



**ProData DBU RDi for IBM i**  
User Manual

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# 1. Welcome

Thank you for choosing DBU RDi for IBM i! This manual is intended to guide you through the installation, set-up, and use of DBU RDi. While we do our best to provide a comprehensive and up-to-date resource in this guide, you may encounter a situation that requires additional assistance. If so, please don't hesitate to contact ProData Customer Support - we're happy to help.

## ProData Customer Support

Online: <http://www.dodbu.com/support.shtml>  
Toll Free: 800.228.6318  
Fax: 402.697.7576

## 2. Quick-Start Guide

### What is DBU RDi?

DBU RDi is a database utility accessible from within IBM Rational Developer for i (RDi) using the ProData DBU RDi plugin.

### Install the Client

This installation guide assumes that you have RDi installed on your computer, and that DBU RDi Server is already installed and running on a network-accessible computer. If this is not the case (or if you are unsure) please contact your internal tech support team, visit <http://www.dodbu.com/dbu-rdi>, or call ProData Customer Service for assistance.

### Download

1. Go to <http://www.dodbu.com/dbu-rdi>
2. Scroll down to the DBU RDi Client section
3. Click the Download link next to "ProData DBU RDi for IBM i Client"
4. Save the file to a location of your choice

### Installation

1. Double-click the previously saved file (DBURDi-Client.exe)
2. Follow the prompts to complete the installation process
  - Be sure to enter the correct DBU RDi Server IP address to prevent future connection errors.

Once installation is complete you're ready to launch! Move on to the **Launch the App** section to learn more.

## Launch the App

To launch DBU RDi, right-click on a file in Remote System Explorer and click the **Open with DBU** option (*Figure 1*).

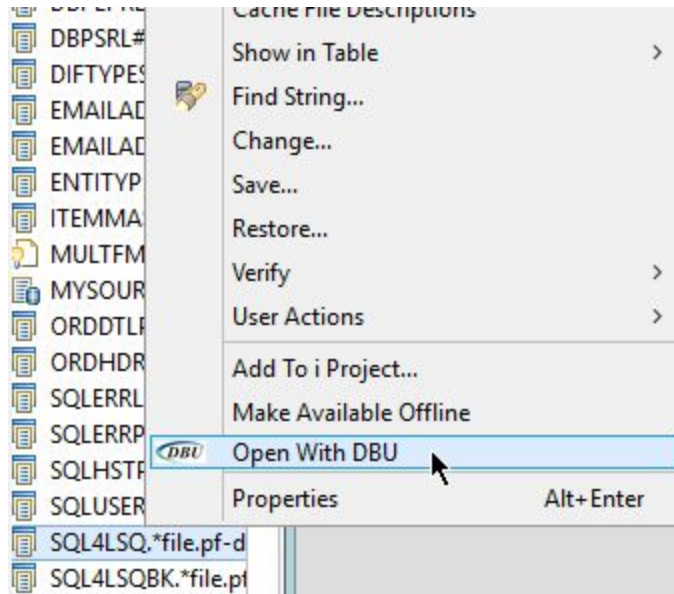


Figure 1 - Open with DBU

## Create a New System Connection

The first time DBU RDi is launched for a new system connection, you will be prompted to provide credentials for that connection (*Figure 2*). Most fields are pre-filled, so you may only need to provide your Password.

Test the connection by clicking the **Test** button. If successful, the **Create** button will become active. Click **Create** to store the connection settings. This will only be required once per system connection.

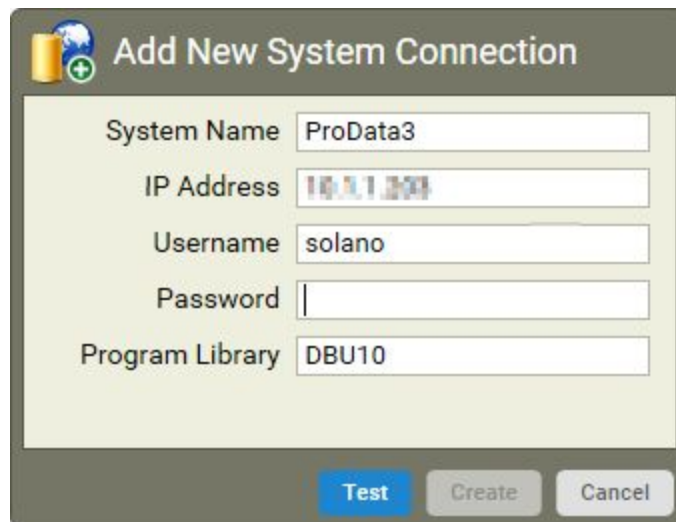
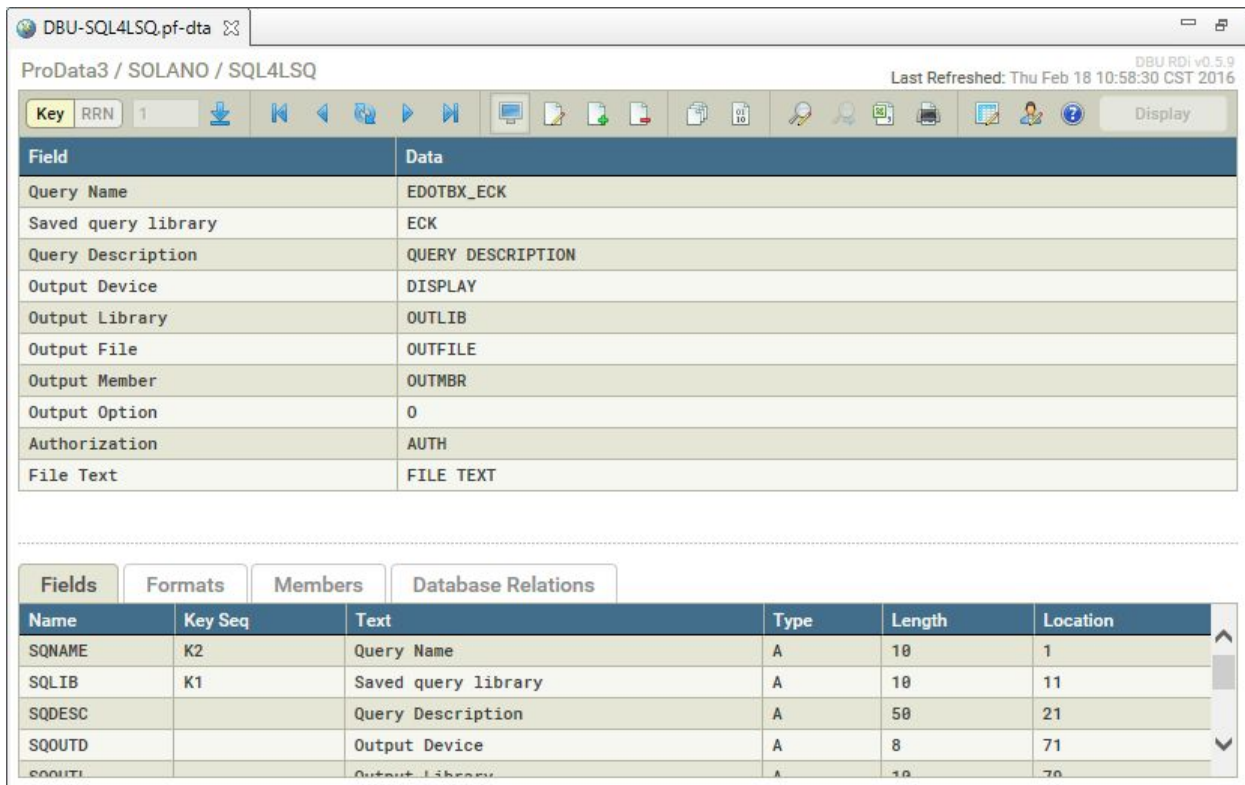


Figure 2 - Add New System Connection

After the new system has been added, the requested file will display in a new browser tab (Figure 3).



