IBM iDoctor for IBM i
Main Window and Common Interfaces

IBM iDoctor for IBM i Development Team

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Abstract

Provides in-depth coverage of all major GUI functions for all components at 7.2 and higher. This covers the common features found in all iDoctor components within the Main Window.

Does not include IBM i Explorer, Bookmarks or Session History. See documentation for those functions separately...

Changes

19 Mar 2025 – Updated for 2025

9 Aug 2023 – Updated for 2023 and client 1635 or higher.

6 Sept 2022 – Updated content to match client 1561

8 Feb 2022 – Created new document to separate the documentation into different documents for ease of maintenance. This is sections 4 and 5 from the previous version of the documentation.

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1 Introduction

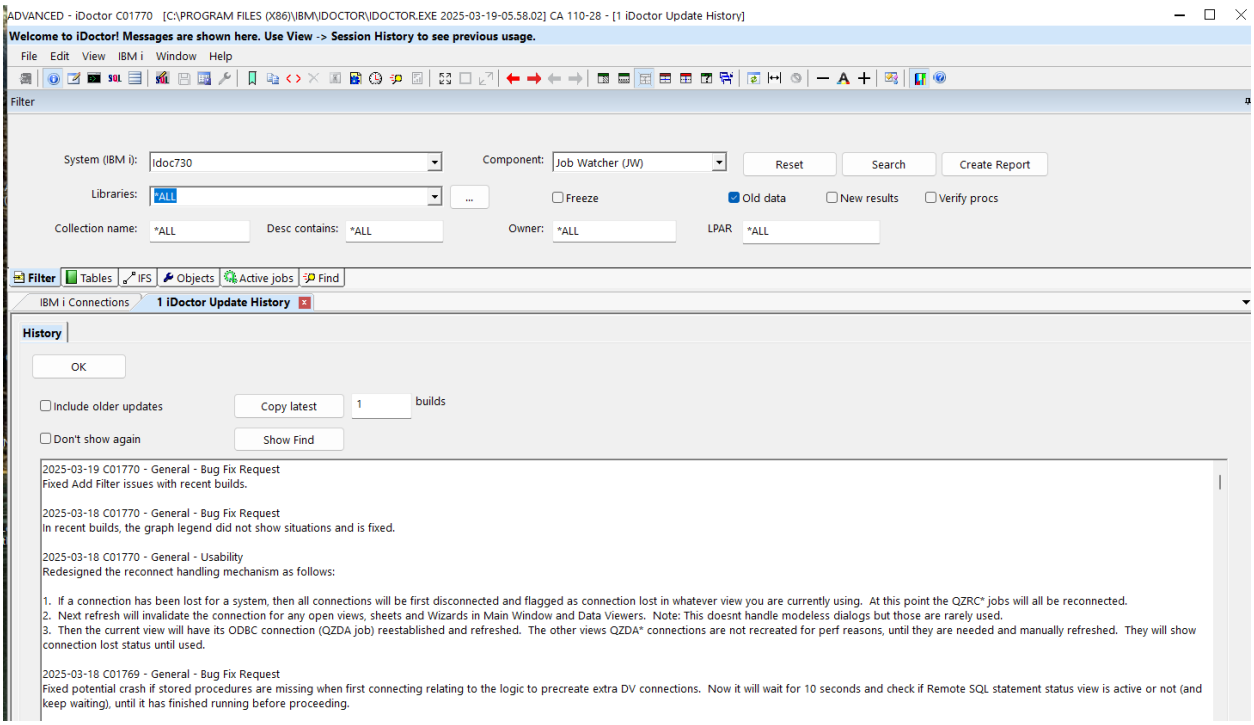
This document covers the iDoctor client and major common functions provided in all components.

1.1 Starting iDoctor

iDoctor may be launched in one of several ways:

1. Via the IBM iDoctor for IBM i desktop icon
2. Via the Window button in the task bar and type in iDoctor as a search value.
3. By passing an idoctor:// URL string to a web browser. To generate this string, look for a “Add Bookmark” button or menu where this option is available.

The iDoctor Main Window will initially show a list of recent changes made in the iDoctor Update History window.



Clicking X on this screen will show the screen to define your connections to the IBM i.
Right click in the IBM i Connections View and use the Add Connection menu to add a connection. All connections must be added via this interface. Connections created will then appear under the various Panes in the System drop-down list.

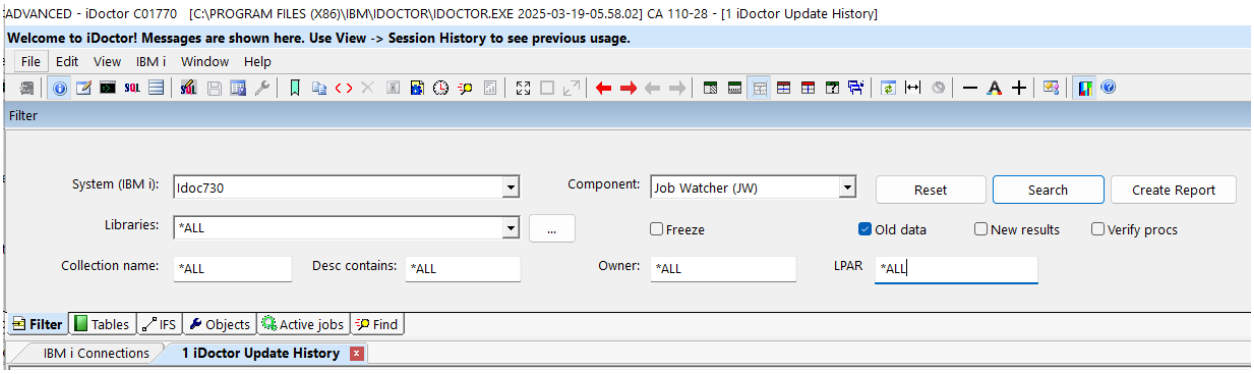
Tip: The data analysis functions of iDoctor can be accessed in 1 of 3 ways:

1) Filter Pane and picking the desired system/component.
2) iDoctor Components Window via the IBM i Connections view and double-clicking.
3) A bookmark

1.1.1 Via the Filter Pane

This is the interface near the top of the Main Window by default. Pick the desired system and component from the drop-down lists and click ‘Search’ to launch a component. To clear all filters, hit the ‘Reset’ button.

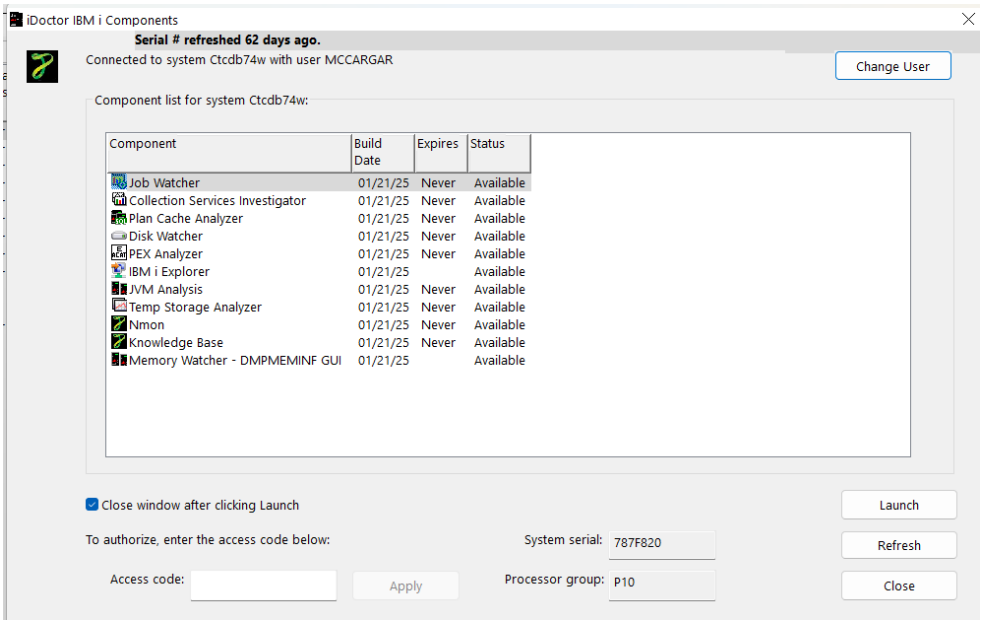
Note: This will only work if an access code has already been applied to the system. If not, then use the iDoctor Components Window instead and apply keys first.



1.1.2 Via the Components Window

From the IBM i Connections View, double-click a system to access this window.

It will show the list of components found and their status.



If the status indicates the component is not available due to a missing access code, you can enter the access code at the bottom of this window.

If the status message indicates the access code is not found or invalid, these are the possible reasons:

1. Serial number provided to IBM was incorrect.
2. The wrong OS level of the iDoctor server code is installed. This can happen (for example) if you have iDoctor 7.1 installed and then upgrade the system to 7.4 without also updating the iDoctor server code.
3. The access code entered was for the wrong component (you asked for PEX but really wanted Job Watcher)
4. Access code generation error (on IBM's side). This could be due to an administrative error, website problem, etc.
5. User spaces QZRD20 and QZRD21 in QGPL deleted or tampered with.

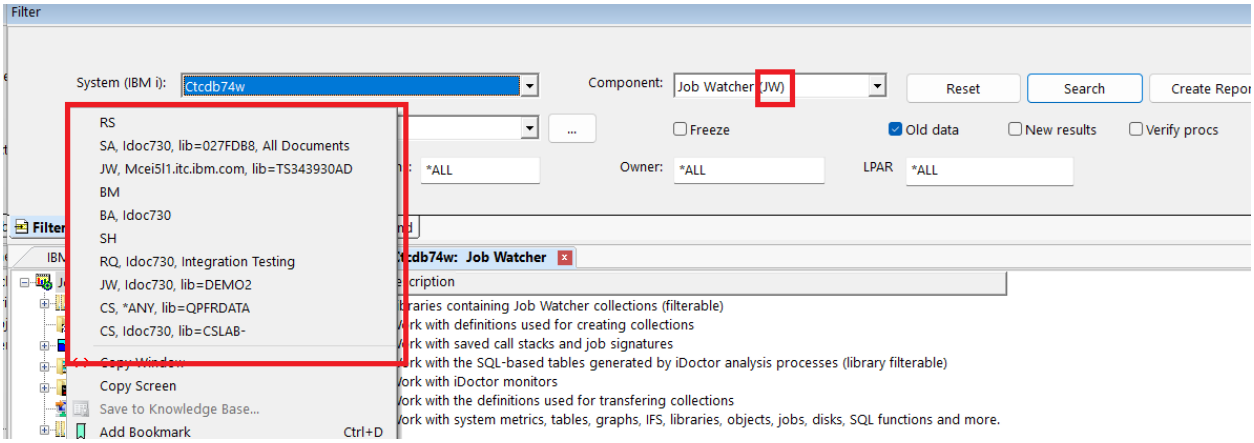
Note: If the iDoctor components window does not list the component as “Available” but lists a message about the client and server build levels not being up to date, you can still continue to launch the component anyway. But in this situation some functionality may not work correctly. If problems occur, then it’s typically recommended to download the latest version and install it on both client and server.

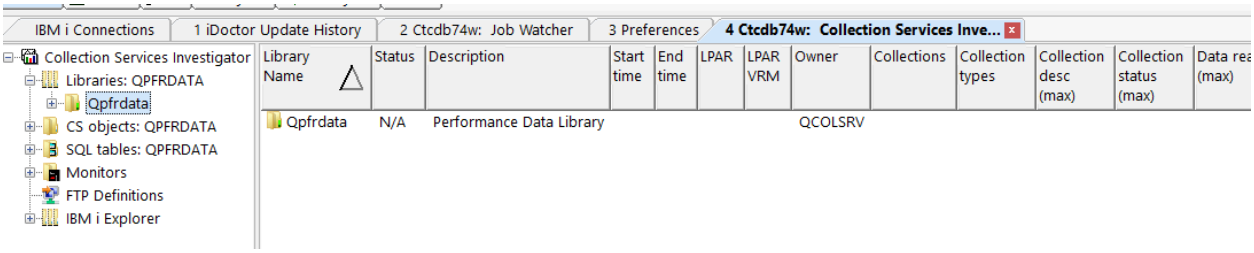
1.1.3 Via a bookmark

Bookmarks can be created for any Pane and most folders within the Component View interfaces. This saves whatever parameters you have defined so they can be used later.

Right-click a Pane and use Add Bookmark to create a new bookmark. Then right-click the Pane again and the bookmarks associated with that Pane will be listed near the top.

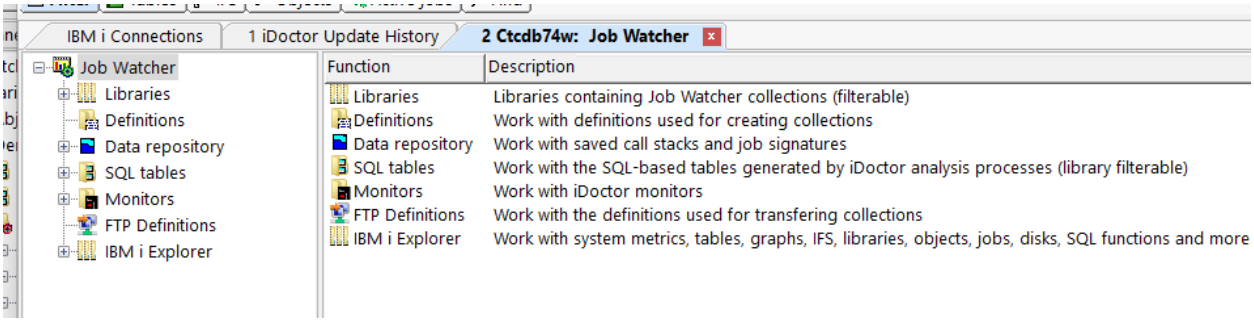
This example shows the bookmarks defined for the Filter pane. Just the 2-character component ID from the component drop down list is listed and then a description of what the bookmark is. For example, the bookmark ‘CS *ANY, LIB = QPFRDATA’ would allow quick access to the QPFRDATA library for Collection Services Investigator for the current system listed in the System drop-down list.





1.1.4 Component Views

Assuming the desired component is listed as “Available”, double-clicking on it will open the component view for it. Component views display all reporting options available for the desired system and component. Multiple component views may be in use within the same Main Window as desired. Using the Filter Pane is easiest to launch additional components or revisit the Connections View and double-click the desired system a second time.



Job Watcher component view example

1.2 iDoctor and Internet connectivity

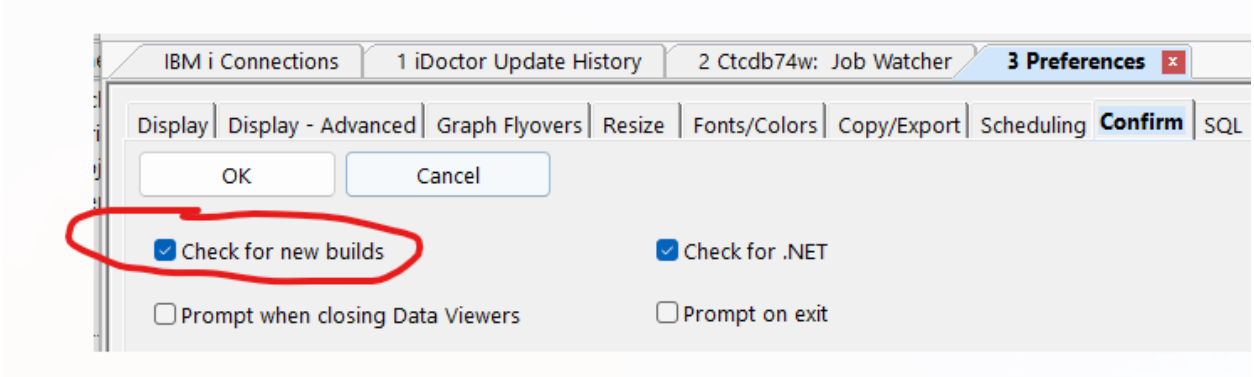
This section describes the functions performed behind the scenes at startup that require an Internet connection to be successful. If one is not available or blocked by a firewall on the PC, then these functions will NOT be performed.

1.2.1 Automatic client updates

When the iDoctor client starts, it will check if a newer client build is available. If one is available, you will be asked if it should be downloaded and installed.

By picking yes, the latest client will be downloaded, the current client will end, and the default web browser will be started to download the latest client update. After installation is complete, the iDoctor GUI will be launched again.

Note: This check can be disabled by going under Preferences -> Confirm and unchecking the 1st option shown.

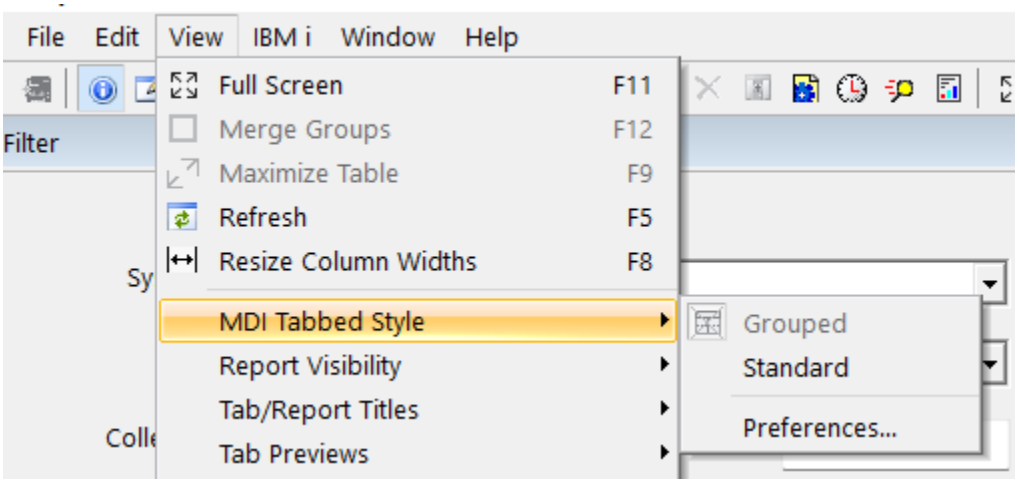


1.2.2 Automatic server PTF checking

When the iDoctor client starts, it will attempt to determine the latest required PTFs for the various performance components of IBM i, used by iDoctor. These PTF lists are stored on the iDoctor website's FTP server and downloaded to the PC. When PTFs are checked later when collections are started, the latest PTF lists will be used.

1.3 MDI Tabbed Style

The MDI Tabbed style option controls the look and behaviors of the interface for most of the GUI. You can change this under the View -> MDI Tabbed Style menu.



The options are:

1) Grouped – Multiple tabs can be grouped together to compare with another group of tabs.
2) Standard – Provides tabs and allows users to tile and cascade but you cannot create groups of MDI tabs to compare with other tabs.
3) Preferences – Use this interface to control options for these styles.

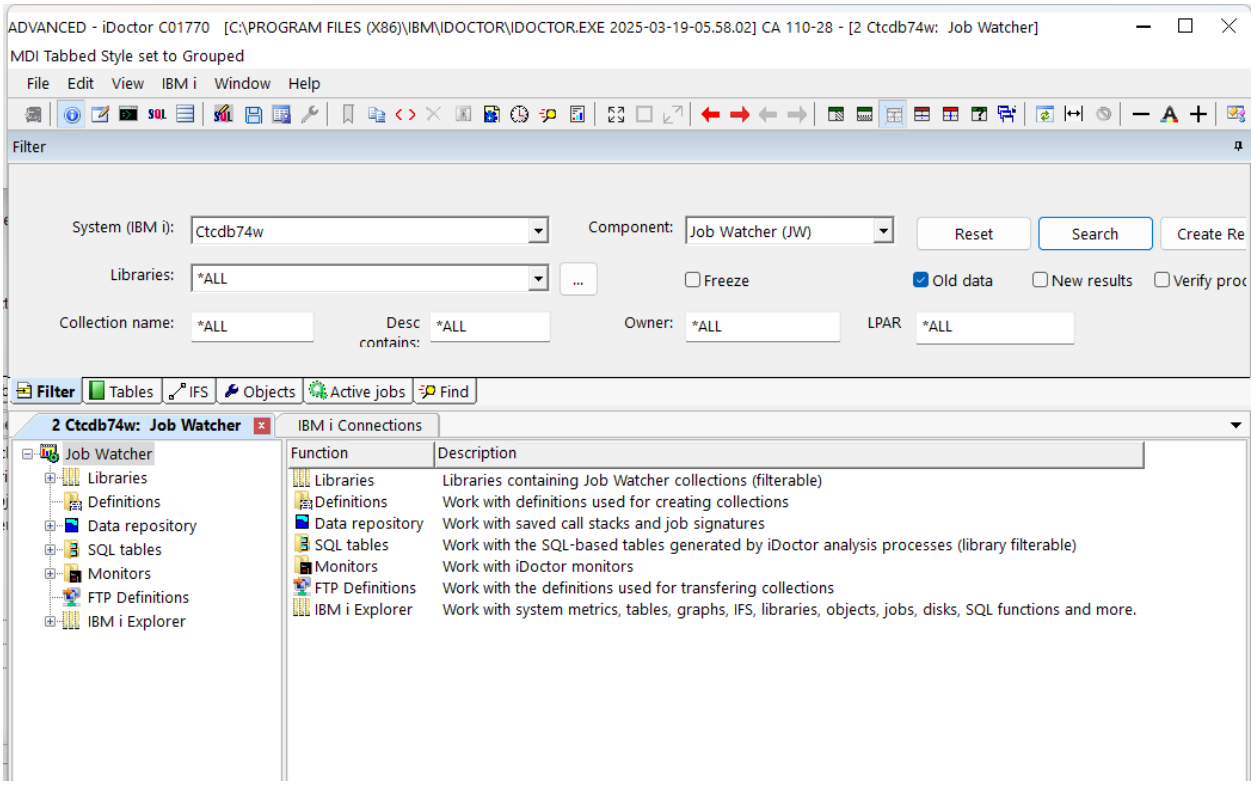
1.3.1 Grouped

The Grouped MDI style allows users to drag and drop tabs/views order in order to create 1 or more groups of tabs. This makes it relatively easy to make comparisons of 1 or more view(s) vs another set of views. **This setting is the default setting in iDoctor.**

To drag and drop a tab simply left click on a tab and hold the mouse down and move the mouse pointer to the desired part of the window to create a new tabbed group in (top, bottom, left or right.) Once in the correct location Windows will display a shaded rectangle around the area where the new tab will appear. At this point release the left mouse button and the tab will be moved to this location.

Note: Using the Tile or Cascade options will switch the mode to Standard.

An example is:



Main Window with the MDI Tabbed Style set to Grouped

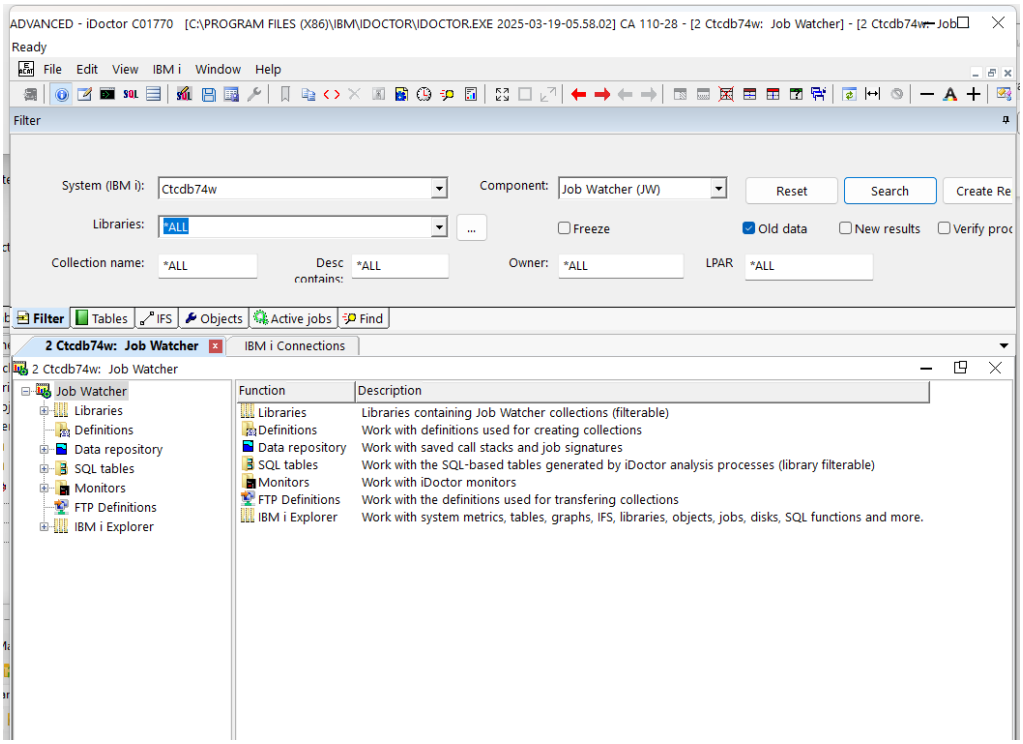
1.3.2 Standard

The Standard MDI style combines the benefits of using tabs with features like cascading and tiling. Each view / tab created will have its own minimize, maximize, close buttons and can be custom resized.

Multiple tabs cannot be grouped together with this mode. You can right-click on a tab to get additional options.

Tabs do not provide any drag /drop support.

An example is:

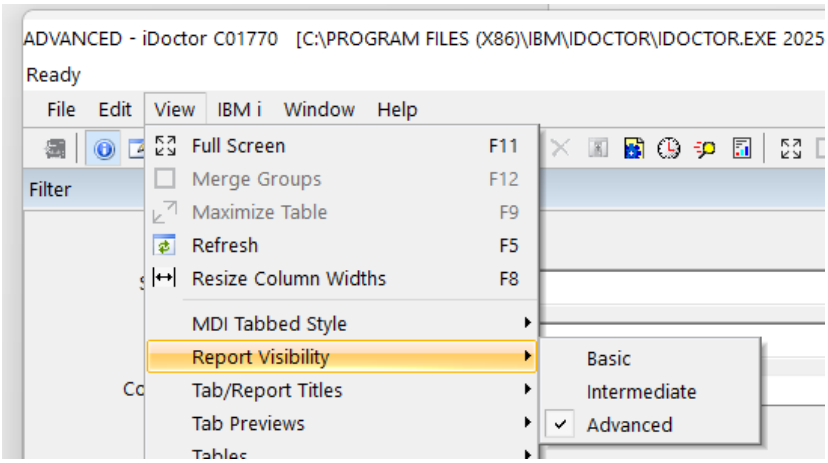


Main Window with the MDI Tabbed Style set to Standard

1.4 Report Visibility

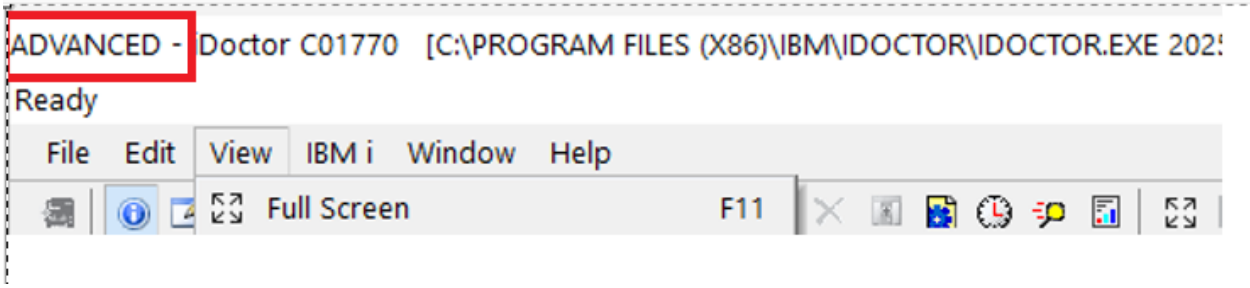
This option is used to control the level of detail shown in iDoctor in 3 ways: Basic, Detailed, Advanced.

You can set this using the View -> Report Visibility menu in both the Main Window and Data Viewer windows.



Basic mode will show the fewest reports and Advanced will show all reports.
For new users Intermediate is recommended.

Note: You can tell which mode is in use by looking at the first text in the title bar of the Main Window or Data Viewer.



If you cannot find a graph that another user can see, then the 1st thing to check is which report visibility mode you are using, and you may need to set this to Advanced to see the missing graph.

1.5 Collections database

The iDoctor collections database is built into the design of iDoctor and is used to improve performance in the GUI when listing the collections that exist on an IBM i. It supports the following types of data:

- PEX
- Job Watcher (JW)
- Collection Services (CSI)
- Disk Watcher (DW)

The database resides in these tables in QUSRSYS.

Table	Description
QAIDRLIBS	Collections cache list of libraries.
QAIDRCOLS	Collections cache list of collections.

These tables provide the ability to:

1. Drill down in the overview graphs in CSI or Job Watcher to drill down into another component's data for the same system in the same time period. This is typically used to drill down from CSI to Job Watcher and/or PEX.
2. Speeds up listing collections in libraries in iDoctor.
3. Identify libraries with "old" collections. Use Preferences -> Display -> Old at N months option to set what is considered old. The default is 1 year.

Note: These tables are cleared after a reinstallation of the server builds and it is recommended that they be rebuilt before using the GUI to analyze data. Right-click the component icon and choose **Collections database -> Refresh all** to do this.

Menu Options:

The following options are available under the Collections Database menu:

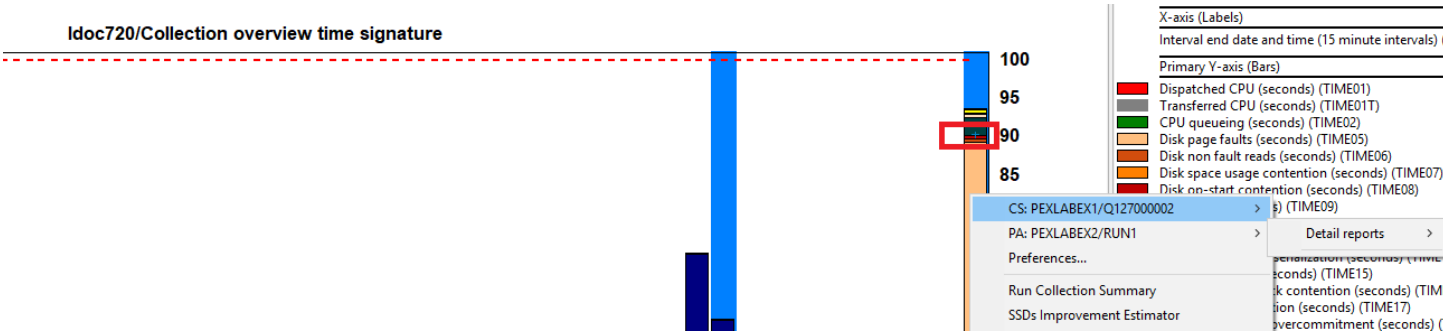
	Check for locks This opens the Object lock info Pane to check for any locks on the QAIDRCOLS table. If any user has a CSI/JW Collection overview time signature graph open a lock will exist and these graphs and/or jobs will need to be closed before using the Delete or Full rebuild options. Any locks are shown within the IBM i Explorer -> Work management -> Object lock info folder.
	Refresh all This will submit jobs to rebuild the collections database for all 4 components PEX, DW, JW and CSI. This requires a working FTP connection.
	Refresh This will submit a job to rebuild the collections database for the current component. This requires a working FTP connection.
	Schedule refresh This option allows you to schedule a daily refresh of the database.
	Full rebuild This option will delete and fully recreate the database. Use the Check for locks option before using this or it will likely fail.
	View libraries This opens the QUSRSYS/QAIDRLIBS table.
	View collections This opens the QUSRSYS/QAIDRCOLS table.
	Clear all Removes all records from the QAIDRLIBS and QAIDRCOLS tables.
	Clear Removes all collections from the QAIDRCOLS table for the current component only.
	Delete This will delete the QAIDRLIBS and QAIDRCOLS tables. Use Check for locks before using. If you use this option, you should do a full rebuild afterwards or most functions will no longer work correctly.
	Refresh CCA DB This refreshes the IBM i Collections Database built into the OS but not used by iDoctor for most things. It is used for functions like PDI. This DB is only used in iDoctor when listing the Collection Services Investigator – CS Objects folder.

1.5.1 Intra-component drill down support

Some overview graphs in Job Watcher and Collection Services Investigator use the Collections database to identify and drill into other types of data. If a drill down into another type of component is available a "widget" is shown on the graph which is special shape. Then the menu option will contain options for the

current component and an option for each available additional component you can drill into for this system and time period.

In the following example CSI graph the plus sign (within the red box) indicates a drill down into PEX Analyzer is available and the normal drill downs into CSI are available under the CS menu. The collection name for each is also listed in the menu.



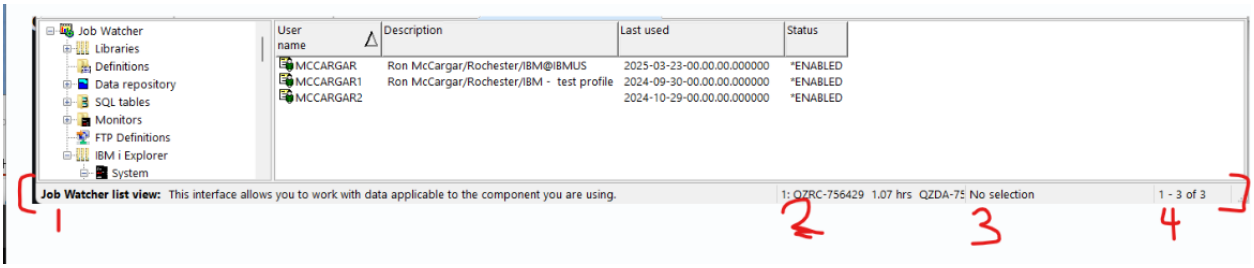
CSI Collection overview time signature showing intra-component drill down into PEX Analyzer.

1.6 Status Bar

The Status Bar in iDoctor is located at the bottom of the Main Window and Data Viewer windows.

It consists of 4 parts that provide information to the user about the current interface (last clicked or with mouse focus) which are:

1. Status Text This area contains a tip based on the current focus, folder, GUI control or active menu option.
2. Connection If applicable, this section will list the QZRC* and QZDA* job numbers and how long they have been idle.
3. Selection This shows the number of rows selected in a table or graph.
4. Row Position This section shows the current scroll position for a table or graph.



1.7 Bookmarks

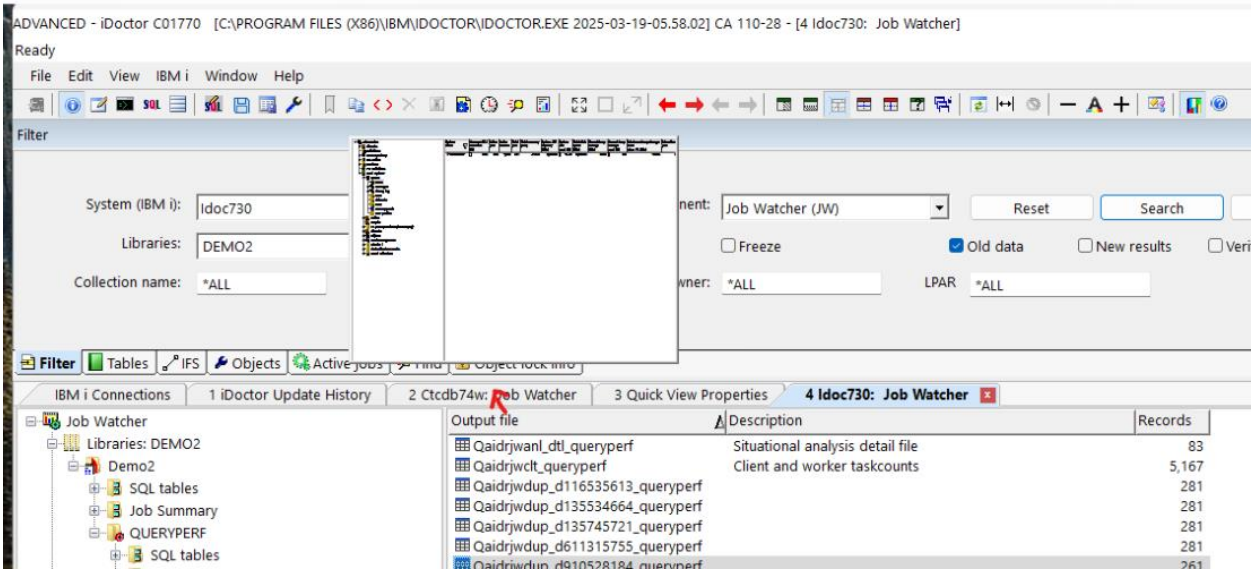
Bookmarks are shortcuts into the GUI for specific functions you wish to revisit later. Bookmarks can be created using the Add Bookmark toolbar button, menu or using the CTRL+D keyboard shortcut when the mouse is over a menu option that you wish to bookmark.

