Data Editor dbEdit Search and Filter Operations

Test plan

Version 2.0

4/18/2020

Document Control

Approval

The Guidance Team and the customer shall approve this document.

Document Change Control

|  |  |
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| Initial Release: | 1.0 |
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Distribution List

This following list of people shall receive a copy of this document every time a new version of this document becomes available:

Producer: Juan Gaucin

Reviewers: Bianca Alvarez, Valeria Macias

Dr. Roach

Change Summary

The following table details changes made between versions of this document

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Modifier | Description |
| 1.0 | 4/11/2020 | Juan Gaucin | Initial suites and test cases |
| 2.0 | 4/19/2020 | Juan Gaucin | Completed missing sections, addressed reviewer comments. |
| 3.0 | 4/22/20 | Juan Gaucin | Resolved additional comments by review team. |

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# Introduction

The dbEdit software is a system that allows editing of data stored in XML tables. The test plan will cover the “Search” and “Filter: operations. For the approach, we will be utilizing the black box technique, use case testing.

## Purpose

The purpose of this test plan is to ensure the correct functionality of the “Search” and “Filter” operations withing the dbEdit system. This document will outline the testing procedures for the functions previously mentioned and is only focused on those functions.

## Scope

The test plan will cover the latest release provided by the producer of the software, Dr. Roach. The latest versions was provided on April 5, 2020.

## System Overview

The system is an editor that allows for editing of XML tables. It provides the functionality to filter the tables displayed by the system either with an “AND” filter option that is enabled by default displays only results that contain all the criteria to filter by. It also provides the option for an “OR” filter which allows for a filter that displays results containing at least one of the criteria provided by the user for filtering. The two filter options can’t be used simultaneously.

The search option allows the user to search the tables, with or without case sensitivity as well as for full or partial matches of the search criteria. The search functionality also allows for replacement. Replacement can be done to affect one or all of the search results. The functionality listed above will be the only portion of the system functionality that will be exercised by this test plan.

## Suspension and Exit Criteria

The criteria for both suspension and exit of the test plan is based upon three criticality ranges, (Low, Medium, High). The definition of each is outlined in Table 1 of this section. The exit criteria for testing requires that all high criticality test be passed along with 90% of the medium criticality tests and 50% of the low criticality test.

Testing should be suspended if any highly critical test case fails, or if the standards for exit for medium and low criticality test are not met upon passing all highly critical tests.

Table 1: Criticality Definitions

|  |  |
| --- | --- |
| **Criticality** | **Definition** |
| **High** | **The function is required for system to operate correctly.** |
| **Medium** | **The function is not required for operation but may hinder usability.** |
| **Low** | **The function is not required for operation and will not adversely affect operation.** |

## Document Overview

The remainder of the document will provide the overview of the test suites to be completed. It also contains each test case required by the test plan and a detailed description of how to execute the test as well as the expected results of the test.

## References

[1] Roach, S., 2020. *Spec.docx*.

# Test Items and Features

The items that will be tested will be listed in Table 2. Items not listed are not within the scope of this test plan.

Table 2: Features to be tested.

|  |
| --- |
| **Feature** |
| **AND Filter** |
| **OR Filter** |
| **Search** |

# Testing Approach

The approach for the test of the system is divided into two test suites show in Table 3. The test suites are designed to exercise the filter and search functionality of the dbEdit system. The first suite is designed to test the filer functionality and consists of two test cases for the modes of the filter function “AND” and “OR”. The second test suite will cover the search functionality. The search functionality has many different options that all will be exercised within the test within the test suite.