DBU-SQL4LSQ.pf-dta

ProData3 / SOLANO / SQL4LSQ

DBU RDi v0.5.9  
Last Refreshed: Thu Feb 18 10:58:30 CST 2016

Key RRN 1

| Field               | Data              |
|---------------------|-------------------|
| Query Name          | EDOTBX_ECK        |
| Saved query library | ECK               |
| Query Description   | QUERY DESCRIPTION |
| Output Device       | DISPLAY           |
| Output Library      | OUTLIB            |
| Output File         | OUTFILE           |
| Output Member       | OUTMBR            |
| Output Option       | 0                 |
| Authorization       | AUTH              |
| File Text           | FILE TEXT         |

Fields Formats Members Database Relations

| Name   | Key Seq | Text                | Type | Length | Location |
|--------|---------|---------------------|------|--------|----------|
| SQNAME | K2      | Query Name          | A    | 10     | 1        |
| SQLIB  | K1      | Saved query library | A    | 10     | 11       |
| SQDESC |         | Query Description   | A    | 50     | 21       |
| SQOUTD |         | Output Device       | A    | 8      | 71       |
| SQOUTL |         | Output Library      | A    | 10     | 70       |

Figure 3 - File display in browser tab

## Do DBU!

At this point you have everything you need to begin using DBU RDi.

If this is your first time using DBU RDi, or if it's been a while, we encourage you to read through the **Exploring the Interface** section to familiarize yourself with the basics.

If you'd like to dig a little deeper into the underlying functionality of DBU RDi, check out the **Functional Reference** near the end of this user manual. Of course, you're always welcome to contact us if you have questions or need assistance:

### ProData Customer Support

Online: <http://www.dodbu.com/support.shtml>  
Toll Free: 800.228.6318  
Fax: 402.697.7576

# 3. Exploring the Interface

## The Interface

The main DBU RDi interface consists of four main sections (*Figure 4*).

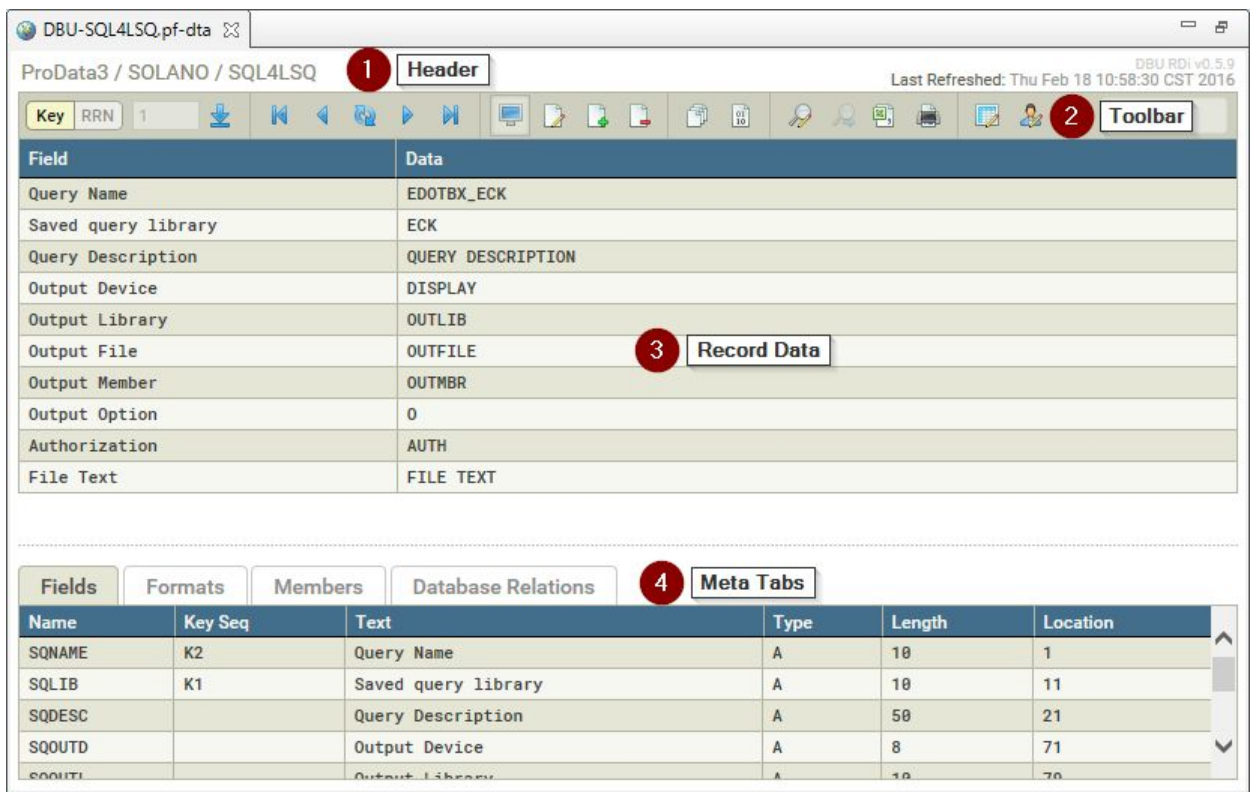


Figure 4 - Interface Overview

## Header

This section is mainly used for informational purposes, such as referencing the location of the current file and the date/time it was last refreshed. System messages are also displayed in this section.

Given its informational nature, almost no user interaction will take place in the header. The one exception is when system messages are displayed. For non-critical messages, you can click within the message banner area (green box in *Figure 5*) to hide the message. Otherwise, these messages will hide automatically after a few seconds.

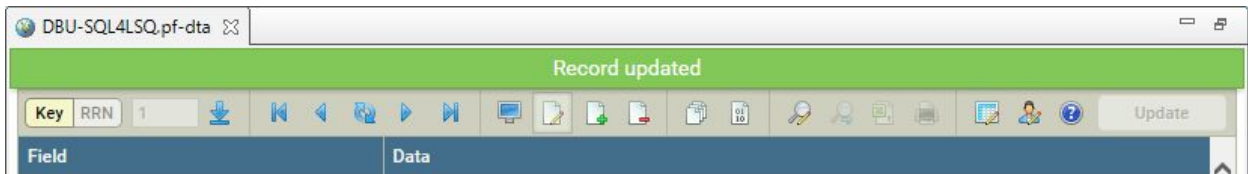


Figure 5 - DBU RDi Header with system messaging

## Toolbar

The DBU RDi toolbar is where most user interactions will take place: navigating between records, changing modes, searching, exporting data, printing, and more (*Figure 6*).