These are text files stored in iDoctor's %AppData% folder. The location for that folder can be found in the Help -> About window. Each text file contains an idoctor:// URL that contains parameters needed by iDoctor to perform the action. These can be copied and pasted into a web browser if desired and iDoctor will launch and execute the bookmark.

For more information see the documentation on Bookmarks.

1.8 Tab Previews

Tab previews are screenshots that appear when you place the mouse over a tab that is not currently active. This lets you know what exists behind that tab prior to clicking on it. These screenshots created by the Tab Preview support are also used by the Session History component.

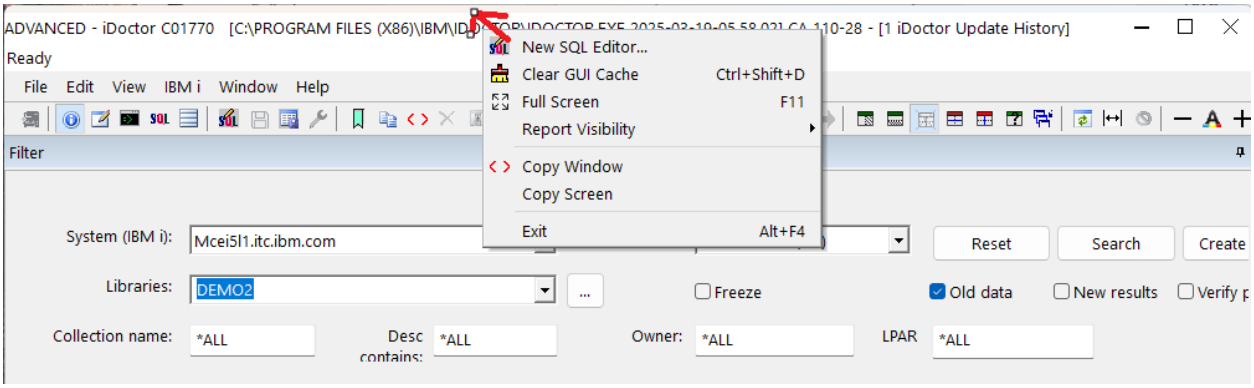


For more information see the Session History documentation.

1.9 Caption Bars

Caption bars exist at the top of most iDoctor windows,and can have special functions associated with them when right-clicking. The also typically provide normal Windows functions like Minimize, Maximize or Close.

For example, the Main Window Caption bar has these options found on a right-click:

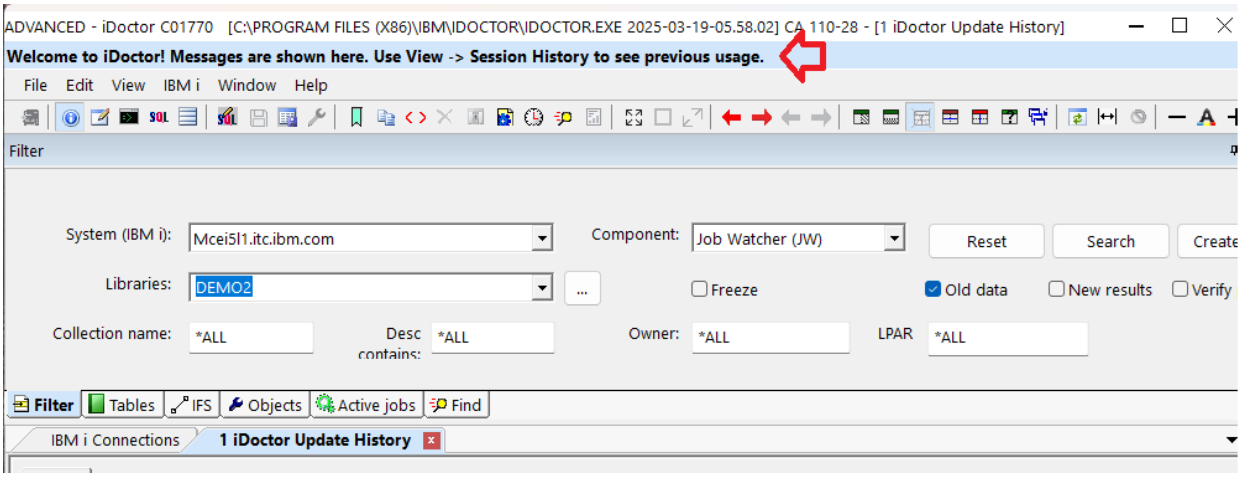


Double-clicking a caption bar will maximize the window (if allowed.) Doing this again will restore the previous window size and position.

Caption Bars also exist if using MDI Standard Mode for each view created or for popup Dialogs.

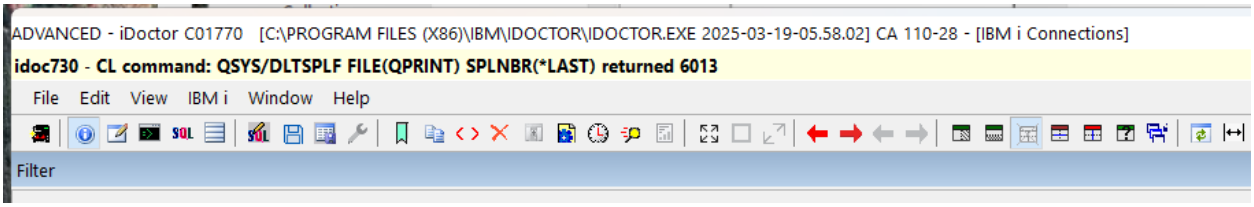
1.10 Message Bars

Most windows have a message bar in iDoctor to handle showing informational or error messages or ask questions of the user. Message Bars replace traditional Windows Message Boxes found in older versions of iDoctor and exist near the top of each window under the caption bar.

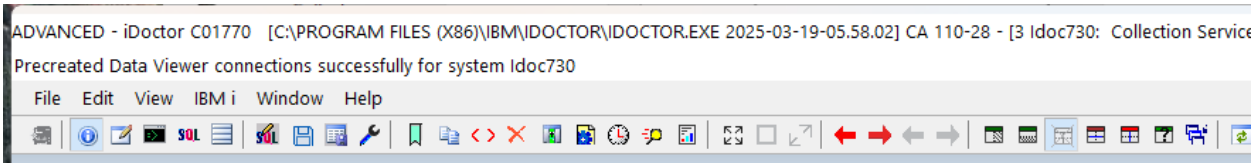


Main Window message bar showing a welcome message

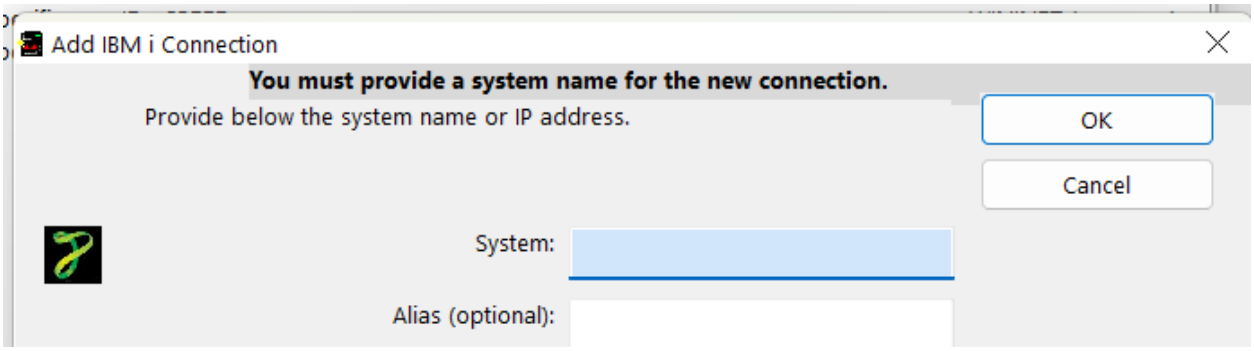
Message Bars also provides a place to show status of currently running operations. If the bar has a yellow background, then the GUI is busy running something.



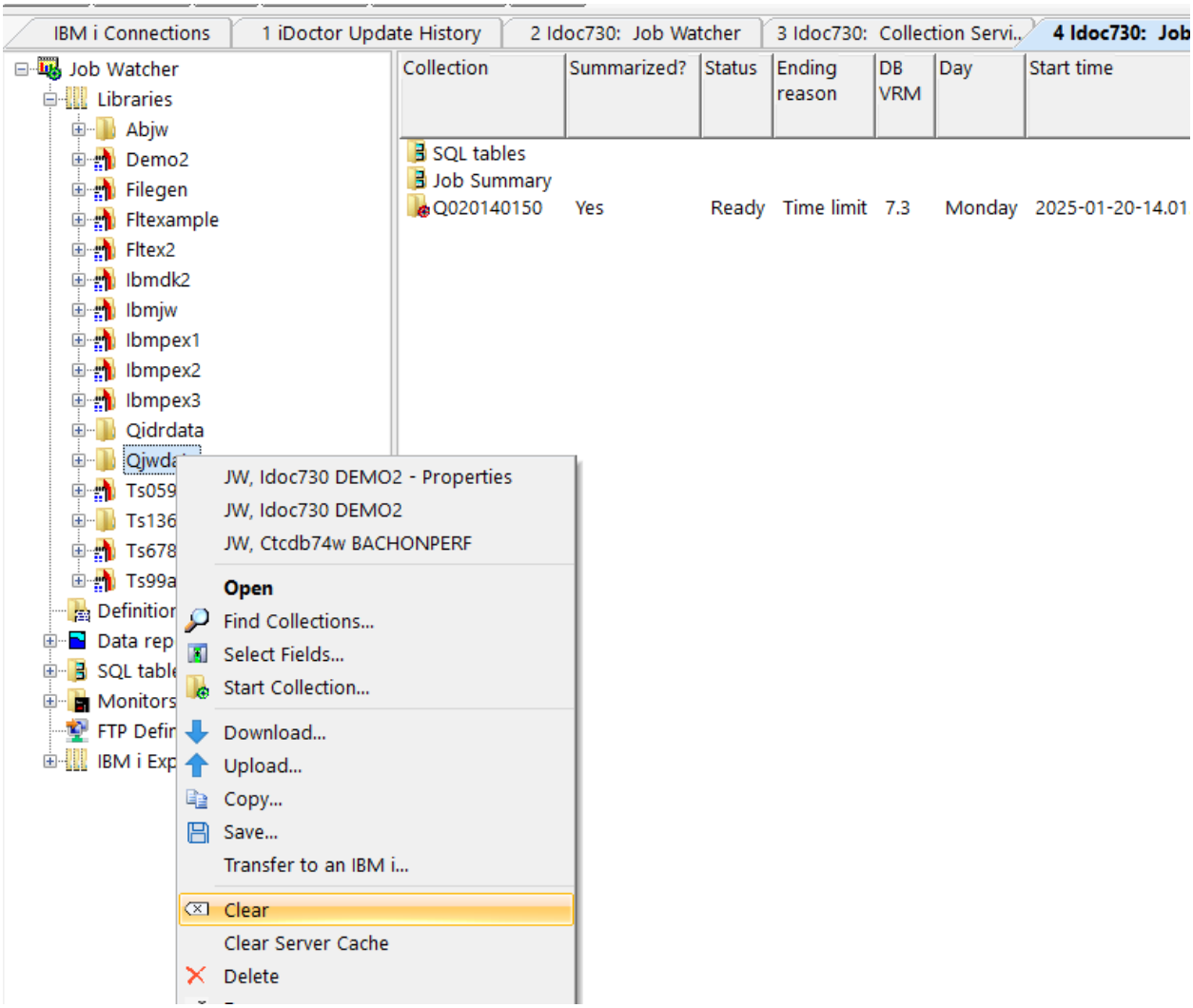
A light grey background is just an informational message.

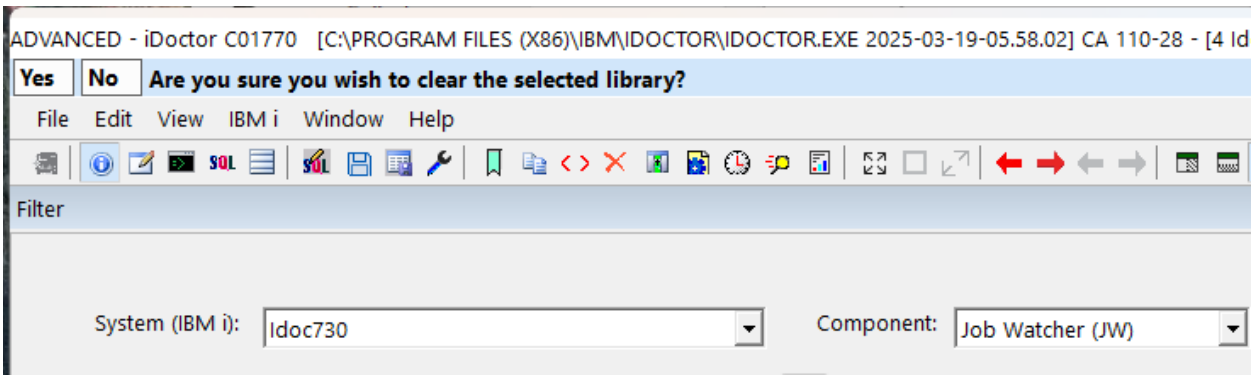


A dark-grey background with bold text indicates an error has occurred. In some cases, the control with the error may be highlighted as in this example:



An example of asking a question is shown below if the user tries to Clear a library in Job Watcher:





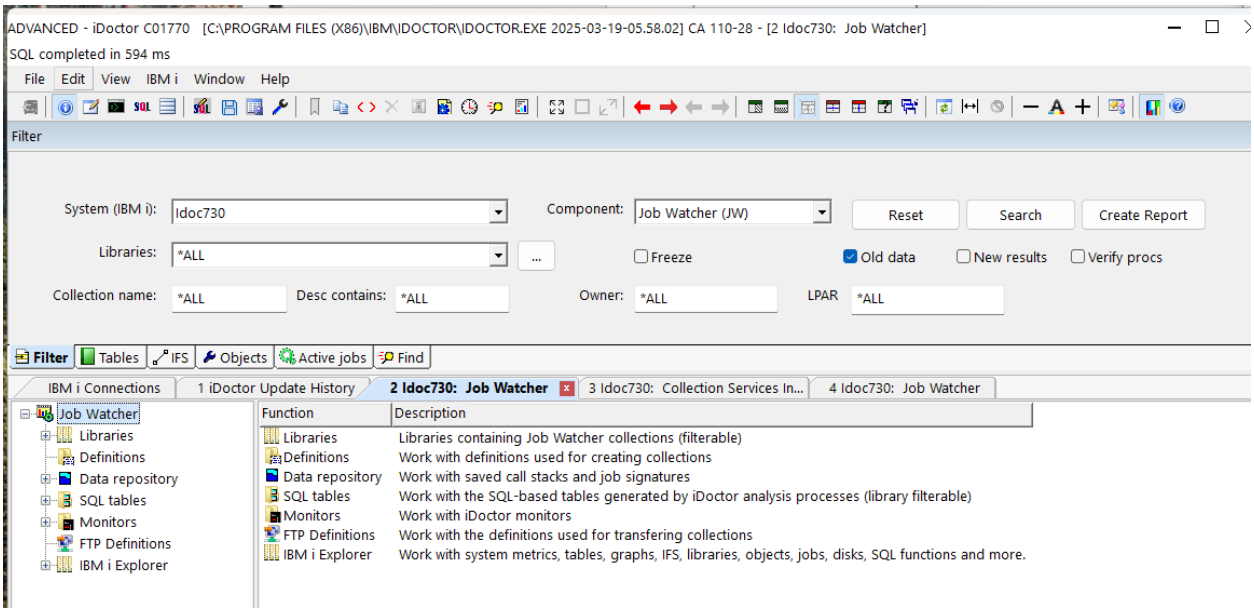
If the user does not click Yes, then the library will NOT be cleared. Doing anything else in the GUI will cancel the action.

2 The Main Window

The Main Window displays the various component views as well as some additional views such as the IBM i Connections View. Each of these views within the Main Window will be discussed in greater detail in the next sections.

The heart of the app is the interface shown below. All components are displayed within this GUI each within a separate "tree/list" view called Component Views.

Panes will optionally appear above these views and provide additional filtering or find type support to make locating something easier.



Main Window Example

2.1 Toolbar

This section covers the toolbar buttons shown in the Main Window.

The icon shown on the toolbar will match the same menu option in the Main Window menu (if one exists)

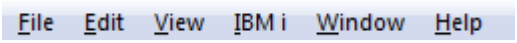
Note: Some options are only enabled depending on the current tab's status (with focus or last clicked on).

	**Add Connection** Opens the Add Connection window within the IBM i Connections View.
	**IBM i Connections** Shows or hides the IBM i Connections View.
	**Open Knowledge Base** This opens the Knowledge Base component on whatever system in the list of IBM I connections defined as the default system (with a checkmark icon next to it.)
	**Remote Command Status View** Shows or hides the Remote Command Status View. This view will show the status of CL commands and program calls running on behalf of the GUI's requests. File transfers are also shown here.
	**Remote SQL Statement Status View** Shows or hides the Remote SQL Statement Status View. This view will show the status of SQL statements running on behalf of the iDoctor GUI's requests.
	**iDoctor Messages** Shows or hide the iDoctor Message View. This provides debug information and is used primarily if problems occur and you need to provide more details back to iDoctor support.
	**New SQL Editor** Opens a new instance of an SQL Editor View.
	**Export** This allows you to save the contents of a table view to a file or a graph to as an image. Additional preferences related to this can be set under the File -> Copy/Export Options menu.
	**Save to Knowledge Base** This saves the current information shown on screen to the Knowledge Base.
	**Properties** Displays the property pages for the selected object (library, collection, etc)
	**Add Bookmark (CTRL+D)** Defines a bookmark and copies it to the clipboard. Press CTRL+D with a menu open to define one for a specific menu item. Use a web browser to revisit a bookmark later, or the Bookmarks pane
	**Copy (Ctrl+C)** Copy the selection and put it on the clipboard using HTML/TXT formats
	**Copy Window** Copy the current interface and put it on the clipboard using HTML/TXT formats.
	**Delete** Deletes the selected objects (connections, libraries, collections, etc)
	**Select Fields** Modify the visible fields in the list for the active list view.
	**Preferences** Displays the iDoctor Preferences interface.
	**Set default time grouping** Toggles the **default time grouping** shown on graphs. The iDoctor default value for this is Collected interval size. This setting is changeable in the Data Viewer after the graph is opened using the clock icon there. The larger the interval size, the smaller number of bars produced in the graph and the more time that can be shown on a single graph page. This applies to all components that show data over time. **Note:** If the data was collected at an interval size greater than the current default time range interval size specified, (such as 15-minute intervals in Collection Services) the data will be shown at the collected interval size since it cannot be broken down further.
	**Find (CTRL+F)** This opens the Find Pane to look for something in the currently active view.
	**Generate Reports** This opens the Generate Reports interface for the currently selected performance collection. This is used to build several graph/reports from the data at once and saving lists of reports into a reusable collection of favorites to be used repeatedly. Reports are saved to C\iDoctor\reports by

	default. These information will also be sent to the IFS by default but requires a working FTP connection.
	**Full Screen (F11)** This toggles the Full Screen function. If not currently Full screen then the window is maximized and the panes are auto hidden Clicking the button again will restore the previous state.
	**Merge Groups (F12)** For grouped MDI mode only, this will move all views into a single group (row) of tabs. If only 1 group exists, the option will be disabled.
	**Maximize Table (F9)** Maximize the list within the current interface hiding all other controls. If viewing a graph this will show the table behind and hides the graph.
	**Show previous tab (CTRL+SHIFT+TAB)** Go to the previous tab in the group.
	**Show next tab (CTRL+TAB)** Go to the next tab in the group.
	**Move to previous group (CTRL+SHIFT+P)** In grouped MDI mode, this option moves the current tab to the previous tab group. Only applies if more than 1 tab group exists.
	**Move to next group (CTRL+SHIFT+N)** In grouped MDI mode, this option moves the current tab to the next tab group. Only applies if more than 1 tab group exists.
	**New vertical tab group (CTRL+SHIFT+V)** In grouped MDI mode, moves the current tab to a new vertical group. Only available if only 1 tab group, or all tab groups are vertical.
	**New horizontal tab group (CTRL+SHIFT+B)** In grouped MDI mode, moves the current tab to a new horizontal group. Only available if only 1 tab group, or all tab groups are horizontal.
	**MDI Style Grouped** This mode allows you to move a view into a new group to make comparisons.
	**Tile Horizontally** Arrange windows as horizontal, non-overlapping tiles. Use Max Tabs to Tile to indicate how many to use. To control which tabs are tiled and their order, use the Window Manager instead. If in Grouped MDI, using this will automatically switch to Standard MDI mode.
	**Tile Vertically** Arrange windows as vertical, non-overlapping tiles. Use Max Tabs to Tile to indicate how many to use. To control which tabs are tiled and their order, use the Window Manager instead. If in Grouped MDI, using this will automatically switch to Standard MDI mode.
	**Max Tabs To Tile** This configures the maximum number of windows to tile when using the Tile Horizontally, Tile Vertically buttons.
	**Window Manager** This button will display the Window Manager which lets you work with a list of all tabs/views that are opened. This lets you find and activate the desired view/window or close one or more views quickly.
	**Refresh (F5)** This will refresh the selected folder or view. When working with Component Views, this refreshes the selected list view or selected branch in a tree. **Note:** This is not the same as refreshing everything on the screen. In some cases, you may need to click on the folder above the current one to refresh the desired objects.
	**Resize Column Widths (F8)** Resizes all column widths to match the longest text in either the contents or header.
	**Cancel SQL** Cancel the execution of an SQL statement. In some cases, this may take a while to complete. Fetching of data cannot be cancelled and this only applies to the execution of the SQL. Sometimes

	fetches can be slow.
	**Decrease font size (Ctrl+-)** This option reduces the font size by 1 and redraws all open interfaces.
	**Set Font** Displays the Set Font window which allows you to control the font used in iDoctor.
	**Increase font size (CTRL++)** This option increases the font size by 1 and redraws all open interfaces.
	**Data Viewer (Ctrl+N)** Opens an empty Data Viewer for the system you are currently working with.
	**Enable/disable Situations** This enables or disables the Situational Analysis background colors across all graphs/components that support it. This can be turned off per graph using the Graph Legend.
	**About** This option displays the properties for iDoctor. This button performs the same action as the Help -> About menu.

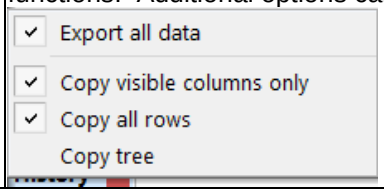
2.2 Menu Options



The tables below outline the different types of menu operations that may be performed within the Main Window of the iDoctor GUI.

2.2.1 File

	**Add Connection** Opens the Add Connection window within the IBM i Connections View.
	**New SQL Editor** Opens a new instance of an SQL Editor View.
	**Open Knowledge Base** This opens the Knowledge Base component on whatever system in the list of IBM I connections defined as the default system (with a checkmark icon next to it.)
	**Save to Knowledge Base** This saves the current information on screen to the Knowledge Base.

	Open Data Viewer (Ctrl+N) Opens an empty Data Viewer for the system you are currently working with.
	Open Table This option shows the Tables Pane which can be used to open tables on an IBM i.
	Export This option allows you to save the contents of a list view to a file. When using this option, the entire contents of the table are saved. You can choose between HTML, comma separated, and tab separated text formats.
	Export Selection The option allows you to save the **selected** contents within a list shown in the GUI to a file. When using this option only the selected records or block of cells are written to the file.
	Copy/Export Options This menu contains shortcuts to modify preferences relating to Copy to Clipboard and Export functions. Additional options can be found in the Preferences interface. 

	Close This will close the active view within the Main Window.
	Set User-Defined Reports Database This option allows a user to load/use another user's iDoctor user-defined reports/graphs that they have previously created. When saving user-defined reports these are saved into the specified database. This can either be an IBM i library or a local database on the PC (MDB file).
	Clear GUI Cache This option deletes most temporary data loaded in the GUI's memory. This includes things like table data cache, column orderings, reports and graph definitions, stored procedure information and more.

	Exit Closes the application. All open windows including Data Viewers will be closed.

2.2.2 Edit

	**Cut (CTRL+X)** In text editors that support this, removes the selected text and copies it to the clipboard
	**Copy Selection (CTRL+C)** Copies the current selection from the active view to the clipboard. This is only enabled when the active view is a list view or text in a textbox.
	**Copy Window** This copies the current window with focus to the clipboard in HTML and TXT (Tab-separated) formats. This can be pasted into some tools like Microsoft Outlook.
	Copy Screen This captures a screenshot of the current window and copies it to the clipboard.
	**Add Bookmark (CTRL+D)** Defines a Bookmark and copies it to the clipboard. Press CTRL+D with a menu open to define one for a specific menu item
	**Paste (CTRL+V)** In text editors that support this, inserts the text on the clipboard at the current cursor position.
	**Delete** Removes the selected object(s).

	Mouse-wheel scroll speed This lets you either open the Windows mouse settings, or you can override the horizontal or vertical scroll speed within just iDoctor by 1x, 2x, 3x, 4x, 5x or 10x. **Note:** The scroll speed overrides are disabled if you have selected to scroll "one screen at a time" in the Windows Mouse settings.

	Select all visible (CTRL+SHIFT+A) Select all visible bars or rows for the current view.
	**Select all (CTRL+A)** Select all bars or rows for the current view.

	**Find (CTRL+F)** This option displays the Find Pane which can be used to find something in the data or on screen.
	Find Next (F3) This positions to the next occurrence when using the Find Pane.
	Find Previous (SHIFT+F3) This positions to the previous occurrence when using the Find Pane.
	Replace (CTRL+H) This can be used to replace 1 or more occurrences of something in the current SQL editor with something else.

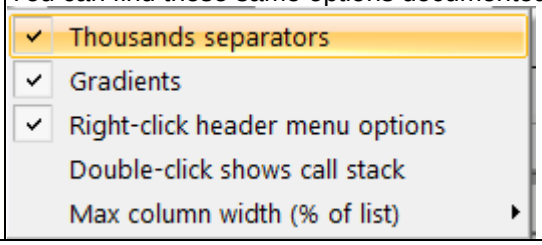
	**Cancel SQL** Cancel the execution of an SQL statement. In some cases, this may take a while to complete. Fetching of data cannot be cancelled and this only applies to the execution of the SQL. Sometimes fetches can be slow.

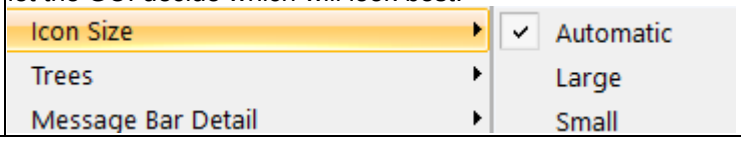
	**Set Font** Modifies the font used by the GUI.
	Reset Preferences This will delete all preferences from the Windows registry which will result in the default settings being used. Restart the GUI after using this for best results.
	**Preferences** This interface allows you to customize behaviors in iDoctor.
	Column Search This allows a user to search all of the iDoctor graph/report databases (.mdb files) at once for a specific column name in any of the reports.
	Migrate user-defined reports DB This is available to assist any long-time user migrate their user-defined iDoctor reports to the latest format. This only works if the file was created after November 2012.
	Restore Select Fields This resets all changes made in the Select Fields interface to the default settings.

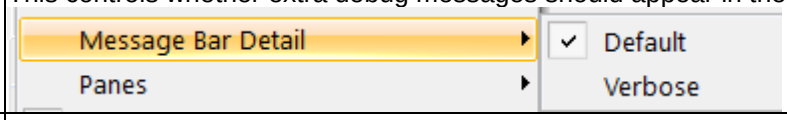
	Increase Windows GDI limit This allows a user to open more graphs (6X) than by default. **This is highly recommended.** As a work-around you can also try opening multiple instances of iDoctor. Not doing this, could result in crashing or cause the GUI to behave incorrectly.
	Restore Windows GDI limit This option resets the Windows GDI limit to the Windows default of 10,000.

2.2.3 View

	**Full Screen (F11)** This toggles the Full Screen function. If not currently Full screen then the window is maximized and the panes are auto hidden. Clicking the button again will restore the previous state.
	**Merge Groups (F12)** For grouped MDI mode only, this will move all views into a single group (row) of tabs. If only 1 group exists, the option will be disabled.
	**Maximize Table (F9)** Maximize the list within the current interface hiding all other controls. If viewing a graph this will show the table behind and hides the graph.
	**Refresh (F5)** This will refresh the selected folder or view. When working with Component Views, this refreshes the selected list view or selected branch in a tree. **Note:** This is not the same as refreshing everything on the screen. In some cases, you may need to click on the folder above the current one to refresh the desired objects.
	**Resize Column Widths (F8)** Resizes all column widths to match the longest text in either the contents or header.

	MDI Tabbed Style These options control the look and behaviors of the interface for most of the GUI.
	Report Visibility This controls the level of detail in the reports shown in 3 ways: Basic, Detailed, Advanced.
	Tab/Report Titles This allows customization of how tab or report titles appear. Does not apply to graph views.
	Tab Previews Use these settings to customize Tab Previews behavior.
	Tables This menu contains shortcut options to customize Preferences related to Table Views and Lists. You can find these same options documented under Preferences. 

	Graph Titles This allows customization of how graph titles appear and how many lines they use.
	Resize Controls These options allow customization of the Preferences related to resizing windows appropriately for the font size / and display currently being used.
	Record Quick View This shows the selected row(s) in a vertical listing.
	Icon Size This option controls whether large or small icons and toolbars should be used, or to automatically let the GUI decide which will look best. 

	Trees This allows customization of Preferences related to trees in the GUI.
	Message Bar Detail This controls whether extra debug messages should appear in the Message Bar or not. 
	Panes The Panes are the tabbed interfaces under the Toolbar in the Main Window and provide various usability functions. Selecting one from this list will load and show it.
	Toolbar This will either show or hide the tool bar.
	Status Bar This will either show or hide the status bar.

	Main Window Column Labels This indicates if the Column labels Preference should also apply to Component View column headings for folders built using SQL
	Names **Descriptions** **Descriptions (Names)** **Names - Descriptions** These are shortcuts for modifying the Preference -> Display -> Column labels setting. It controls how column headings should look for tables built from SQL statements.
	**Power Connections** This option no longer available
	**IBM i Connections** Shows or hides the IBM i Connections View.

	Session History This opens the Session History interface to view screenshots from previous iDoctor usage.
	Bookmarks Manager This interface is used to manage Bookmarks and control how they work.
	Remote Command Status Shows or hides the Remote Command Status View. This view will show the status of CL commands and program calls running on behalf of the GUI's requests. File transfers are also shown here.
	Remote SQL Statement Status Shows or hides the Remote SQL Statement Status View. This view will show the status of SQL statements running on behalf of the iDoctor GUI's requests.

	iDoctor Messages Shows or hide the iDoctor Message View. This provides debug information and is used primarily if problems occur and you need to provide more details back to iDoctor support.
	Connection Status Shows or hides the Connection Status View.
	Properties This displays the properties interface for the folder selected in the Component Views.

2.2.4 IBM i

	Tables Displays/hides the Tables Pane or use one of the options to preset the filters on the interface.
	IFS Displays/hides the IFS Pane.
	Objects Displays/hides the Objects Pane or use one of the options to preset the filters on the interface.
	Active jobs Displays/hides the Active Jobs Pane or use one of the options to preset the filters on the interface.

	Output queues Displays or hides the Output queues Pane.
	Spool files Displays/hides the Spool files Pane.
	Object lock info Displays/hides the Object lock info Pane or use one of the options to preset the filters on the interface.
	User profiles Displays/hides the User profiles Pane.

	Delete all Spool Files for current user This option will prompt you and then if confirmed, remove all spool files for the currently signed on user profile for the current system.

2.2.5 Window

	Cascade Repositions all windows so they overlap each other a bit like cards in Solitaire. This will switch to Standard MDI mode if using Grouped MDI.
	**Tile Horizontally** Arrange windows as horizontal, non-overlapping tiles. Use Max Tabs to Tile to indicate how many to use. To control which tabs are tiled and their order, use the Window Manager instead. If in Grouped MDI, using this will automatically switch to Standard MDI mode.
	**Tile Vertically** Arrange windows as vertical, non-overlapping tiles. Use Max Tabs to Tile to indicate how many to use. To control which tabs are tiled and their order, use the Window Manager instead. If in Grouped MDI, using this will automatically switch to Standard MDI mode.
	**Max Tabs To Tile** This configures the maximum number of windows to tile when using the Tile Horizontally, Tile Vertically buttons.
	**Window Manager** This button will display the Window Manager which lets you work with a list of all tabs/views that are opened. This lets you find and activate the desired view/window or close one or more views quickly.
	Close All This option will close all open tabs/views.

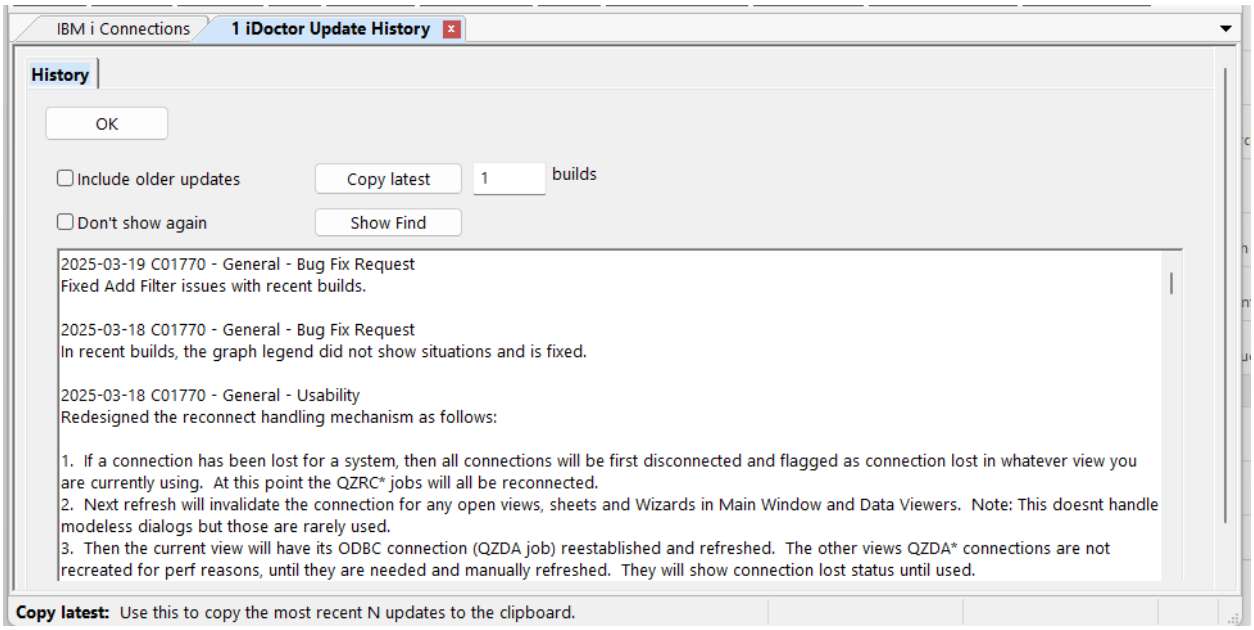
Note: The Window menu also dynamically contains a list of all open views within the Main Window for easy access to them. Clicking on a view name will take the user to it. Only the first 10 are shown.
If you need to work with more than 10, use the Windows Manager option.

2.2.6 Help

	Update History Shows the Update History window.
	Update Summary Opens the iDoctor Update Summary PDF document. This is a much-less verbose version of the Update History.
	FAQs This open the iDoctor Frequently Asked Questions document.
	iDoctor Videos Launches your web browser and takes you to iDoctor videos on IBM MediaCenter .
	IBM i Support Videos Launches your web browser and takes you to the IBM i Systems Support MediaCenter page
	Tips Additional PDF documents covering different topics are accessible under this menu.
	iDoctor website Launches your web browser and takes you to the iDoctor website.
	iDoctor downloads Launches your web browser and takes you to the iDoctor download page.
	iDoctor documentation Launches your web browser and takes you to the documentation.
	About iDoctor This displays version information for the iDoctor client.

2.3 Update History

This view is displayed when iDoctor is started by default to show recent changes.

