option to buy **Stellar Log Analyzer for MySQL**.

- **Activation:** Use this option to **activate** the software.

2.3. Ordering the Software

To know more about **Stellar Log Analyzer for MySQL**, visit https://www.stellarinfo.com/mysql-log-analyzer.php.

To purchase the software online, visit https://www.stellarinfo.com/database-recovery/mysql-log-analyzer/buy-now.php

Alternatively, click on **Buy Online** icon in **Buy Now** ribbon on the **Ribbon Bar** to purchase the software online.

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

Once the order is confirmed, you receive an activation key through e-mail. You require this key to activate the software.
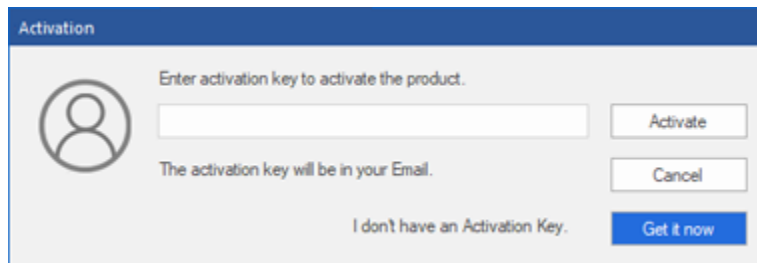
2.4. Activating the Software

After the log transactions and transaction data is previewed you need to activate your copy to save the data. An 'Activation Key' is required to activate your copy of the software and save data. You will receive an activation key through email after purchasing the software.

Note: Make sure that you have an active Internet connection.

Steps to activate the software:

1. Run **Stellar Log Analyzer for MySQL**.

2. Click the **Activation** button on the **Buy Now** ribbon. A window, as displayed below, pops up on the screen.
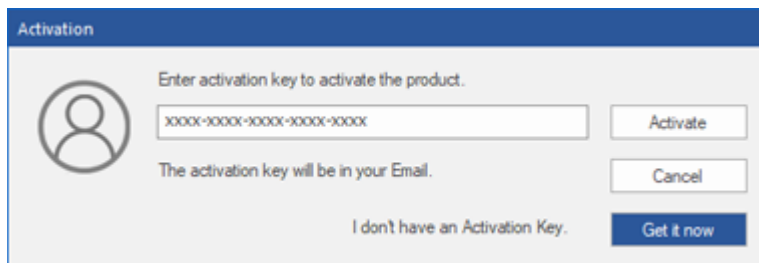
   Note:

   - *If you don't have the activation key, click **Get it now** button in the window to go online and purchase the product.*

   - *Once the order is confirmed, an Activation Key is provided.*

3. Enter the **Activation Key** and click **Activate** button.

4. The software is activated after successful verification of the activation key you have entered.

5. *'Activation Completed Successfully'* message is displayed after the process is completed successfully. Click **OK** to use all the options of the software that have been unlocked after the activation.

2.5. Updating the Software

Stellar releases updates for **Stellar Log Analyzer for MySQL**. You can update the software to keep it up-to-date. These updates can add new functionality, feature, service, or any other information that can improve the working of the software. The update option of the software is capable of checking for the latest updates. This will check for both latest, minor and major versions available online. While updating the software, it is recommended to close all the running programs.

Automatic Update:

1. Run **Stellar Log Analyzer for MySQL.**

2. If an update is available, **Update Wizard** window appears along with the main user interface.

3. Click **Next** to start downloading the update files from the server. After the completion of the process, the software is updated to the latest version.

4. Click **Finish** to close the **Update Wizard**.

Manual Update:

1. Run **Stellar Log Analyzer for MySQL**.

2. Select **Update** from **Tools** ribbon. **Update Wizard** window pops up.

3. The wizard will start searching for the latest updates:

    i.   If the new version is found a window will pop up indicating the availability of an update.

    ii.   If no update is available then it indicates that the software is up-to-date.

4. If the update is available, click **Next** and the software will start downloading and installing update files from the server.

5. When the process is completed, the software is updated to the latest version. Click **Finish**.

*Note: To disable automatic update when you launch the **Stellar Log Analyzer for MySQL** uncheck the checkbox '**Check updates at startup'**.*

Live Update may not happen due to following reasons:

- Internet connection failure.