Table 3: Test Plan

|  |  |  |
| --- | --- | --- |
| **TEST SUITE <Filter Function>** | | |
| **Description of Test Suite** | **The following test suite aims at testing the functionality of the filter functionality of the system.** | |
| **Test Case Identifier** | **Objective** | **Criticality** |
| AND\_V | **Test the “AND” filter option with valid input** | **Low** |
| OR\_V | **Test the “OR” filter option with valid input** | **Low** |

|  |  |  |
| --- | --- | --- |
| **TEST SUITE <Search Function>** | | |
| **Description of Test Suite** | **The following test suite aims at testing the functionality of the filter functionality of the system.** | |
| **Test Case Identifier** | **Objective** | **Criticality** |
| SE\_NO | **Test the search functionality with no option selected** | **High** |
| SE\_WW | **Test the search functionality with whole words option selected only.** | **High** |
| SE\_MC | **Test the search functionality with matching case option selected only.** | **High** |
| SE\_CO | **Test the search functionality with the column only option selected only.** | **High** |
| SE\_AL | **Test the search functionality with the whole words, matching case, and this column only options selected.** | **High** |
| SE\_RE | **Test the search and replace functionality** | **High** |
| SE\_RA | **Test the search and replace functionality** | **High** |

# Test Filter and Search Functions.

The test cases will be working with a provided file named “TEST\_DB.XML” to be use for all test cases. All test cases will begin with a new instance of the system. Each test case will include the expected results that will determine the test status. Once a test case has been passed, the test case will be updated to a “Passing” status and be properly documented with any remarks from the tester, along with the date the test was completed.

## Test AND\_V

**Objective:** Test the functionality of the filter option with the “AND” option selected.

**Notes:** The “AND” filter function filters the table to display only those rows meeting all the criteria entered.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: AND\_V | | | | Current Status: Pending | | |
| Test title: Test “AND” filter with valid input. | | | | | | |
| Testing approach: The test will be making use of an existing database that will be included. By default, the “AND” filter is selected so there is no action to be taken before conducting the test. The test will be conducted from the beginning by opening a new instance of the system. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB.xml” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. |  |
| 5 | In the blank cell underneath the column labeled “INDEX”  Enter the following text “Start”. Press the “ENTER” key. | This will begin filtering the data. | | | Only 8 rows containing the word “Start” on the index column will be displayed.  See Figure 1 in appendix. |  |
| 6 | In the blank cell underneath the column labeled “RESTRICTION\_TYPE”  Enter the following text “Correct”. Press the “ENTER” key. | This will exercise the “AND” option by filtering by two fields. | | | Only 1 row should be displayed that contains “Start” in the index column and “correct” in the restriction type column.  This demonstrates a successful test. | Failure to display only one row indicates an error and test should fail. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

## Test OR\_V

**Objective:** Test the functionality of the filter option with the “OR” option selected.

**Notes:** The “OR” filter function will allow the system to display rows meeting any of the criteria entered.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: OR\_V | | | | Current Status: Pending | | |
| Test title: Test “OR” filter with valid input. | | | | | | |
| Testing approach: The test will be making use of an existing data base that will be included. The “OR” option will need to be selected during the test. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB.xml” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. |  |
| 5 | From the tool bar select “File” then from the menu select the radio button labeled “OR filter” | This step will enable the “OR” filter functionality | | | The window will remain the same after selecting the or option. |  |
| 6 | In the blank cell underneath the column labeled “INDEX”  Enter the following text “Start”. Press the “ENTER” key. | This will begin filtering the data. | | | Only 8 rows containing the word “Start” on the index column will be displayed. There are two rows that contain the numbers “55” and “57” in the index column that will no longer be visible.  See Figure 1 in appendix. |  |
| 7 | In the blank cell underneath the column labeled “RESTRICTION\_TYPE”  Enter the following text “Restricted”. Press the “ENTER” key. | This will exercise the “OR” option by filtering by two fields. | | | The two rows containing “55” and “57” in the index column will be visible again along with the previously visible rows.  See Figure 2 in appendix. | Failure to display the two rows indicated will show a failure on the filter function. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