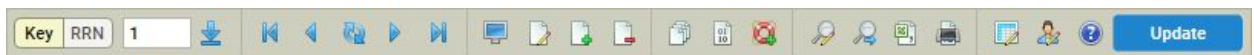


Figure 6 - DBU RDi Toolbar

The toolbar consists of up to 22 buttons and a text input field (depending on file type and user permissions). Simply point and click to activate a button's functionality. While the function of each button should be fairly intuitive, just hold your mouse cursor over a button to see a brief description of what it does. More details about each button's functionality are covered in later sections of this manual.

## Record Data

This section displays the data contained within each record. Data can be displayed in a variety of ways by changing a record's format and mode combinations. Records can be displayed in Single/Multiple Record Format, and Display, Edit, Add, Delete, or Hexadecimal mode. More details about each record mode are covered in future sections of this manual.

## Meta Tabs

The Meta Tabs section provides access to lower-level file data. Each tab is described in more detail below.

### Fields

Displays the field name and attributes for the currently selected file (*Figure 7*).

| Fields | Formats | Members             | Database Relations |        |          |   |
|--------|---------|---------------------|--------------------|--------|----------|---|
| Name   | Key Seq | Text                | Type               | Length | Location |   |
| SQNAME | K2      | Query Name          | A                  | 10     | 1        | ⬆ |
| SQLIB  | K1      | Saved query library | A                  | 10     | 11       |   |
| SQDESC |         | Query Description   | A                  | 50     | 21       |   |
| SQOUTD |         | Output Device       | A                  | 8      | 71       | ⬇ |
| SQOUTL |         | Output Library      | A                  | 10     | 70       |   |

Figure 7 - Fields View Tab

### Formats

Displays the record format information for the currently selected file (*Figure 8*).

| Fields | Formats | Members | Database Relations |         |           |
|--------|---------|---------|--------------------|---------|-----------|
| Format |         | File    | Library            | Rcd Len | # of Flds |
| SQREC  |         | SQL4LSQ | SOLANO             | 169     | 10        |

Figure 8 - Formats View Tab

### Members

Displays the member information for the current file. For files with multiple members, you may switch members on-the-fly by double-clicking on the desired member (*Figure 9*).

| Fields          | Formats | Members    | Database Relations |           |      |
|-----------------|---------|------------|--------------------|-----------|------|
| Member          |         | # of Rclds | Dlt Rclds          | Data Size | Text |
| <u>GARRISON</u> |         | 798        | 253                | 792       |      |
| GRAY2           |         | 46         | 0                  | 3080      |      |
| HARTLEY         |         | 76         | 0                  | 36        |      |
| HARTLEYR        |         | 1          | 0                  | 40        |      |
| OLIVERA         |         | 0          | 0                  | 0         |      |

Figure 9 - Members View Tab



## Database Relations

Displays database relations and associated information for the selected file. All of the access paths built over the physical file are listed. For files with multiple relations, you may switch files on-the-fly by double-clicking on the desired file name (highlighted in yellow) (*Figure 10*).

| Fields           | Formats                             | Members | Database Relations |
|------------------|-------------------------------------|---------|--------------------|
| File             | Text                                |         |                    |
| DBPLPRDT SOLANO  | DBU LPR Detail File                 |         |                    |
| Format: DBRLPRDT | Key: Arrival Sequence               |         |                    |
|                  | Records: 9782 Last Used: 02/18/2016 |         |                    |
| DBLLPRDT SOLANO  | LPCUST LPSRLN LPSFTW                |         |                    |
| Format: DBLLPRDT | Key: LPCUST LPSRLN LPSFTW           |         |                    |

Figure 10 - Database Relations View Tab

## The Toolbar

Below is a brief description of the various toolbar sections and the functionalities each section contains.

### Record Navigation

Use this section of the toolbar to navigate between records (*Figure 11*).



Figure 11 - Record Navigation

#### Key RRN Toggle Access Mode

Toggle the record access mode. This will enable/disable RRN Input, Position To Record, and Toggle RDR (available for keyed files only). See the Functional Reference in this guide for details.

#### 1 RRN Input

Jump to a specific record by RRN (Relative Record Number). Enter the desired number in this field and press the Enter key.

#### Position To Record

Jump to a specific record by key (available for keyed files only)

#### First Record/Page

Jump to the first record or page.

#### Previous Record/Page

Load the previous record or page.

#### Reload Record/Page

Reload the current record or page.

#### Next Record/Page

Load the next record or page.

#### Last Record/Page

Jump to the last record or page.

## Change Record Modes

Use this section of the toolbar to change record modes (*Figure 12*).



**Figure 12** - Change Record Modes

### **Display Mode**

Load the current file in Display Mode. No data manipulation is available (i.e. read-only).

### **Edit Mode**

Load the current file in Edit Mode. This mode allows the user to edit record data.

### **Add Mode**

Load the current file in Add Mode. This mode allows the user to create a single new record.

### **Delete Mode**

Load the current file in Delete Mode. This mode allows the user to delete individual records.

### **Toggle Multiple Record Format**


Load the current file in Single or Multiple Record Format. Single Record Format displays one record at-a-time. Multiple Record Format displays up to 50 records at once, depending on the user's preferences.

### **Toggle Hex Mode**

Load the current file in Hex or Non-Hex mode. Record data will converted to or from the hexadecimal equivalent.

### **Toggle RDR Mode**

Load the current file with RDR (Retrieve Deleted Records) on or off. This mode allows the user to retrieve deleted records (RDR may not be available with all installations).

 **Note:** *Single/Multiple Record, Hex, and RDR modes can be used in combination with Display, Edit, Add, and Delete modes (with some exceptions). For example, you can edit data (Edit Mode) in Single/Multiple Record Format, and display data (Display Mode) in Hex or Non-Hex Mode.*

## Search, Export, Print

Use this section of the toolbar to search, export, and print (*Figure 13*).



**Figure 13** - Search, Export, and Print

### **Define Search/Replace**

Define search parameters and option replace values for a search within the current file.

### **Next Search Result**

Load the next result for the current search.

### **Export Data**

Export data from the current view in CSV or XML format.

### **Print**

Print a single record or multiple records, depending on current mode.

## Preferences, Help, & Submit

Use this section of the toolbar to view/change layout and user preferences, and to get help (*Figure 14*).



**Figure 14** - Preferences, Help, Submit

### **Layout Preferences**

Alter the way data is presented in the main layout.

### **User Preferences**

Alter preferences for the current user such as default record quantity and mode.

### **Help**

Launch this user manual.

### **Update/Add/Delete/Reactivate**

This button will be in one of 5 possible states (*Figure 15*), depending on the action currently being performed.



**Figure 15** - Submit button states

In Display Mode, the button is inactive and labeled "Display"; in Edit Mode (when data has been altered) the button is blue and labeled "Update"; in Add Mode, the button is green and labeled "Add"; in Delete Mode, the button is red and labeled "Delete"; when RDR is active and a deleted record is selected, the button is orange and labeled "Reactivate".

## Helpful Tips

### Moving Between Records & Fields

Below are some alternatives to using a mouse when navigating between records and fields:

#### Display/Delete Mode

Click to select a row, then in:

##### **Single Record Format**

Use the up/down arrow keys to move between fields.

### Multiple Record Format

Use the up/down arrow keys to move between records. Use the left/right arrow keys to move between fields.

### Edit/Add Mode

Click on an input field, then in:

#### Single Record Format

Use the up/down arrow keys to move between fields.