- Updates are not available.

- 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 and Scan MySQL Database

3.2. Preview Database Log Files

3.3. Save Log File Data

3.4. Find Specific Item in Tree

3.5. Save Log Report

3.1. Select and Scan MySQL Database

Stellar Log Analyzer for MySQL allows you to select the MySQL Database folder from your computer to analyze all transactions (insert, delete & update) completed by the server.

To select MySQL Database, follow the steps given below:

1. Run **Stellar Log Analyzer for MySQL**.

2. **Select Data Folder** dialog box is displayed upon launching the software. Alternatively, you can click **Select** from the **File** ribbon to open **Select Data Folder** dialog box.

3. From **Select Data Folder** dialog box, Click **Browse. Browse for Folder** dialog box will appear.
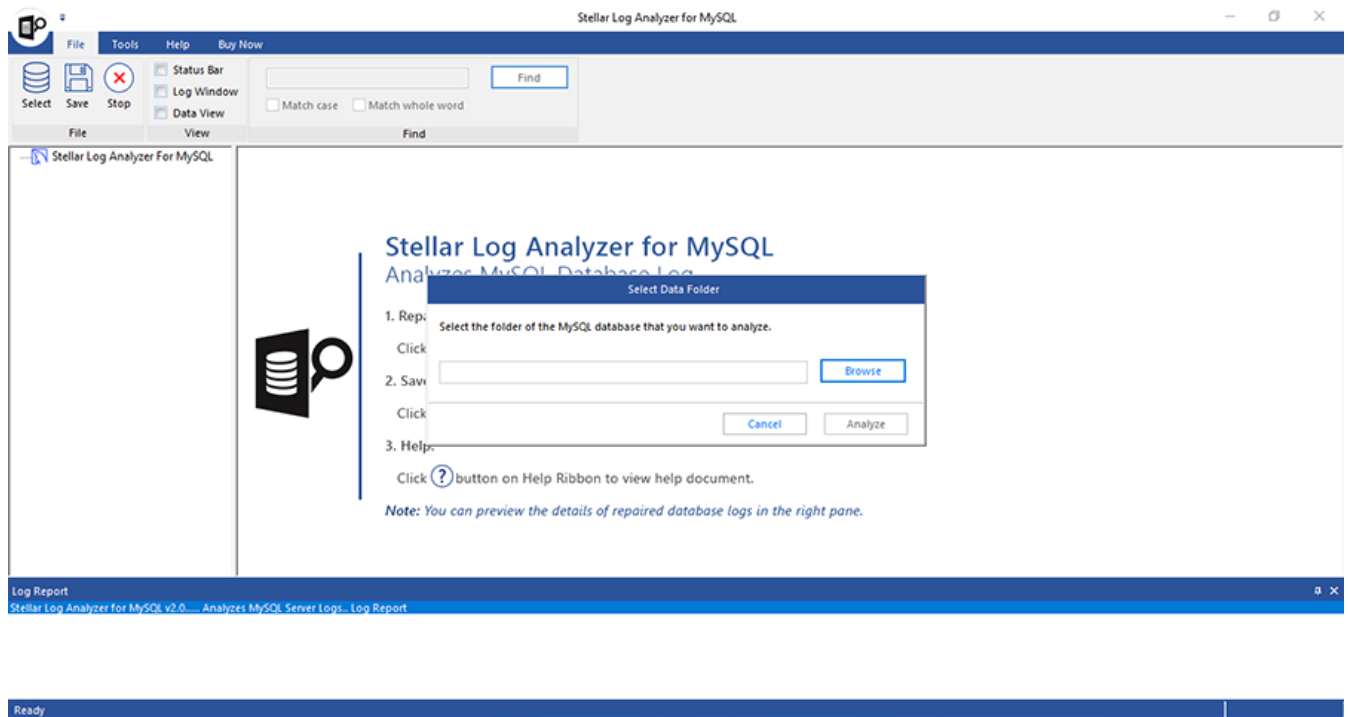
4. Browse and select the desired folder of MySQL server database and click **OK**.