## Test SE\_NO

**Objective:** Test the search functionality with no option enabled.

**Notes:** The test will ensure that the search functionality works without any option enabled.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: SE\_NO | | | | Current Status: Pending | | |
| Test title: Test the search functionality when the “match whole words” option is enabled. | | | | | | |
| Testing approach: The test will be making use of an existing data base that will be included. The “match whole words” option is enabled by default therefore there is no action required to activate it. Test will be conducted with a new instance of the system. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. |  |
| 5 | From the tool bar select “Edit” then from the menu select the “Search” option. | This step will open the search window for the testing to be conducted. | | | A new window will open that contains the search options. |  |
| 6 | Click on the checkmark next the “Match Whole Words” label. | This will make sure no option is selected. | | | The Search box will have no options selected.  See Figure 3 in appendix |  |
| 7 | In the text field labeled “Search:” enter “start” as text.  Click the button labeled “Find” | This will indicate to the system what word is being searched for. | | | The text field at the bottom of the window should display “Found at (X, X)”.  (X, X) will contain a number coordinate. An example is shown in figure 4 in the appendix. The number may vary.  See figure 4 in appendix. | Any other result will indicate a failure. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

## Test SE\_WW

**Objective:** Test the search functionality with matching whole words

**Notes:** The test will make use of an existing database that will be included for testing,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: SE\_WW | | | | Current Status: Pending | | |
| Test title: Test the search functionality when the “match whole words” option is enabled. | | | | | | |
| Testing approach: The test will be making use of an existing data base that will be included. The “match whole words” option is enabled by default therefore there is no action required to activate it. Test will be conducted with a new instance of the system. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. |  |
| 5 | From the tool bar select “Edit” then from the menu select the “Search” option. | This step will open the search window for the testing to be conducted. | | | A new window will open that contains the search options. |  |
| 6 | In the text field labeled “Search:” enter “Start\_Name” as text.  Click on the button labeled “Find” | This will indicate to the system what word is being searched for. | | | The text field at the bottom of the window should display “Found at (X, X)”.  (X, X) will contain a number coordinate. An example is shown in figure 5 in the appendix. The number may vary.  See figure 5 in appendix. | Failure to display the expected test will result in a test failure.  Repeating this step will move to the next result if there is one. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

## Test SE\_MC

**Objective:** Test the search functionality with case sensitivity

**Notes:** The test will make use of an existing database that will be included for testing,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: SE\_MC | | | | Current Status: Pending | | |
| Test title: Test the search functionality when the “match case” option is enabled only. | | | | | | |
| Testing approach: The test will be making use of an existing data base that will be included. The “match whole words” option is enabled by default therefore it will be deactivated in the test case. Test will be conducted with a new instance of the system. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. |  |
| 5 | From the tool bar select “Edit” then from the menu select the “Search” option. | This step will open the search window for the testing to be conducted. | | | A new window will open that contains the search options. |  |
| 6 | Click on the checkmark next the “Match Whole Words” label. | This will make sure no option is selected. | | | The Search box will have no options selected.  See Figure 3 in appendix |  |
| 7 | Click on the box next the “Match case” label. | This will make sure the match case option is selected. | | | The match case option will be selected.  See Figure 6 in appendix |  |
| 8 | In the text field labeled “Search:” enter “Start\_Name” as text.  Click on the button labeled “Find”  \*THIS TEST IS CASE SENSITIVE\* | This will indicate to the system what word is being searched for and signal the system to search for any instances of the word | | | The text field at the bottom of the window should display “Found at (X, X)”.  (X, X) will contain a number coordinate. An example is shown in figure 7 in the appendix. The number may vary.  See Figure 7 in appendix | Any other display would indicate a test failure. |
| 9 | In the text field labeled “Search:” delete the contents and enter “Start\_name” as text.  \*THIS TEST IS CASE SENSITIVE\* | This will modify the text to be searched to a lower-case letter that was previously upper case | | | The text field at the bottom of the window should display “Search wrapped”  See Figure 8 in appendix. | Any other display would indicate a test failure. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