#### Multiple Record Format

- Press **Tab** to move the to the next field.
- Hold **Shift**, then press **Tab** to move to the previous field.
- Use the up/down arrow keys to move between records (not available within text areas).

## Dialog Boxes

Dialog boxes are the small pop-up style windows that open over the top of the main layout and other dialog boxes (*Figure 16*). Clicking the following buttons will launch dialog boxes: Position To Record, Define Search, Export Data, Print, Layout Preferences, and User Preferences.



**Figure 16** - Sample dialog box

Most dialog boxes have the following features:

#### Draggable

To drag a dialog box, click and hold near the top, then drag to the desired location and release.


#### Minimize/Maximize/Close

Click on the yellow (minimize), orange (maximize), or red (close) icon in the upper right corner.

## 4. Functional Reference



In this section we'll dive deeper into the individual tools and functionalities of DBU RDi. Each sub-section below details a specific piece for the DBU RDi application, though some elements are excluded due to their self-explanatory nature (i.e. First Record, Next Record, etc.). While reading all the way through this section is recommended, it's likely to be most useful as an ad-hoc reference.

### Toggle Access Mode



 Available for keyed files only. Keyed files will display in Keyed Access Mode by default.

Click either side of the Access Mode toggle to switch access modes. **Key** will switch the record to keyed access mode. **RRN** will switch to non-keyed access mode.


### Keyed Access Mode

In keyed access mode, records are ordered according to the value of predefined keys. Note that in this mode the RRN Input Field is disabled, the Position To Record  button is enabled, and the Toggle RDR  button is no longer available. This occurs because, in this access mode, you are able to position to records by key only, not by RRN, and RDR is not allowed.

### Non-Keyed (RRN) Access Mode


In non-keyed access mode, records are ordered by RRN (Relative Record Number). Note that in this mode the RRN Input Field is enabled, the Position To Record  button is disabled, and the Toggle RDR  button is available. This occurs because, in this access mode, you are able to position to records by RRN only, not by key, and RDR is allowed.

### RRN Input Field

 Available for non-keyed files, or keyed files in non-keyed access mode only.

Key in the desired RRN in the input field and press Enter. The record with the specified RRN (if found) will be positioned to the top.

### Position To Record

 Available for keyed files in keyed access mode only.

Click to launch the Position To Record dialog box (Figure 17). Update the desired fields and click **Go**. If a matching record is found, the file will be re-positioned to that record.

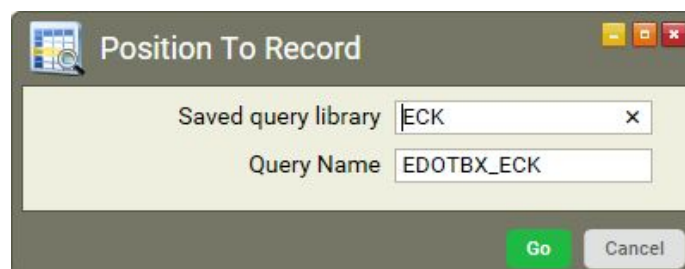


Figure 17 - Position To Record dialog

## Display Mode

As the name suggests, Display Mode is useful for browsing records when no data manipulation is required.

## Edit Mode

In Edit Mode, the Record Data area is updated to display input fields (*Figures 18-19*) in place of static record data, enabling the user to alter data and submit changes.

### Navigating Input Fields

Navigating between fields is very simple. Several methods are available for ease-of-use:

**Point-and-Click** - use your mouse to click within the field you'd like to edit.

**Tab** - press the Tab key to target the next available input field.

**Shift + Tab** - hold Shift, then press the Tab key to target the previous input field.

**Up Arrow** - press the up arrow to target the input in the previous row/record, same column/field.

**Down Arrow** - press the down arrow to target the input in the next row/record, same column/field.

| Field               | Data              |
|---------------------|-------------------|
| Query Name          | EDOTBX_ECK        |
| Saved query library | ECK               |
| Query Description   | QUERY DESCRIPTION |
| Output Device       | DISPLAY           |
| Output Library      | OUTLIB            |
| Output File         | OUTFILE           |
| Output Member       | OUTMBR            |
| Output Option       | 0                 |
| Authentication      | AUTH              |

Figure 18 - Single Record Edit Mode

| Record # | Query Name | Saved query library | Query Description   | Output Device | Output Libra |
|----------|------------|---------------------|---------------------|---------------|--------------|
| 1        | EDOTBX_ECK | ECK                 | QUERY DESCRIPTION   | DISPLAY       | OUTLIB       |
| 2        | A          | GARRISON            | TESTING             | DISPLAY       |              |
| 3        | MG15050501 | GARRISON            | testing SAVED query | DISPLAY       |              |
| 4        | MG15062302 | GARRISON            | TESTING 2           | DISPLAY       |              |
| 5        | MG15062303 | GARRISON            | TESTING 3           | DISPLAY       |              |
| 6        | MG15062304 | GARRISON            | TESTING 04          | DISPLAY       |              |
| 7        | MG15062306 | GARRISON            | TESTING 06          | DISPLAY       |              |
| 8        | MG15062307 | GARRISON            | TESTING 07          | DISPLAY       |              |

Figure 19 - Multiple Record Edit Mode

## Add Mode

 *New records are added in Single Record Format (i.e. one at-a-time)*

Add Mode is very similar to Edit Mode in Single Record Format (*Figure 18*), except the inputs are usually empty. To add a new record, simply provide data for the desired inputs and click the **Add**.

## Delete Mode


In Single Record Format, navigate to the record you wish to delete, and click the **Delete**. In Multiple Record Format, select a record to delete by clicking within the record's row, then click **Delete**.

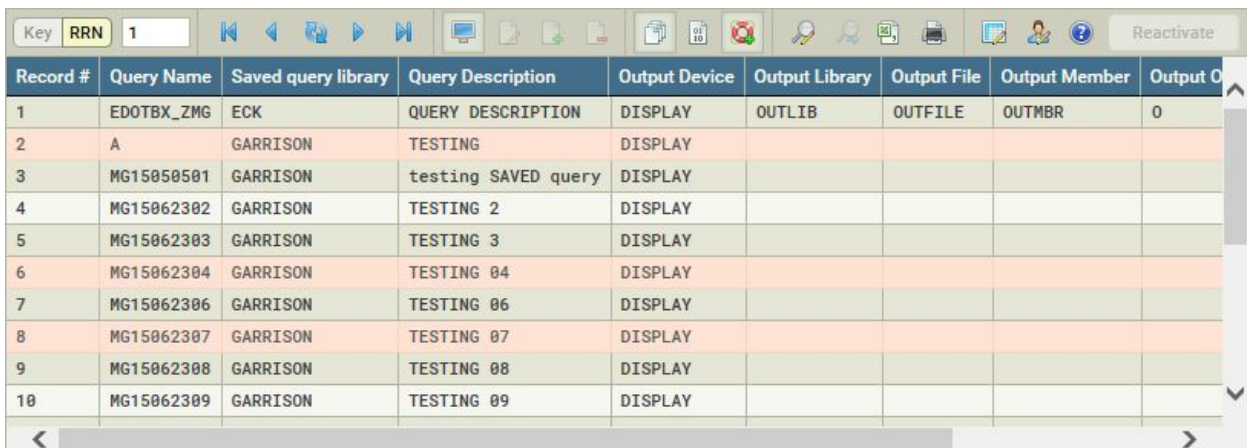
## Toggle Multiple Record Format

Click to enable/disable Multiple Record Format. Multiple Record Format is enabled when the button is in a depressed state and multiple records are displayed in the Record Data area.