5. After the selection of the MySQL Database. Click **Analyze** to continue.
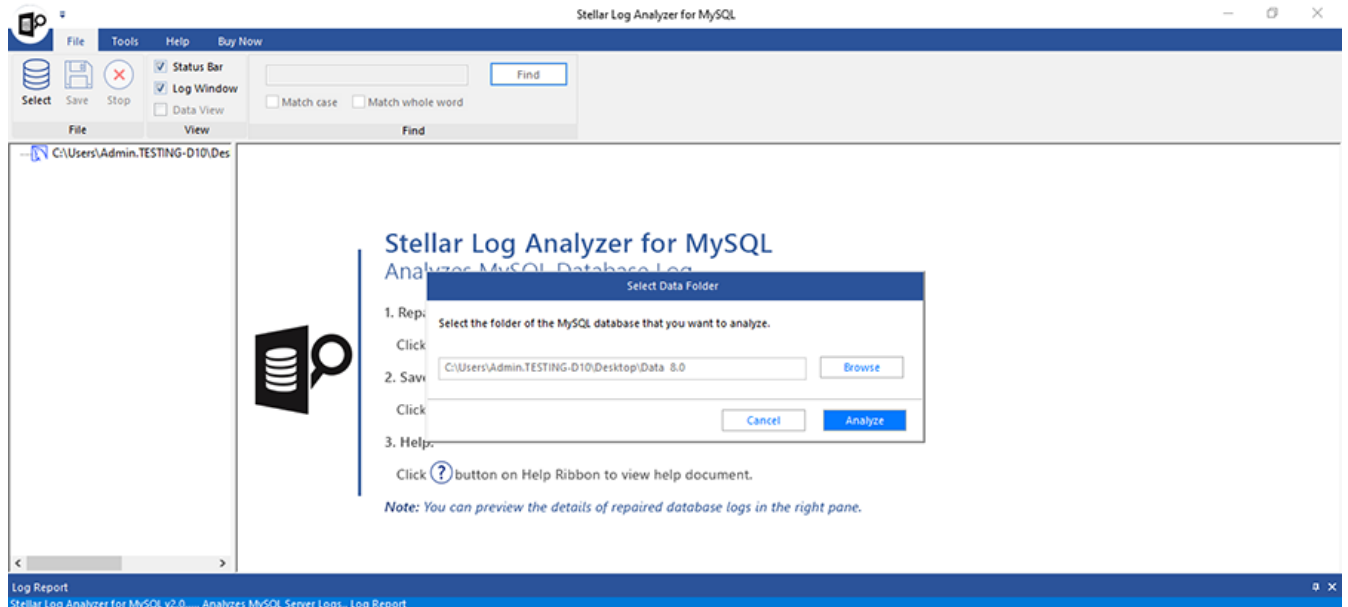
6. After the analysis is finished, a **Log Detail** dialog box opens with the number of MySQL Log files (**Redo Logs**, **Binary Logs** and **General Logs**) found as shown below:

7. Select the type of logs under **Select to Analyze** section that you want to scan.

8. If the software does not find the **General Log** file or **Binary Log** file in the selected folder, you can browse and select them manually using the steps as follows:

   a. In the **Select Log File** section, click **Select** against the desired log

   b. Browse and select the **General** or **Binary Log** file

   c. Click **Open.**

9. Click **Start** button to begin the scanning/analyzing process.

Note*: If you wish to stop the scanning process at any time, click **Stop** in **File** ribbon.*
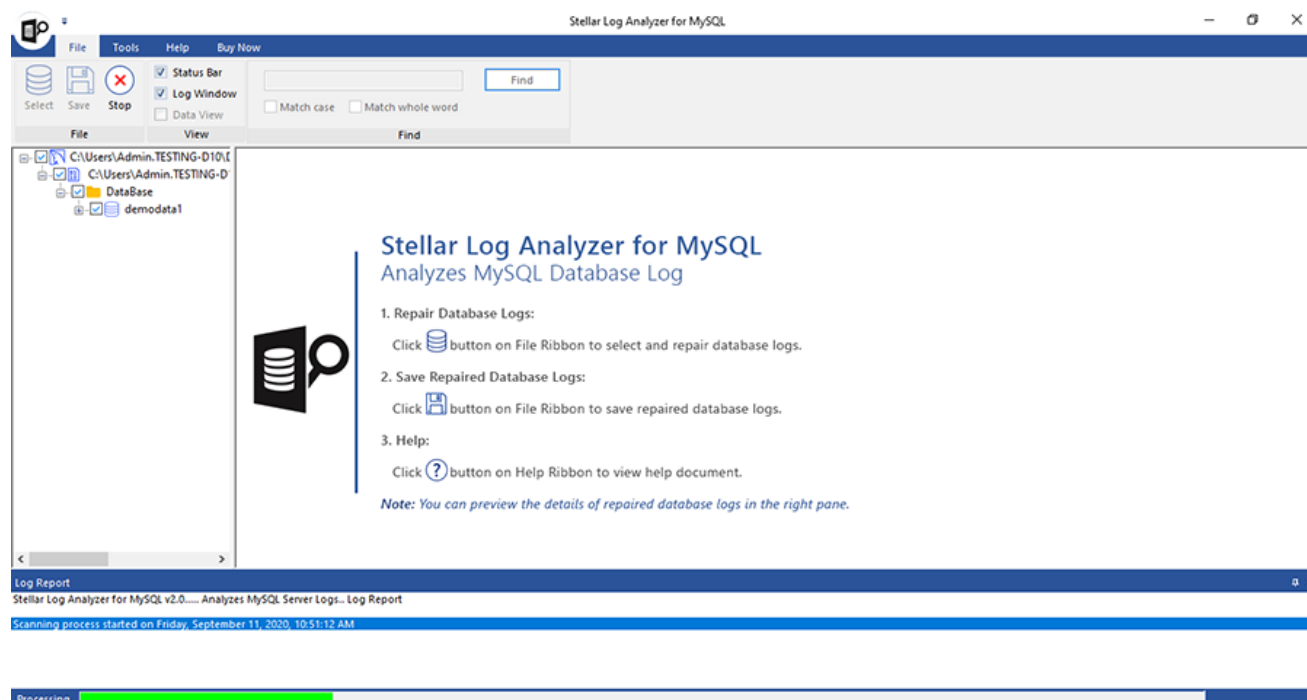
10. After the scanning is completed, you can preview the database log file and it's data.

Note*: If ib_logfile for corresponding database is not available in the same folder, then **Stellar Log Analyzer for MySQL** opens a dialog box prompting you to provide path of ib_logfile.*

3.2. Preview Database Log Files

After scanning, **Stellar Log Analyzer for MySQL** lists all selected databases and tables of log files in a tree view on left frame of software window.