## Test SE\_CO

**Objective:** Test the search functionality with the column only option enabled only.

**Notes:** The test will make use of an existing database that will be included for testing,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: SE\_CO | | | | Current Status: Pending | | |
| Test title: Test the search functionality when the “match case” option is enabled only. | | | | | | |
| Testing approach: The test will be making use of an existing data base that will be included. The “match whole words” option is enabled by default therefore it will be deactivated in the test case. Test will be conducted with a new instance of the system. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. |  |
| 5 | Click on the first cell with the text “UNINHIBITED” in the “RESTRICTION\_TYPE” column. | This step indicates to the system the column that the search will be performed on. | | | The selected cell will have a blue border. |  |
| 5 | From the tool bar select “Edit” then from the menu select the “Search” option. | This step will open the search window for the testing to be conducted. | | | A new window will open that contains the search options. |  |
| 6 | Click on the checkmark next the “Match Whole Words” label. | This will make sure no option is selected. | | | The Search box will have no options selected.  See Figure 3 in appendix |  |
| 7 | Click on the box next the “This Column Only” label. | This will make sure the “this column only is selected” is selected. | | | The column only option will be selected.  See Figure 9 in appendix |  |
| 8 | In the text field labeled “Search:” enter “DISABLE” as text.  Click on the button labeled “Find” | This will indicate to the system what word is being searched for and signal the system to search for any instances of the word in the working column only. | | | The text field at the bottom of the window should display “Found at (6,2)” as shown in figure 10 in appendix  The result will be highlighted in a turquoise color as shown in figure 11 in appendix  See Figure 10 and 11 in appendix | Any other display would indicate a test failure. |
| 9 | Repeat step 8. | This will search for a second instance of the word. | | | The text field at the bottom of the window should display “Search wrapped”.  In the table there are other instances of the word “DISABLE” however they are in different columns and because this step is searching a specific column only it did not find those extra instances of the word. | Any other display would indicate a test failure.  The working column only has 1 instance of the searched word. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

## Test SE\_AL

**Objective:** Test the search functionality with all the options enabled.

**Notes:** The test will make use of an existing database that will be included for testing. The test aims at demonstrating that there are no conflicts if multiple options are enabled at the same time.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: SE\_AL | | | | Current Status: Pending | | |
| Test title: Test the search functionality when the all the options are enabled. | | | | | | |
| Testing approach: The test will be making use of an existing data base that will be included. The “match whole words” option is enabled by default therefore there is no step to enable it. Test will be conducted with a new instance of the system. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. |  |
| 5 | Click on the first cell with the text “UNINHIBITED” in the “RESTRICTION\_TYPE” column. | This step indicates to the system the column that the search will be performed on. | | | The selected cell will have a blue border. |  |
| 5 | From the tool bar select “Edit” then from the menu select the “Search” option. | This step will open the search window for the testing to be conducted. | | | A new window will open that contains the search options. |  |
| 6 | Click on the box next the “Match case” label. | This will make sure the “match case” option is enabled. | | | A checkmark will appear in the box next to the option labeled “match case”. |  |
| 7 | Click on the box next the “This Column Only” label. | This will make sure the “this column only” is selected. | | | All three options will now be selected as show in figure 16.  See Figure 16 in appendix |  |
| 8 | In the text field labeled “Search:” enter “DISABLE” as text.  Click on the button labeled “Find” | This will indicate to the system what word is being searched for and signal the system to search for any instances of the word in the working column only. | | | The text field at the bottom of the window should display “Found at (6,2)” as shown in figure 17 in appendix  The result will be highlighted in a turquoise color as shown in figure 11 in appendix  See Figure 1 and 17 in appendix | Any other display would indicate a test failure. |
| 9 | Repeat step 8. | This will search for a second instance of the word. | | | The text field at the bottom of the window should display “Search wrapped”.  In the table there are other instances of the word “DISABLE” however they are in different columns and because this step is searching a specific column only it did not find those extra instances of the word. | Any other display would indicate a test failure.  The working column only has 1 instance of the searched word. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