## Toggle RDR Mode

Click to enable/disable RDR (Retrieve Deleted Records). RDR is enabled when the button is in a depressed state, at which time any available deleted records for the current view will be highlighted in red (*Figure 20*).

 **Note:** *Some deleted records may be empty, depending on the method with which the file was originally created.*



| Record # | Query Name | Saved query library | Query Description   | Output Device | Output Library | Output File | Output Member | Output 0 |
|----------|------------|---------------------|---------------------|---------------|----------------|-------------|---------------|----------|
| 1        | ED0TBX_ZMG | ECK                 | QUERY DESCRIPTION   | DISPLAY       | OUTLIB         | OUTFILE     | OUTMBR        | 0        |
| 2        | A          | GARRISON            | TESTING             | DISPLAY       |                |             |               |          |
| 3        | MG15050501 | GARRISON            | testing SAVED query | DISPLAY       |                |             |               |          |
| 4        | MG15062302 | GARRISON            | TESTING 2           | DISPLAY       |                |             |               |          |
| 5        | MG15062303 | GARRISON            | TESTING 3           | DISPLAY       |                |             |               |          |
| 6        | MG15062304 | GARRISON            | TESTING 04          | DISPLAY       |                |             |               |          |
| 7        | MG15062306 | GARRISON            | TESTING 06          | DISPLAY       |                |             |               |          |
| 8        | MG15062307 | GARRISON            | TESTING 07          | DISPLAY       |                |             |               |          |
| 9        | MG15062308 | GARRISON            | TESTING 08          | DISPLAY       |                |             |               |          |
| 10       | MG15062309 | GARRISON            | TESTING 09          | DISPLAY       |                |             |               |          |

**Figure 20** - RDR enabled with deleted records present

## Reactivating Deleted Records

To retrieve a deleted record:

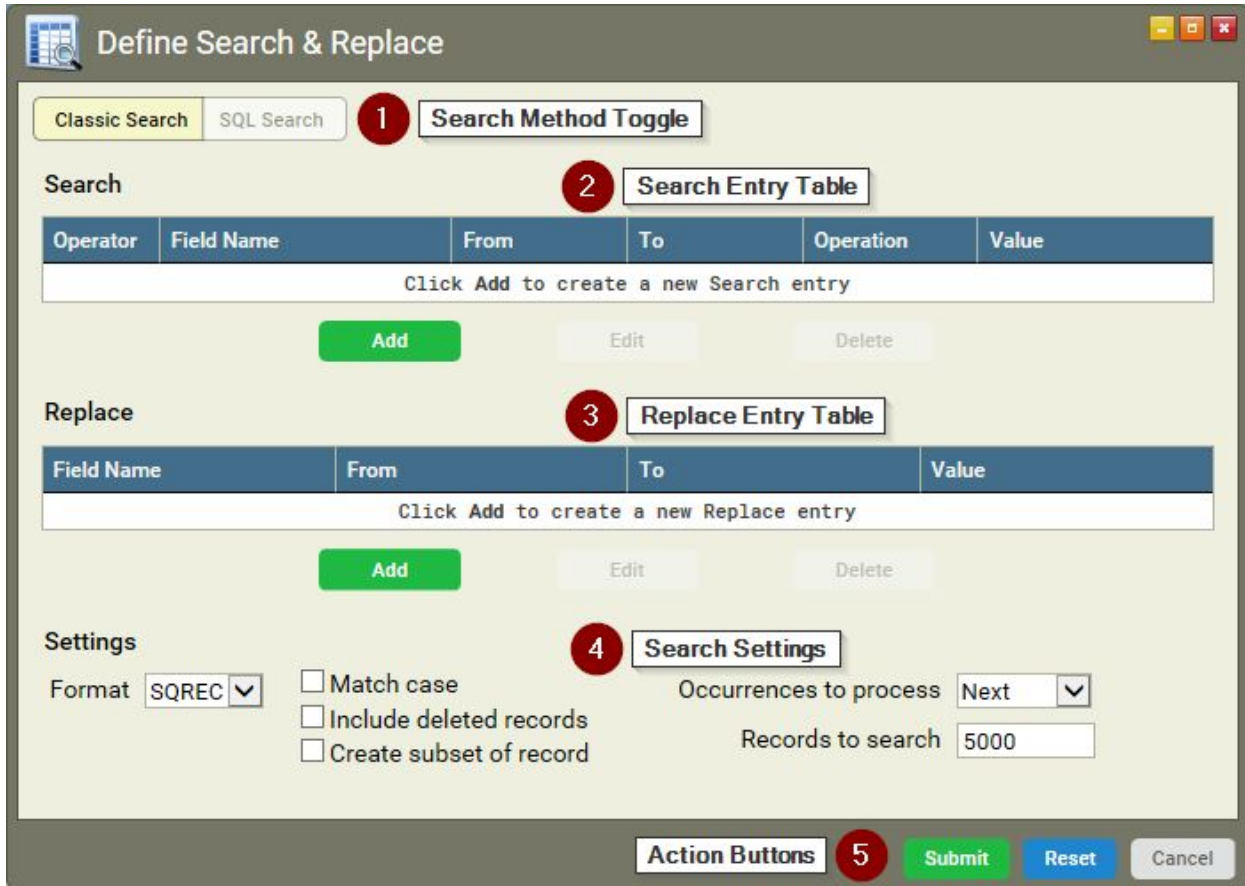
1. Ensure RDR is enabled.
2. Navigate to, or click on, the record you wish to reactivate.
3. Click the "Reactivate" button.

If successful, the selected record will no longer be highlighted in red.



## Define Search & Replace

Click to launch the Search & Replace dialog box (*Figure 21*) and define search & replace parameters and execute a search/replace on the current file.



The dialog box is titled "Define Search & Replace" and contains several sections:

- Search Method Toggle:** A button labeled "Search Method Toggle" with a red circle 1 next to it.
- Search Section:**
  - A button labeled "Search Entry Table" with a red circle 2 next to it.
  - A table with columns: Operator, Field Name, From, To, Operation, Value.
  - A text prompt: "Click Add to create a new Search entry".
  - Buttons: Add (green), Edit (grey), Delete (grey).
- Replace Section:**
  - A button labeled "Replace Entry Table" with a red circle 3 next to it.
  - A table with columns: Field Name, From, To, Value.
  - A text prompt: "Click Add to create a new Replace entry".
  - Buttons: Add (green), Edit (grey), Delete (grey).
- Settings Section:**
  - A button labeled "Search Settings" with a red circle 4 next to it.
  - Format: SQREC (dropdown).
  - Match case: ☐.
  - Include deleted records: ☐.
  - Create subset of record: ☐.
  - Occurrences to process: Next (dropdown).
  - Records to search: 5000 (text input).
- Action Buttons:** A button labeled "Action Buttons" with a red circle 5 next to it, followed by Submit (green), Reset (blue), and Cancel (grey).

Figure 21 - Define Search & Replace dialog

## Search Method Toggle

Click either side of the Search Method Toggle to change the search method.

### Classic Search

Add search entries (parameters) one at-a-time; the query will be built dynamically when the search is submitted.