You can view content of tables by selecting the particular table in the tree view. The left pane displays list of Databases and tables in log file in a tree like structure, upper right pane displays content of selected items and bottom pane displays log report and data view as shown in the figure given below:
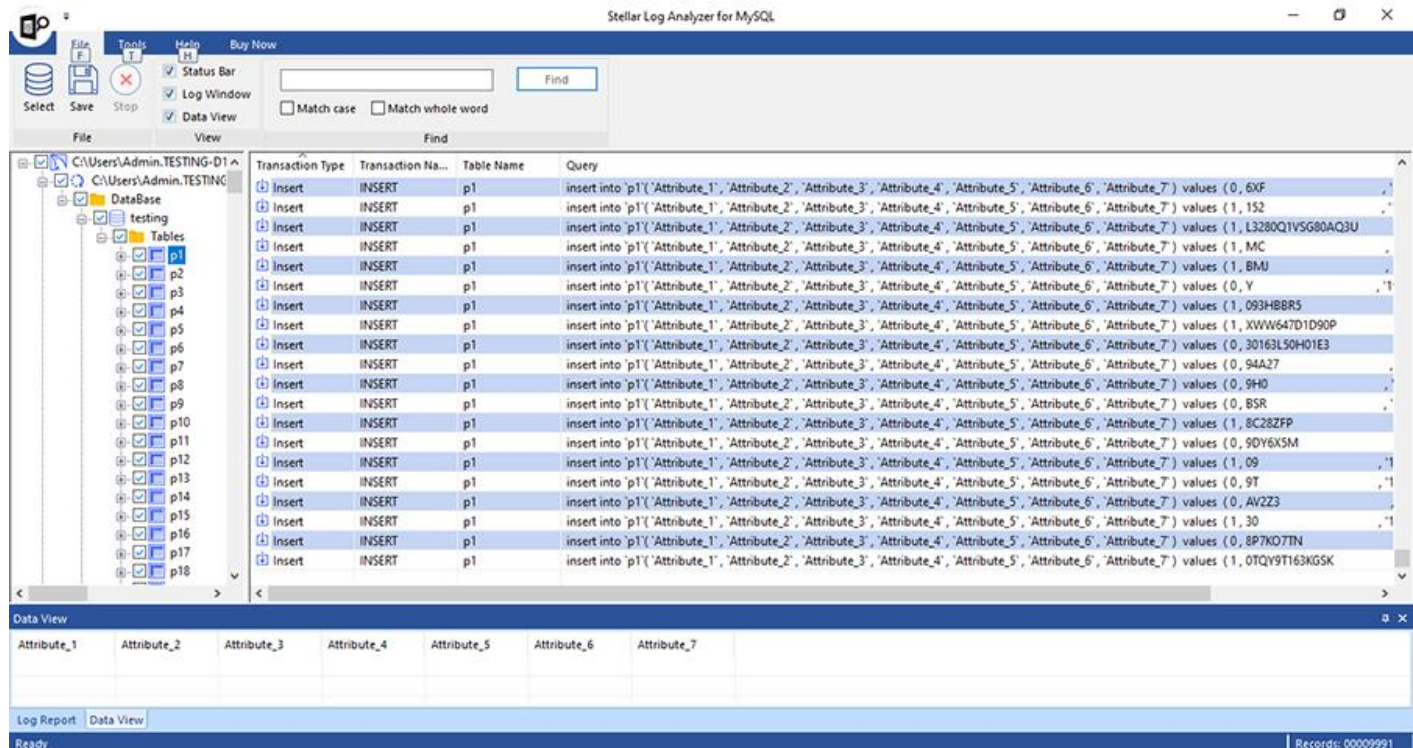
With **Stellar Log Analyzer for MySQL** you can view complete transactions and log details of any MySQL Log file. The details can be sorted according to the transaction type, transaction name, table name and query of the transactions. With this software you can also view the query details and records of any particular transaction.

To preview a Database Log file:

1. After selecting and scanning the MySQL database, the tables of the selected log file will be displayed in the left pane. Select the desired table to view its corresponding log transactions. The transactions of the selected table are displayed in the right pane as shown in the figure above.

2. The log transactions can be sorted according to **Transaction Type, Transaction Name, Table Name** and **Query** by clicking on the respective column.

   Note: If you want to search a particular item in the tree, see Find Specific Item in Tree.