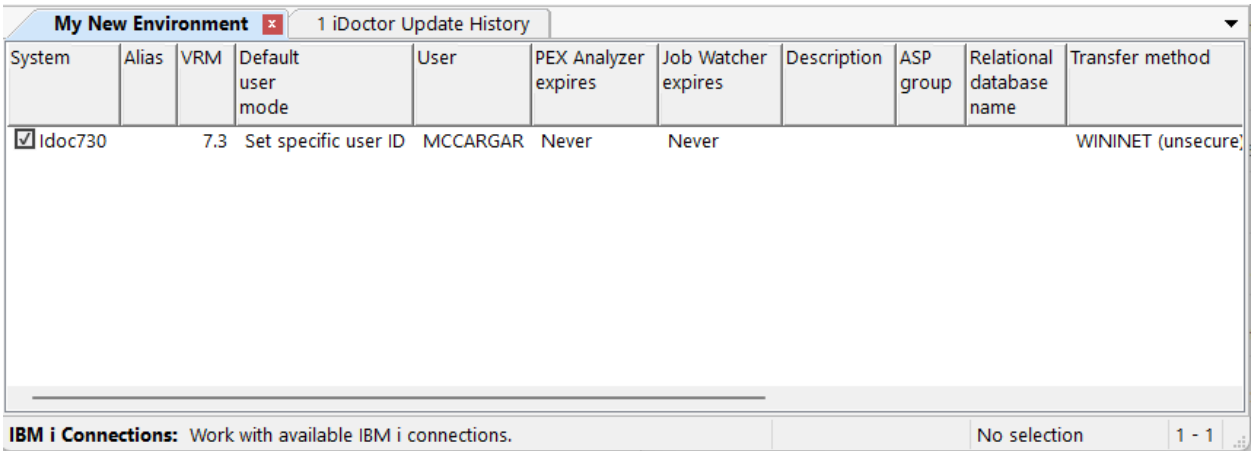


Click the ‘Show Find’ button to open the Find Pane if desired. Be sure to click within the multiline text box to tell the Find Pane to search that (instead of the rest of the interface)

2.4 IBM i Connections View

The IBM i Connections view allows you to work with all the connections defined to IBM i systems created via IBM i Access Client Solutions or iDoctor.

The list of connections shown is for the currently active “environment” and this environment name will match the tab’s name if this is not IBM i Connections. Each environment can contain 1 or more systems. You can change the currently active environment by right-clicking on the list and choosing the Change Environment... menu.



IBM i Connections – where the Environment name is “My New Environment”

Double-click a system to connect to it. Right-click a system and use Edit to change the settings for a system.

Note: All changes to the connections are reflected in the System lists shown elsewhere in the GUI, including the Panes.

Fields:

The list contains several columns. **NOTE:** All values shown are based on the last checked values and may not reflect current values. Some of the less obvious fields in the list are described below:

System System name or IP address. In some cases, you may need to fully qualify the name in order for it to be found.
Alias This is a shorthand reference to the system name which will be used in graph descriptions and tab names.
Default user mode This indicates how the username is determined when making connections. The possible values are: 1) Use Windows ID 2) Set specific user ID (indicated by the User column) 3) Prompt every time
ASP group The name of the IASP group to use when making the connection. This is a required field if you wish to work with libraries created on IASPs. The value given should match the value supplied after running the command: WRKDEVD DEVD(*ASP)

Relational database name The name of the relational database to use when making the connection to the system. This is primarily used when connecting to a system with an IASP (in the ODBC connection for the QZDASOINIT job). The value may or may not be same as the ASP group value depending on how the system is configured. The relational database name is listed in the Database component of IBM i Navigator.
Transfer method This indicates how files will be transferred to/from the system.
SSL Indicates if the ACS setting to use SSL on the connection is set. It does not apply to the Transfer method SSL option.
IP Address The last known IP address of the system. To update this right-click the list and use the Check -> IP Address popup menu.

Menu options:

	Connect Connects and opens the iDoctor Components Window.for the selected system.
	Terminal Sessions These options can be used to launch green screen sessions for the selected system using the 3rd party tool indicated.
	Enable SSH key-based authentication The GUI will attempt to setup SSH key-based authentication on this LPAR. It won't always work. See the FAQ section 2.13 for more information on what it does and additional resources for setting this up.
	Check These options are used to perform various actions against the selected system(s) like checking PTF levels or FTP settings. Where possible, the results may be shown in the Message Bar. - **Expiration Dates** This will check the dates the access codes expire on all selected systems then update the **PEX Analyzer access expires** and **Job Watcher access expires** columns in the list. The default signon is used to access each selected system. - **PTFs** This checks the required PTF levels for all performance related components on the desired system(s). The Performance Group PTF level will be checked as well as the required PTFs for Job Watcher, PEX, Collection Services and Disk Watcher. - **PTF Search** This option allows the user to type in a specific PTF name or a generic PTF name against a system to check the status of a PTF. This uses the QSYS2/PTF_INFO view. **Tip:** Enter a value of * to see a list of all PTFs. Only works against 1 system at a time. - **QMGTOOLs version** This option will determine the build date of QMGTOOLS for each of the selected systems. You will be prompted to signon for any system where this is necessary, and the password is not cached already in ACS. - **Cache battery status** This runs program QSMBTTCC to check cache battery status on the selected system(s). - **Transfer Methods** This will test each type of possible transfer method (FTP/SSH) connection method for the selected system and shows the results. **Note:** This may result in a command prompt asking for a password if SSH is not setup with password-less authentication.

	Set default user mode Use this option to more quickly set the **default user mode** to a specific user id of your choice on all systems or only the selected systems.
	Set as default system This sets the desired LPAR to be the default one in Access Client Solutions. This system will be shown with a checkbox icon in this interface. This means this system is the Knowledge Base system used by the GUI.
	**Add Connection** Opens the Add Connection window within the IBM i Connections View.
	Apply Keys This option is used to apply access codes to one or more LPARs using the email sent by the iDoctor team.

	**Delete** Remove the selected connections
	Edit Opens the Add Connection window within the IBM i Connections View for the selected connection.
	Change Password Use this option to modify your password.
	Password Cache These options control whether iDoctor will use ACS's password cache and allow for it to be cleared or all systems or the selected system.

	Open IBM Navigator for i This opens the IBM Navigator for I in the default web browser for the current system.
	Open Web Administration This opens the Web Administration interface in the default web browser for the current system.
	Open Digital Certificate Manager This opens the Digital Certificate Manager web page for the current system.
	Download Certificates This launches the cwbcossl ACS tool for downloading certificates from the current system to the PC.

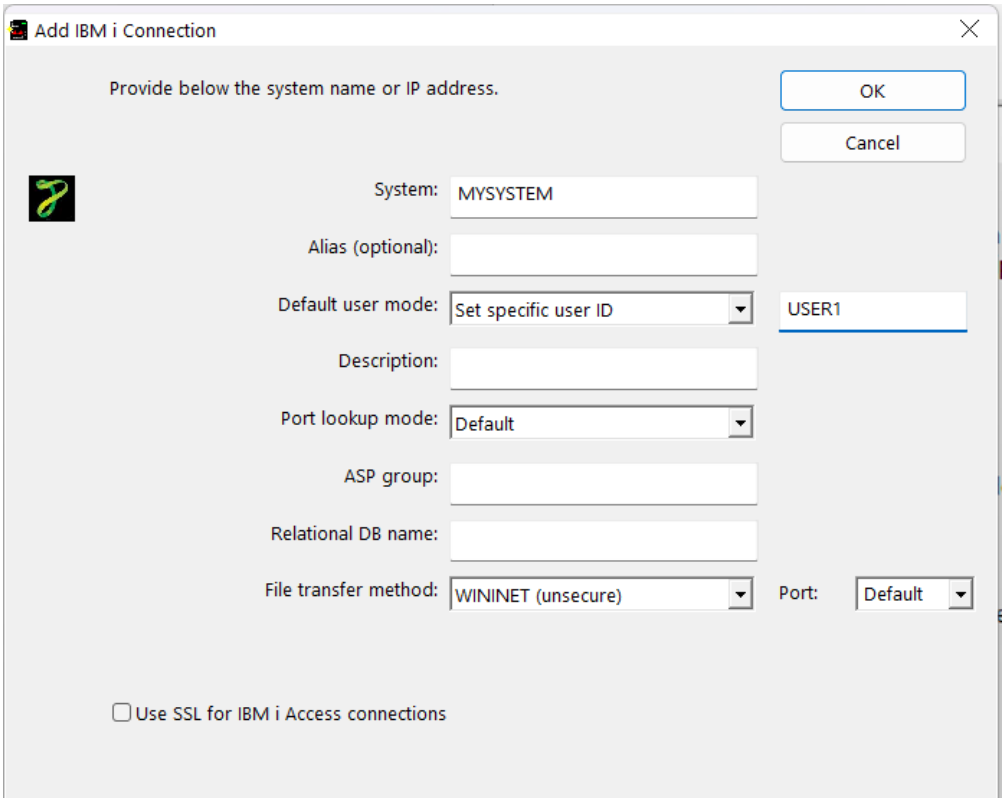
	Export Connections Use this option to create a Windows registry file that contains a list of all your IBM I connections. This file can be used to restore your connections later, or move them to another PC.
	Export GUI Preferences This creates a Windows registry file that contains all iDoctor preferences (except for your connections).
	Uninstall iDoctor This option removes all iDoctor program libraries and related objects on the system. After running this option, you can view the results (job log) from the Remote Command Status View. If you wish to run this process outside of the GUI then execute the following commands: CRTDUPOBJ OBJ(QIDRUNINST) FROMLIB(QIDRGUI) OBJTYPE(*PGM) TOLIB(QTEMP) CALL PGM(QTEMP/QIDRUNINST) **Note:** No performance data created by iDoctor is deleted using this option. If this is desired, delete the desired performance data from the system first before uninstalling iDoctor. Also, it is normal for some objects to be missing and show errors during the uninstall process. If you encounter objects created by iDoctor but not removed, you can report this to idoctor@us.ibm.com so we can update this program appropriately.
	Change Environment A connection environment is a set of 1 or more connections which can be defined in both iDoctor and ACS. By changing your connection environments the IBM i Connections view will update to show the connections within that environment. You can also define new connection environments or delete one within this interface.

2.4.1 Add/Edit IBM i Connection

This window allows a user to add or edit a connection.

Provide the system name or IP address, the default user mode and user ID if applicable, an optional description and click OK to register the system on your PC and add it to the list of IBM i Connections.

An example of this interface is:



	System System name or IP address. In some cases, you may need to fully qualify the name for it to be found.
	Alias This is a shorthand reference to the system name which will be used in graph descriptions and tab names.
	Default user mode This indicates how the username is determined when making connections. The possible values are: 1) Use Windows ID 2) Set specific user ID (indicated by the User column) Prompt every time

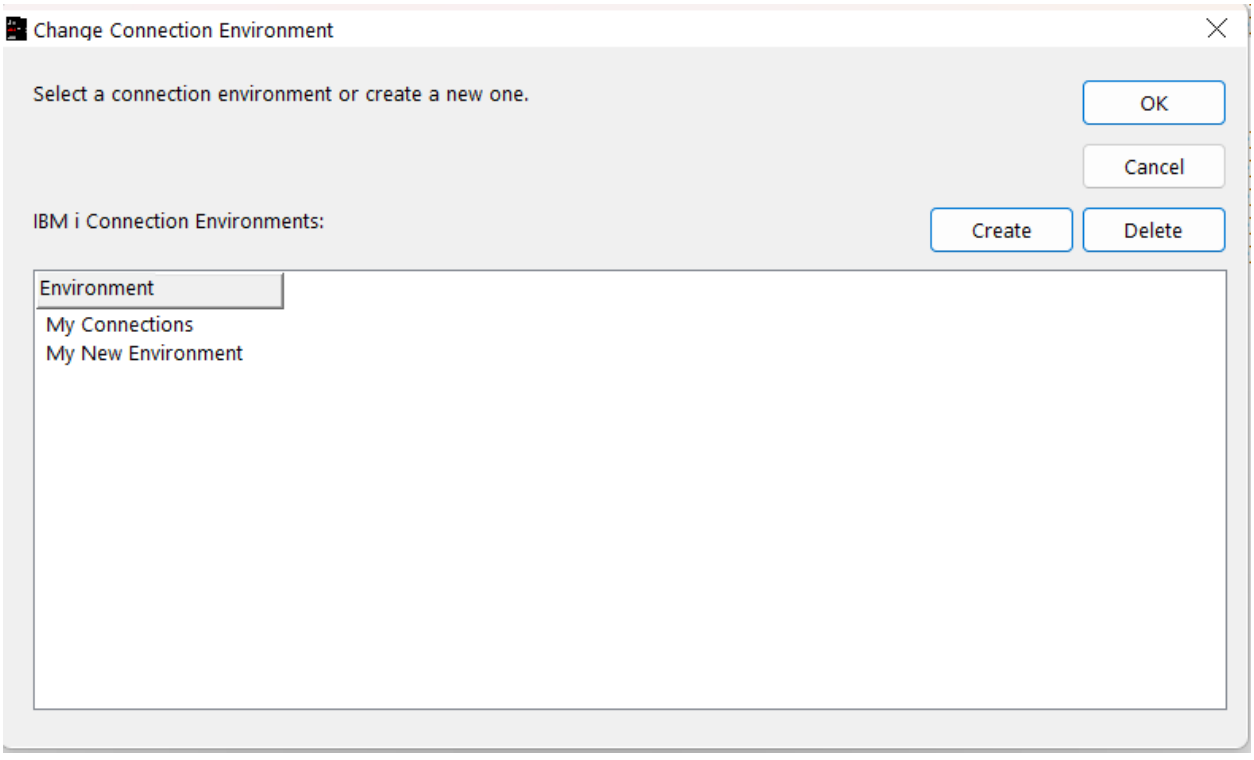
	Description Optional text to associate with this system.
	Port lookup mode This determines how the host server port lookup will be done. See the cwbCO_SetPortLookupMode API documentation for more information.
	ASP group The name of the IASP group to use when making the connection. This is a required field if you wish to work with libraries created on IASPs. The value given should match the value supplied after running the command: WRKDEVD DEVD(*ASP)

	Relational DB name The name of the relational database to use when making the connection to the system. This is primarily used when connecting to a system with an IASP (in the ODBC connection for the QZDASOINIT job). The value may or may not be same as the ASP group value depending on how the system is configured. The relational database name is listed in the Database component of IBM i Navigator.
	File transfer method This option lets you pick which method is preferred when connecting to this system for the purpose of sending or receiving files. The choices are: - WININET - This is an unsecure FTP connection, but the fastest option. - SSL (passive) - This is recommended if needing a secure connection. Use the SSL protocol Tls12 value in most cases. - SSL (active) - This option has not been well tested. - SSH (using Windows SSH support) - This option has not been well tested. - DISABLED (If you want to be sure no FTP connections are attempted but certain functions will fail however with this set.) The Port value defaults to 0 but this just means the default port for the type of connection will be used. For example, the default port for WININET is 21, SSL (passive) is 990, etc.
☐	**Use SSL for IBM i Access connections** Indicates if the ACS setting to use SSL on the connection is set. It does not apply to the Transfer method SSL option. **Note:** If you need help with configuring this properly you will need to work with ACS support and not iDoctor support.

2.4.2 Change Environment

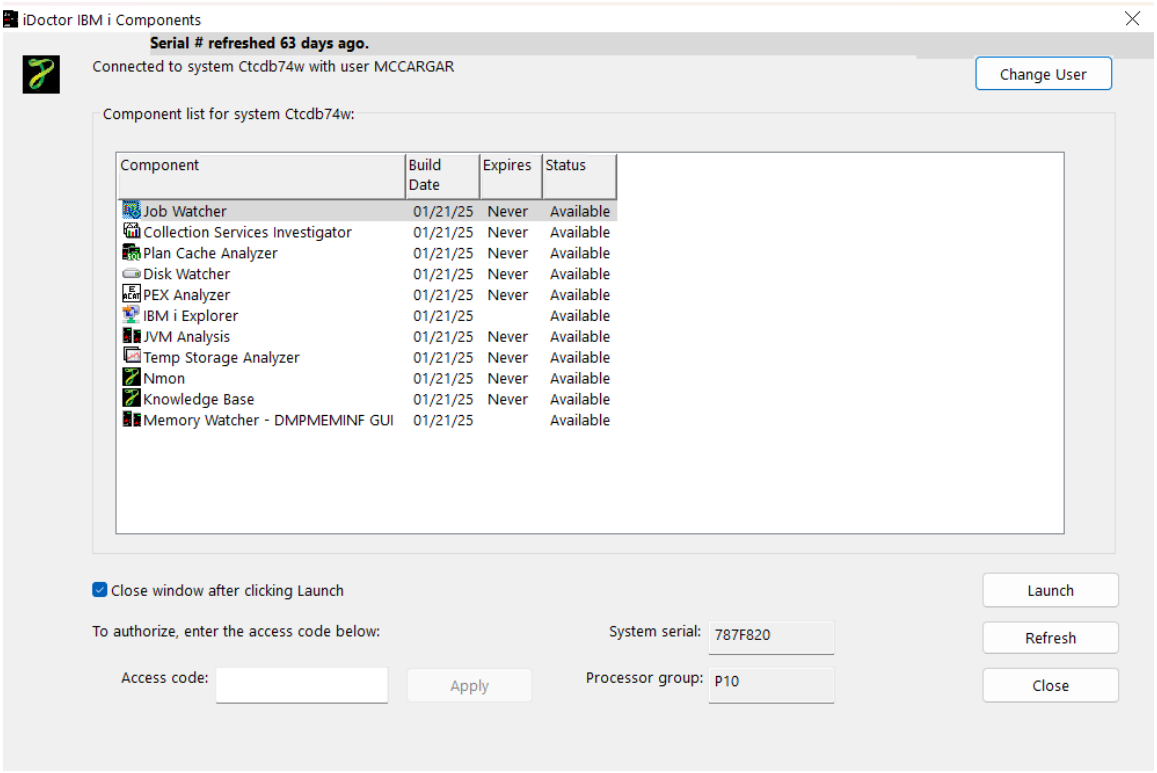
This interface is used to modify the environment used in the IBM I Connections View.

An environment is just a list of connections previously defined by either ACS or iDoctor. Click the Create button to define a new environment.



2.5 iDoctor IBM i Components Window

The components window provides the status of the iDoctor components installed on the system selected from the IBM i Connections View.



This window allows a user to launch a component, change the user signed on to the system or apply an access code. After applying an access code, the component list will refresh to indicate any changes in status (i.e. Not Authorized -> Available)

Note on applying accessing codes: The serial number listed here is for your convenience and verification. If the system serial number has changed, use the “Refresh” button to update the value shown. This button will also refresh the processor group value shown from its last retrieved value.

OK	**Change User** This button will disconnect the current user from this system and log on as a different user. The currently logged on user is listed to the left of this button in label.
	Component list The list of iDoctor components found on the current system. Some components like Collection Services Investigator may not appear without a required Job Watcher access code.
	Access code The access code can be entered into this box and then press the Apply button to have it take effect. Do not copy the serial number into this box. You should immediately see the status and expiration date change for the component(s) the access code applies to. **Note:** The Access code will only be correct and work if the system serial number supplied to IBM is correct and the appropriate release of iDoctor on the server is installed and it must match the OS (IBM i) release.
	System serial This value is the result given by the DSPSYSVAL QSRLNBR command. On IBM i cloud systems this is the virtual serial number (VSN). In that case, 2 serial numbers are listed. The 1st is the physical serial number and the second is the (VSN).
	Processor group This indicates the size of the system. You can determine this using the WRKLICINF command.
OK	**Launch** Opens the selected component(s)
OK	**Refresh** Checks and updates the system serial number if it has changed.

2.6 Panes

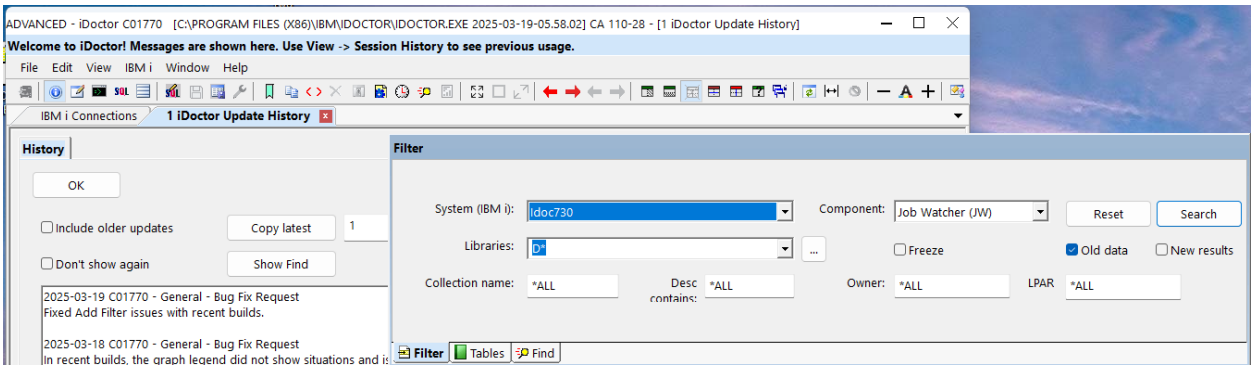
This section describes the Panes found in the Main Window. In some cases, these also exist in the Data Viewer.

Tip: Use Preferences -> Display – Advanced to control which Panes appear at startup.

The following Panes are always created when the GUI starts in the Main Window and cannot be disabled. **Filter, Tables, and Find**. By default, **Objects** and **IFS** Panes are also created.

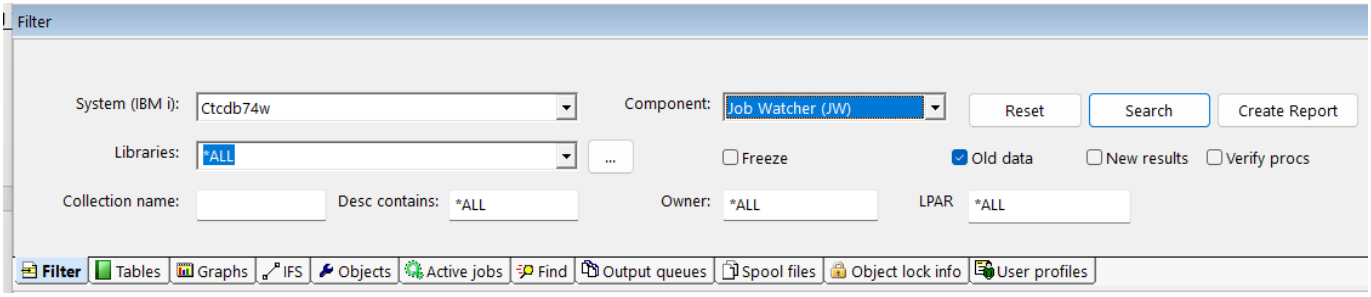
Tip: Panes have an Auto-hide pin  feature in the top right-corner. Click it will active it and again will disable it.

Panes can be moved outside of the iDoctor Main Window by double-clicking the caption bar, or click and drag.



2.6.1 Filter Pane

This interface is used throughout iDoctor to filter the data shown in the various components. It is always created when the GUI starts. The most common use is to filter libraries in Job Watcher or Collection Services Investigator. However, each component typically will have its own type of filter and the options that appear on this screen varies based on the component selected.



Tip: All values will accept blank as an alternative to using *ALL or use the Reset button to clear all filters.

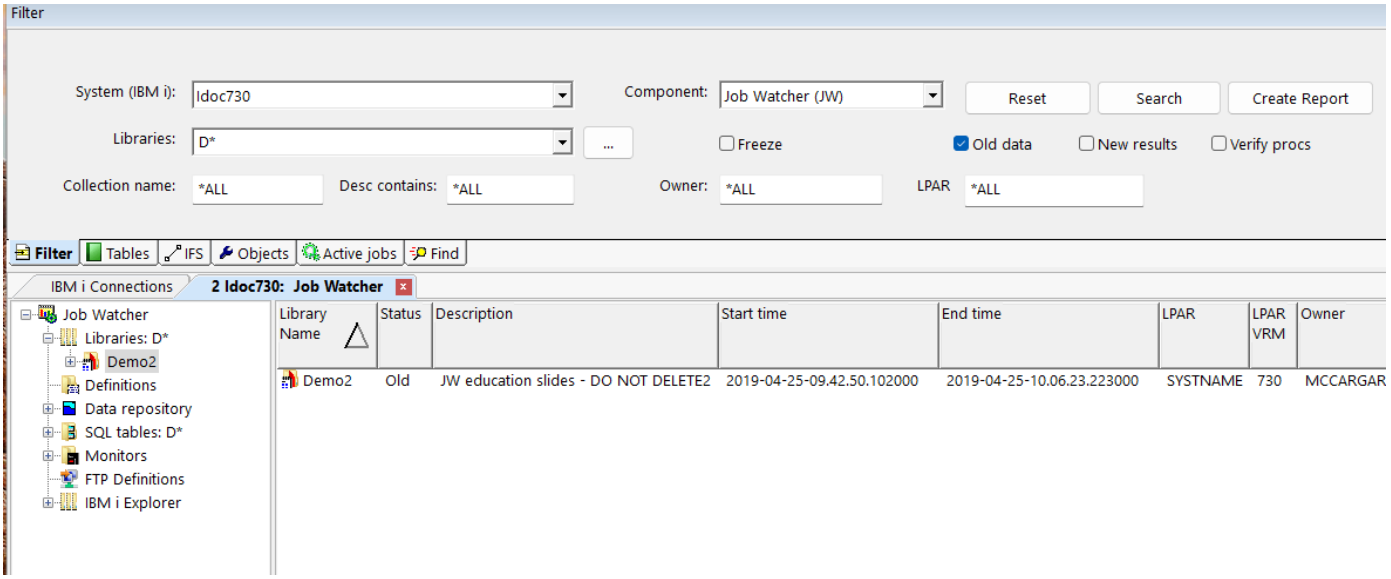
This describes the interface if using a component that shows data within Libraries (like Job Watcher). Some components do not support all options.

	**System (IBM i)** This is the system you are currently working with. You can change this value to another, but then a new results view will need to be used when pressing Search. **Tip:** Clicking on another view will automatically change the system to match the system you clicked on. You can also do this when clicking system names in the IBM i Connections View.
	**Component** The iDoctor component name is listed here with the component ID after each. Changing this will modify the controls shown on this screen appropriate for the component you are working with in order to perform filtering.
	**Reset** This restores all parameters back to the defaults and performs a search.
	**Search** This performs a search and updates the results. Pressing the enter key will do this too.
	**Create Report** This option builds a table view showing the results generated from doing the search.

	**Libraries** Use blank to show all libraries or a single or generic library name. You may also use multiple values separated by commas.
	**[…] button** This is used to browse the libraries on the system based on the filter provided.
	**Freeze** Check this option to not update the filter based on previous values used or by clicking other views.
	**Old data** Uncheck this option to exclude libraries with old data (by default this is 12 months or older). This requires that the Collections Database has been refreshed.
	**New results** If checked, this will create a new results view rather than reusing the current existing one (if applicable.)
	**Verify procs** Check this option to validate that required stored procedures exist. After installing new GUI builds this may be temporarily required to avoid issues. Leaving this unchecked will improve performance.

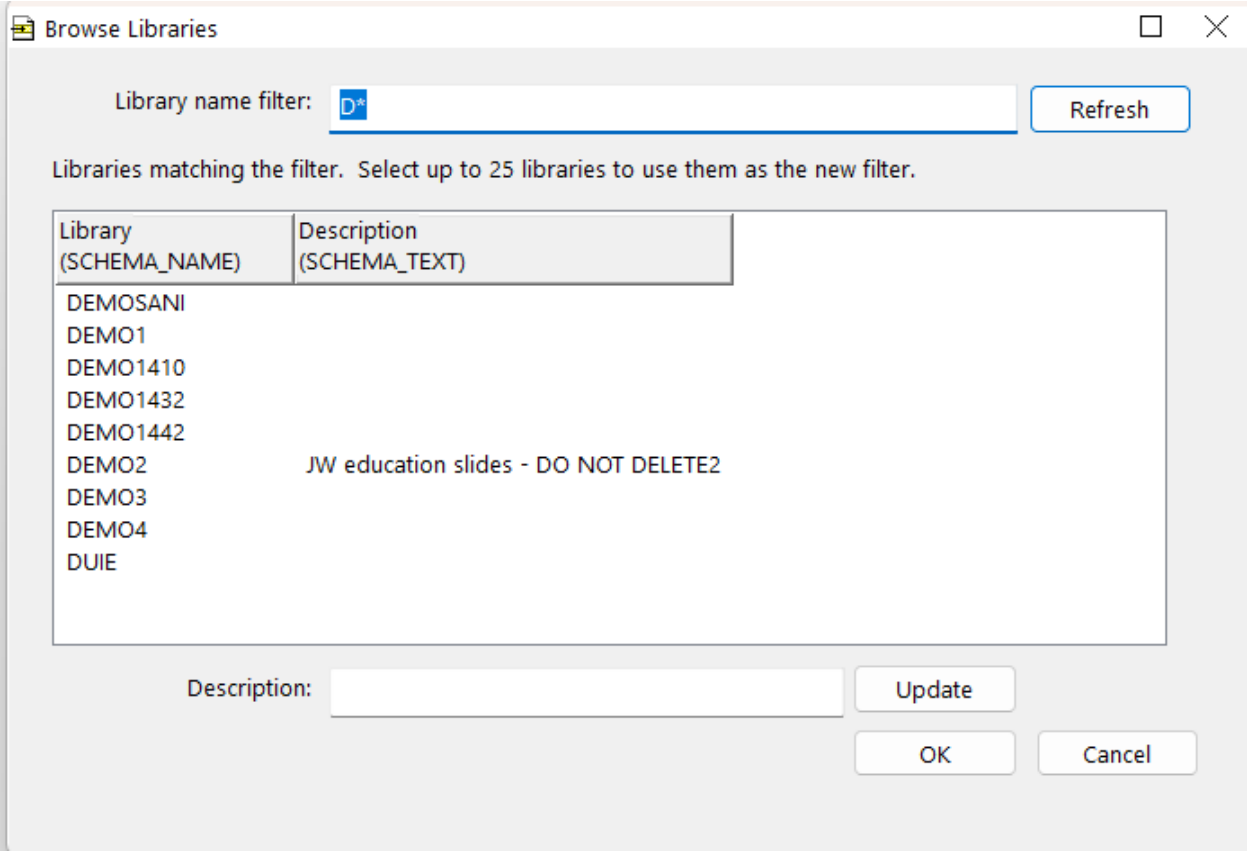
	Collection name If used, then only libraries that contain a collection with the given name filter is included. The Collections Database must be refreshed.
	Desc contains This shows libraries with a library description containing the character string provided.
	Owner This shows libraries containing collections owned by the specified user profile. This can be blank (or *ALL), a single name, or a single generic name.
	LPAR This shows libraries on the system with data created on the specified partition. This can be blank (or *ALL), a single name, or a single generic name.

This most common use in this interface is to provide a generic library name which filters the list of libraries shown in a component like Job Watcher.



2.6.1.1 […] - Browse Libraries

This window shows all libraries matching the libraries filter provided on the pane. This may include libraries that do not have any data for the component you are working with.

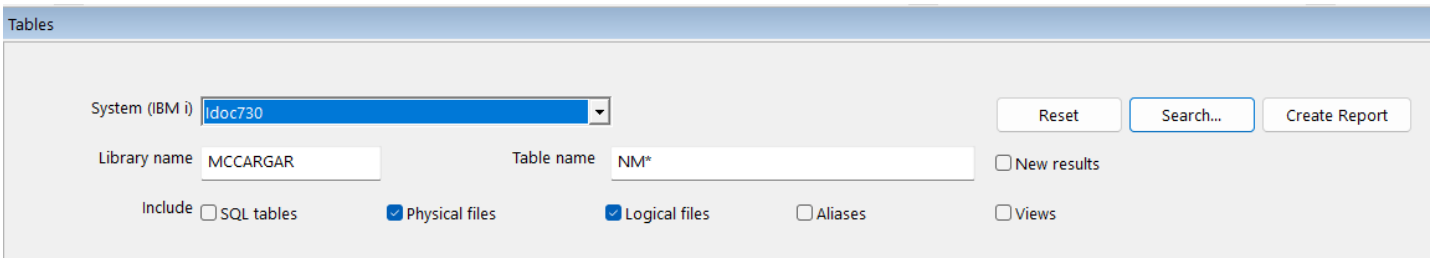


	Library name filter This is the Libraries filter provided from the Filter Pane or you can change it here.
OK	**Refresh** Updates the list of libraries to match the filter.
	Libraries matching the filter. You can select a library to modify its description using the text box at the bottom and Update button. Or select up to 25 libraries and press OK to display those libraries in the GUI (**if they also contain performance data for the component you are using**).
	Description This text box allows the library description to be modified.
OK	**Update** Use this to update a library description for the one selected in the list.

2.6.2 Tables Pane

This pane allows you to browse the IBM i physical files, logical files and/or SQL tables that exist on the system. It is always created when the GUI starts.

Tip: When using the Tables folder under IBM i Explorer, this pane appears automatically.



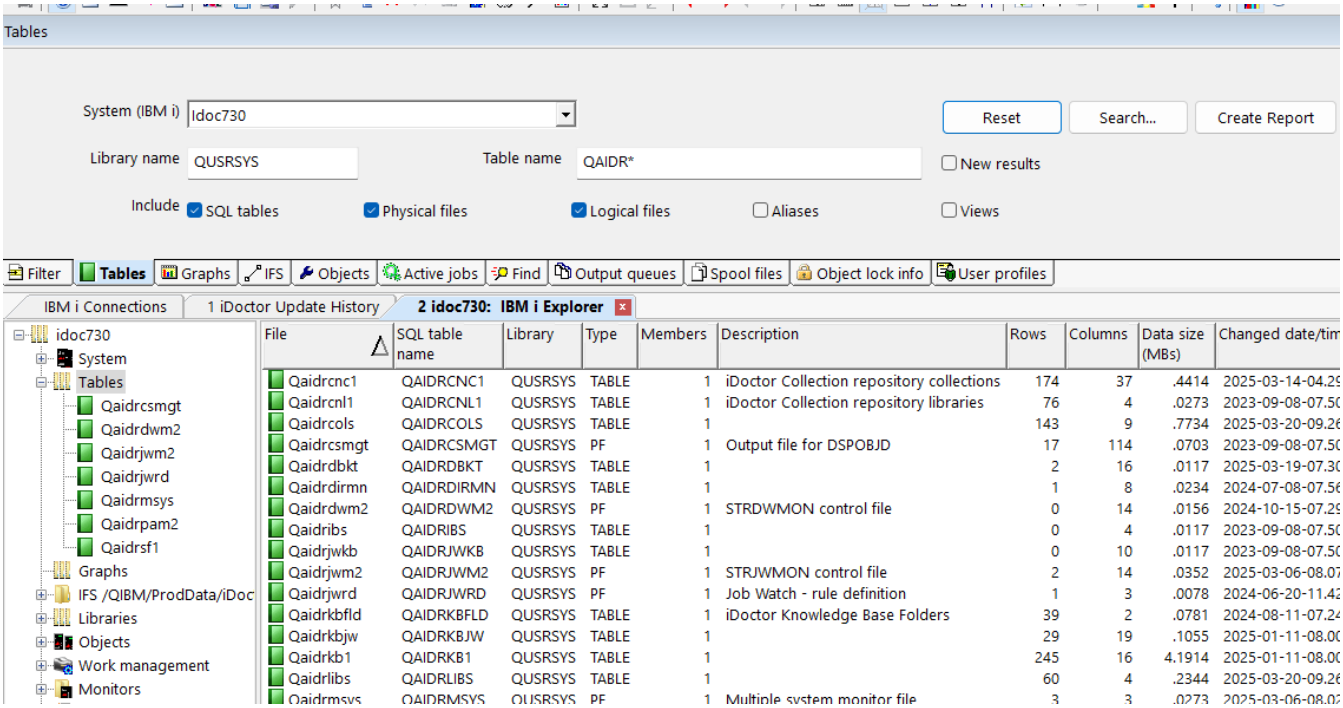
A user may specify the system, library, and generic table name to search. The type of objects returned may also be specified (SQL tables, physical files, logical files, aliases, or views.)

After specifying the system name and the desired filters, clicking search will display the results in the Tables folder.

	System (IBM i) This is the system you are currently working with. You can change this value to another, but then a new results view will need to be used when pressing Search.
OK	**Reset** This restores all parameters back to the defaults and performs a search. The default is QAIDR* tables in QUSRSYS.
OK	**Search** This performs a search and updates the results. Pressing the enter key will do this too.
OK	**Create Report** This option builds a table view showing the results generated from doing the search.

	Library name This is the library name to look for tables. This can be *ALL or blank to search all libraries or a specific name or generic library name.
	Table name This is a specific name, generic name or *ALL/blank for the table name.
☐	**New results** If checked, this will create a new results view rather than reusing the current existing one (if applicable.)
☑	**SQL tables** Check if you wish to include these.
☑	**Physical files** Check if you wish to include these.
☑	**Logical files** Check if you wish to include these.
☐	**Aliases** Check if you wish to include these.
☐	**Views** Check if you wish to include these.