### SQL Search

Build your own custom SQL statement (*Figure 22*).



The dialog box shows the "SQL Search" method selected. It contains a text area with the following SQL statement:

```
SELECT * FROM ProData3 / SOLANO / SQL4LSQ WHERE
```

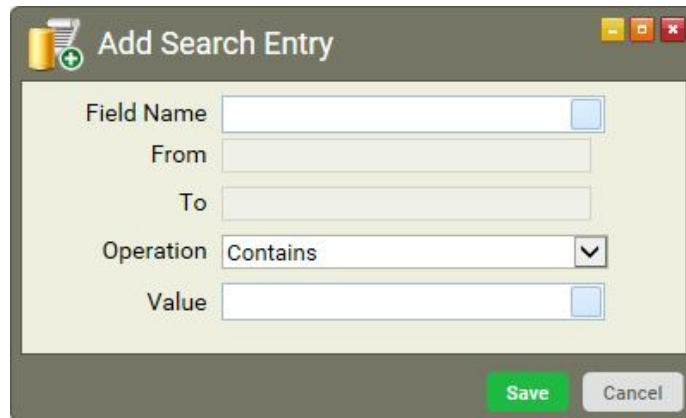
Below the text area is a vertical scrollbar.

Figure 22 - SQL Search method



## Add/Edit Search Entry

Click the **Add** or **Edit** button below the Search entry table to launch the Add/Edit Search Entry dialog box (*Figure 23*). Complete the desired fields and click **Save** - the entry will be added to, or modified in, the entry in the Search entry table.

The image shows a dialog box titled "Add Search Entry". It has a standard Windows-style title bar with a minimize, maximize, and close button. The dialog contains several input fields: "Field Name" (a text box), "From" (a text box), "To" (a text box), "Operation" (a dropdown menu with "Contains" selected), and "Value" (a text box). At the bottom right, there are two buttons: "Save" (green) and "Cancel" (grey).

**Figure 23** - Add/Edit Search Entry dialog

Following is a brief overview of the available fields:

### Field Name

The name of the field in which to search. Aside from the actual record field names, available values include:

- \*RCD** - Search the entire file for Decimal Data Errors
- \*RRN** - Search based on a specified RRN (Relative Record Number)
- \*STRPOS** - Used to search for a value within the specified start position range (From/To)

### From/To

The beginning/ending start position within which to search for a given value.

💡 Available when **Field Name** is set to **\*STRPOS** only

### Operation

The desired operation with which to compare values. In each case, the "specified value" referenced below is the value selected or defined in the Value field. In most cases, this value is compared to the value of the field corresponding to the selected Field Name.

Available operations are:

- Contains** - Find records that contain the specified value.
- Equal To** - Find records equal to the specified value.
- Greater Than** - Find records greater than the specified value.
- Greater Than or Equal To** - Find records greater than or equal to the specified value.
- Less Than** - Find records less than the specified value.
- Less Than or Equal To** - Find records less than or equal to the specified value.

**Does Not Contain** - Find records that do not contain the specified value.

**Not Equal To** - Find records not equal to the specified value.

**Not Greater Than** - Find records not greater than the specified value.

**Not Less Than** - Find records not less than the specified value.

## Value


The value on which to execute a search. This can also be set to another record field name. Aside from a custom user-defined value and the record field names, available values include:


**NULL** - Search for fields with NULL values

**Decimal Data Error** - Search for fields with decimal data errors

## Replace Entry Table

Click the **Add** or **Edit** button below the Replace entry table to launch the Add/Edit Replace Entry dialog box (*Figure 24*). Once the desired fields are completed, click the "Save" button to add/modify the entry in the Search entry table.

 *See descriptions for the Search Entry Table fields above - they are very similar to the Replace Entry Table fields.*

The image shows a dialog box titled "Add Replace Entry". It has a standard Windows-style title bar with minimize, maximize, and close buttons. The dialog contains four text input fields: "Field Name", "From", "To", and "Value". Each field has a small blue square button to its right. At the bottom right of the dialog are two buttons: "Save" (green) and "Cancel" (grey).

**Figure 24** - Add/Edit Replace Entry

## Search Settings

Following are the available search settings:

### Format

Select the format, if multiple available, for the current record (logical files only).

### Match case

If selected, a case-sensitive search is performed. Otherwise, searches are case-insensitive by default.

### Include deleted records

If selected, RDR is enabled when the search is executed. Any available deleted records will be included in the search results.

## Create subset of records

If selected, the currently displayed data will be replaced by a subset of records containing only those records that match the provided search criteria. This can be undone by clicking the blue **Reset** button in the main search dialog box.

## Occurrences to process

Dictates how the search is executed. Available values are:

### Next

Search progresses forward from current record up to the number of records specified in the **Records to search** field or the end of the file (whichever is less). The next record to satisfy the search criteria is displayed.

### Replacing Data

If a Replace entry is defined, a confirmation dialog box (*Figure 25*) will appear for each matching result. In the dialog, click **Replace** to replace data in the target field with the specified replacement value; click **Skip** to continue to the next matching record; or click **Cancel** to cancel the search/replace process.

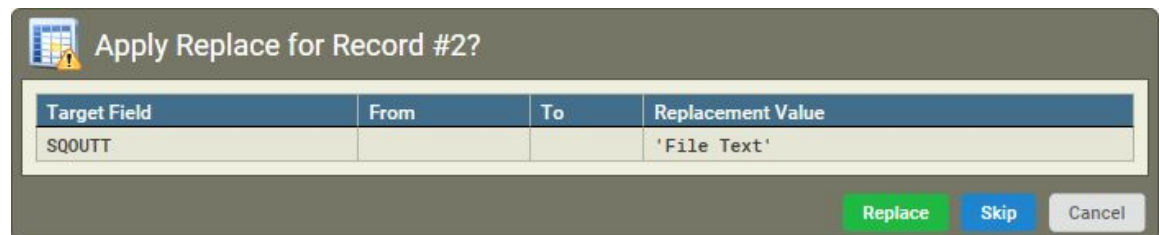


Figure 25 - Replace Confirmation dialog

### All

Search progresses forward from the current record to the end of the file. If used in conjunction with the replace function, all records which satisfy the search criteria will have the replace function performed without any prompting from the user.

**USE WITH CAUTION!**

### Previous

Similar to "Next", except the search moves backward through the file to previous records.

## Records to search

Specifies the quantity of records to search when **Occurrences to process** is "Next" or "Previous".

## Actions

Aside from the standard **Submit** and **Cancel** actions, you are able to reset or clear a search.

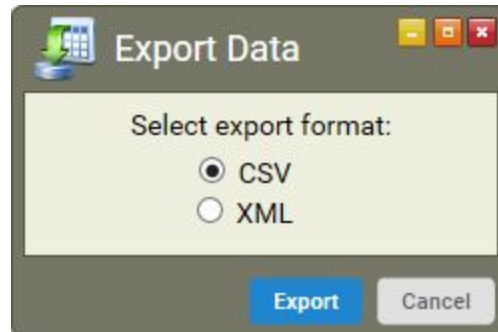
### Reset

Reset the search/replace parameters and settings and clear any existing search results, including a created subset. This basically allows you to revert the file to its pre-search state.

## **Export Data**

Click to launch a the Export Data dialog box (*Figure 26*) and export the displayed record(s) in CSV or XML format.