3. To view the transaction details, double click on a particular transaction. A **Query Detail** dialog is displayed with the transaction details such as **Transaction Type, Transaction Name, Transaction Time, Transaction Table** and **Query.**
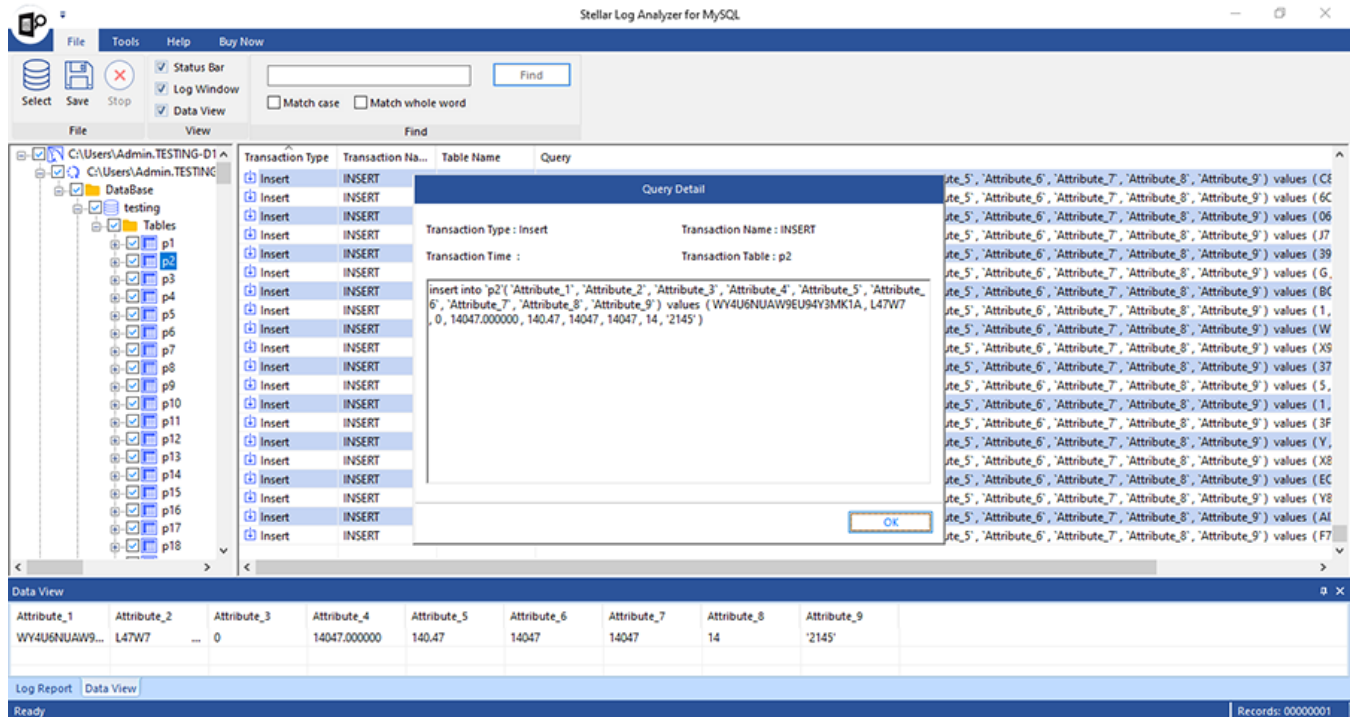
4. The records of any transaction can be viewed by clicking on that transaction. The **Data View** pane shows the records of the selected transaction.

3.3. Save Log File Data

With **Stellar Log Analyzer for MySQL** you can save your log file data as **Log Record** and **Log Transactions** after the analysis process is completed.

To save log file data:

1. After previewing the log file data, select the table that you want to save and click on **Save** button from the **File** ribbon. **Save** dialog box appears as shown below:
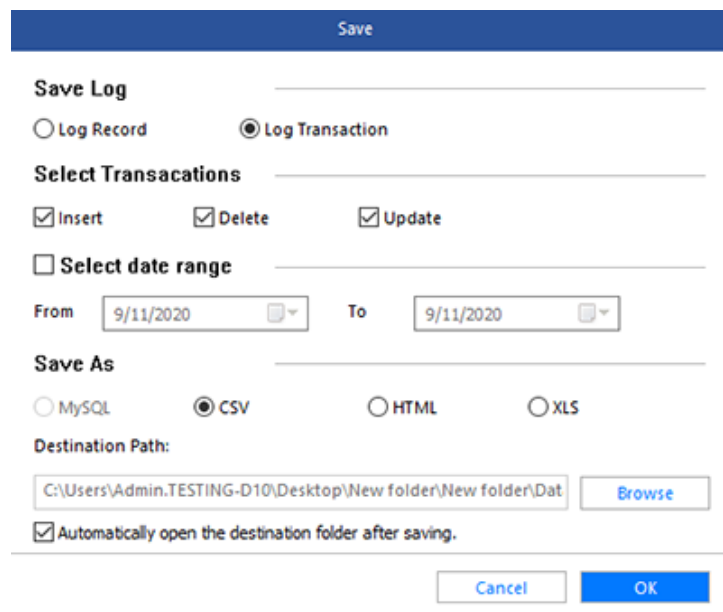
2. From the **Save Log** section, select either **Log Record** or **Log Transaction** as per your requirement.

    *Note: The **Log Record** can be saved to a **MySQL** database or in **CSV, HTML** and **XLS** format. However, the **Log Transactions** can be only saved in **CSV, HTML** and **XLS** format.*

3. Select the types of transaction **(Insert, Update or Delete)** you want to save in the database by selecting their respective checkbox.