An example of using the Tables pane is:

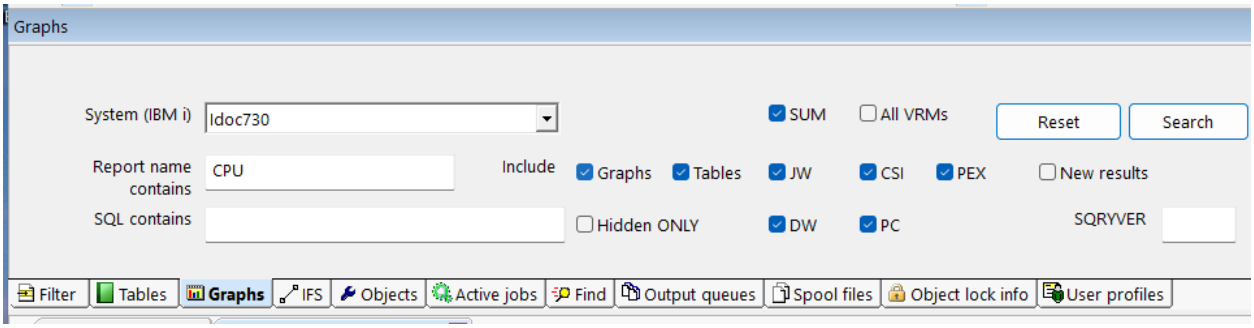


2.6.3 Graphs Pane

This pane allows you to browse or search the iDoctor report databases for graphs or reports of interest. This provides information such as the folder in which the graph or report is located, the VRMs of IBM i where the report will exist as well as any required files or PTFs needed for the report to appear.

Tip: When using the Graphs folder under IBM i Explorer, this pane appears automatically.

This Pane is NOT created by default. Use Preferences -> Display – Advanced to control which Panes appear at startup.



A user may specify the report name filter, the VRM or specify something to look for in an SQL statement like a filename. You can also specify options such as which components to search.

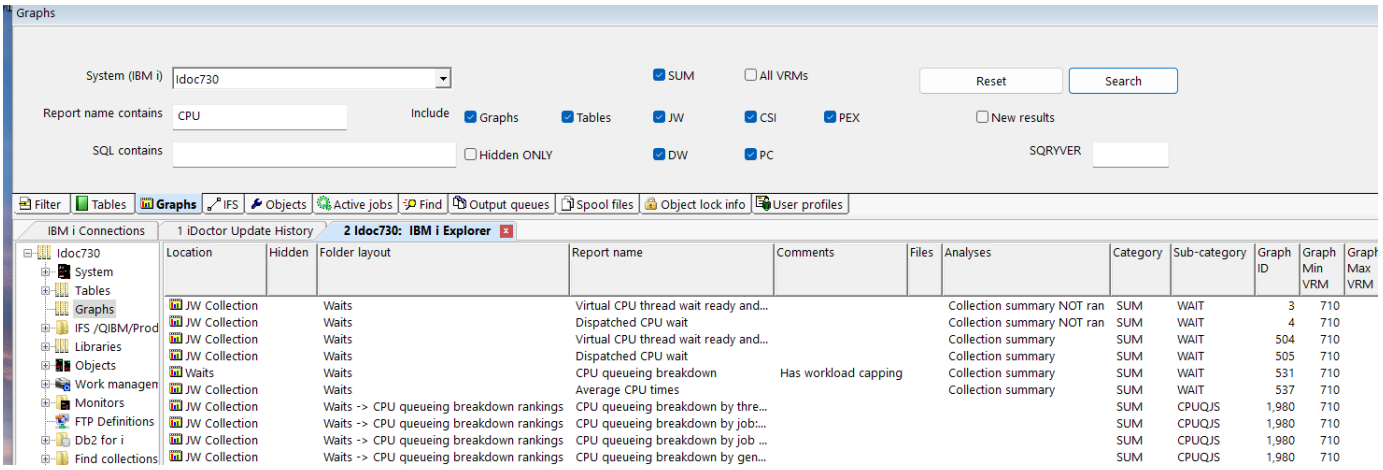
	**System (IBM i)** This is the system you are currently working with. You can change this value to another, but then a new results view will need to be used when pressing Search. Results will be shown based on the VRM of this system unless the All VRMs checkbox is checked.
	**Category / SUM** Within the iDoctor .mdb databases is a SQRYCAT field containing a 3-character identifier for the location within iDoctor that the graph or report appears in. To search just the reports directly under a collection, leave the SUM checkbox checked. To search all reports even drill downs, then uncheck SUM and leave the category text box blank. Otherwise, one of these values can be entered into the category field. - SUM - Graphs and tables under the collection. - CPS – Collection Services Investigator - Graph History graphs - DDG – Collection Services Investigator – disk graphs over time - EDG – Collection Services Investigator – external storage disk graphs over time - JB* – Job Summary (JW, CSI) - JSM – Job Summary (JW, CSI) - JFB – Collection search browse options (JW, PC, CSI) - JFD – Collection search results (JW, PC, CSI) - ODF – Job statistics selection over time (flattened) - ODG – Job statistics selection over time - COL – These are either iDoctor collection properties SQL statements or used in Interval Details, or Interval Summary interfaces - DTL – Detail reports drill down tables - CS1 – Job Watcher call stack search - ASM – PEX Netsize related reports - DT* – PEX selection over time graphs and reports - SRC - Collection search examples - XXX – PEX Taskswitch
	**All VRMs** Check the box to include reports from every OS release.
	**Reset** This restores all parameters back to the defaults and performs a search.
	**Search** This performs a search to show the graphs matching the criteria specified. Tip: You can avoid clicking this button by pressing the enter key with focus on any control on this screen.

	**Report name contains** This is a substring to use when searching for a report or graph name.
	**Graphs** Check this option to include graphs.
	**Tables** Check this option to include table reports..
	**JW/CS** Check these options to indicate which components should be included in the search.
	**PEX** Check this to include PEX Analyzer reports.
	**New results** If checked, this will create a new results view rather than reusing the current existing one (if applicable.)

☑	**SQL contains** Use this to only show reports whose SQL statement contains something specific (such as a filename.)
☑	**Hidden ONLY** Some reports have been removed from IDoctor. This option lets you view their information if they still exist. If you want them restored, contact iDoctor support.
☐	**DW/PC** Check this to include Disk Watcher or Plan Cache Analyzer reports.
☑	**SQRYVER** An internal ID to indicate which reports to include in the results. This is column **SQRYVER**.

2.6.3.1 Graphs Folder

An example of Graphs Folder is:



This list includes the following columns:

Location Indicates where in iDoctor you can find this graph or report. The location description maps to a category and component. For example, category “CPS” is location “CS Graph History”. In some cases, graphs or reports are only found by drilling down from another graph and this will be noted here if this is required.
Hidden An X in this column means the report is hidden from view. **Note:** This can’t be modified by the user.
Folder Layout Under a collection, this shows where the report exists.

Report name The graph or report name
Comments Notes from the developer
Files If a special optional file is required to produce the report it will be listed here.

Analyses This column indicates if any iDoctor analyses must be ran (or NOT) before this graph or report will appear.
Category Identifies the folder within the component that this graph or report appears in (within the .mdb databases such as iDocCS.mdb.) See table QAIDRCATS – **SQRYCAT** column within databases.
Sub-category Identifies the sub folder within the component that this graph or report appears in. This is column **SQRYCATSUB**.

Graph ID Identifies the unique identifier for this graph within table QAIDRGPH in the iDoctor reports database. This is column **GRAPHID**.
Graph Min VRM The minimum IBM i release in nnn format such as 710, 720, 730, etc where this graph will appear. This is **MINVRM** within table QAIDRGPH.
Graph Max VRM The maximum IBM i release in nnn format such as 710, 720, 730, etc where this graph will appear. 0 = no max. This is **MAXVRM** within table QAIDRGPH.

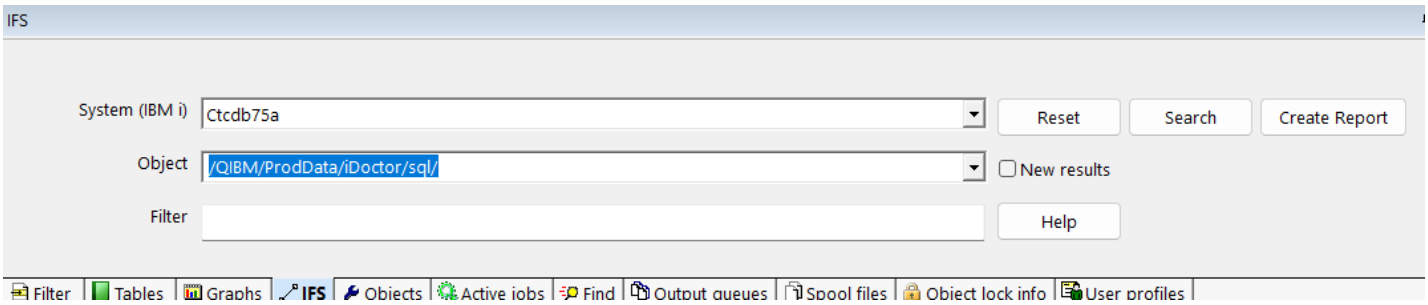
SQL ID Identifies the unique identifier for this report or graph's SQL statement within tables QAIDRGPH or QAIDRSQL. This is column **SREFNO**.
SQL Min VRM The minimum IBM i release in nnn format such as 710, 720, 730, etc where this report will appear. This is **MINVRM** within table QAIDRSQL.
SQL Max VRM The maximum IBM i release in nnn format such as 710, 720, 730, etc where this report or graph's SQL statement will appear. 0 = no max. This is **MAXVRM** within table QAIDRSQL.

Double-click a report in this list will display additional Properties. Because these are IBM-defined reports, the properties are read-only, although if you wanted to make changes you could modify the .mdb files at your own risk/discretion.

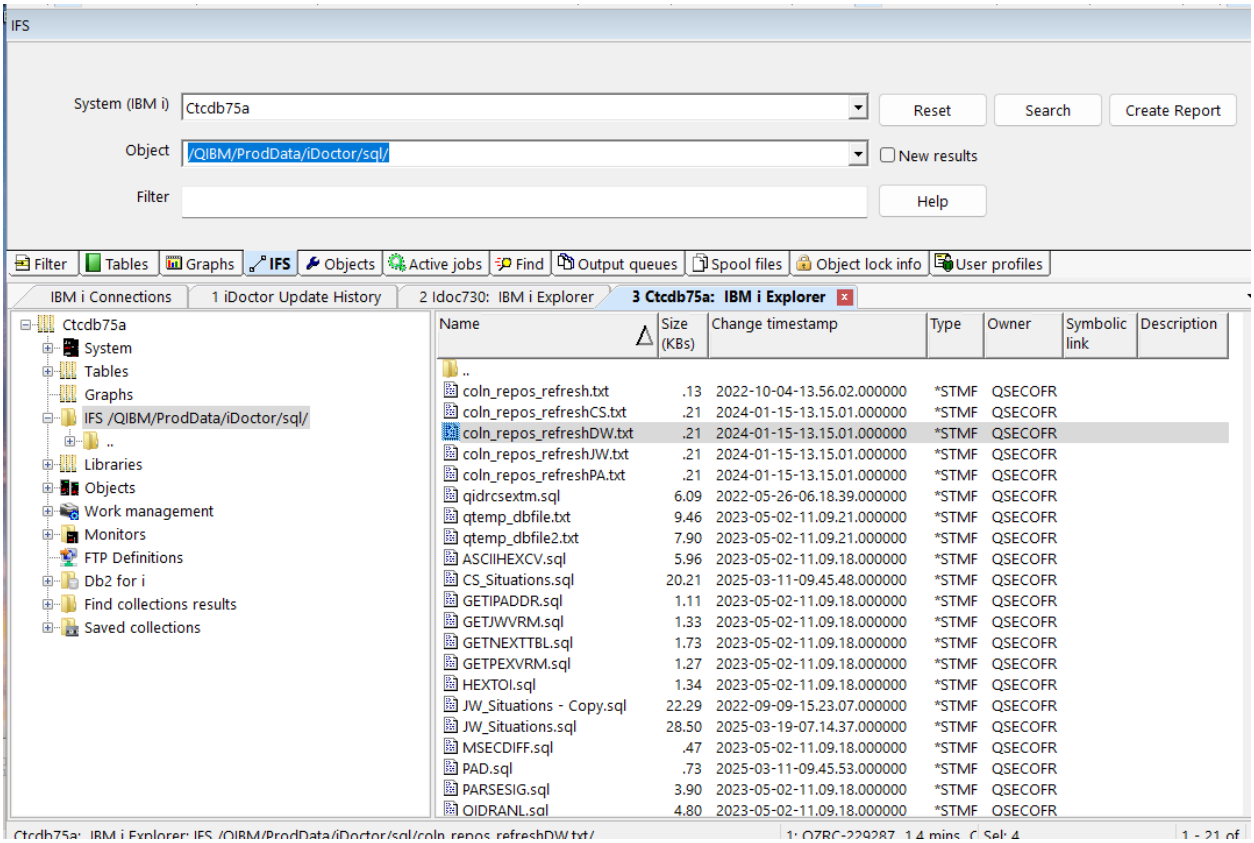
2.6.4 IFS Pane

This pane allows access to the IFS on an IBM i and displays results for a single file/folder or the entire IFS. Pressing Search will navigate to the IFS folder if not already open and show the results.

Tip: When using the IFS folder within IBM i Explorer, this pane appears automatically.



An example is:



From this view a user can work with the files and directories shown in several ways. Files may be downloaded or opened/viewed. You may also upload additional files to the system by right-clicking one of the folders and using the Upload… menu.

See the IFS folder for more information on the options available when working with the results of the IFS Pane.

	System (IBM i) This is the system you are currently working with. You can change this value to another, but then a new results view will need to be used when pressing Search.
OK	**Reset** This restores all parameters back to the defaults and performs a search. - The default is the root IFS folder.
OK	**Search** This performs a search and updates the results. Pressing the enter key will do this too.
OK	**Create Report** This option builds a table view showing the results generated from doing the search.

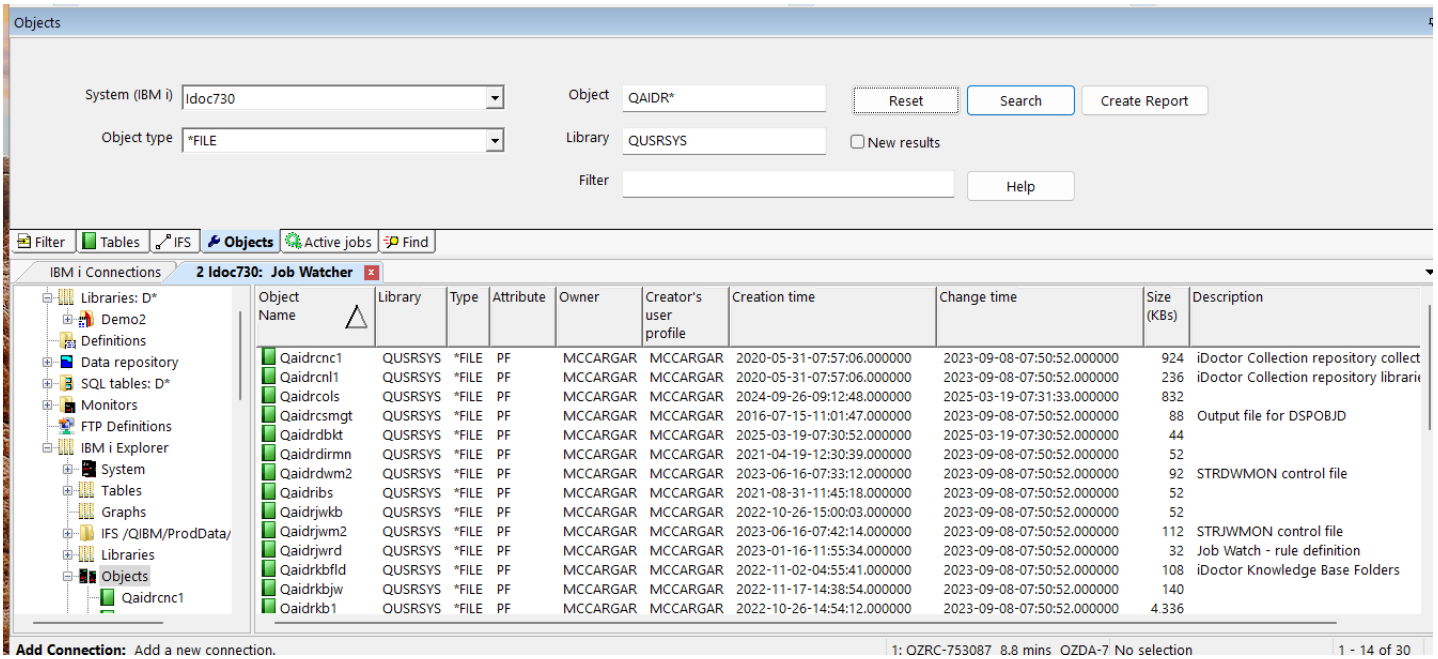
	Object This is the IFS path and/or specific file name to use as the filter. **Note:** This does not support values like *.txt.
	New results If checked, this will create a new results view rather than reusing the current existing one (if applicable.)
	Filter This is where clause used on the SQL statement to further reduce the results in addition to the other values already defined. If SQL syntax is not correct, the view will produce no data. Examples: PATH2 LIKE '%6671D6%' DATA_SIZE > 1024 OBJECT_TYPE = '*DIR' OBJECT_TYPE = '*DIR' AND UPPER(PATH2) LIKE '%6671D6%' OBJECT_TYPE <> '*DIR' AND UPPER(PATH2) LIKE '%AAAAF%' TEXT_DESCRIPTION LIKE '%test%'
OK	**Help** This shows examples for the Filter textbox.

2.6.5 Objects Pane

This pane is used to show objects on the system via the IBM I Explorer – Objects folder matching the search criteria provided.

Tip: When clicking on the **Objects** folder within a Component View interface the Pane will appear automatically.

Pressing Search will open and navigate to the IBM i Explorer -> Objects folder if not already looking at it.



Some object types provide additional functionality, and you will be able to drill down further and find more details about an object using the Properties menu.

For example, physical files can be expanded to view the members within them. And the members can be opened as a new report in the Data Viewer.

The Filters text box acts like a where clause in an SQL statement and syntax must be correct when used or the view will fail to produce data To determine the available fields, right-click the Objects folder and use Select fields… menu. Some examples can be found using the Help button as well.

	**System (IBM i)** This is the system you are currently working with. You can change this value to another, but then a new results view will need to be used when pressing Search. **Tip:** Clicking on another view will automatically change the system to match the system you clicked on. You can also do this when clicking system names in the IBM i Connections View.
	**Object** This can be *ALL (or blank), a specific name, or generic object name.
	**Reset** This clears all filters, sets them to the IBM shipped default values (QAIDR* files in QUSRSYS) and performs a search.
	**Search** This performs a search and updates the results. Pressing the enter key will do this too.
	**Create Report** This option builds a table view showing the results generated from doing the search.

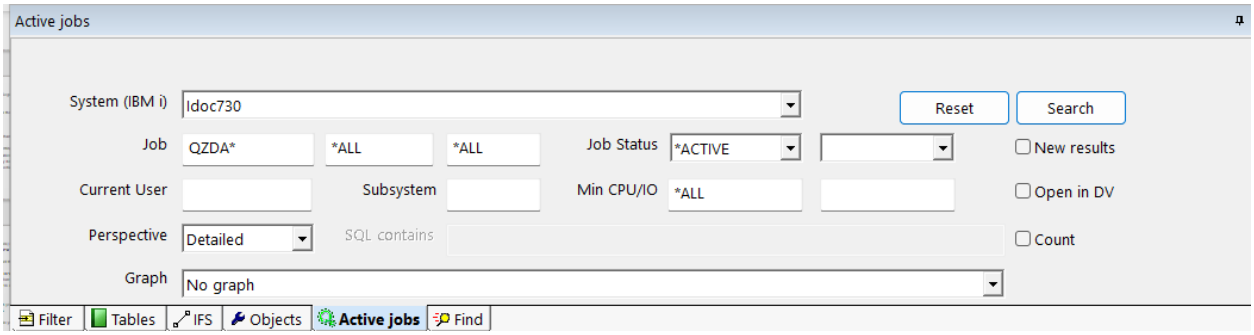
	**Object type** This is the type of object and can be *ALL or a specific object type.
	**Library** This is the library the object is located in and can be *ALL, a specific name or generic name.
	**New results** If checked, this will create a new results view rather than reusing the current existing one (if applicable.)

	**Filter** This is where clause used on the SQL statement to further reduce the results in addition to the other values already defined. If SQL syntax is not correct, the view will produce no data. Examples: OBJNAME = 'QAPYJWDFN' OBJATTR = 'PF' OBJTEXT LIKE '%SQL FUNCTION%' OBJOWNER = 'MCCARGAR' OBJTYPE IN('*PGM', '*SRVPGM') KBSIZE > 1
	**Help** This shows examples for the Filter textbox.

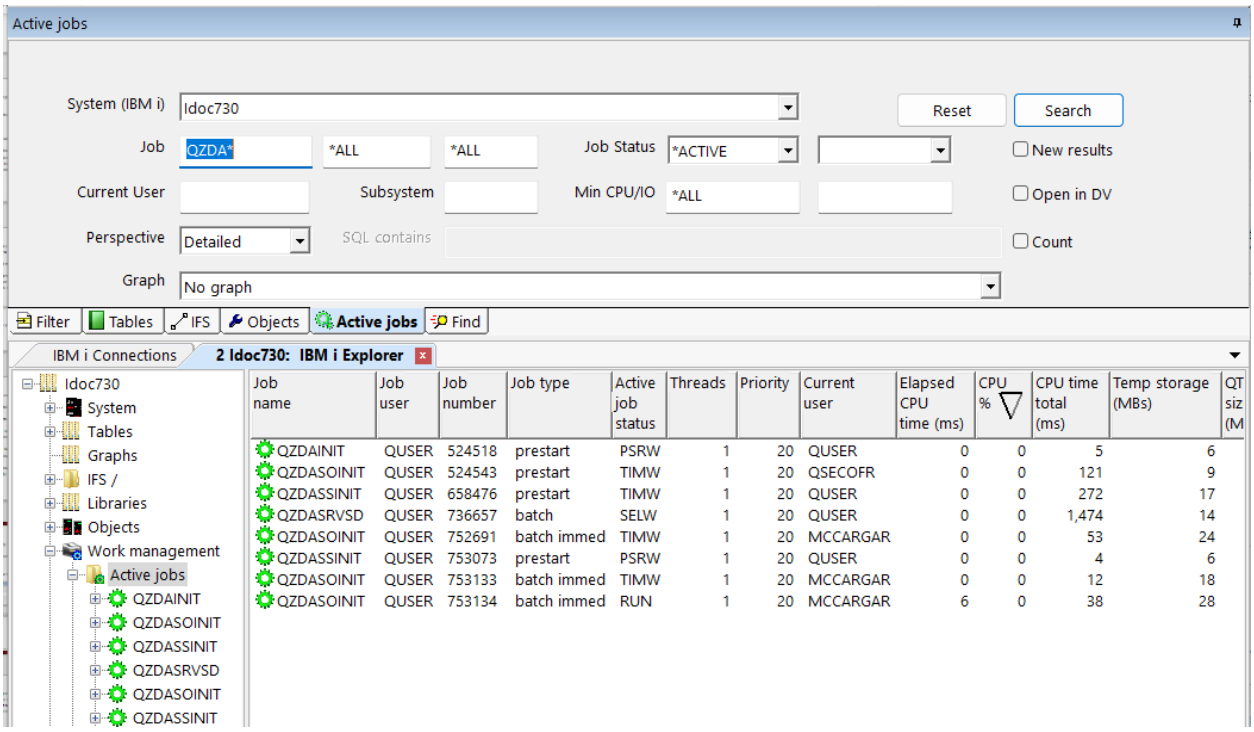
2.6.6 Active Jobs Pane

This pane is like the interface for WRKACTJOB to show the active jobs on the system but also provides the capability to view the job logs or spool files for jobs that have ended. For active jobs you can view the threads within each job and the call stacks for each thread. Options are also available to kick off performance collections or define definitions based on the selected active jobs.

Tip: This pane is large (vertically), so you may have to resize the pane vertically to see the Graph option at the bottom.



Results are shown in either the Main Window or Data Viewer. If a graph is desired, then the results are required to be shown in the Data Viewer.



Tip: This interface collects performance statistics for active jobs only. Each refresh or press of the search button will update these metrics. To reset the performance statistics counters then right-click the Active jobs folder and use the Reset Statistics menu option.

For more information on working with the jobs shown in search results, see the Active jobs folder.

	**System (IBM i)** The name of the IBM i system to perform a search on. The values in the drop-down list is built from the list of systems within the IBM i Connections View.
	**Reset** This clears all filters, sets them to the IBM shipped default values (QZD* active jobs) and performs a search.
	**Search** This will perform the job search based on the filters given on this pane. If job status is ***ACTIVE** then clicking this button multiple times will update the performance statistics each time the button is pressed.

	**Job (name/user/number)** This is the job name, user name and job number to search on. Name and user can be *ALL/blank or a generic or specific name. Job number must be either a single 6-digit number or blank/*ALL.
	**Job status** This option allows you to indicate the types of jobs to include in the results based on their status. The option used effects the columns returned in the list. ***ACTIVE** – Only active jobs are returned. This will include some performance metrics. ***ALL** – All jobs, active or not will be returned in the list. ***JOBQ** – Only jobs waiting on a job queue will be shown in the list. ***OUTQ** – Only completed jobs containing spool file output are shown. You can expand these jobs to view these spool files. **(Active Status)** This indicates the type of active job status to further filter the results. You can pick one and only of these types in the list. For more information see the help text for the WRKACTJOB command's Status column. **Note:** This option will only appear if Job Status is *ACTIVE or *ALL.
	**New results** Check this box if you want the results to be created in a new view upon clicking Search.

	**Current User** The exact current user profile to include in the results or blank (or *ALL) for all.
	**Subsystem** This is the subsystem name to use to filter the results by.
	**Min CPU/IO** The 1st value is the minimum CPU utilization to use as a filter. The 2nd This will perform the job search based on the filters given on this pane. If job status is ***ACTIVE** then clicking this button multiple times will update the performance statistics each time the button is pressed.
	**Open in DV** Check this box if you want to see results as an SQL report (or graph) in the Data Viewer instead of the default under Work management -> Active jobs in the Main Window.

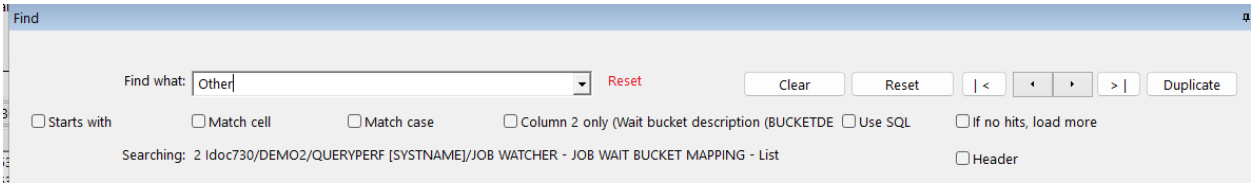
	**Perspective** This setting controls the information displayed in the results in the Active Jobs folder. These options are available: - Basic - Detailed - CPU - IOs - Interactive - Temp storage - Locks - SQL (all) - SQL client - SQL cursor - SQL server - Advanced JVM
	**SQL contains** For some types of perspectives, this option lets you filter the results based on something matching in the SQL statement captured.

	**Count** This indicates if an extra SQL statement will be ran to count the number of jobs returned in the results. If this is done the results will take longer to appear, but the scrollbar showing the number of jobs will be accurate. In some cases, especially at older releases and/or when job status is set to *OUTQ, the results can take a while to return due to limitations in IBM i SQL Services so this option can help in those situations.
	**Graph** If viewing active jobs, some active job metrics can be graphed in the Data Viewer if desired. The graphs available will vary based on the Perspective.

2.6.7 Find Pane

This window is used to look for something shown in the GUI in the interface itself or behind the table/graph you are viewing. It can only search on one view at a time, which is based on the description listed under the “Searching: “ label. Click on a text box, interface, list, tree, graph, or graph legend to change what you are searching.

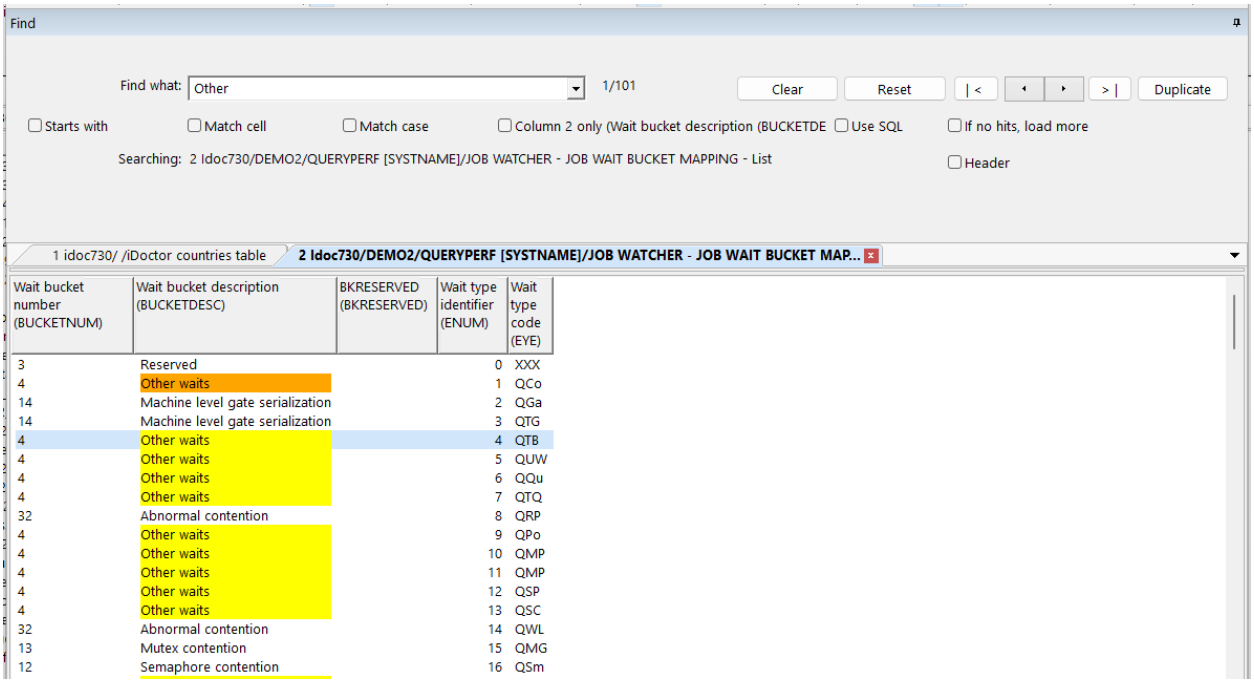
Use the Edit -> Find menu (or Ctrl+F) to show this option.



When searching tables/lists there are various options to control how things are searched and if the data is built using SQL, then the “Use SQL” option can be used if you wish to search the data behind the report instead of only having the Find Pane look at only cached data loaded into the GUI.

After a Find has been started, F3 will find next and Shift+F3 can be used to find the previous hit.

Here’s an example when searching for something in a table view. The current hit is shown in orange, and the other hits found are in yellow.



	Find what This is where you can type the value you want to find. The drop-down list contains previous search values.
	Clear Clears the find history from the drop-down list.
OK	**Reset** Clears the current find operation and any highlighted selections.
OK	**<-** Moves to the first hit. **< >** Move to the previous/next hit. **->** Move to the last hit.
OK	**Duplicate** For table or graph views, this option is provided to duplicate the data behind the report into a new table. If the SQL statement begins with “WITH”, the Use SQL option will not work unless this is done first.

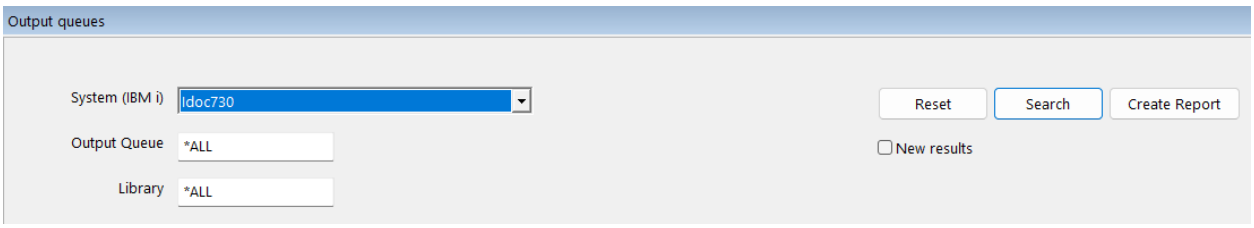
☐	**Starts with** If checked, then only values that begin with the same characters provided in the 'Find what' box will be matched.
☐	**Match cell** If checked, the entire cell must match the 'Find what' value.
☐	**Match case** Check this option to perform a case-sensitive find operation.
☐	**Column N only** Check this option to only search a single (last clicked on) column from the list.

☐	**Use SQL** For tables/lists, built using SQL, this provides a way to look for hits on the entire result set rather than only searching the data fetched into the GUI from scrolling the results.
☐	**If no hits, load more** If Use SQL is unchecked, this indicates how many additional rows to fetch if no hits found. **Note:** Fetching rows can take a while and the GUI will appear to hang while this is happening. A large amount of PC memory can be consumed as well.
☐	**Header** If searching a list/table, this provides the option to search the table’s column headings.

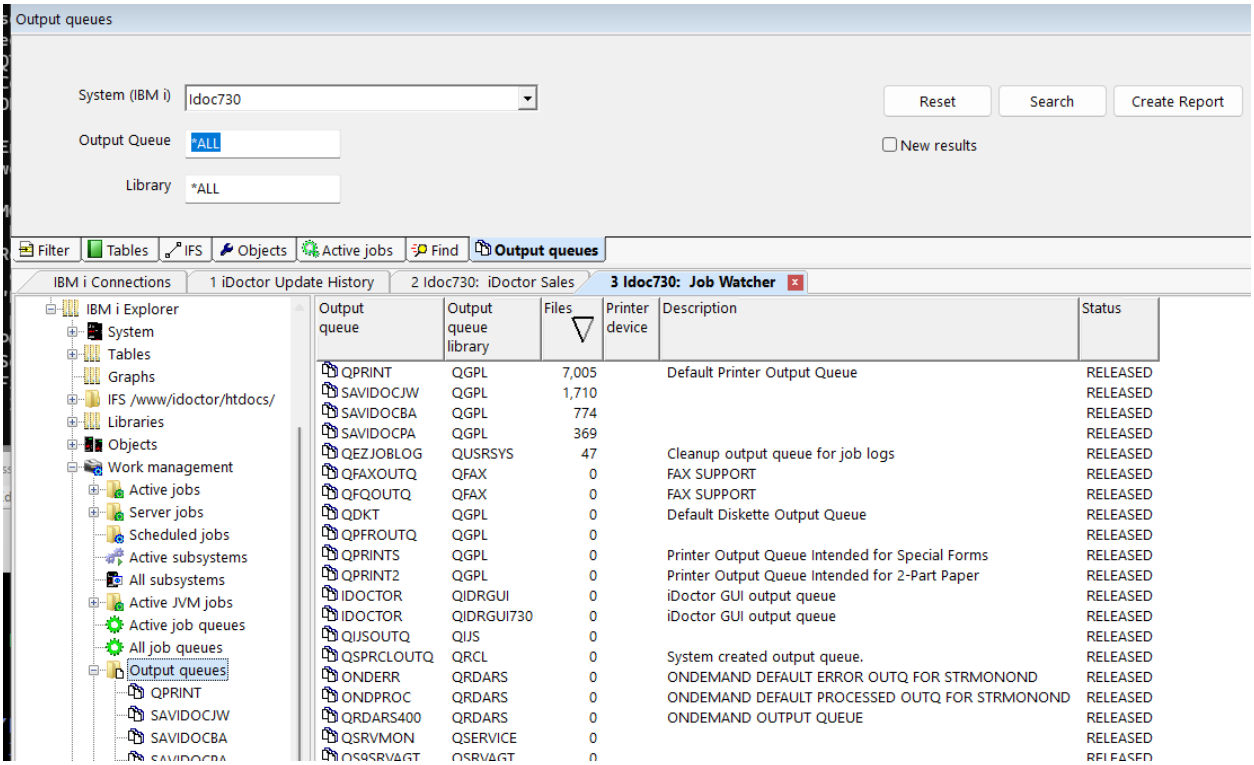
2.6.8 Output Queues Pane

This pane is an interface for the WRKOUTQ (Work with Output queues) command. It allows you to view the output queues that exist on an IBM i.