## Test SE\_RE

**Objective:** Test the search and replace functionality

**Notes:** The test will make use of an existing database that will be included for testing,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: SE\_RE | | | | Current Status: Pending | | |
| Test title: Test the search and replace functionality of the system. | | | | | | |
| Testing approach: The test will be making use of an existing data base that will be included. The match whole words option is enabled by default on this test. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. |  |
| 5 | From the tool bar select “Edit” then from the menu select the “Search” option. | This step will open the search window for the testing to be conducted. | | | A new window will open that contains the search options. |  |
| 6 | In the text field labeled “Search:” enter “Start\_Name” as text.  Click on the button labeled “Find” | This will indicate to the system what word is being searched for. | | | The text field at the bottom of the window should display “Found at (X, X)”.  (X, X) will contain a number coordinate. An example is shown in figure 12 in the appendix. The number may vary.  See Figure 12 in appendix |  |
| 8 | In the text field labeled “Replace:” enter “Test\_Change” as text.  Click on the button labeled “Replace” | This will indicate the system what the instance of the found text should be replaced with. | | | On the window containing the database only one of the cells the “INDEX” column should display “Test\_Change” as shown in figure 13 in appendix.  The cell that changed may vary.  See Figure 13 in appendix | Failure to see the change described will result in a test failure. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

## Test SE\_RA

**Objective:** Test the search and replace all functionality

**Notes:** The test will make use of an existing database that will be included for testing,

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test No.: SE\_RA | | | | Current Status: Pending | | |
| Test title: Test the search and replace functionality of the system. | | | | | | |
| Testing approach: The test will be making use of an existing data base that will be included. The test will have the match whole words option enabled by default. No action is necessary to modify this. | | | | | | |
| STEP  1 | OPERATOR ACTION  Open dbEdit System. | PURPOSE  Open the system for use. | | | EXEPCTED RESULTS  System will open displaying a blank window labeled Table Name and the tool bar with File and Search options. | COMMENTS |
| 2 | From the tool bar select “File” then from the menu select the option “Open” | This will allow the user to select the data file. | | | This step should open a file browser window from which you will find a list of files. |  |
| 3 | Select the file named “TEST\_DB” from the file browser and press the open button. | This step will load the data file into the editor. | | | The previously blank window should now display three tables labeled “BIG\_TABLE”,  “CONSTRAINT\_TABLE”,  and “TYPE\_TABLE” |  |
| 4 | Double click on the table labeled “CONSTRAINT\_TABLE” | The step will open the table in which the filter function is to be tested on. | | | A separate window will display with data from the table. The first of the row will be blank. | Failure to see the change described will result in a test failure. |
| 5 | From the tool bar select “Edit” then from the menu select the “Search” option. | This step will open the search window for the testing to be conducted. | | | A new window will open that contains the search options. |  |
| 6 | In the text field labeled “Search:” enter “Start\_Name” as text.  Click on the button labeled “Find” | This will indicate to the system what word is being searched for. | | | The text field at the bottom of the window should display “Found at (X, X)”.  (X, X) will contain a number coordinate. An example is shown in figure 12 in the appendix. The number may vary.  See Figure 12 in appendix |  |
| 8 | In the text field labeled “Replace:” enter “Test\_Change” as text.  Click on the button labeled “ReplaceAll” | This will indicate the system what the instance of the found text should be replaced with. | | | The text field at the bottom of the window should display “Replaced 8 occurrences.” As shown in figure 14 in appendix.  On the window containing the database, 8 cells under the “INDEX” column should display “Test\_Change”. As shown in figure 15 in appendix  See Figure 14 and 15 in appendix | Failure to see the change described will result in a test failure. |
| Concluding Remarks: | | | | | | |
| Testing Team: | | | Date Completed: | | | |

# Appendix

The following appendix contain figures corresponding to test cases that will aid the tester in having a visual reference for the expected results in key areas.

## Figure 1

![A screenshot of a cell phone

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## Figure 2

![A screenshot of a cell phone

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## Figure 3

![A screenshot of a cell phone

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## Figure 4

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## Figure 5

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## Figure 6

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## Figure 7

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## Figure 8

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## Figure 9

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## Figure 10

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## Figure 11

![A screenshot of a cell phone

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## Figure 12

![A screenshot of a cell phone

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## Figure 13

![A screenshot of a cell phone

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## Figure 14

![A screenshot of a cell phone

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## Figure 15

![A screenshot of a cell phone

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## Figure 16

![A screenshot of a cell phone

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## Figure 17

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