4. You can apply date filters to save the results from a particular time period by selecting **Select date range** checkbox. From the **Select date range** section, select the **From** and **To** dates using the drop-down calenders. Only the data between selected dates will be saved.

    Note: Date range filter cannot be applied for ***Redo Log File***.

5. From the **Save As** section, select either the following:

    •   Select **MySQL** option and enter **User Name**, **Host Name\Server IP** and **Password** for MySQL database.

        Note: *Log Transactions doesn't support saving the log in MySQL database.*

        Note: *Selected database or component is saved in a newly created folder at the location where MySQL is installed. This folder is named after the name of Log File (redo/general/binary) and recovered database prefixed with the word recovered. For example, if name of the database is **Student** selected from **Redo Log File** then name of the folder will be **redo_recovered_student**.*

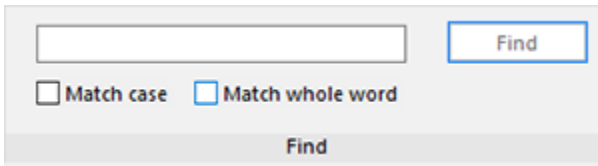   •   Select the desired format (CSV, HTML or XLS) and click **Browse** to select the path where you want to save the log data.

Note: Select **Automatically open the destination folder after saving** checkbox to open the folder containing the log data after completion of saving process.

6. Click **OK**. **Save Complete** dialog box appears after successful completion of the saving process.

7. Click **OK** to continue.

3.4. Find Specific Item In Tree

Stellar Log Analyzer for MySQL gives option to find particular items in tree view. After completion of analysis process, a search bar along with the preview window appears as shown below:

To find a particular item, enter its name in Find Item 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.

3.5. Save Log Report

With **Stellar Log Analyzer for MySQL**, you can save the Log Report for further analysis 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. Frequently Asked Questions (FAQ)

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

Demo version of the software only shows the preview of Log Record and Log Transaction. To save analyzed file, you need to purchase and activate the software.

2. Can we save Log Tables Data in a MySQL server selectively?

Yes, you can save selective Log Tables Data. Simply select desired tables in tree view and start saving process. To know more, see Save Log File Data.

3. Can we save Log Record and Log Transaction Data in different formats?

Yes, the **Log Record** can be saved to a **MySQL** database or in **CSV, HTML** and **XLS** format. However, the **Log Transactions** can be only saved in **CSV, HTML** and **XLS** format.

4. Can we save the Log Record and Log Transaction Data between a particular Date Range?

Yes, you can apply date filters to save the results from a particular time period by selecting **Select date range** checkbox in the **Save** dialog box and specifying the **From** and **To** dates. Date range filter cannot be applied for **Redo Log File**. To know more, see Save Log File Data.

5. How to make connection to MySQL. Do I need any drivers to make connection?

You can connect to MySQL by installing the drivers associated with it from the application setup.

6. How to enable Binary and General Log file from a database?

- Check file: "C:\ProgramData\MySQL\MySQL Server 5.6\my.ini"
- Open my.ini file,
- From the # General and Slow logging section, set the value of General-log from 0 to 1.
- From the # Binary Logging section, remove # in front of log-bin and provide a name to binary log. Example log-bin=my-bin
- Save the file.
- Restart the MySQL service and the system after the changes. This will enable the Binary and General Logs.

7. How to select Binary and General Log file from a database manually if the application does not find it?

If the software does not find the **General Log** file or **Binary Log** file in the selected folder, you can browse and select them manually using the steps as follows:

   a. In the **Select Log File** section of **Log Detail** dialog box, click **Select** against the desired log

   b. Browse and select the **General** or **Binary Log** file

   c. Click **Open.**

See Select and Scan MySQL Database to know the complete steps.

8. How to access saved databases in MySQL?

To access the database tables, follow the steps given below:

   • Run Command Prompt.

   • Specify the query in the syntax mentioned below for accessing the saved databases.

   MySQL>   use Log-Type_recovered_Database-Name;

   For Example: If your log file is "Redo" and your Database name is "Student", you must write the query like this

   MySQL>   use redo_recovered_Student;

9. How can we view transaction data?

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

10. Can we save process log?

Yes, **Stellar Log Analyzer for MySQL** 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.**

To know more, see Save Log Report.