Tip: When using the Output Queues folder under Work management, this pane appears automatically.



After specifying the system name and the desired filters, clicking search will display the results in the IBM i Explorer -> Work management -> Output queues folder below the pane.



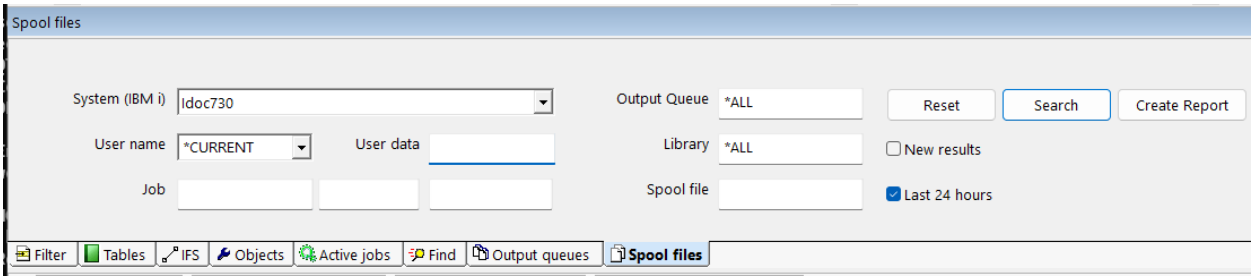
	**System (IBM i)** The name of the IBM i system to perform a search on. The values in the drop-down list is built from the list of systems within the IBM i Connections View.
	**Reset** This clears all filters, sets them to the IBM shipped default values (*ALL output queues) and performs a search.
	**Search** This will perform the search based on the filters given on this pane and show the results in the Output queues folder.
	**Create Report** This option builds a table view showing the results generated from doing the search.

	**Output queue** The name of the output queue. This can be *ALL a specific name or a generic name.
	**New results** Check this box if you want the results to be created in a new view upon clicking Search. **Note:** Changing the system name will force this checked.
	**Library** The name of the output queue library. This can be *ALL a specific name or a generic name.

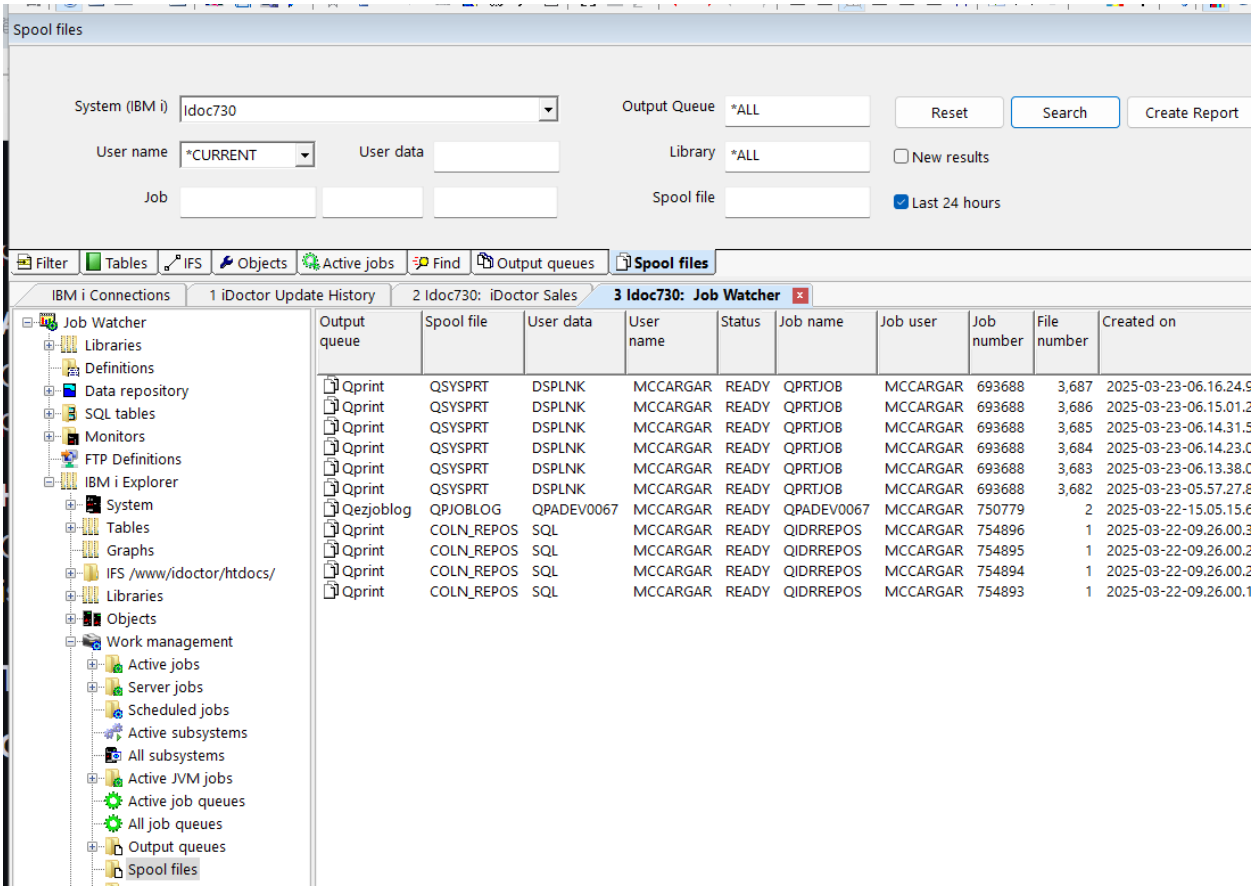
2.6.9 Spool Files Pane

This pane is an interface for the WRKSPLF (Work with Spool Files) command. It allows you to view the spool files that exist on the IBM i matching the filters you provide.

Tip: When using the Spool files folder under Work management, this pane appears automatically.



After specifying the system name and the desired filters, clicking search will display the results in the Spool files folder within Work management.



From this view, the user may view spool files, download them as PDFs and view them on the PC.

See the Spool files section for more information.

	**System (IBM i)** The name of the IBM i system to perform a search on. The values in the drop-down list is built from the list of systems within the IBM i Connections View.
	**Output queue** The name of the output queue. This can be *ALL a specific name or a generic name.
	**Reset** This clears all filters, sets them to the IBM shipped default values and performs a search.
	**Search** This will perform the search based on the filters given on this pane and show the results in the Spool files folder.
	**Create Report** This option builds a table view showing the results generated from doing the search.

	**User name** This allows you to filter on the user that created the file. This value can be *CURRENT, *ALL, a single name or a generic name.
	**User data** This field allows to you to filter on the user data associated with the spool file. This value can be *ALL, a single name or a generic name.
	**Library** This value lets you limit results to only show spool files in the specified output queue library. This value can be *ALL, a single name or a generic name.
	**New results** Check this box if you want the results to be created in a new view upon clicking Search. **Note:** Changing the system name will force this checked.

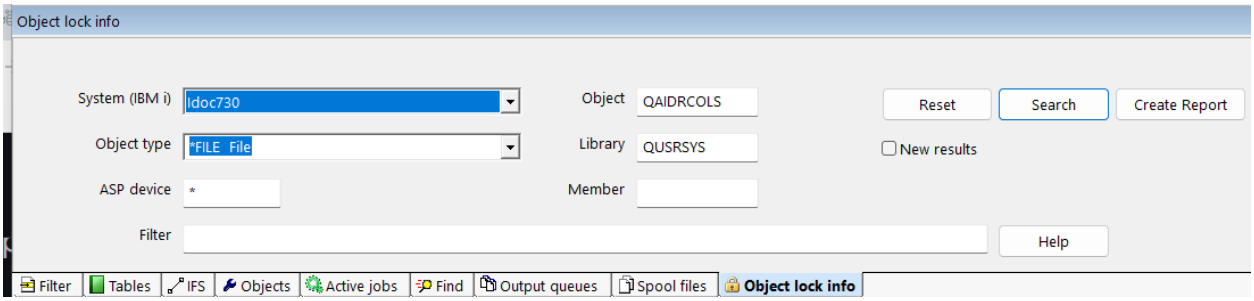
	**Job** These fields all you to filter on the job name, job user and/or job number values for the job that created the spool file. The job name and job user values can be a single name or generic name. Job number must be either blank or a 6 digit number.
	**Spool file** This option allows you to filter on the spool file name. This value can be *ALL, a single name or a generic name.
	**Last 24 hours** This option allows you to limit results to only spool files created in the last 24 hours. This improves response time to view results.

2.6.10 Object lock info Pane

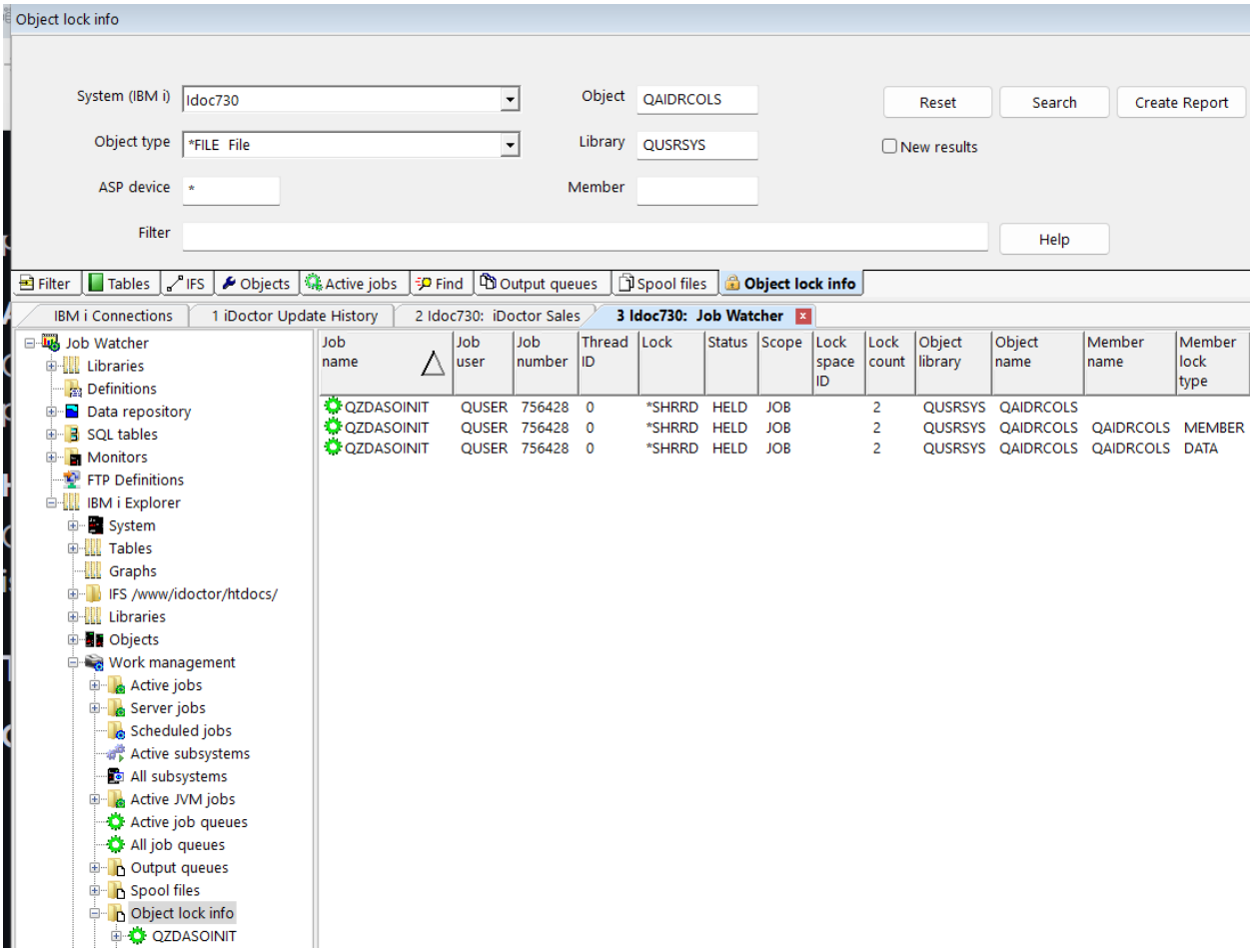
This pane is like the WRKOBJLCK (Work with Object Locks) command. It allows you to see the jobs that have locks on the specified object and perform actions against those jobs.

Tip: When using the Object Lock Info folder within IBM i Explorer -> Work management, this pane appears automatically.

Pressing Search will open and navigate to the IBM i Explorer -> Work management -> Object lock info folder if not already open.



A user can specify the system, object, library as well as the object type to check. The member name (for files) and/or ASP may also be specified. Clicking search will display the results in a view below the pane.



Users can work with these jobs to drill-into them for more information or end them.

For more information on the options available when working with search results for this pane see the Object lock info section.

	**System (IBM i)** The name of the IBM i system to perform a search on. The values in the drop-down list is built from the list of systems within the IBM i Connections View.
	**Object** This can be *ALL (or blank), a specific name, or generic object name.
	**Reset** This clears all filters, sets them to the IBM shipped default values and performs a search.
	**Search** This will perform the search and show results in the Object lock info folder.
	**Create Report** This option builds a table view showing the results generated from doing the search.

	**Object type** This is the type of object and can be *ALL or a specific object type.
	**Library** This is the library the object is in and can be *ALL, a specific name or generic name.
	**New results** Check this box if you want the results to be created in a new view upon clicking Search. **Note:** Changing the system name will force this checked.

	**Object type** This is the type of object and can be *ALL or a specific object type.
	**Library** This is the library the object is in and can be *ALL, a specific name or generic name.
	**New results** Check this box if you want the results to be created in a new view upon clicking Search. **Note:** Changing the system name will force this checked.

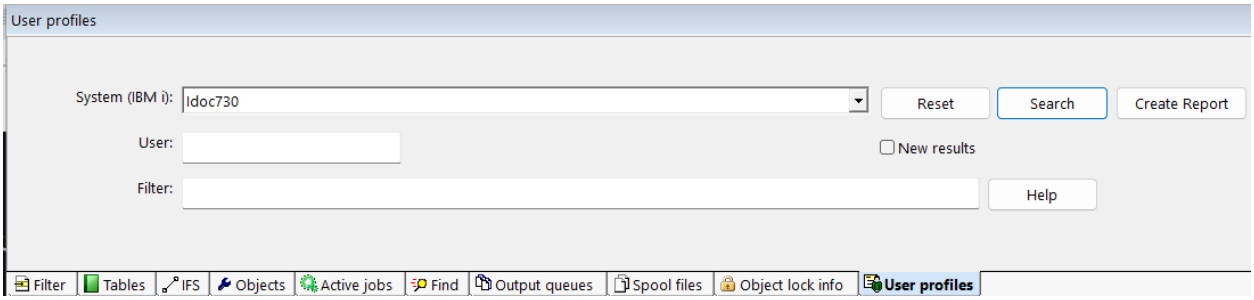
	**ASP device** This is the ASP device name and should be 1 of these values: *** -** The ASPs that are currently part of the thread's library name space will be searched to locate the object. This includes the system ASP (ASP number 1), all configured basic user ASPs (ASP numbers 2-32), and, if the thread has an ASP group, all independent ASPs in the ASP group. ***SYSBAS** - The system ASP and all basic user ASPs will be searched to locate the object. No independent ASPs will be searched, even if the thread has an ASP group. **Name** - The device name of the independent ASP to be searched to locate the object. The independent ASP must have been activated (by varying on the ASP device) and have a status of 'Active' or 'Available'. The system ASP and basic user ASPs will not be searched.
	**Member** This is the member name to use if applicable. Can be blank, a specific name or generic name.

	Filter This is where clause used on the SQL statement to further reduce the results in addition to the other values already defined. If SQL syntax is not correct, the view will produce no data. Examples: JOBNBR = '303113' JOBUSER = 'FRED' JOBNAME LIKE 'QZ%'

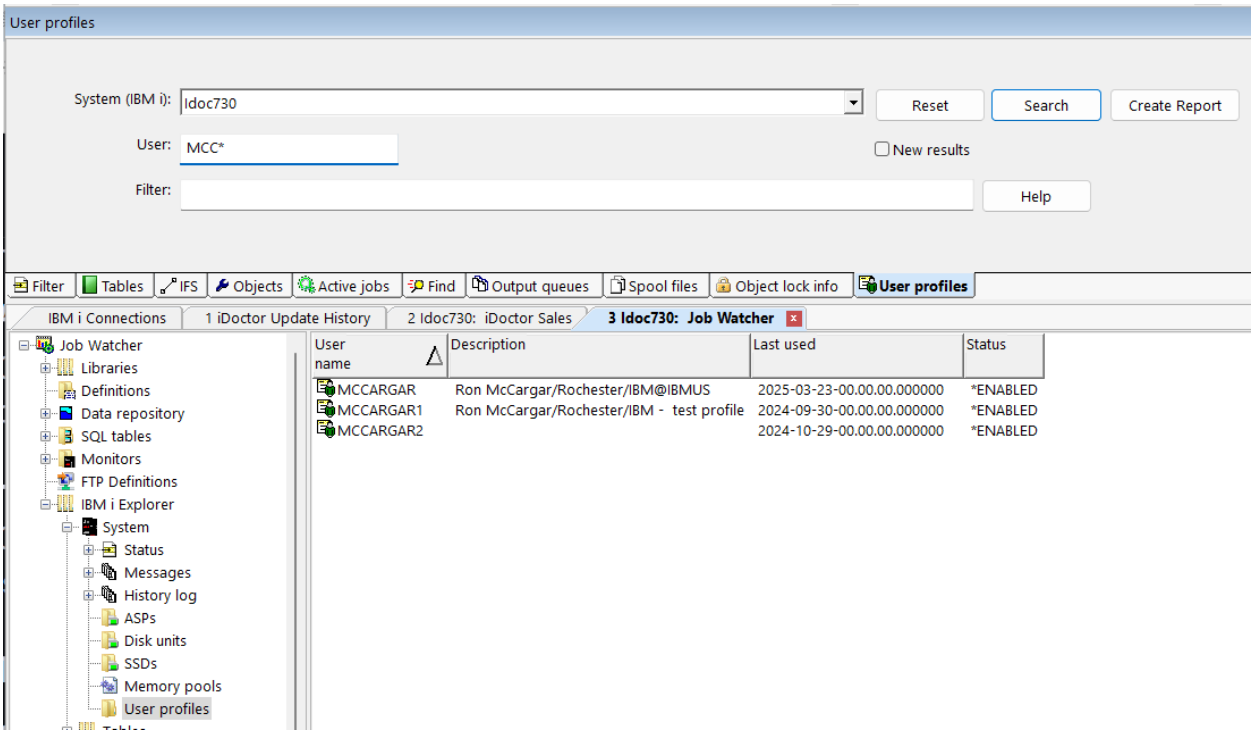
2.6.11 User Profiles Pane

This pane is an interface for the WRKUSRPRF (Work with User Profiles) command. It allows you to browse the user profiles that exist on the IBM i and make some modifications as needed.

Tip: When using the User Profiles folder under IBM i Explorer -> System, this pane appears automatically.



After specifying the system name and user name criteria, clicking search will display the results in the User Profiles folder under System.



For more information on the options available on user-profiles, see the User Profiles folder.

	System (IBM i) The name of the IBM i system to perform a search on. The values in the drop-down list is built from the list of systems within the IBM i Connections View.
OK	**Reset** This clears all filters, sets them to the IBM shipped default values and performs a search.
OK	**Search** This will perform the search and show results in the User Profiles folder.
OK	**Create Report** This option builds a table view showing the results generated from doing the search.

	User This is the user name or generic user name (or *ALL) to use when performing the search.
☐	**New results** Check this box if you want the results to be created in a new view upon clicking Search. **Note:** Changing the system name will force this checked.

	Filter This is where clause used on the SQL statement to further reduce the results in addition to the other values already defined. If SQL syntax is not correct, the view will produce no data. **Tip:** Right-click the User Profiles folder and use the Select fields… menu to see the possible field names. Examples: AUTHORIZATION_NAME = 'QSECOFR' SIGN_ON_ATTEMPTS_NOT_VALID > 0

2.7 Power Connections View

This option no longer exists.

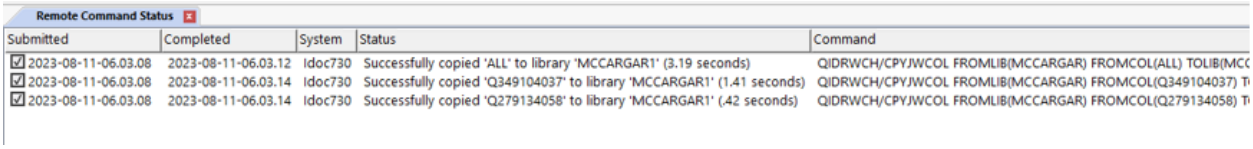
2.8 Remote Command Status View

The Remote Command Status view shows the status of commands or file transfers executing on a system. This allows you to perform lengthy operations like copy objects or delete files without tying up the GUI.

Depending on the function being used you will see one or more commands in this view. As each command completes you will see its result or error message in the view.

You can also close this window and reopen it later while commands are being executed to periodically check the status of the commands issued. Use the View -> Remote Command Status menu on the Main Window or the toolbar button to reopen it.

Note: This view only executes 1 command at a time.



Remote Command Status View

2.8.1 Fields

Column	Description
Submitted	The time the command was added to the view.
Completed	The time the command completed.
System	
Status	Shows either Running, Waiting or the result of the operation.
Command	Lists the command string executed. **Note:** In some cases, these are not IBM i commands but apply to iDoctor/Windows operations. Examples: **get** - download a file. **put** - upload a file from the PC to the i. **explorer** - opens Windows Explorer at the path indicated.
Job	Indicates the job on the i that is running or ran this command if it occurred in the past. **Note:** This does not apply if this view is showing operations to HMC or VIOS or Windows.

2.8.2 Menu options

The following actions may be taken in the Remote Command Status View by selecting one or more entries and then right-clicking:

	Display Job Log Shows the job log for the selected system. **Tip:** This is the default action if double-clicking a row.
	Show History Log Opens notepad with a listing of all commands and results for the entire view.
	Active job options These options let the user view or search job logs, end jobs and more.
	Copy Selected Commands to Clipboard Copies all command strings listed in the entries selected to the Windows Clipboard.

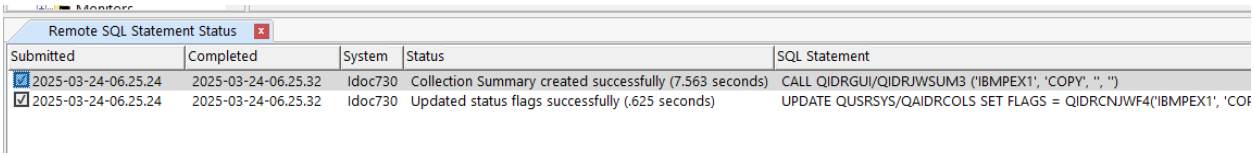
	Rerun commands Allows you to rerun the selected command(s) either on the same LPAR or other LPAR(s). **Note:** This can't be used on things like Windows commands or file transfers, only IBM i commands.
	Add Command(s)… Displays a window where you can provide your own CL command(s) to run on this system (and/or other systems.)
	Cancel Cancels the running command by ending the QZRCSRVS job if applicable.
	Remove Selected Removes selected remote command entries from the view. **Note:** Does not apply to commands that are running, use Cancel instead.
	Remove All Use this menu to remove all remote command entries from the view. **Note:** Does not apply to commands that are running, use Cancel instead.

2.9 Remote SQL Statement Status View

The Remote SQL Statement Status view shows you the status of SQL statements running on the system.

Depending on the function being used you will see one or more statements in this view. As each statement completes you will immediately see its result in the view.

You can also close this window and reopen it later while commands are being executed to periodically check the status of the statements issued. Use the View -> Remote SQL Statement Status View menu on the Main Window to reopen it.



2.9.1 Fields

Column	Description
Submitted	The time the statement was added to the view.
Completed	The time the statement completed.
System	System the statement is running on.
Status	Shows either Running, Waiting or the result of the operation.
SQL Statement	Lists the SQL Statement
Job	Indicates the job servicing this request.

2.9.2 Menu options

The following actions may be taken in the Remote SQL Statement Status View by selecting one or more entries and then right-clicking:

Menu	Description
Display Job Log	Shows the job log for the selected system. **Tip:** This is the default action if double-clicking a row.
Show History Log	Opens notepad with a listing of all SQL statements and results for the entire view.
Active job options	These options let the user view or search job logs, end jobs and more.
Copy Selected SQL Statements to Clipboard	Copies all SQL statements for the entries selected to the Windows Clipboard.
Rerun SQL statements	Allows you to rerun the selected statements either on the same LPAR or other LPAR(s).
Add SQL Statement(s)…	Displays a window where you can provide your own SQL statements to run on this system (and/or other systems.)
Cancel	Cancels the running SQL statement if applicable.
Remove Selected	Removes selected SQL statement entries from the view. **Note:** Does not apply to statements that are running, use Cancel instead.
Remove All	Use this menu to remove all SQL statement entries from the view. **Note:** Does not apply to statements that are running, use Cancel instead.

2.10 iDoctor Messages View

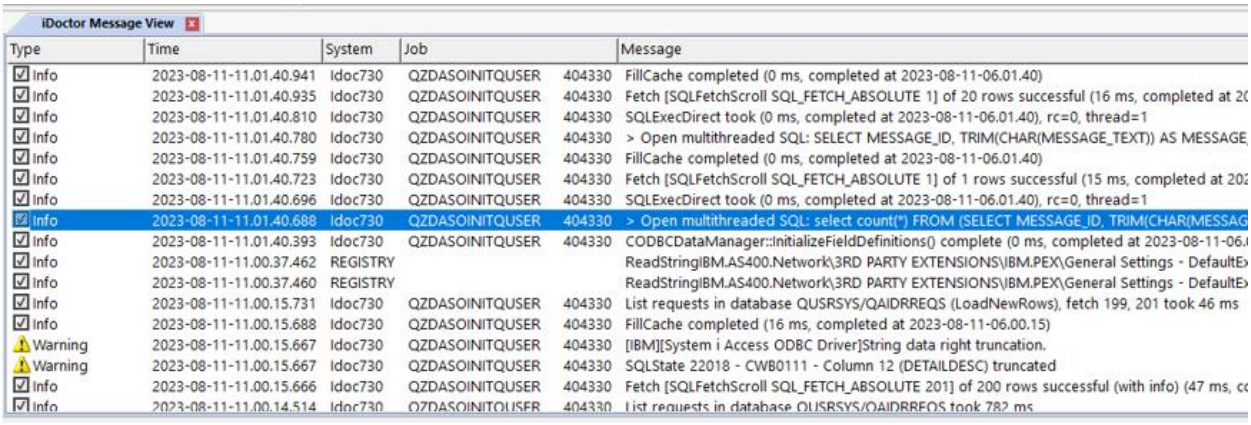
This interface provides debug and informational messages to the user when it is enabled. Many different types of messages will appear here including those related to SQL statements, IBM i Access Client Solutions API calls and more.

The amount of detail shown in this view can be increased by using Preferences -> Misc -> Enable debug logging to C:\temp and the options for logging SQL statements.

All QZRCSRVS and QZDASOINIT job commands performed are tracked in this view. Additional options are available by right clicking any of the messages.

Tip: You may need to occasionally use F8 on this view to make the data more readable and auto-resize the columns.

An example of this view is:



2.10.1 Fields

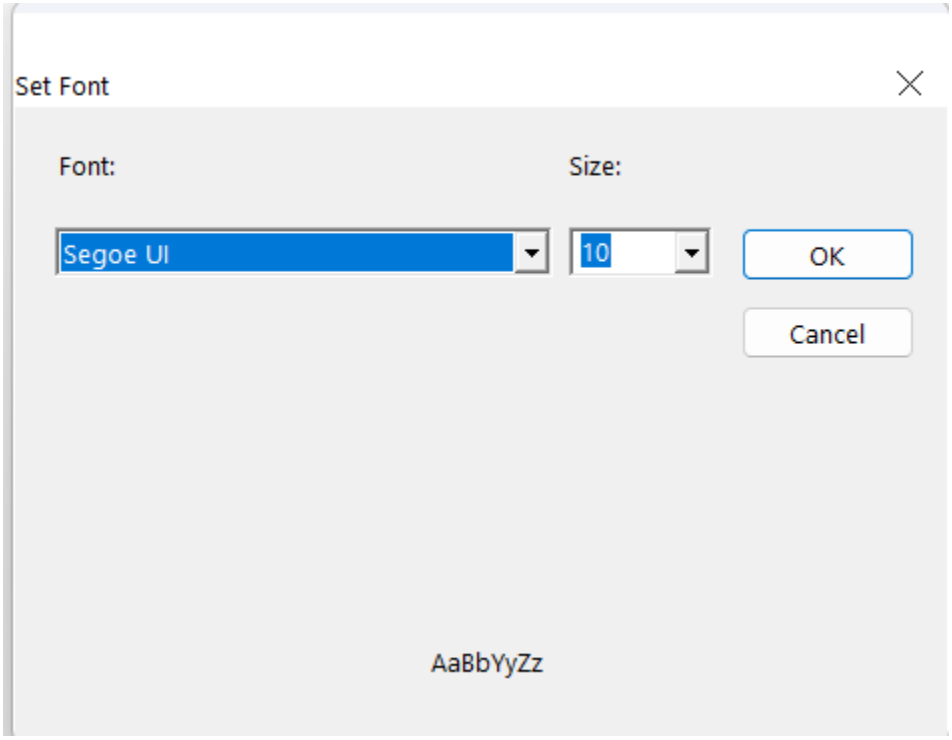
Column	Description
Type	Info, Warning or Error based on the severity of the message.
Time	Time of the operation
System	GUI, REGISTRY or an IBM i system name
Job	Indicates the job on the i that is running or ran this operation if it occurred in the past.
Message	Details about the operation.

2.10.2 Menu options

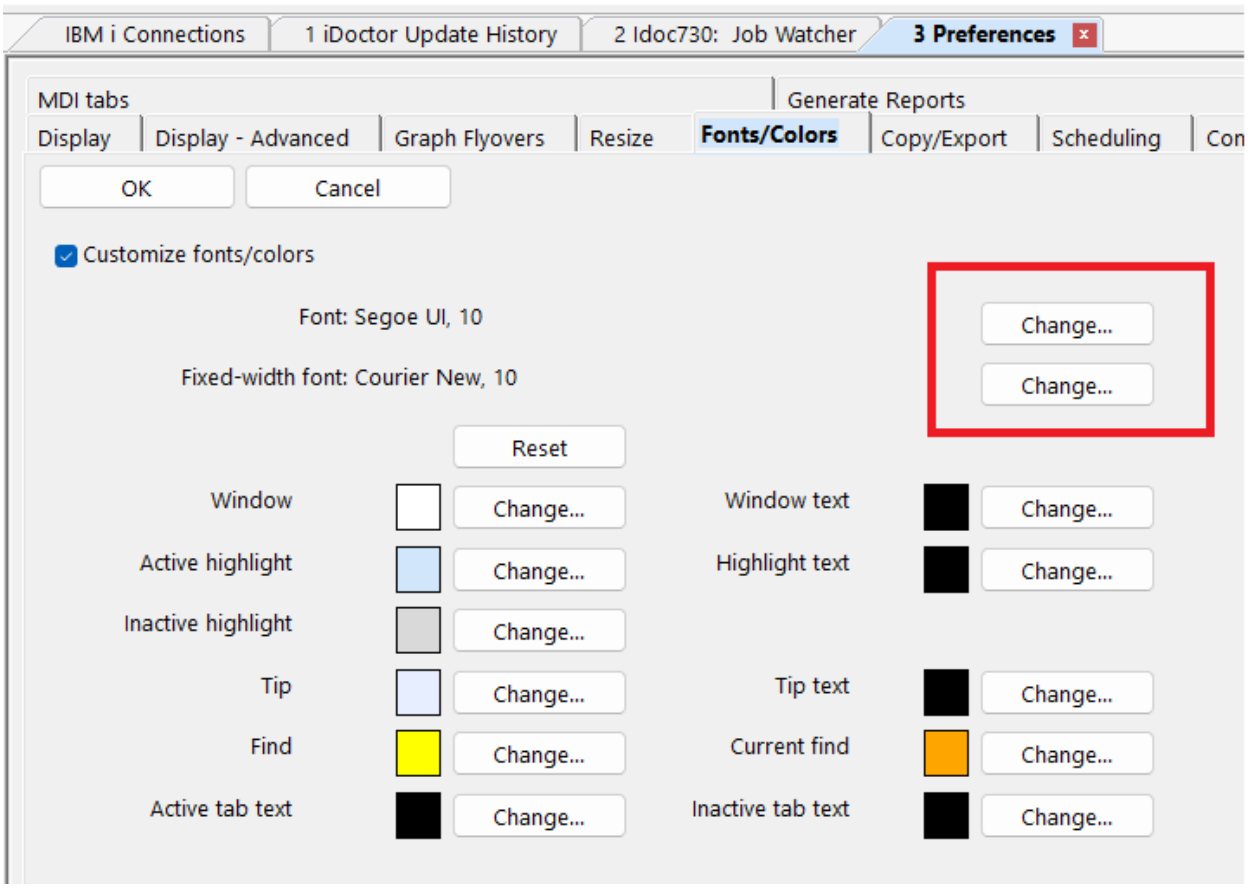
	Display Job Log Shows the job log for the selected system and job. Only applies if a job name is listed. **Tip:** This is the default action if double-clicking a row.
	Active job options These options let the user view or search job logs, end jobs and more. Only applies if a job name is listed.
	**Copy** Copies all selected rows to the clipboard.
	Copy Message(s) Copies just the Message column for all selected rows to the clipboard.
	**Select All** Selects all rows.
	Export All This will create a file with the entire contents of the message view.
	Clear Removes everything from the view.

2.11 Set Font

Another feature of iDoctor is the ability to customize the font used in the GUI. The Set Font dialog provides the user with this flexibility. To change the font, use the Edit->Set Font menu from the Main Window or Data Viewer (or right-click on an active Table View and use the Set Font... menu).



This window is also accessible in Preferences -> Fonts/Colors under the 2 Font label change buttons. Both the regular font and fixed-width font can be customized.



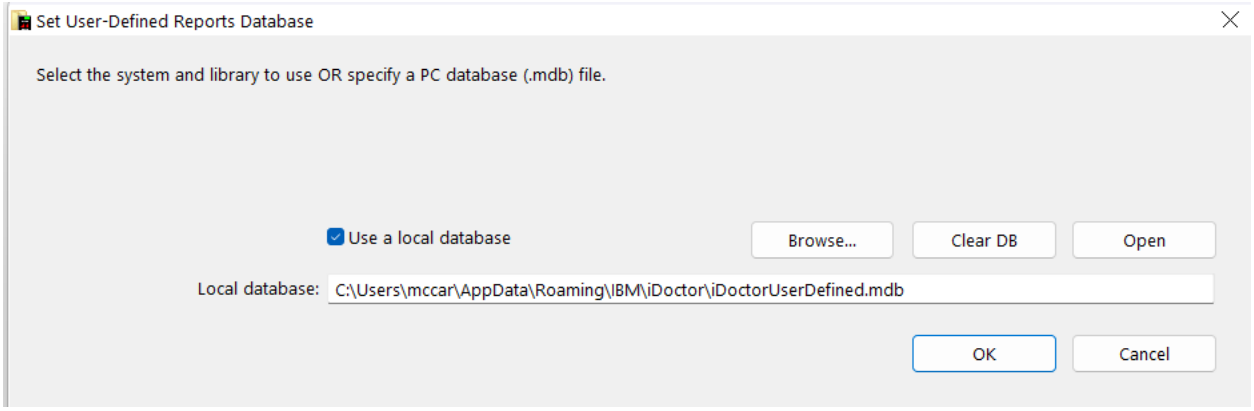
2.12 Wait Bucket Preferences

This option no longer exists.