After selecting the desired format, click **Export**. At this point you'll be prompted to select a destination to save the file. Follow the system prompts to complete the export.



**Figure 26** - Export Data dialog

## **Print**

Click to launch a Print Preview to view and print the displayed record(s). In Single Record format, the displayed record will be printed (*Figure 27*). In Multiple Record format, single records can be printed by clicking to select the desired record; otherwise, all displayed records will be printed (*Figure 28*).

### **Print Preview**

Aside from being able to preview the data set to be printed, you are able to select the desired printing destination:

#### **PC Printer**

Launches the default print dialog on your local machine, where you can then select a local or network printer.

#### **System i**

Creates a spool file on the IBM i, containing the number of records specified in the **Qty of records** field (*Figure 28*).

**Print Preview**

Print to: ☒ PC Printer ☐ System i

Tue Feb 16 14:35:23 CST 2016 # of Fields: 10

**System:** ProData3    **Library:** SOLANO    **Type:** Physicals    **File:** SQL4LSQ    **Member:** \*FIRST

| Field               | Data              |
|---------------------|-------------------|
| Query Name          | EDOTBX_ECK        |
| Saved query library | ECK               |
| Query Description   | QUERY DESCRIPTION |
| Output Device       | DISPLAY           |
| Output Library      | OUTLIB            |
| Output File         | OUTFILE           |
| Output Member       | OUTMBR            |
| Output Option       | 0                 |
| Authorization       | AUTH              |
| File Text           | FILE TEXT         |

**Print** **Cancel**

**Figure 27** - Single Record print preview

**Print Preview**

Print to: ☐ PC Printer ☒ System i    Qty of records:

When printing records with many columns, print using "Landscape" mode to yield best results.

Tue Feb 16 15:17:20 CST 2016 # of Records: 10

**System:** ProData3    **Library:** SOLANO    **Type:** Physicals    **File:** SQL4LSQ    **Member:** \*FIRST

| Record # | Query Name | Saved query library | Query Description   | Output Device | Output Library | Output File | Output Member | Output Option |
|----------|------------|---------------------|---------------------|---------------|----------------|-------------|---------------|---------------|
| 1        | EDOTBX_ECK | ECK                 | QUERY DESCRIPTION   | DISPLAY       | OUTLIB         | OUTFILE     | OUTMBR        | 0             |
| 2        | A          | GARRISON            | TESTING             | DISPLAY       |                |             |               |               |
| 3        | MG15050501 | GARRISON            | testing SAVED query | DISPLAY       |                |             |               |               |
| 4        | MG15062302 | GARRISON            | TESTING 2           | DISPLAY       |                |             |               |               |
| 5        | MG15062303 | GARRISON            | TESTING 3           | DISPLAY       |                |             |               |               |
| 6        | MG15062304 | GARRISON            | TESTING 04          | DISPLAY       |                |             |               |               |
| 7        | MG15062306 | GARRISON            | TESTING 06          | DISPLAY       |                |             |               |               |
| 8        | MG15062307 | GARRISON            | TESTING 07          | DISPLAY       |                |             |               |               |
| 9        | MG15062308 | GARRISON            | TESTING 08          | DISPLAY       |                |             |               |               |
| 10       | MG15062309 | GARRISON            | TESTING 09          | DISPLAY       |                |             |               |               |

**Print** **Cancel**

**Figure 28** - Multiple Record print preview

## Layout Preferences

Click to launch the Layout Preferences dialog box (*Figure 29*). Changes made in this dialog will affect the display of fields in the Record Data area.

**Layout Preferences**

**Settings**

Position to Field: **First** | Table Header Labels: **Field Text** | Format: **SQREC**

**Table Layout** [Show Hints](#)

| Field Text          | Field Name | Key Seq | Select/Omit | Read-Only | Auto Dup | Upper Case | Type | Length | Dec | Loc | Column |
|---------------------|------------|---------|-------------|-----------|----------|------------|------|--------|-----|-----|--------|
| Query Name          | SQNAME     | 2       |             | ✓         |          | ✓          | A    | 10     |     | 1   | Query  |
| Saved query library | SQLIB      | 1       |             | ✓         |          | ✓          | A    | 10     |     | 11  | Saved  |
| Query Description   | SQDESC     |         | ⊖           |           |          | ✓          | A    | 50     |     | 21  | Query  |
| Output Device       | SQOUTD     |         |             |           |          | ✓          | A    | 8      |     | 71  | Output |
| Output Library      | SQOUTL     |         |             |           |          | ✓          | A    | 10     |     | 79  | Output |
| Output File         | SQOUTF     |         |             |           |          | ✓          | A    | 10     |     | 89  | Output |
| Output Member       | SQOUTM     |         |             |           |          | ✓          | A    | 10     |     | 99  | Output |
| Output Option       | SQOUTO     |         |             |           |          | ✓          | A    | 1      |     | 109 | Output |
| Authorization       | SQOUTA     |         |             | ✓         |          | ✓          | A    | 10     |     | 110 | Autho  |
| File Text           | SQOUTT     |         | ⊖           |           |          | ✓          | A    | 50     |     | 120 | File   |

**Create Field** **Remove Field** **Sort by Key**

**Submit** **Cancel**

Figure 29 - Layout Preferences dialog

## Settings

### Position to Field

Jump to (highlight) the first or last field/row in the Table Layout.

### Field Labels

Determines the source for field labels (column/row headers) when records are displayed in the main Record Data area.

**Field Text** - Use the field text (i.e. "Query Name").

**Field Name** - Use the field name (i.e. "SQNAME").

**Column Headings** - Use the column headings (i.e. "Query Name")

**Alias** - Use a user-defined alias.

### Format

Select the format, if multiple available, for the current file (logical files only).

## Table Layout

### Columns

**Field Text** - Text defined for the field in DDS. Click and drag on this column within any row to change its position.

**Field Name** - Name of the field as described in DDS.

**Key Sequence** - Denotes the order of any keys that may exist in the file.

**Select** - Determines whether to select/show ✓ or omit/hide ⊖ a field.

- If this column is blank for all fields then all fields are shown by default.
- If this column has ✓ in one or more fields, only those selected fields are shown.
- If this column has ⊖ in one or more fields, those fields are omitted (hidden) and all others are shown.
- If this column has both ✓ and ⊖ for different fields, only the omit ⊖ selection will go through and any ✓ selections will be reverted to blank cells.

**Read-Only** - Determines whether the field should be read-only (non-editable).

**Auto Dup** - Determines whether this field may be duplicated.

**Upper Case** - Determines whether field input is limited to upper-case characters only.

**Type** - Displays the field type (numeric, alpha, etc).

**Length** - Displays the field length.

**Dec** - Displays the decimal position for numeric fields.

**Loc** - Displays the position of a field's starting character within the file.

**Column Headings** - Displays the field's column headings.

**Alias** - Displays the field's alias, if defined.

## Actions

### Create Field

Click to create a new custom field - a dialog window will appear (*Figure 30*). This functionality is typically used to break fields non-packed fields up into smaller fields, or to merge smaller contiguous fields into larger fields.

When the form is complete, click **Create** and the new field will be added to the top of the **Table Layout** table.

**Figure 30** - Layout Preferences Create Field dialog

Following is a brief overview of the available fields:

**Field Text** - Text for the new field.




**Field Name** - Name of the new field (must be unique).

**Type** - The new field's data type


**Dec** - Number of decimal places for numeric data types (i.e. Zoned or Float)

**Loc** - Position within the file where the new field should begin.

**Length** - Desired length of the new field.


**Select** - If checked, a  will appear in the Select/Omit column for the new field.

## Remove Field

 *Only available when a custom user-created field is highlighted.*

Click to remove the selected user-created field (created using the **Create Field** button).

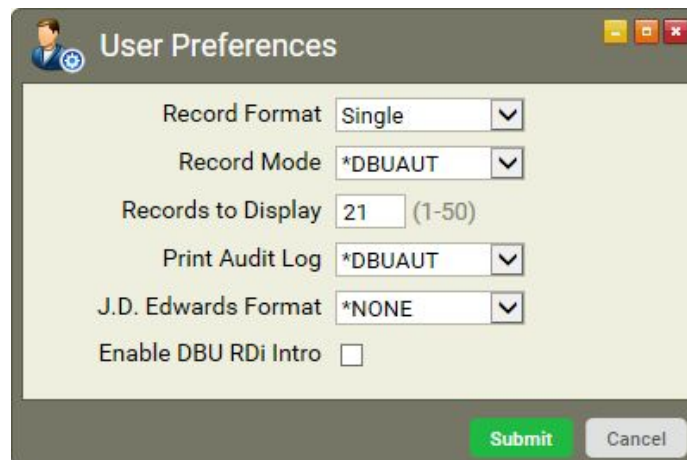
## Sort By Key

 *Only available for keyed files.*

Click to sort the fields in ascending key order.

## User Preferences

Click to launch the User Preferences dialog (*Figure 31*) and customize user preferences such as default record modes and quantity of records per page.

The image shows a 'User Preferences' dialog box with a title bar containing a user icon and standard window controls. The dialog has a light beige background and contains several settings: 'Record Format' is a dropdown menu set to 'Single'; 'Record Mode' is a dropdown menu set to '\*DBUAUT'; 'Records to Display' is a text input field with '21' and a range '(1-50)' to its right; 'Print Audit Log' is a dropdown menu set to '\*DBUAUT'; 'J.D. Edwards Format' is a dropdown menu set to '\*NONE'; and 'Enable DBU RDi Intro' is an unchecked checkbox. At the bottom right, there are two buttons: a green 'Submit' button and a grey 'Cancel' button.

**Figure 31** - User Preferences dialog

Following is a brief overview of the available fields:

## Record Format

**Single** - Opens records in Single Record Format

**Multiple** - Opens records in Multiple Record Format

## Record Mode

**\*DBUAUT** - Opens records in the mode set within DBUAUT on the IBM i.

**Add** - Opens records in Add Mode.

**Edit** - Opens files in Edit Mode.



**Display** - Opens files in Display Mode.

## Records to Display

Quantity of records to display when in Multiple Record Format.

## Print Audit Log

**\*DBAUT** - Use the setting from DBUAUT on the IBM i.

**Off** - Turn off the print log.

## J.D. Edwards Format

**\*NONE** - Do not apply J.D. Edwards format.

**\*PRV** - Apply the previous J.D. Edwards format.

**World** - Use the J.D. Edwards World format.

**OneWorld** - Use the J.D. Edwards OneWorld format.

## Enable DBU RDi Intro


When checked, the DBU RDi Intro tutorial will launch the next time a file is opened. Since the file is reloaded by default when User Preferences are submitted, the tutorial will launch by default.

## Members Meta Tab

Members

Click the Members tab to view and access file members (*Figure 32*). From this view you can see details about a file's members, with the currently displayed member highlighted in blue.

If multiple members exist, you can switch to another member by double-clicking on the desired member's row. This will load the record data for that member in the Record Data area.

 **Note:** Switching members will replace the currently displayed record data with the selected member's record data.

| Fields                   | Formats | Members | Database Relations |          |           |                            |
|--------------------------|---------|---------|--------------------|----------|-----------|----------------------------|
| Member                   |         |         | # of Rcds          | Dlt Rcds | Data Size | Text                       |
| GARRISON                 |         |         | 798                | 253      | 792       |                            |
| GRAY2                    |         |         | 46                 | 0        | 3080      |                            |
| HARTLEY                  |         |         | 76                 | 0        | 36        |                            |
| HARTLEYR                 |         |         | 1                  | 0        | 40        |                            |
| OLVERA                   |         |         | 0                  | 2        | 80        |                            |
| QPGMR                    |         |         | 724                | 0        | 24672     |                            |
| QSECOFR                  |         |         | 751                | 0        | 24676     |                            |
| SMOLSKY                  |         |         | 0                  | 0        | 8         |                            |
| SQLHSTP (current member) |         |         | 9                  | 42       | 84        | SQL Statement History file |
| SQL4LHQ                  |         |         | 0                  | 0        | 8         |                            |
| THELEN                   |         |         | 10                 | 0        | 520       |                            |
| WEBSTER                  |         |         | 2                  | 0        | 72        |                            |


**Figure 32** - Members View tab

## Database Relations Meta Tab

### Database Relations

Click the Database Relations tab to view and access a file's database relations (*Figure 33*). From this view you can see details about a file's relations, with the currently displayed file highlighted in blue.

If multiple relations exist, you can switch to another relation by double-clicking on the desired relation's row. This will load the record data for that relation in the Record Data area.

 **Note:** Switching relations will replace the currently displayed Record Data with the selected relation's record data.

| Fields                         | Formats  | Members | Database Relations |
|--------------------------------|--|---------|--------------------|
| File                           | Text   |         |                    |
| DBPLPRDT SOLANO                | DBU LPR Detail File                            |         |                    |
| Format: DBRLPRDT               | Key: Arrival Sequence                          |         |                    |
|                                | Records: 9782 Last Used: 02/18/2016            |         |                    |
| DBLLPRDT SOLANO                | LPCUST LPSRLN LPSFTW                           |         |                    |
| Format: DBRLPRDT               | Key: LPCUST LPSRLN LPSFTW                      |         |                    |
|                                | Records: 3372 Last Used: 02/18/2016            |         |                    |
|                                | S/O: *SELECT LPPRNT EQ 'P'                     |         |                    |
| DBLLPR03 SOLANO                | LPCUST   |         |                    |
| Format: DBRLPRDT               | Key: LPCUST                                    |         |                    |
|                                | Records: 9782 Last Used: 02/01/2016            |         |                    |
| DBLLPR06 SOLANO (current file) | LPCUST LPSERL PSFTW                            |         |                    |
| Format: DBRLPRDT               | Key: LPCUST LPSRLN LPSFTW                      |         |                    |
|                                | Records: 9782 Last Used: 02/18/2016            |         |                    |
| DBLLPR08 SOLANO                | LPPRNT   |         |                    |
| Format: DBRLPRDT               | Key: LPPRNT                                    |         |                    |
|                                | Records: 9782 Last Used: 01/29/2016            |         |                    |
| DBLLPR09 SOLANO                | LPCUST LPSRLN LPSFTW LPPRNT                    |         |                    |
| Format: DBRLPRDT               | Key: LPCUST LPSRLN LPSFTW LPPRNT LPPRMM LPPRDD |         |                    |
|                                | LPPRY  |         |                    |
|                                | Records: 9782 Last Used: 12/23/2015            |         |                    |

**Figure 33** - Database Relations View tab