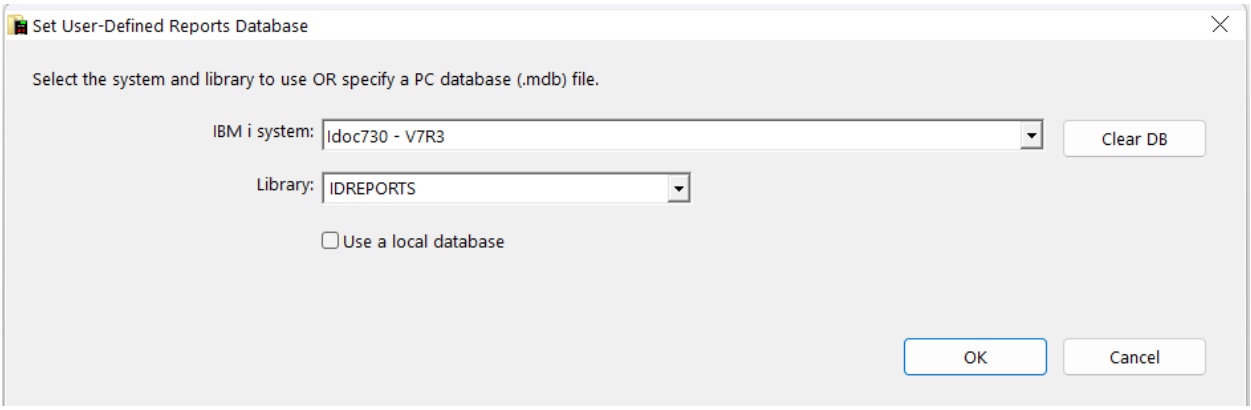
2.13 Set User-Defined Reports Database

This window allows the user to specify the database where iDoctor user-defined graphs and tables are located. This allows for multiple users to potentially access the same user-defined reports.

The database used can be either an IBM i library or an MS Access database file residing on the PC or a shared network drive.



Set User-Defined Reports Database window with a local database selected



Set User-Defined Reports Database with an IBM i library selected

The easiest way to share your reports with other users is to use the same library on a shared IBM i. If all users configure their Set User-Defined Reports database, then those users will be able to share the same reports that they create with iDoctor.

When the window is first opened the current setting for the user-defined reports DB will be shown.

If using an IBM i library as the database, these are the tables that will exist on the library making up the database.

COLUM00001 - This is the COLUMNDESCS SQL table which is typically named COLUM0001.
QAIDRCATS - This defines the folders
QAIDRGPH - Graph definitions
QAIDRRGEN - Report generator lists
QAIDRSQL - SQL statements (for graphs and/or reports)

You can move these tables to other libraries/systems to backup or reuse them as needed.

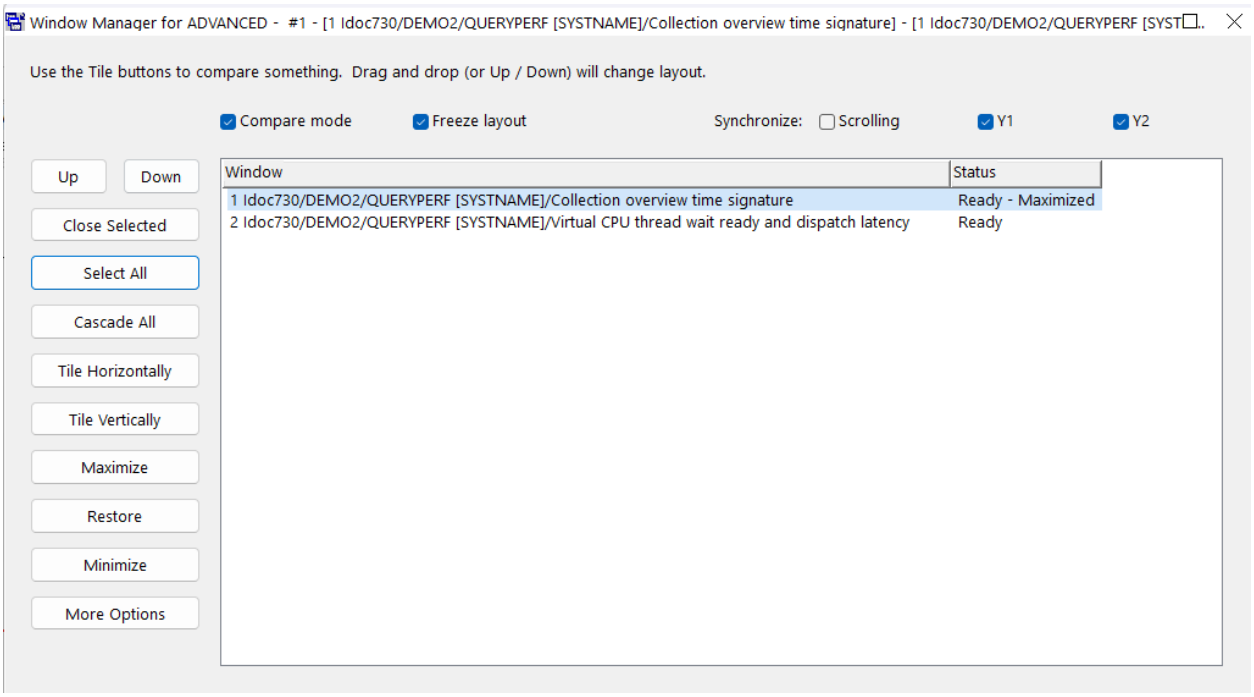
2.14 Window Manager

The Window Manager is an option found by pressing the button on the Main Window or Data Viewer toolbars. The window allows a user to see a list of all windows (or views) open and to pick the desired one to activate. Clicking on a different Data Viewer or Main Window while this window is open will update its contents to reflect the views that exist.

You can also control which windows are tiled using this interface. Just select the views you wish to compare and use one of the Tile buttons to perform the comparison.

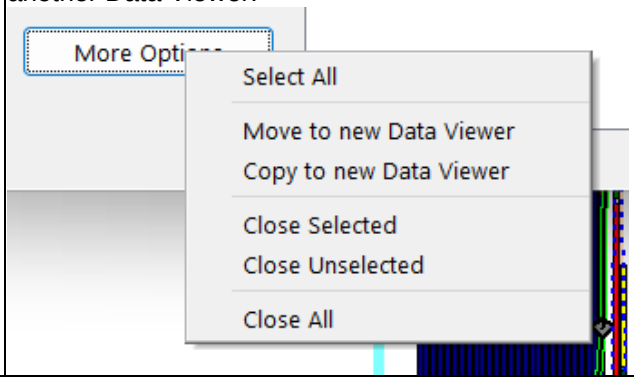
Tip: You can click a window in the list to activate it.

If using this option for a Data Viewer, then additional controls will appear to allow for graph comparisons.



☐	**Compare mode** This option enables Compare mode in the Data Viewer for the selected windows. This only works for graphs and tables. Use one of the Tile buttons to initiate the comparison.
☐	**Freeze layout** Not yet implemented
☑	**Synchronize scrolling** If Compare mode is activated, this synchronizes scrolling for all selected windows. **Y1/Y2** If Compare mode is activated, this synchronizes the Y1 or Y2 axis. This only applies to the maximum value and all graphs will update to use the same maximum.

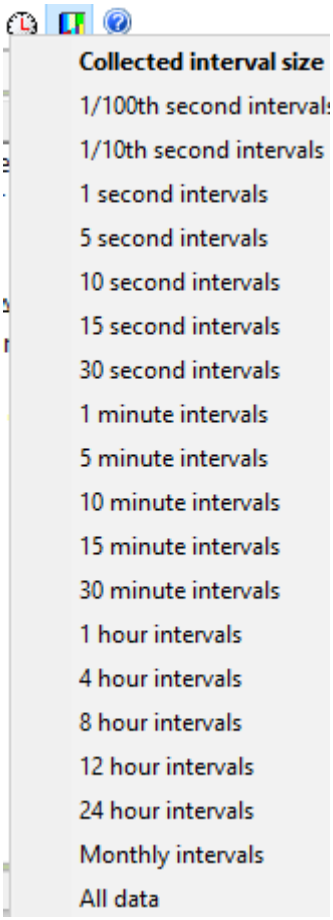
OK	**Up/Down** Use this option to move the selected window(s) higher/lower in the list. Note: The order of selected windows determines how they appear when tiling.
OK	**Close Selected** This option will close all selected, non-busy windows. If a window is busy, it will be skipped and not closed.
OK	**Cascade All** This option will arrange ALL non-minimized windows so the caption for each is visible.

OK	**Tile Horizontally/Vertically** Arranges the selected windows as horizontal or vertical, non-overlapping tiles for comparison purposes. 2-6 selections may be used.
OK	**(These options apply only to Standard MDI mode.)** **Maximize** This will resize the selected window so they take up the entire window area. **Restore** This will reposition all selected windows to their previous state (if maximized or minimized). **Minimize** This will hide from view all selected windows.
OK	**More Options** Click this to show a menu containing additional options. This includes the ability to move graphs/reports to another Data Viewer. 

2.15 Set default time grouping (clock icon)

The clock icon on the Main Window toolbar allows a user to modify the default time grouping on all iDoctor time-based graphs. Many groupings are available and make it easier to get a summarized view over larger volumes of data. It is often not feasible to scroll through many pages of data or try to graph thousands of points on a single screen.

To enable this option, press this  button and a list of options will be shown. Picking the desired grouping will change the current default value for the time interval size. The current default setting will be shown in bold font.

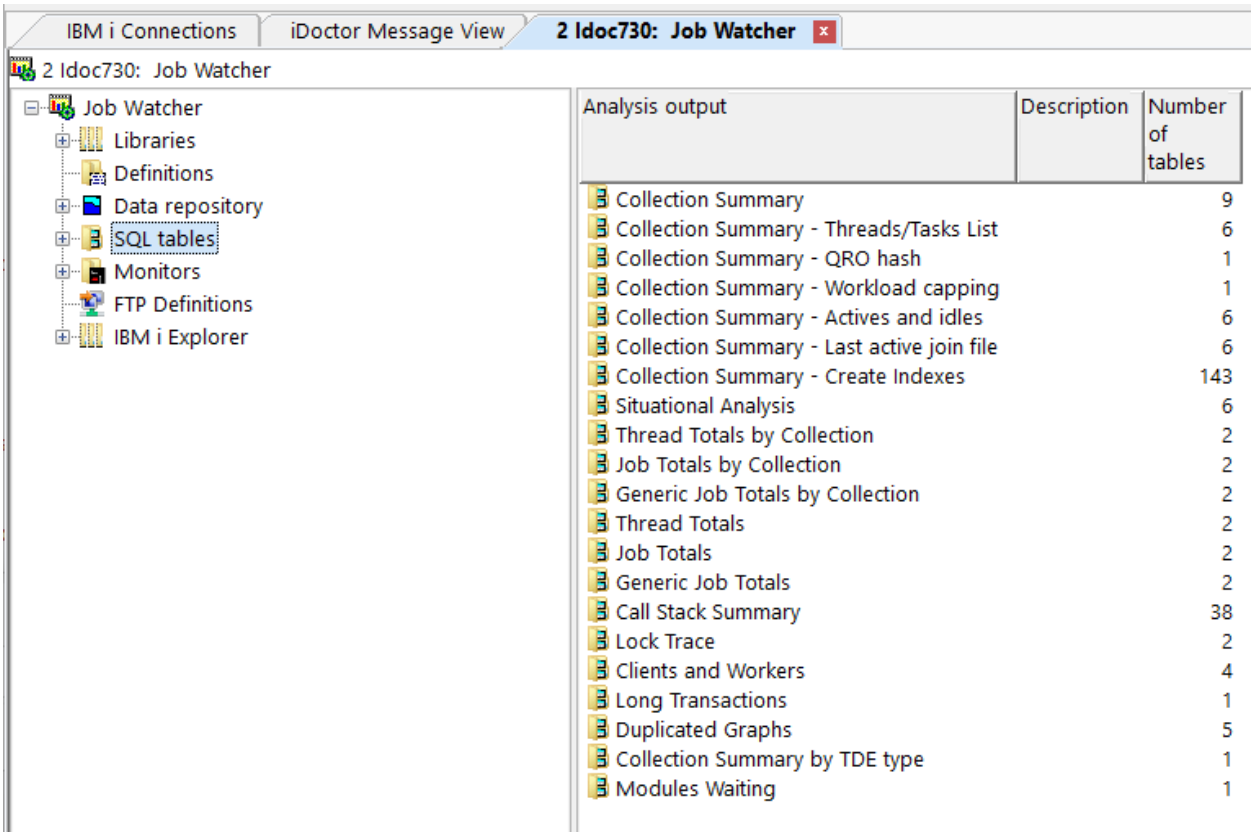


Clock icon menu

Note: This same preference may also be set using the **Preferences -> Display -> Default time grouping** setting.

2.16 SQL Tables

The SQL tables folder in iDoctor is used to manage and work with the SQL tables generated by iDoctor analyses. This view organizes each type of SQL table into its own folder called "Analysis Output". This allows the user to more easily merge, graph and compare results from these tables by selecting the ones of the same type across different libraries and collections.

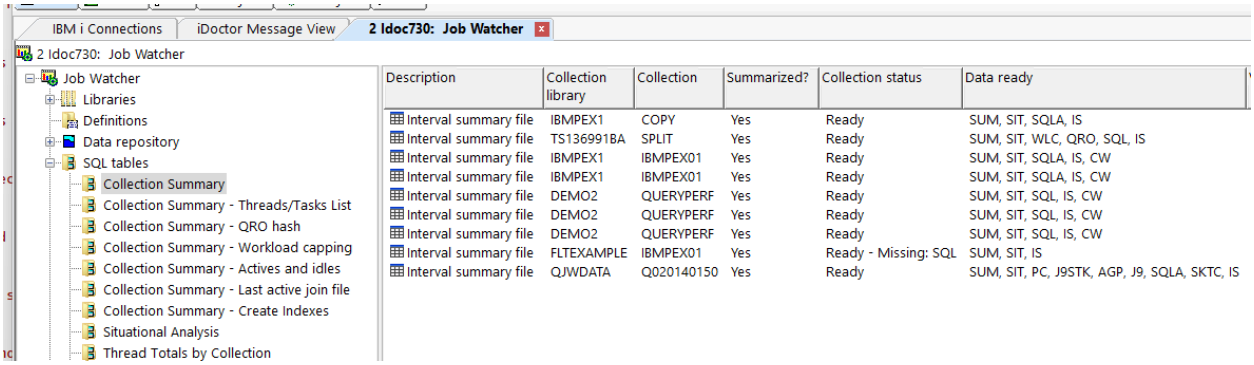


Some analyses such as the Collection Summary, generate more than one SQL table. In those cases, you may see an Analysis Output folder for each SQL table generated by the analysis.

The SQL tables interface is also available under each library shown, and under each collection. This filters down the SQL tables to only include those in the current library (and/or collection.)

2.16.1 Analysis Output

Within each analysis output folder will be a list of SQL tables found on the system that match the output folder you are working with.



Double-click a table to view it.

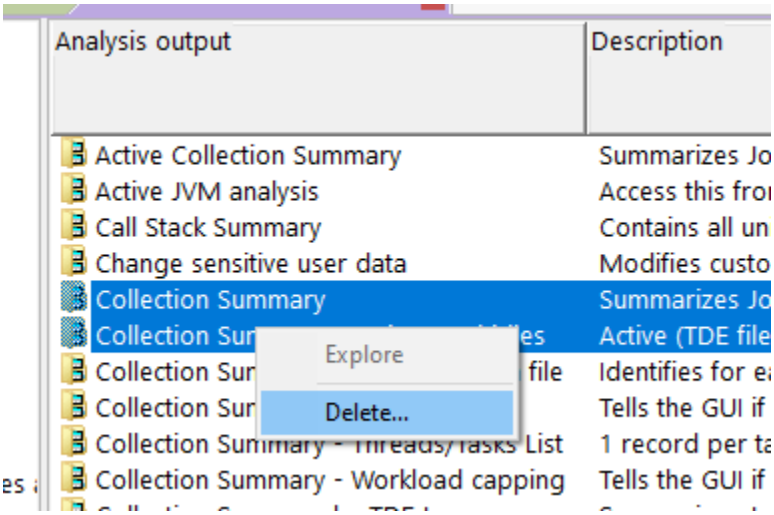
2.16.1.1 Menu Options

Right-clicking one or more SQL tables shows the following menu options:

	Open Table(s) Opens the desired SQL tables in the Data Viewer.
	Record Quick View Lists the information about the selected SQL tables vertically in a new window.
	Open merged table This option will be a report that combines all the selected table's data into 1 report. The data is simply UNIONed together and is not summarized.
	Create merged table… This option allows you to build a new table from the contents of all selected tables. You will be prompted for the name and library for the new table.
	Delete This option lets the user delete the selected SQL table(s).
	Properties Displays property information for the SQL table.

2.16.2 Deleting

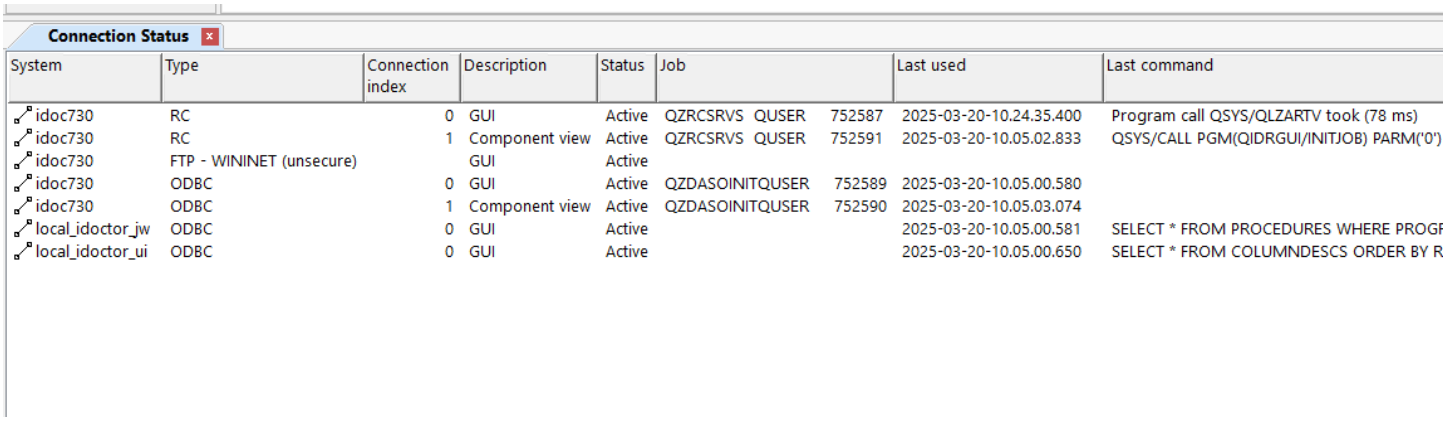
The SQL tables can be cleaned up (deleted) if desired by right clicking the selected analysis output folders and using the Delete... menu. You can also select multiple folders when doing this action if desired.



Tip: To delete all iDoctor created SQL tables on a system, right-click the SQL tables folder itself under the Root Folder and use the Delete… option. This deletes all SQL tables for the current component on that system.

2.17 Connection Status View

This interface displays information about *most* connections used by iDoctor excluding any SSH connections. The types of connections shown are those for QZDA* (ODBC), QZRC* (Remote commands and program calls) and QTFTP* (File transfer jobs.



2.17.1 Menu Options

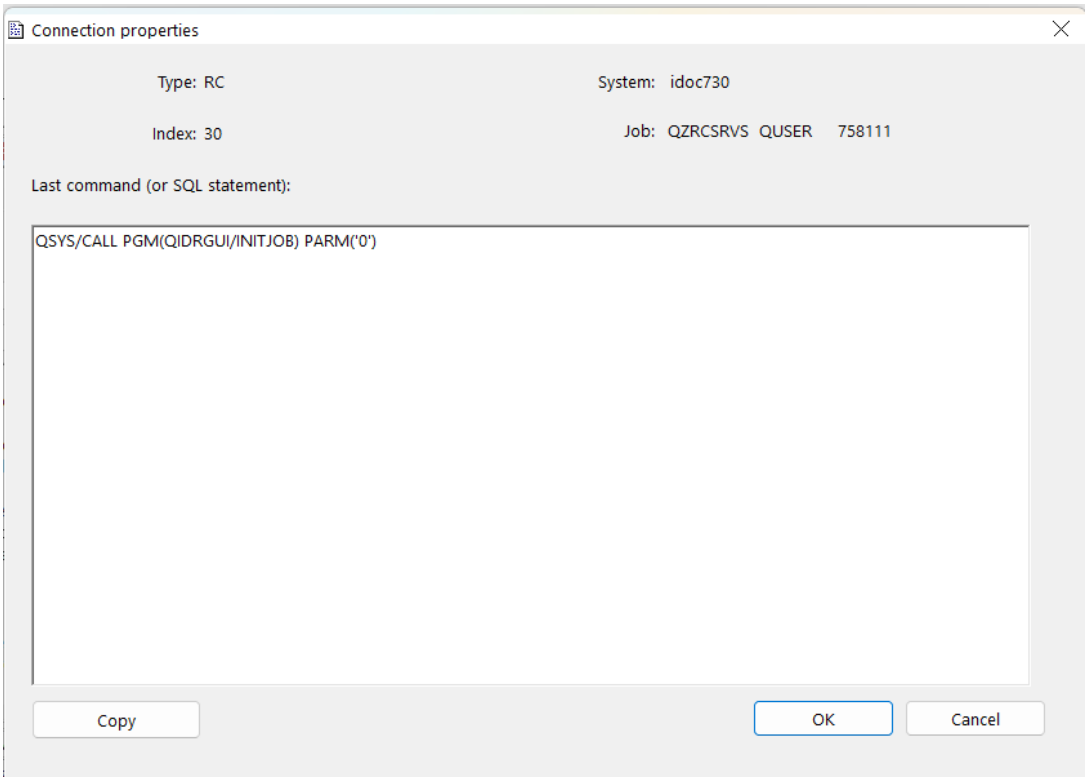
Right-clicking a connection shows these options:

	Display Job Log Shows the job log for the selected connection. Only applies to IBM i connections with a Job value listed.
	Active job options These options let the user view or search job logs, end jobs and more.
	Copy Selected Commands to Clipboard Copies all selected “last command” values listed in the entries selected to the Windows Clipboard.
	**Properties** This shows the Connection Properties window. **Tip:** This is the default action if double-clicking a row.

2.17.2 Connection Properties

This interface is shown when double-clicking a connection in the Connection Status View.

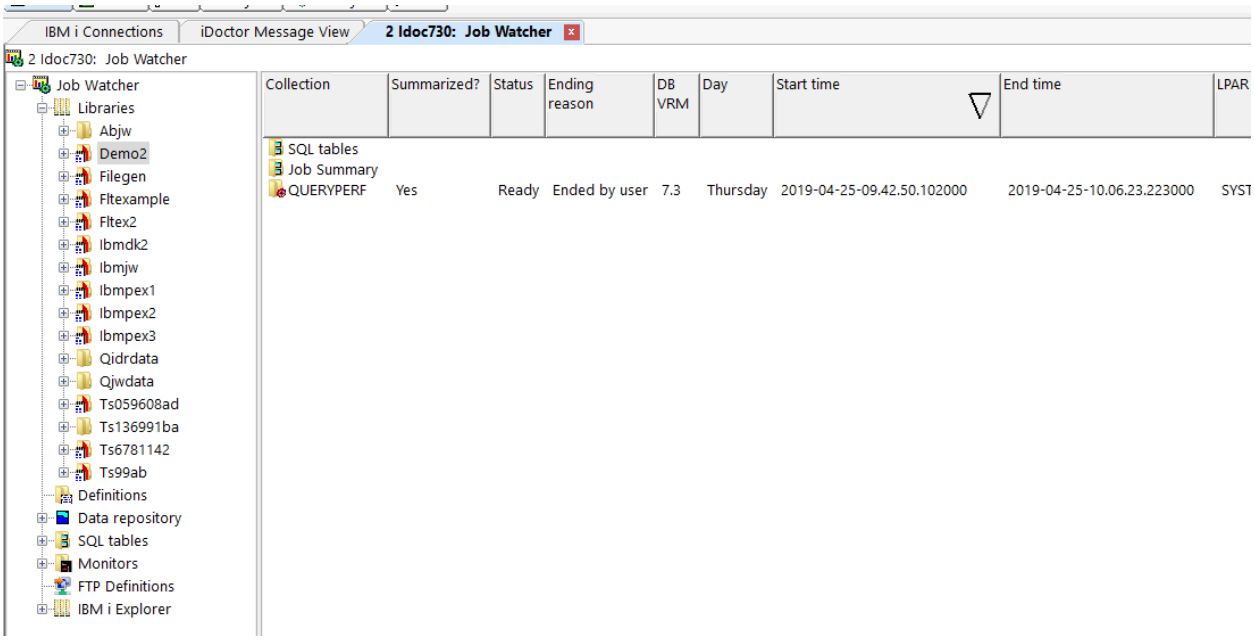
It mostly exists to make it easier to see and/or copy and paste the last SQL statement or command executed.



	Type Identifies the type of connection which can be these possible values: ODBC – A connection running SQL statements. If the system is an IBM i this means a QZDA* job is running to serve it or this is a local (mdb database) connection if system is named local_idoctor_*. RC – A QZRCSRVS IBM i Access Client Solution remote commands or program calls. FTP – This is for file transfers. **Note:** SSH connections are not listed in this interface.
	System Identifies the system associated with this connection. If this is local_idoctor_*, then the system is the PC.
	Index This is a number associated with the connection. Since the GUI offers multithreaded views, several connections are needed to avoid hanging while performing work. 0 - Main GUI thread. Anything running in this connection taking a long time will hang the GUI. 1, 101, 201, etc - Component views 2 - Remote Command Status View or Remote SQL Statement Stats View 3, 103, 203, etc – Interval Details/Interval Summary interface 10, 20, 30, 40, etc - Data Viewer graph/table
	Job The name of the job servicing the connection (if system is an IBM i.)
	**Last command (or SQL statement)** This lists the last command or SQL statement executed by the connection.
	**Copy** This copies the data on the screen to the windows clipboard in text format.

3 Component Views

Component views are the primary means of working with any of the iDoctor components. You can have as many component views open within a Main Window as desired.



Component views look and feel consistently across the various components. The tree represents the hierarchy of options available within the component you are using.
Under the libraries folder, you will find all libraries on the system that contain data for the component you are working with. Under libraries you can find collections, and the reporting options available within.
Your current selection in the tree is always displayed in the list portion of the tree/list.

Tip: Because of the tendency to deal with large amounts of data and a desire to have the client perform optimally (reduce network traffic, etc.), refresh has been implemented in a way unlike most other applications. The refresh toolbar button  or menu will refresh only the contents of the selected tree branch. For example, if a library is selected in the tree, only the contents of the library will be refreshed, not the list of libraries in the tree. Refreshing the list of libraries would require selecting the folder above the list of libraries (typically the Libraries folder.)

3.1 Menu Options

The menu options when right-clicking the root folder in the tree for an IDoctor component are:

	Open This expands the component and shows the available options.
	Active Data The Active data menu provides the ability to access commonly used graphs or other functions for the currently running Job Watcher monitor collection or Collection Services collection.
	**Open Knowledge Base** This opens the Knowledge Base component on whatever system in the list of IBM I connections defined as the default system (with a checkmark icon next to it.) This is a repository for storing your notes about performance data captured in iDoctor.

	**Open new Data Viewer** Opens an empty Data Viewer.
	**Find Collections…** This option displays the Find Collections interface which provides the ability to look for collections matching user-defined characteristics. Example SQL statements are provided. The results of these queries are available under the IBM i Explorer -> Find collections results folder.
	Set User-Defined Reports Database This option allows a user to load/use another user's iDoctor user-defined reports/graphs that they have previously created. When saving user-defined reports these are saved into the specified database. This can either be an IBM i library or a local database on the PC (MDB file). To find the current user-defined reports DB settings, either use this menu option or see the application properties (Help -> About menu) and then look for the "User-defined reports DB" location.

	**Clear GUI Cache** This option deletes most temporary data loaded in the GUI's memory. This includes things like preferences, column orderings, reports and graph definitions, stored procedure information and more.
	**Work with iDoctor scheduled jobs** This option will navigate to the Work management -> Scheduled jobs folder under IBM i Explorer.
	Collections Database These functions allow you to work with the Collections Database which is used to keep track of collections on the system.
	**Properties** Displays basic information about the component including build level information.

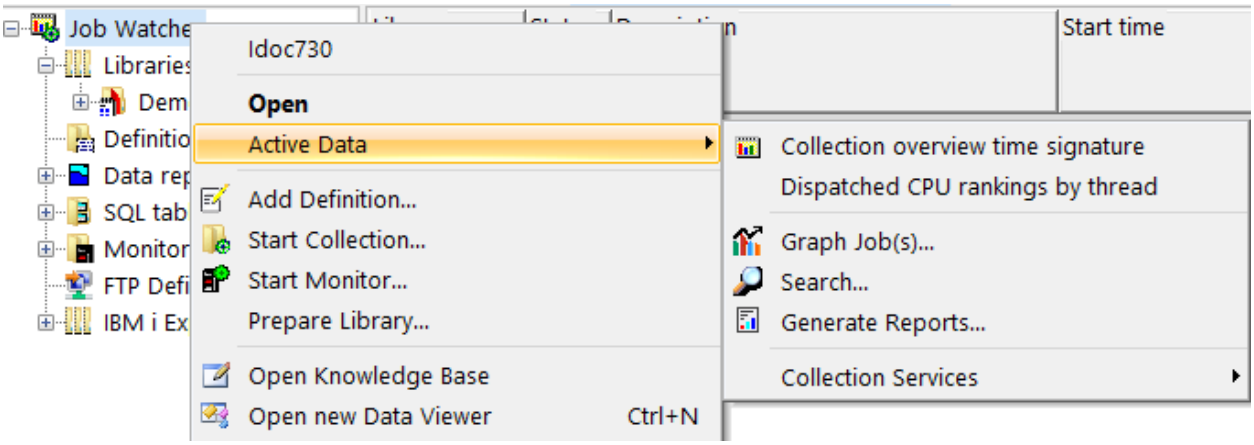
Note: Additional options will also appear but are discussed in the documentation for the component you are working with.

3.2 Active Data

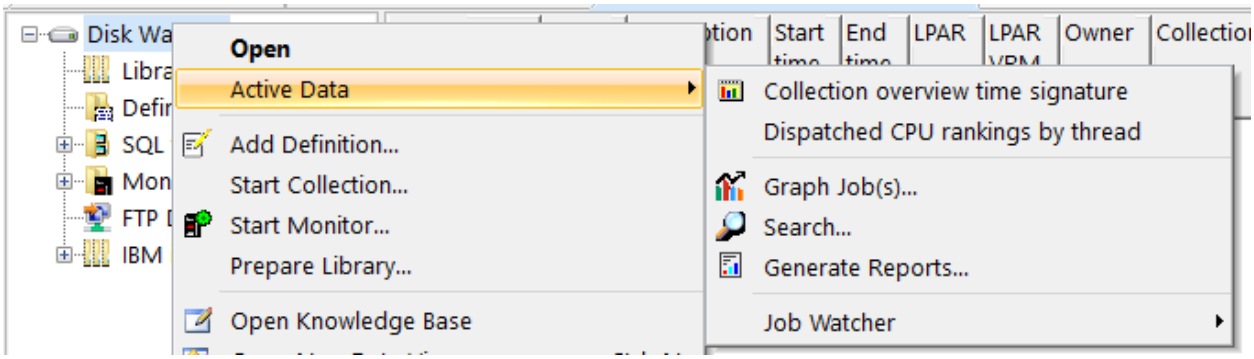
These options allow you to work with the currently running Job Watcher collection **if using STRJWMON** to collect data or the current Collection Services collection if CS is active.

Note: These options will fail with an error if JW and/or CS is not running.

The **Active data** menu options will vary if currently using Job Watcher or Collection Services Investigator and shows the options for the current component being used first.



If not using either, then Collection Services options are shown first.



Tip: These functions are described in more detail in the documentation for Job Watcher or Collection Services Investigator.

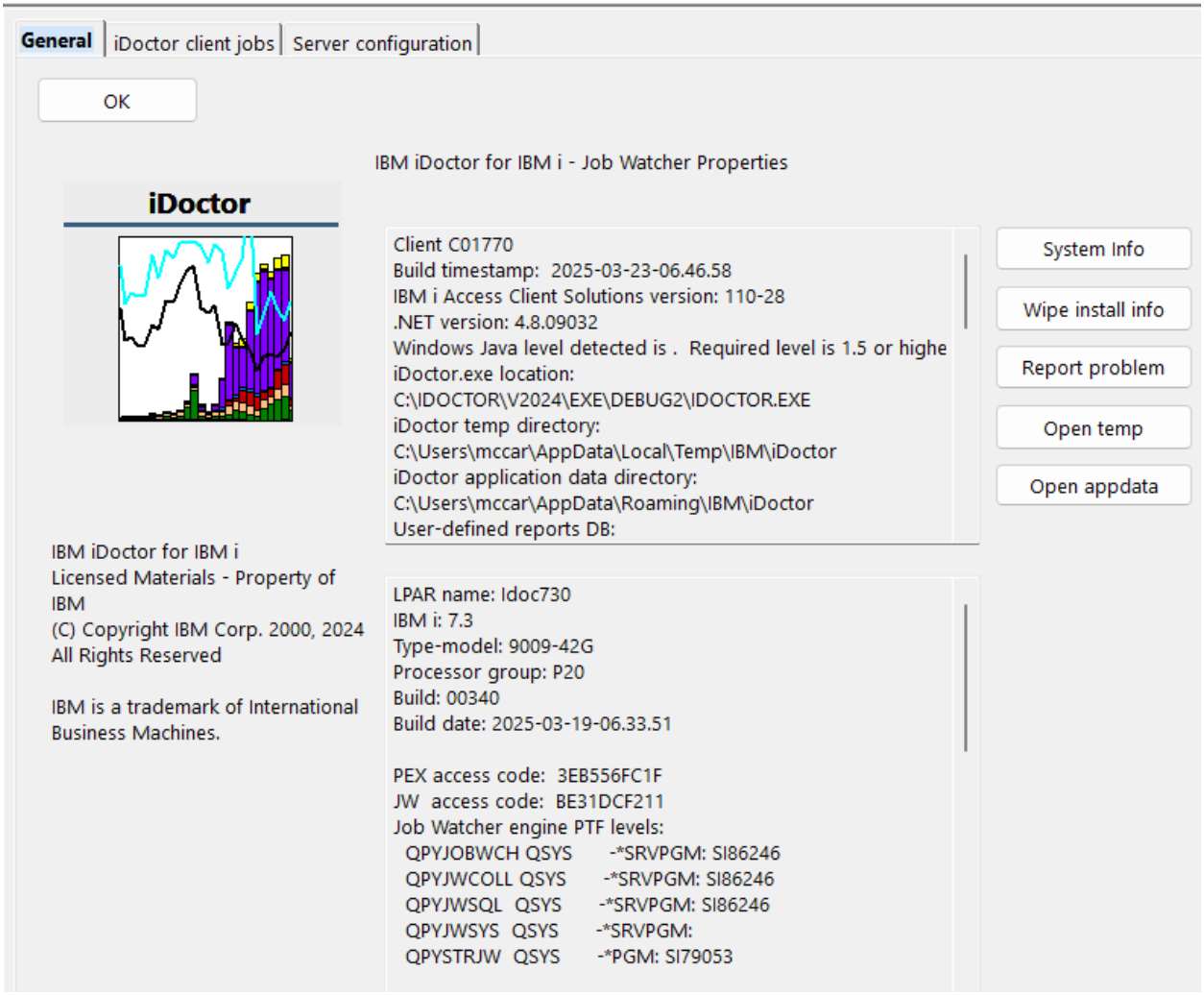
	Collection overview time signature This option will open the Collection overview time signature graph for the actively running collection in either JW or CSI.
	Dispatched CPU rankings by thread This option will graph the jobs in the currently active collection showing the ones using the most CPU first.
	Graph Job(s) The Graph jobs function is used to select a job from the currently active collection and then pick and graph from any graph available the job's data over time. See the documentation for Job Watcher or Collection Services Investigator for more details.
	Search The Search function is used to find something of interest in the currently active JW or CS collection.
	General reports This function is used to produce a report by choosing which graphs or reports to run against the active collection and then a single HTML or PDF output file is created.

3.3 Properties

The Properties for the component have a similar interface for each of the iDoctor components. This interface contains high-level configuration settings such as: the build levels, configuring iDoctor job run priorities or listing any missing PTFs. Access this interface by right-clicking the component icon (root folder) and using the Properties menu.

3.3.1 General

An example of the General property page for Job Watcher is shown below:



The following information is supplied within the General tab of this window:

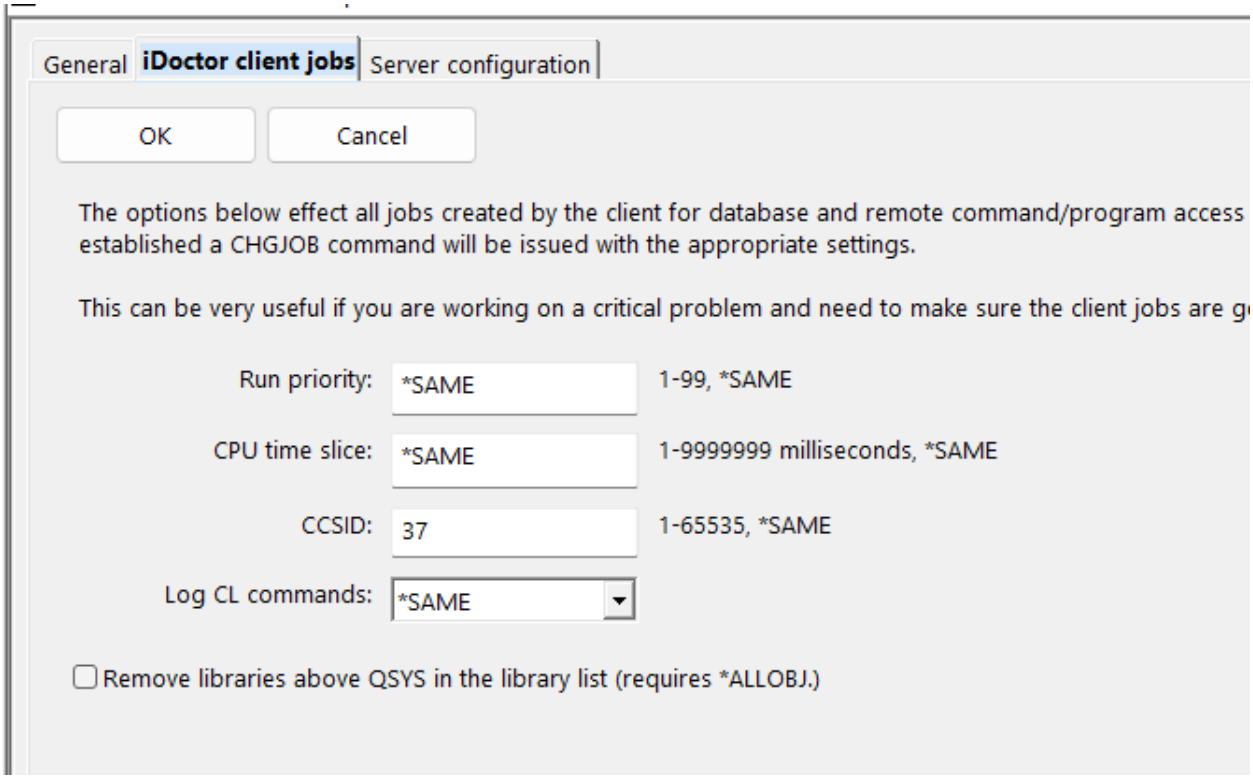
Client Version Information	**Description**
Client Cnnnnn	The client build number installed is listed near the top of this window.
Build timestamp	The date/time the build was produced.
IBM i access	The installed VRM and service pack level for IBM i Access Client Solutions **with the windows application package!**
.NET version	The version of .NET installed. If not updated to the required levels, then some of the FTP functions will not work.
Java version	Information about the level of Java installed. If not installed, then the user will be unable to use the SSH connections required in the Power Connections component.

iDoctor exe location	The directory and filename for the iDoctor GUI application.
iDoctor temp directory	The directory where temp files and some log files created by iDoctor are stored.
iDoctor application data directory	Files needed by iDoctor are stored in this directory.
User-defined reports DB	This value displays the location of the user-defined reports database.
Copy Info	This option will copy the data on this window to the clipboard as text.
System Info	This option will display the Windows System Information utility.
iDoctor GUI install history	A list of all iDoctor builds installed on the PC. This can be used to tell which build level was previously installed. This information is only removed if the user presses the Wipe install info button.
Wipe install info	This will remove information from the Windows registry that provides the iDoctor GUI install history.
Report problem	This will open the default email program on the PC to send an email to idoctor@us.ibm.com for support purposes. This provides debug information automatically in the email generated and is recommended!

Server Version Information	**Description**
LPAR name	The system that the current component view is connected to.
IBM i	The version and release of IBM i on the system.
Type-model	The type and model of the system.
Processor Group	The processor group of the system.
Build	Build number of this component installed on the server side. **Note:** We now prefer to reference server builds by date instead of build number when contacting support.
Build timestamp	The date/time the server build was produced. This value is shown in yyyy-mm-dd-hh.mm.ss format.
PEX access code	The last PEX Analyzer access code applied on this system.
JW access code	The last Job Watcher access code applied on this system.
PTF levels	This lists information about the JW PTFs installed (if working with Job Watcher), or the PEX PTFs installed (if working with PEX Analyzer).
Stored procedure versions	This provides a list of iDoctor stored procedures and their versions installed in the QIDRGUI library.

3.3.2 iDoctor Client Jobs

The following is an example of the iDoctor Client Jobs interface:

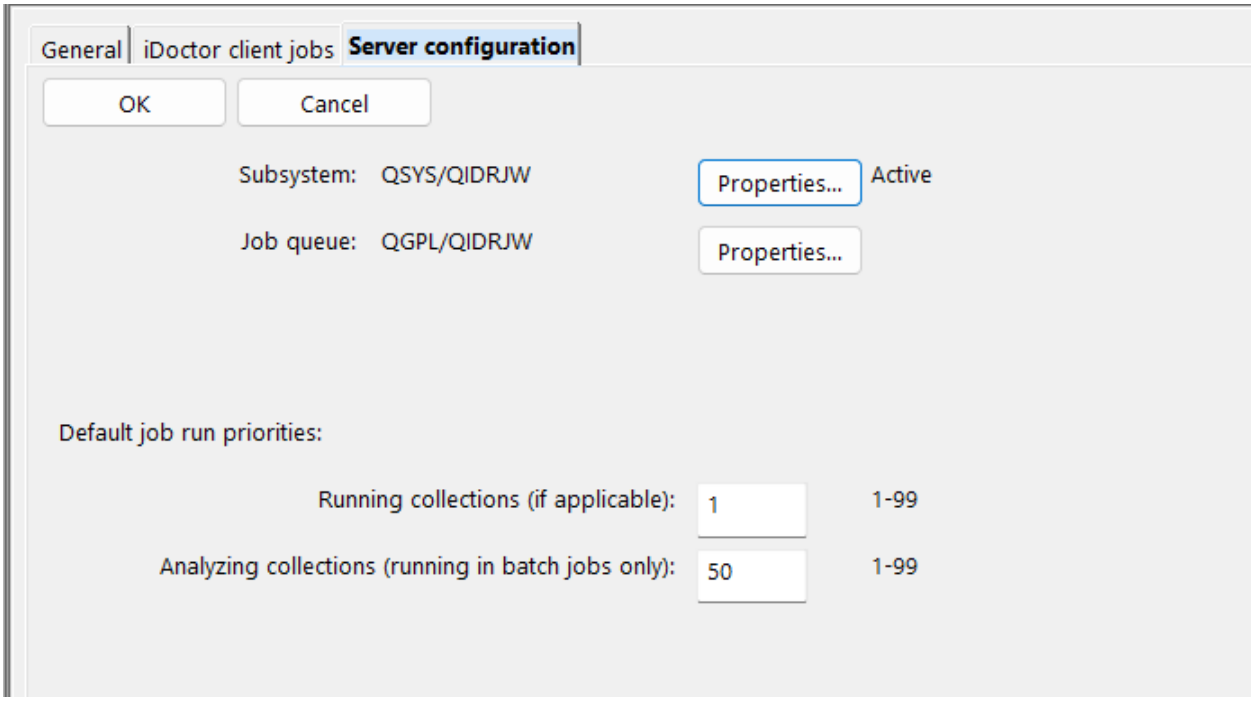


This page lets you set the run priority and CPU time slice of all iDoctor client jobs. You can increase the run priority of the jobs that execute SQL statements that perform real-time analysis using the iDoctor GUI. This should only be set by advanced users and does require that the user profile you are connecting to the system with has *JOBCTL special authority. You must shut down the client and restart for any changes made on this screen to take effect.

	Run priority Effects the run priority of all QZDASOINIT and QZRCSRVS jobs created by the iDoctor GUI. After the connections are started, the client will attempt to issue a CHGJOB command to adjust its run priority.
	CPU time slice Specifies the maximum amount of processor time (in milliseconds) given to each thread in the job before other jobs on the system are given an opportunity to run.
	CCSID The CCSID the job(s) should run under. Typically this should be set to 37 for best results.
	Log CL commands Indicates if CL commands should be logged to the job log or not (when possible.)
	Remove libraries above QSYS in the library list Use this option if you have other libraries above QSYS that have unexpected implementation of IBM i commands causing the GUI functions to fail. This option requires *ALLOBJ authority.

3.3.3 Server configuration

The following is an example of the Server configuration page.



The subsystem and job queue used for batch jobs created by iDoctor is shown on this page.

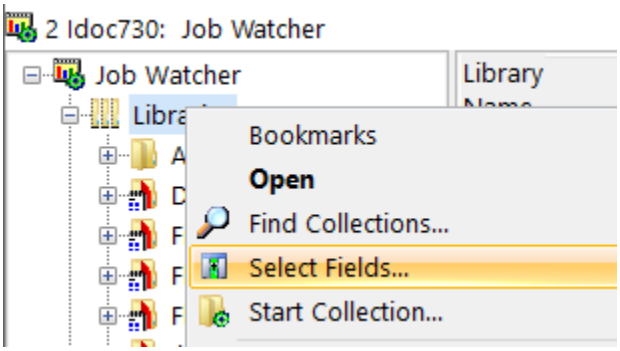
If any of the required PTFs are not installed, they will be listed on this screen at the bottom. It's not recommended to run collections until these PTFs are installed.

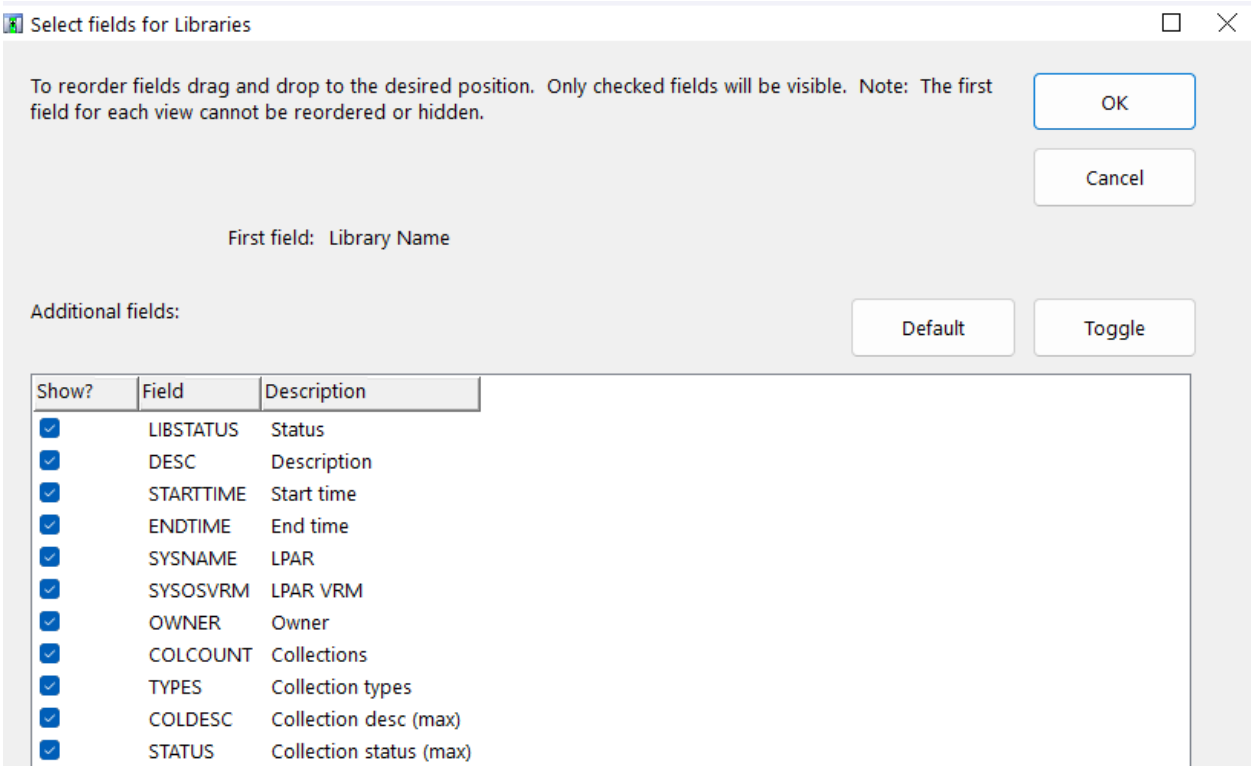
The default run priorities used when running collections and analyzing collections are shown and may be modified if desired from this page.

Note: The analyzing collections value only applies when running the analyses in batch instead of a QZDASOINIT client job. Use the iDoctor client jobs tab to affect the priority of the analysis process at those releases.

3.4 Select Fields Window

The Select Fields Window is a generic way to work with the fields shown in the list portion of a tree/list view. This window is available via the 'Select fields...' menu from any objects that has Select Fields enabled. Not all folders in the tree have Select Fields enabled.





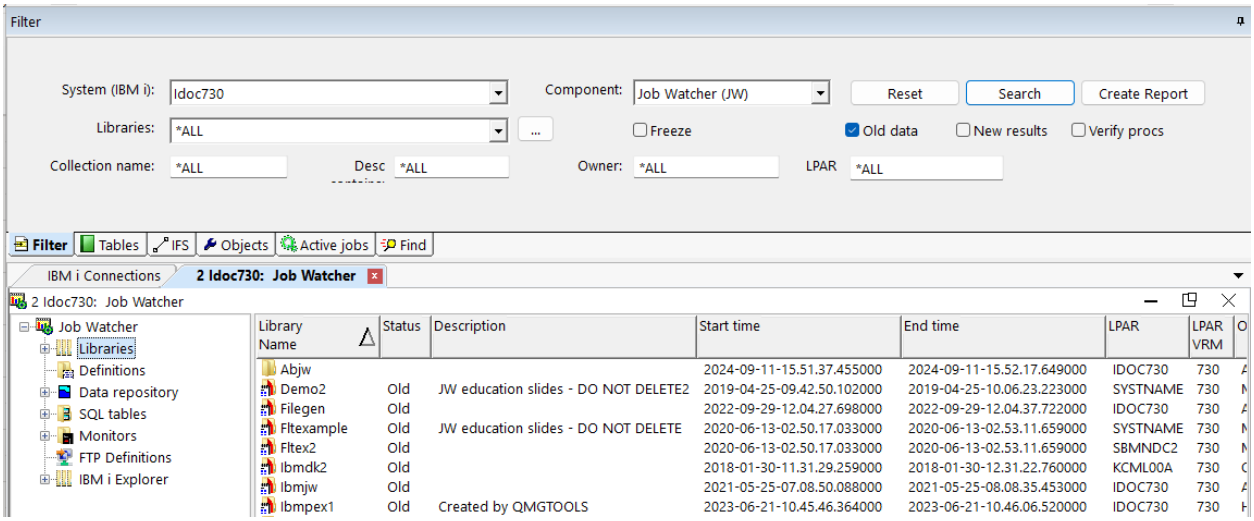
Any changes you make are saved to your PC's registry and reused the next time you open the view you are working with. To restore to the iDoctor-ship default ordering click the "Default" button. The "Toggle" button is a fast way to toggle the show checkbox for several selected fields in the list at once. To select multiples, hold down the ctrl or shift key while clicking your mouse on entries in the list.

	First field Lists the first field in the list. It cannot be removed or changed.
OK	**Default** Discards all changes and reorders the list of fields to the IBM-shipped defaults.
OK	**Toggle** Hides or shows the selected fields in the list by toggling the checkbox.
	Additional fields list List of available fields to include. You can press the space bar or click the Toggle Selected button to check/uncheck the box for the selected fields. Use drag and drop to reorder the fields in the list.

3.5 Libraries Folder

Most components in iDoctor contain the Libraries folder. This folder displays all libraries on the system that contain applicable data for the component you are working with.

Use the Filter Pane at the top of the interface to control which libraries appear in the listing. Several options are available to filter by partition name, library name or library description.



3.5.1 Menu Options

The Libraries folder (when right-clicked) provides the following menu options:

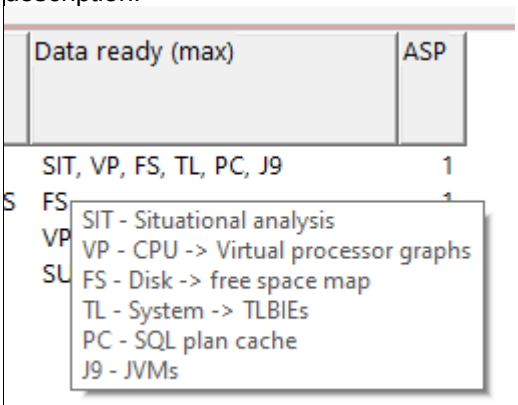
	Bookmarks If bookmarks have been defined for the Libraries folder they will appear under this option.
	**Find Collections…** This option displays the Find Collections interface which provides the ability to look for collections matching user-defined characteristics. Example SQL statements are provided. The results of these queries are available under the IBM i Explorer -> Find collections results folder.
	**Select fields…** This option allows you to modify the columns shown in this folder.
	**Upload…** This allows data to be sent to the IBM i (typically a SAVF containing performance data.)
	**Add Bookmark** This is used to bookmark the Library folder using whatever filters appear above in the Filter Pane.

3.5.2 Fields

This section discusses the columns shown within the Libraries folder.

The columns with a (*) are shown by default. The other columns can be added by right-clicking the Libraries folder and using the Select Fields… menu.

Tip: If many fields are shown blank, then the collections database should be refreshed using the **Collections database -> Refresh all** menu from the root folder in the component view interface. This database is cleared after each reinstall of the server builds.

Field	Description
Library name (*)	Library that contains performance data matching the component you are using.
Description (*)	Library description
Owner (*)	**Note:** This is the owner of the table being searched (i.e. QAPMCONF for CS, or QAPYJWRUNI for JW) and not the library *LIB object in QSYS.
Collections (*)	Number of collections in the library (as of last refresh.)
Collection types (*)	This is a comma separated list of collection types found in the library. JW – Job Watcher CS – Collection Services DW – Disk Watcher PA - PEX
Partition collected on VRM (*)	The VRM of the system where the data was captured.
Partition collected on (*)	The name of the system where the data was captured. This is a max value and if data exists from multiple libraries, then only the 1 value is shown.
Start time (*)	The start time of the oldest collection in the library.
End time (*)	The end time of the newest collection in the library.
Collection desc (max) (*)	The max collection description value from the list of collections in the library.
Collection status (max) (*)	The max status from the list of collections in the library. This indicates if any critical data is missing, and putting your mouse of a value in this column will shown if any non-critical files are also missing.
Data ready (max) (*)	This column indicates which types of data has been captured and in some cases it indicates which iDoctor analyses have been ran. For more information about the values shown, use a flyover which will translate the codes into a more meaningful description. 
ASP (*)	This identifies the ASP information applicable for each library.
Created by	The user profile that originally created the library.

3.6 Library Folders

Each library folder in iDoctor has a set of common menu options available which are described in more detail in this section.

3.6.1 Menu Options

	Open Show the collections within the library.
	**Find Collections…** Displays the Find Collections interface and presets the library filter to match the current one.
	**Select fields...** Displays the Select Fields Window. This allows you to configure and reorder the fields that are displayed when showing the list of collections within a library.
	**Download…** This is used to save the selected library to a save file then download it to the PC.
	**Upload…** This option is used to upload a save file to a library.

	**Copy...** Allows you to copy the library's contents into a new library or into an existing one.
	**Save...** This option lets you save the library's contents into a save file on the server.
	Transfer to an IBM i... Allows a user to transfer one or more libraries to another IBM i.

	**Clear** This option clears a library (deletes all objects in the library).
	Clear Server Cache This option clears the iDoctor cache that keeps track of collections. It is sometimes helpful to use this if the collections show incorrect status information such as missing files or analyses data is not being displayed correctly.
	**Delete** Deletes the library.
	**Rename** Renames the library.

	Locks This provides options to view the jobs locking the library or all object locks in the library.
	**Properties** Displays the property pages for the library.

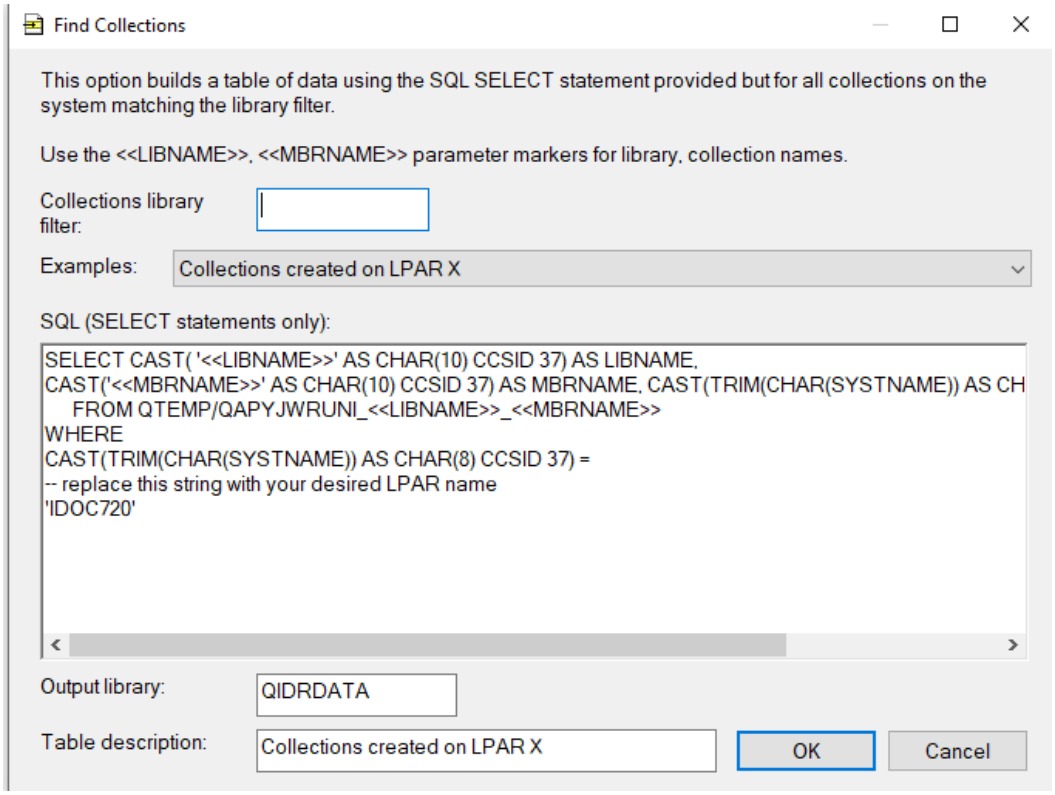
Depending on the component, library folders may have additional options.

3.6.2 Find Collections

This option appears in Job Watcher, Collection Services Investigator, Disk Watcher and PEX Analyzer. Access it by right-clicking the component icon (or library) and choosing the Find Collections menu. It provides the ability to search a system or specific libraries for performance data of interest based on user-defined criteria. Example SQL statements are provided and cover the most needed scenarios.

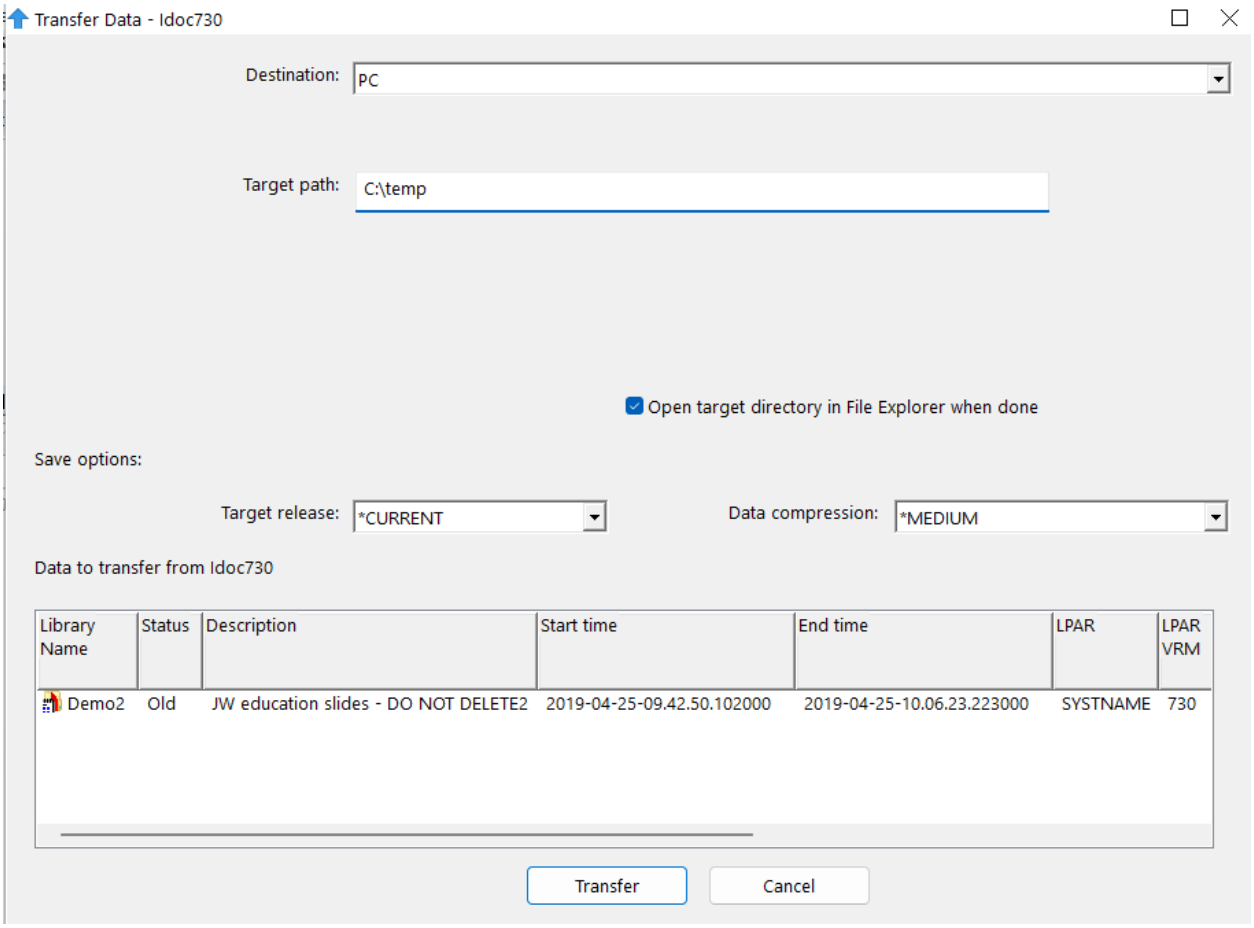
This interface creates a single member SQL table in the Output library specified. These results are shown within the IBM i Explorer -> Find collections results folder and will be executed in the Remote SQL Statement Status View.

Note: Depending on the number of collections on the system, this option could run for several minutes or even hours.



3.6.3 Download

The download option when used for the selected libraries will show the Transfer Data window.



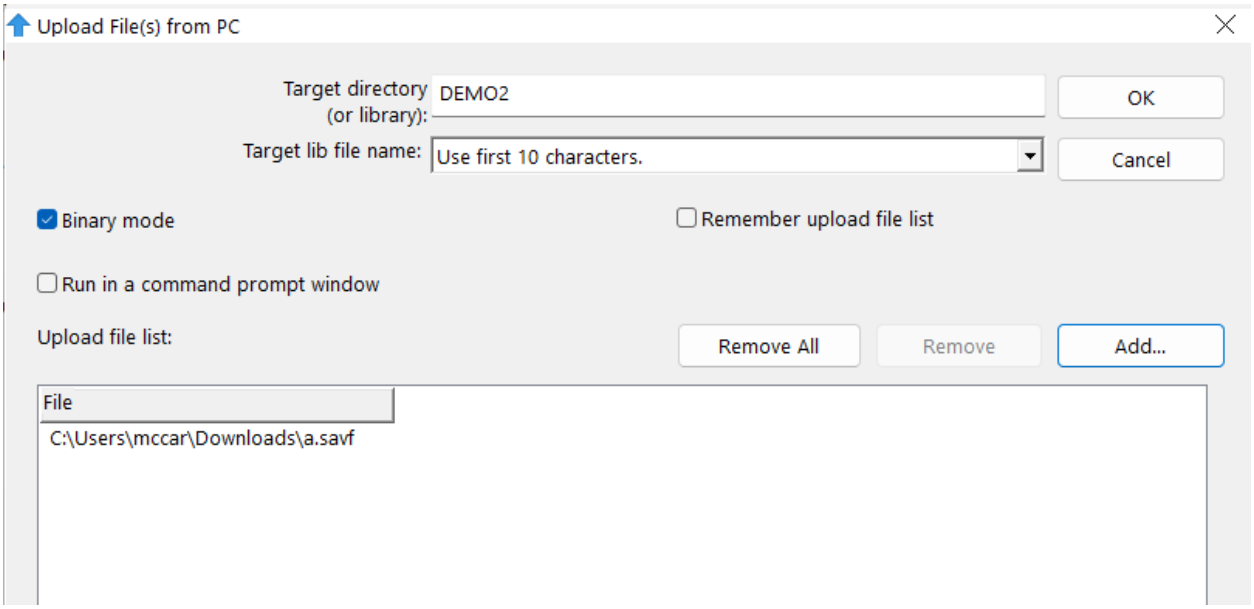
	Destination Indicates where the data will be sent. For a download operation, PC is assumed, although it could be changed here.
	Target path The location on the PC where the save file(s) will be sent. A save file will be created for each library name.
	Run in a command prompt window Indicates if the status of transfers should be visible in a command prompt window. **Note:** This only appears if the IBM i Connection's file transfer method is SSL or SSH.
	Indicates if Window's File Explorer should be opened and navigated to the path after the transfer is complete.

	Target release Specifies the release of the operating system on which you intend to restore and use the object. See TGTRLS parameter for SAVLIB for more information.
	Data compression Indicates the data compression level used. See DTACPR parameter for SAVLIB for more information.
	Data to transfer This is the list of selections made from the previous screen and indicates what will be transferred.

3.6.4 Upload

This option when used from a Library folder shows the Upload File(s) from PC window and fills in the target directory or library textbox with the library selected.

Press the Add button to add the files to transfer to the library and select them from the window that appears.



	**Target directory or library** This window can be initiated from an IFS directory or IBM i library. Depending on the context the value will be one or the other.
	**Target lib file name action** Only if data is being sent to a library and the file name is greater than 10 characters, then one of these actions will be taken to determine the file name to use: - Use the first 10 characters. - Use the last 10 characters. - Use the first 7 characters and a 3-digit unique number. **Note:** This only appears when sending data to a library.

	**Binary mode** Check this box to have the data sent in binary mode, which should always be used unless transferring text files to an IFS directory.
	**Remember upload file list** Use this option if you want the GUI to remember the list of files and repopulate the list again with the same set of files. This can be handy if sending the same files to multiple LPARs.
	**Run in a command prompt window** Indicates if the status of transfers should be visible in a command prompt window. **Note:** This only appears if the IBM i Connection's file transfer method is SSL or SSH.

	Upload file list This is the list of files on the PC that will be transferred to the remote server.
OK	**Add button** Use this button to add files from the PC to the list.

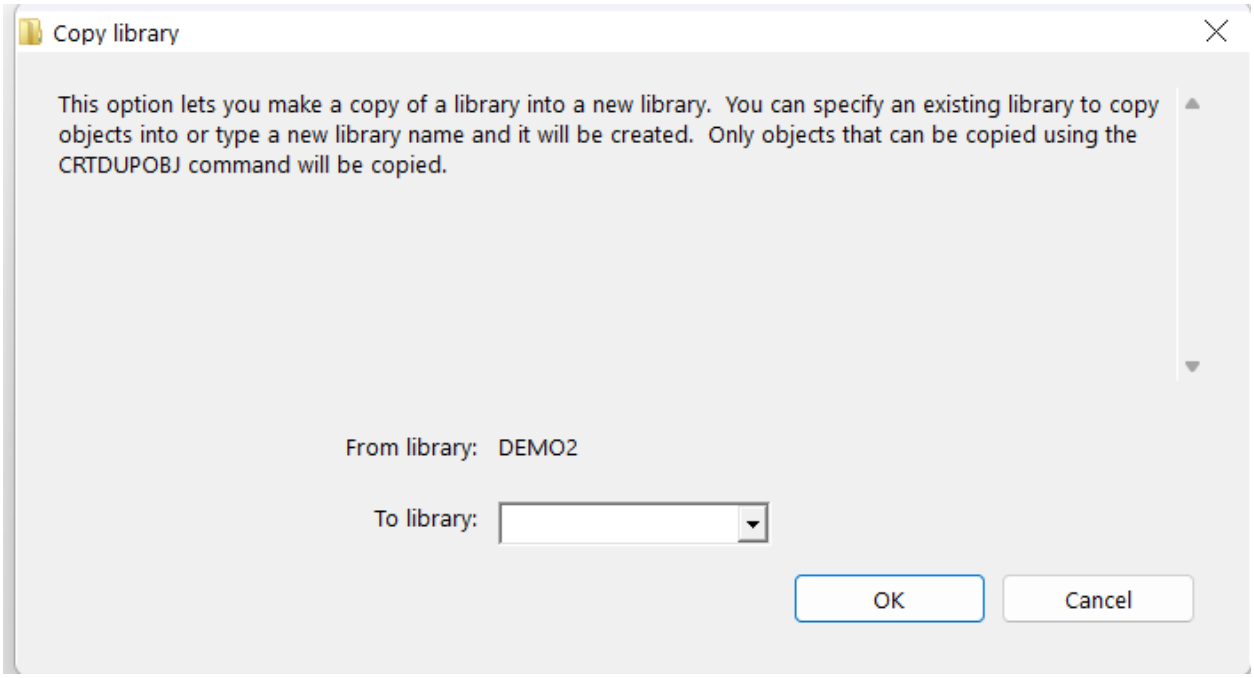
3.6.5 Add Bookmark

Use this option to create a URL and copy it to the clipboard. This defines a bookmark within iDoctor to allow you to return to this library more easily later. The CTRL+D keyboard shortcut can be used to define a bookmark for the active folder, or popup menu option currently with focus.

The URL generated by this option starts with idoctor:// and tells your web browser to launch iDoctor and perform the desired action.

3.6.6 Copy

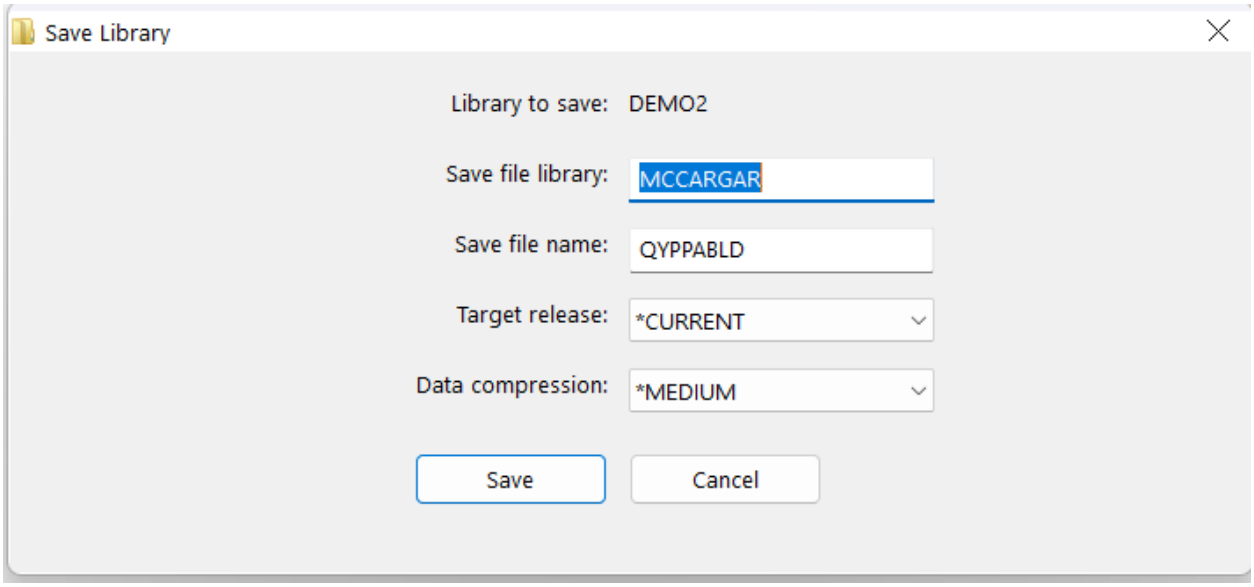
A library may have its contents copied into a new library or into an existing library by using the Copy... menu. The progress of the library being copied may be viewed using the Remote Command Status View.



	From library Displays the name of the library to be copied.
	To library The name of the library that will receive the contents of the from library.

3.6.7 Save

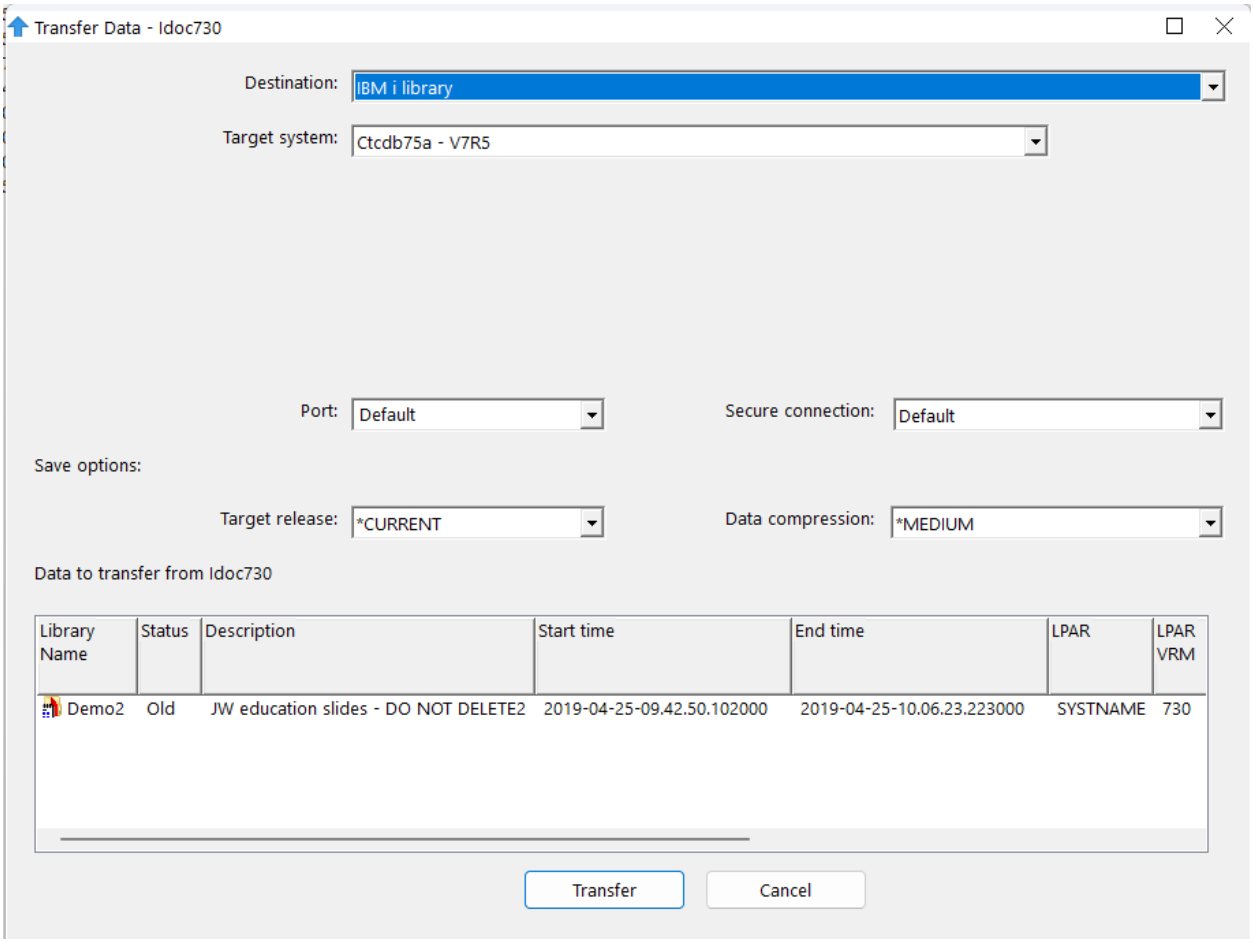
A library's contents can be saved using the Save... menu. The progress of the library being saved may be viewed using the Remote Command Status View.



	Library to save The name of the library to be saved.
	Save file library The name of the library containing the save file. If the save file doesn't exist it is created. If the save file does exist, it will be cleared.
	Save file name The name of the save file.
	Target release Specifies the release of the operating system on which you intend to restore and use the object.
	Data compression Specifies the data compression setting from the SAVLIB command.

3.6.8 Transfer to an IBM i

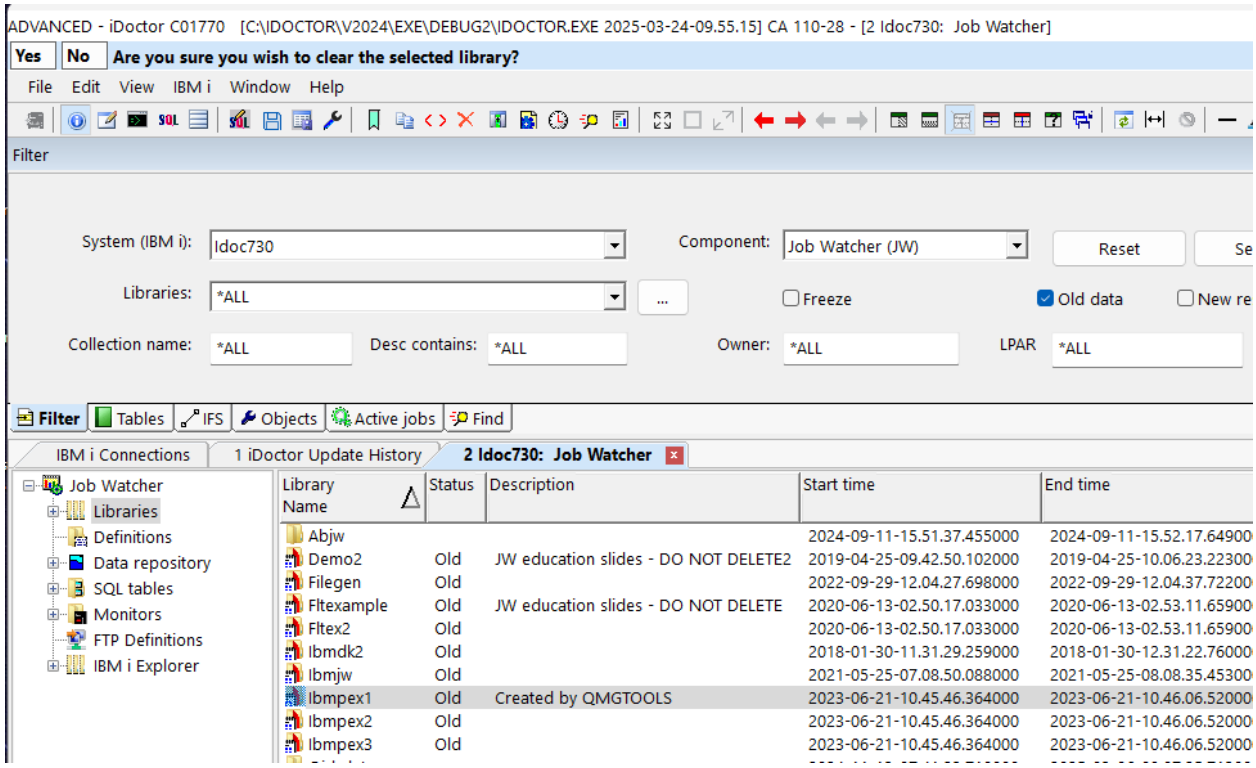
This option is used to save and send one or more libraries to another IBM i. When using this option, the Transfer Data window appears with the destination set as IBM i library.



	Destination This indicates where you will be sending data to.
	Target system The IBM i to save and restore the library(ies) to.
	Port The FTP port to use for the transfer. (1-65535 are valid) **Note:** This is passed down to the PORT parameter on the FTP command on the IBM i. **Default:** 21, **Secure:** 990
	Secure connection See the **SECCNN** parameter on the FTP command on the IBM i.
	Target release Specifies the release of the operating system on which you intend to restore and use the object.
	Data compression Specifies the data compression setting from the SAVLIB command.
	Data to transfer This is the list of libraries to transfer

3.6.9 Clear

A library's contents can be cleared using the Clear menu available by right-clicking on a library.
You will be prompted to confirm in the Message bar.



The progress of the library being cleared may be viewed using the Remote Command Status View.

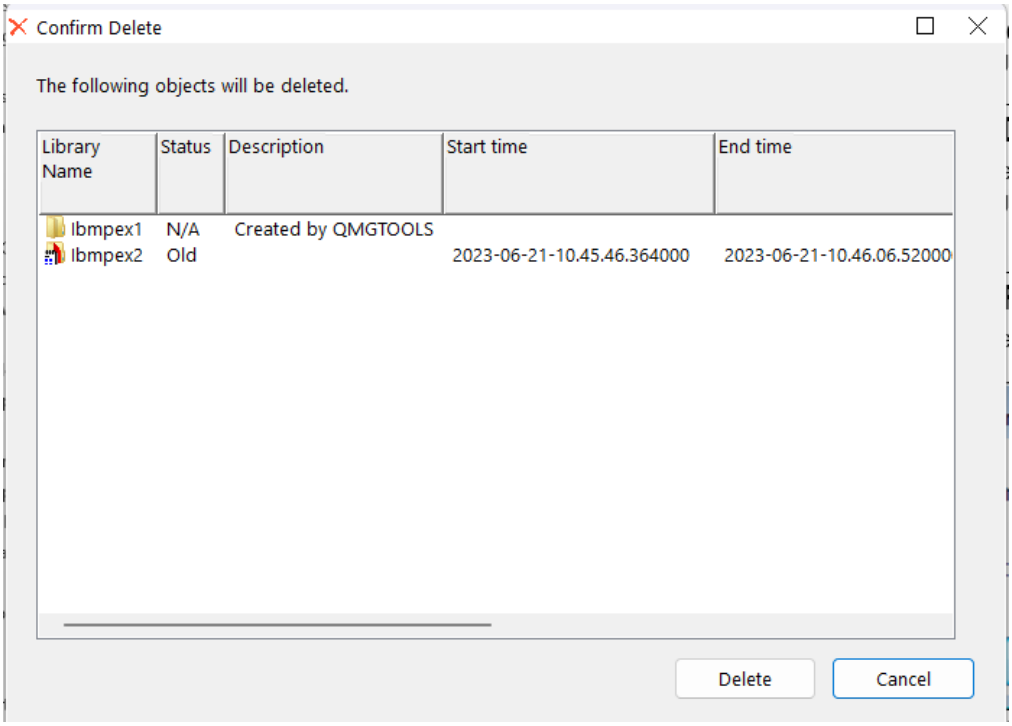
3.6.10 Clear Server Cache

This option clears the Collection Database for the desired library. This data is stored in tables QUSRSYS/QAIDRLIBS and QUSRSYS/QAIDRCOLS.

It is sometimes (but rarely) necessary to use this option if the collections show incorrect status information such as missing files or analyses data is not being displayed correctly.

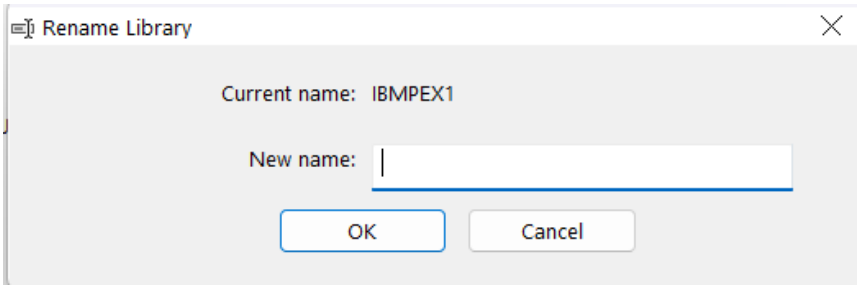
3.6.11 Delete

A library may be deleted using the Delete menu available by right-clicking on a library. The progress of the library being deleted may be viewed using the Remote Command Status View.



3.6.12 Rename

A library may be renamed using the Rename... menu.

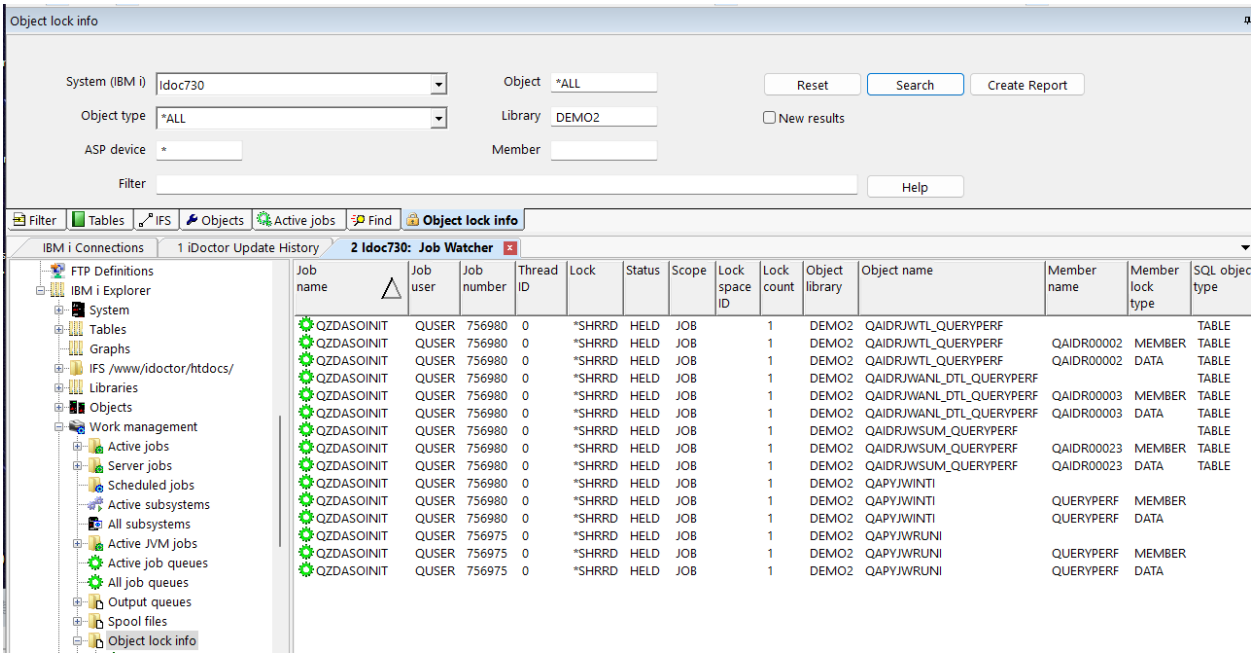


3.6.13 Locks -> Library

This opens the Object lock info folder to look for any locks on the selected library object (*LIB object only)

3.6.14 Locks -> All objects

This option opens the Object lock info folder for the selected library showing the locks on any objects found in the library.

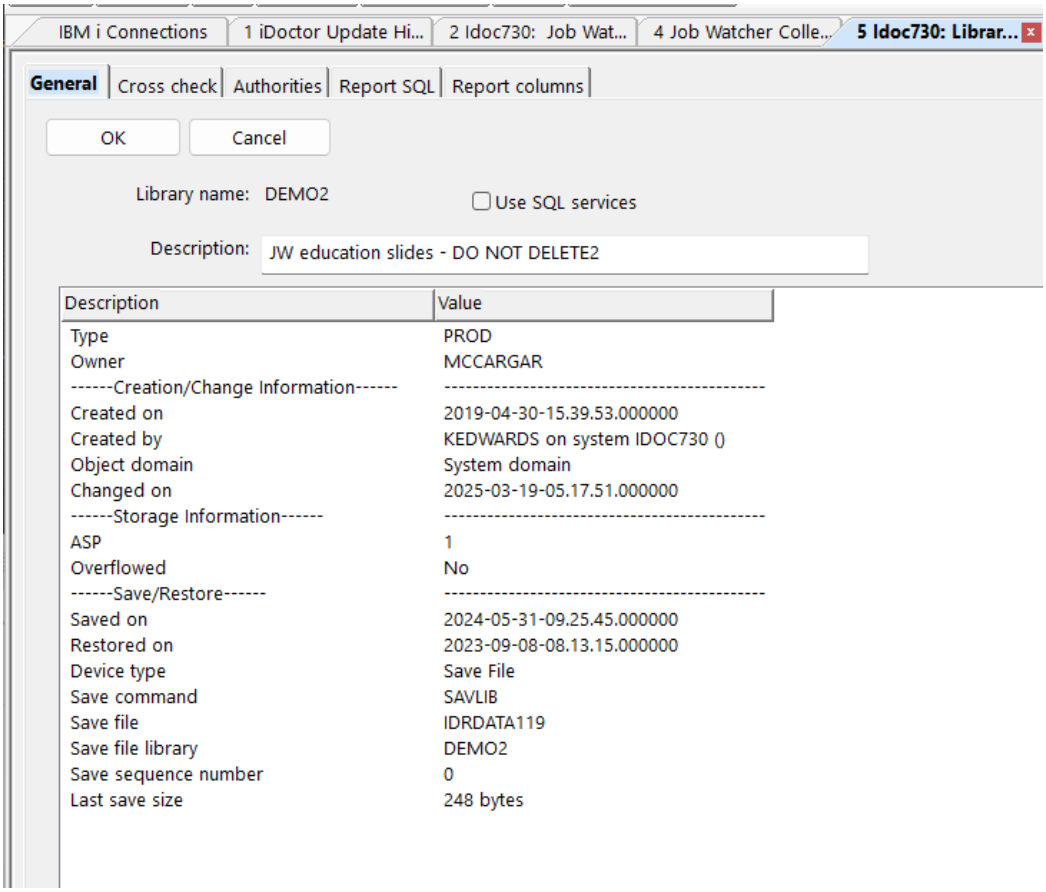


3.6.15 Properties

The library property pages are accessible by right-clicking on a library and choosing the Properties menu.

3.6.15.1 General

This tab displays basic information about the library, including the type, owner and total size of all objects in the library.

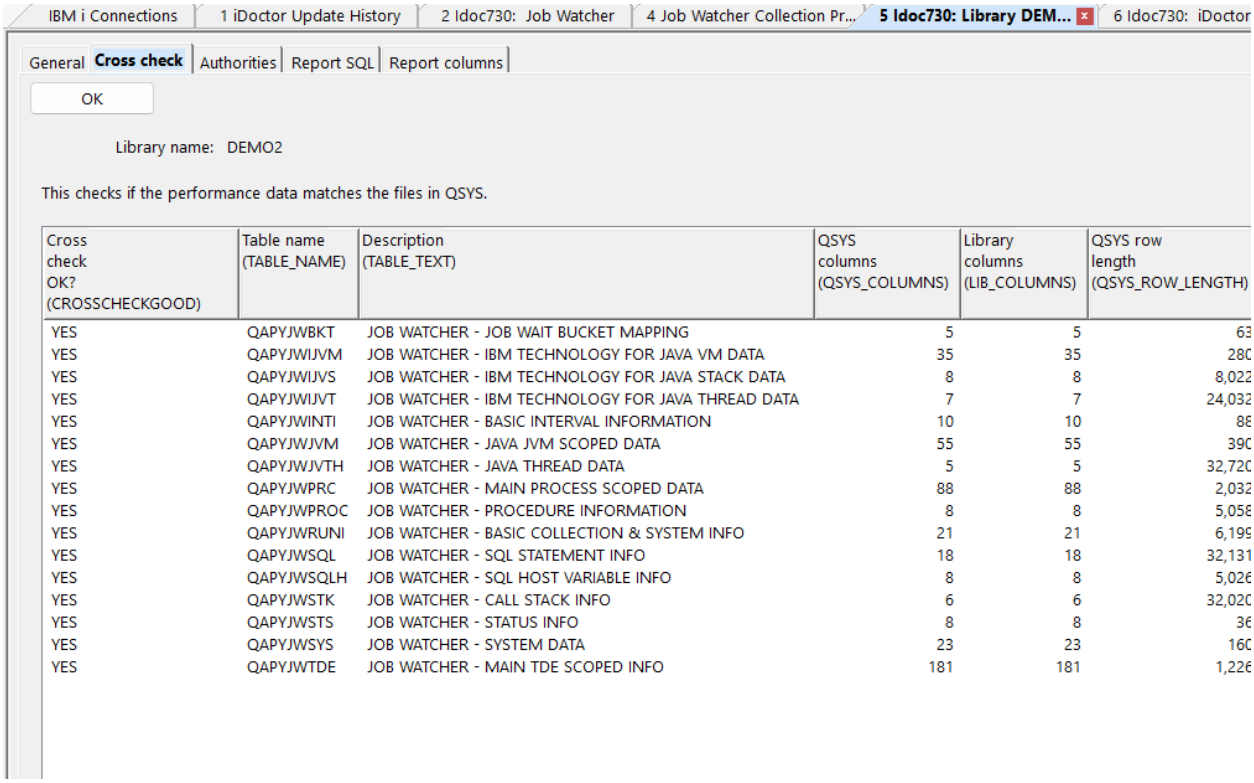


	Use SQL services This indicates if IBM i API calls (faster but less detail) should be used or SQL services to fill the list of information.
	Description An optional text description for the library. It can be changed by typing a new value and pressing OK.
	Data in list The data provided comes either from API Retrieve Object Description format OBJD0400 or SQL table function LIBRARY_INFO. See the documentation for those functions if you require more information.

3.6.15.2 Cross Check

This interface is used to validate that the physical files in the library match the same record formats as those in QSYS. This tab is only available in Job Watcher, Disk Watcher, Collection Services Investigator and PEX Analyzer.

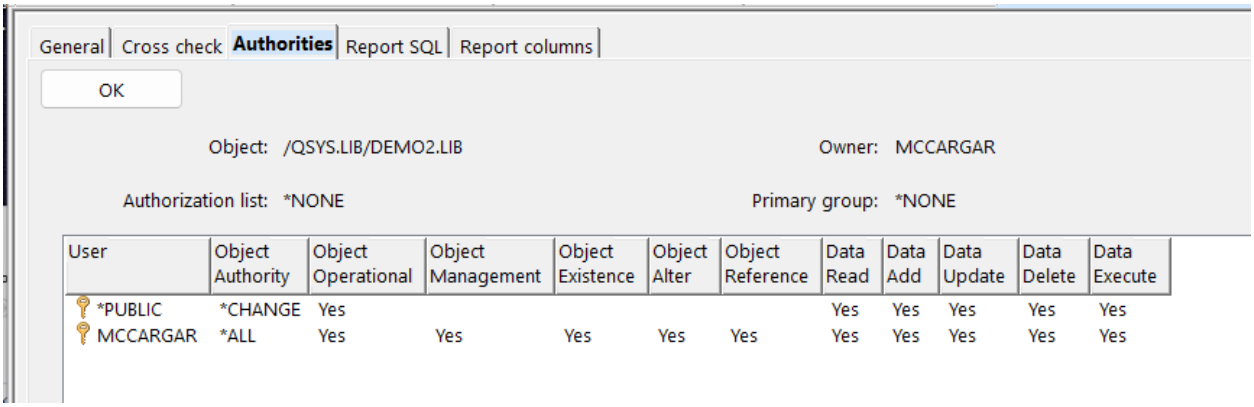
Tip: If any files indicate NO in the first column, then new data should not be captured in this library.



Cross check OK? (CROSSCHECKGOOD)	Table name (TABLE_NAME)	Description (TABLE_TEXT)	QSYS columns (QSYS_COLUMNS)	Library columns (LIB_COLUMNS)	QSYS row length (QSYS_ROW_LENGTH)
YES	QAPYJWBKT	JOB WATCHER - JOB WAIT BUCKET MAPPING	5	5	63
YES	QAPYJWIJVM	JOB WATCHER - IBM TECHNOLOGY FOR JAVA VM DATA	35	35	280
YES	QAPYJWIJVS	JOB WATCHER - IBM TECHNOLOGY FOR JAVA STACK DATA	8	8	8,022
YES	QAPYJWIJVT	JOB WATCHER - IBM TECHNOLOGY FOR JAVA THREAD DATA	7	7	24,032
YES	QAPYJWINTI	JOB WATCHER - BASIC INTERVAL INFORMATION	10	10	88
YES	QAPYJWJVM	JOB WATCHER - JAVA JVM SCOPED DATA	55	55	390
YES	QAPYJWJVTH	JOB WATCHER - JAVA THREAD DATA	5	5	32,720
YES	QAPYJWPRC	JOB WATCHER - MAIN PROCESS SCOPED DATA	88	88	2,032
YES	QAPYJWPROC	JOB WATCHER - PROCEDURE INFORMATION	8	8	5,058
YES	QAPYJWRUNI	JOB WATCHER - BASIC COLLECTION & SYSTEM INFO	21	21	6,199
YES	QAPYJWSQL	JOB WATCHER - SQL STATEMENT INFO	18	18	32,131
YES	QAPYJWSQLH	JOB WATCHER - SQL HOST VARIABLE INFO	8	8	5,026
YES	QAPYJWSTK	JOB WATCHER - CALL STACK INFO	6	6	32,020
YES	QAPYJWSTS	JOB WATCHER - STATUS INFO	8	8	36
YES	QAPYJWSYS	JOB WATCHER - SYSTEM DATA	23	23	160
YES	QAPYJWTDE	JOB WATCHER - MAIN TDE SCOPED INFO	181	181	1,226

3.6.15.3 Authorities

The Authorities tab shows a list of users that have authority to the library and each authority setting. This interface is like the DSPOBJAUT command and you should refer to that command for information if required.

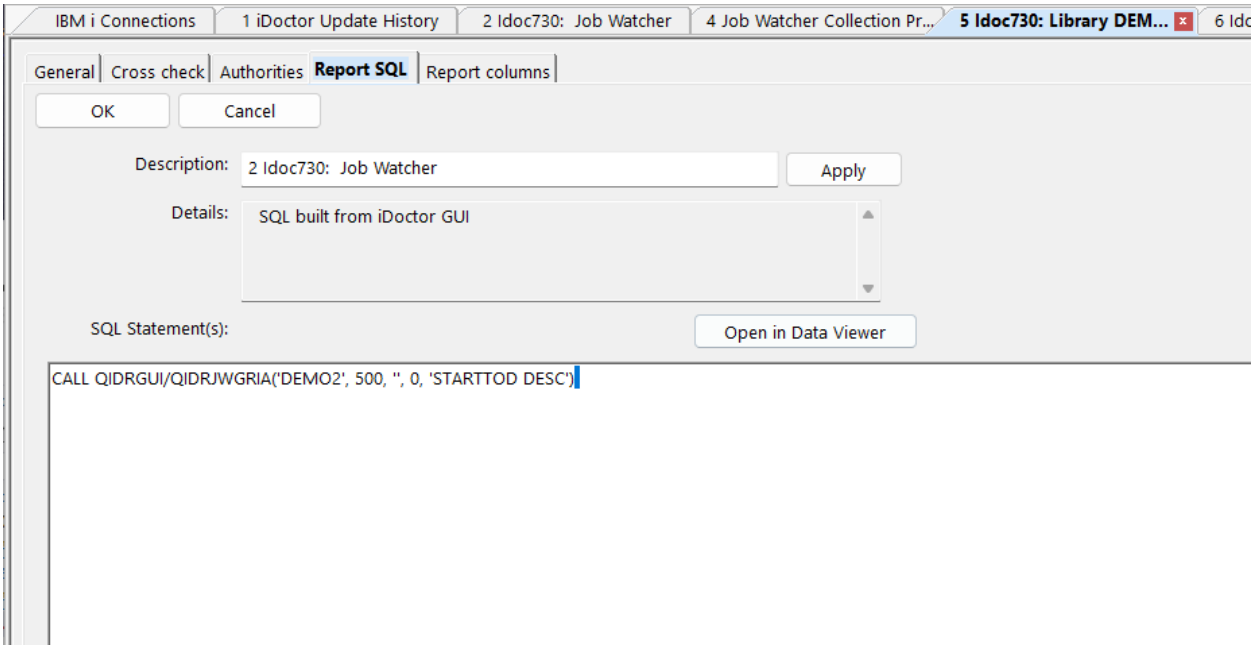


User	Object Authority	Object Operational	Object Management	Object Existence	Object Alter	Object Reference	Data Read	Data Add	Data Update	Data Delete	Data Execute
*PUBLIC	*CHANGE	Yes					Yes	Yes	Yes	Yes	Yes
MCCARGAR	*ALL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

3.6.15.4 Report SQL

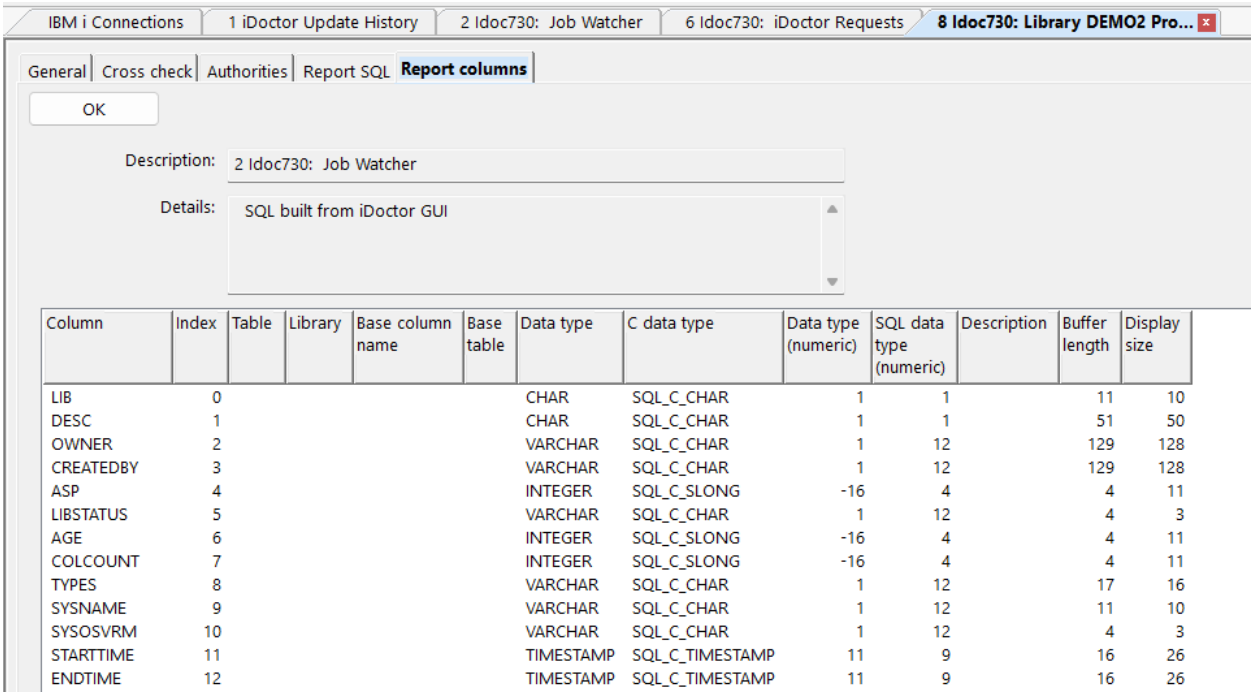
This tab provides information about the last SQL statement ran for the component view this option was initiated from. This could be either the SQL statement to build the list of libraries or the collections within the library depending on the last action taken. This interface is mostly for IBM internal use.

If desired, there is an Open in Data Viewer button available, which allows you to view results and/or modify the SQL statement.



3.6.15.5 Report columns

This tab provides information about the columns found in the last SQL statement ran for the component view this option was initiated from. This data comes from the ODBC driver.



Column	Index	Table	Library	Base column name	Base table	Data type	C data type	Data type (numeric)	SQL data type (numeric)	Description	Buffer length	Display size
LIB	0					CHAR	SQL_C_CHAR	1	1		11	10
DESC	1					CHAR	SQL_C_CHAR	1	1		51	50
OWNER	2					VARCHAR	SQL_C_CHAR	1	12		129	128
CREATEDBY	3					VARCHAR	SQL_C_CHAR	1	12		129	128
ASP	4					INTEGER	SQL_C_SLONG	-16	4		4	11
LIBSTATUS	5					VARCHAR	SQL_C_CHAR	1	12		4	3
AGE	6					INTEGER	SQL_C_SLONG	-16	4		4	11
COLCOUNT	7					INTEGER	SQL_C_SLONG	-16	4		4	11
TYPES	8					VARCHAR	SQL_C_CHAR	1	12		17	16
SYSNAME	9					VARCHAR	SQL_C_CHAR	1	12		11	10
SYSOSVRM	10					VARCHAR	SQL_C_CHAR	1	12		4	3
STARTTIME	11					TIMESTAMP	SQL_C_TIMESTAMP	11	9		16	26
ENDTIME	12					TIMESTAMP	SQL_C_TIMESTAMP	11	9		16	26

3.7 Collections Folder

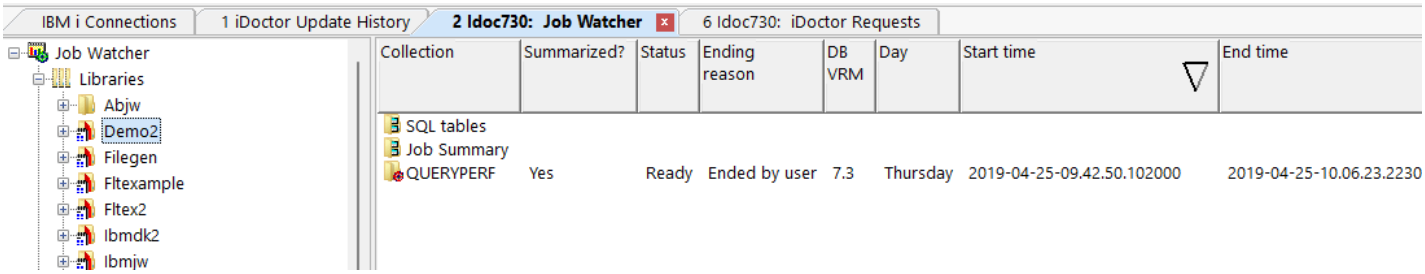
This option no longer exists.

4 Collections

This section describes interface options for collections which are available for any of the components.

Collections exist under a Monitor or Library within iDoctor.

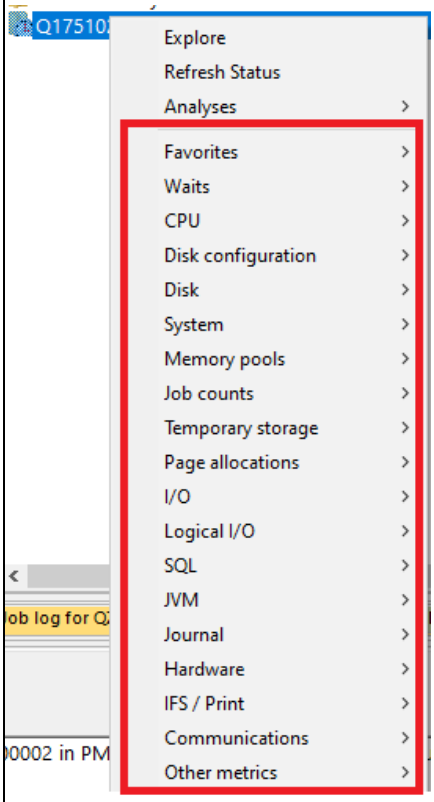
Below is an example of a list of collections in a library within Job Watcher:



4.1 Menu Options

A collection in iDoctor has the following menu options available (right-click):

	Bookmarks This menu may or may not appear to contain any bookmarks you have previously defined for collections of the type you are working with.
	Open Show the contents of the collection.
	**Analyses -> Analyze Collection…** This shows the analyses available for the current collection. You can select one or more analyses to run. Also provides options for editing the situations if using CSI or Job Watcher.
	Analyses -> Run ALL default analyses This runs most analyses using the default options and no prompts.
	Analyses -> Run analysis Provides a list of all available analyses you can run against the selected collection(s.) By picking the desired one the analysis will run immediately (unless a prompt is required.) **Tip:** If you wish these to run in batch job rather than a QZDASOINIT job use the Preference -> Miscellaneous -> Always run analysis in a batch job. This requires a working FTP connection however.

	Refresh Status This updates the collections database record for the selected collection(s) only.
	Report menu options Most collections provide menu options that allow a user to open graphs or tables by right-clicking the desired collection(s) and picking a report.  **Tip:** You can also select multiple collections by using the Ctrl or Shift keys on the keyboard. This allows you to graph multiple collections at once for many reports in iDoctor. If it's available, you will be asked if you wish to combine the collections into a single graph / report or not.

	Graph Job(s) Use this option to graph one or more jobs over time in Job Watcher or Collection Services Investigator.
	Search Some components allow a search capability. This typically will give you different types of data to look and a list of results that match the search. From the search results you will be able to drill down to retrieve more detail. See the CSI or Job Watcher documentation for more details.
	Generate Reports… This option can be used to build a report of the desired set of graphs or reports. The report consists of a screenshot of each graph along with its title and collection information. The reports are built into a HTML page and displayed in a web browser when completed.
	Download… This is used to save the selected collection(s) to a save file then download it to the PC.
	Change Description… This option is used to modify the description shown in the list for a single collection.

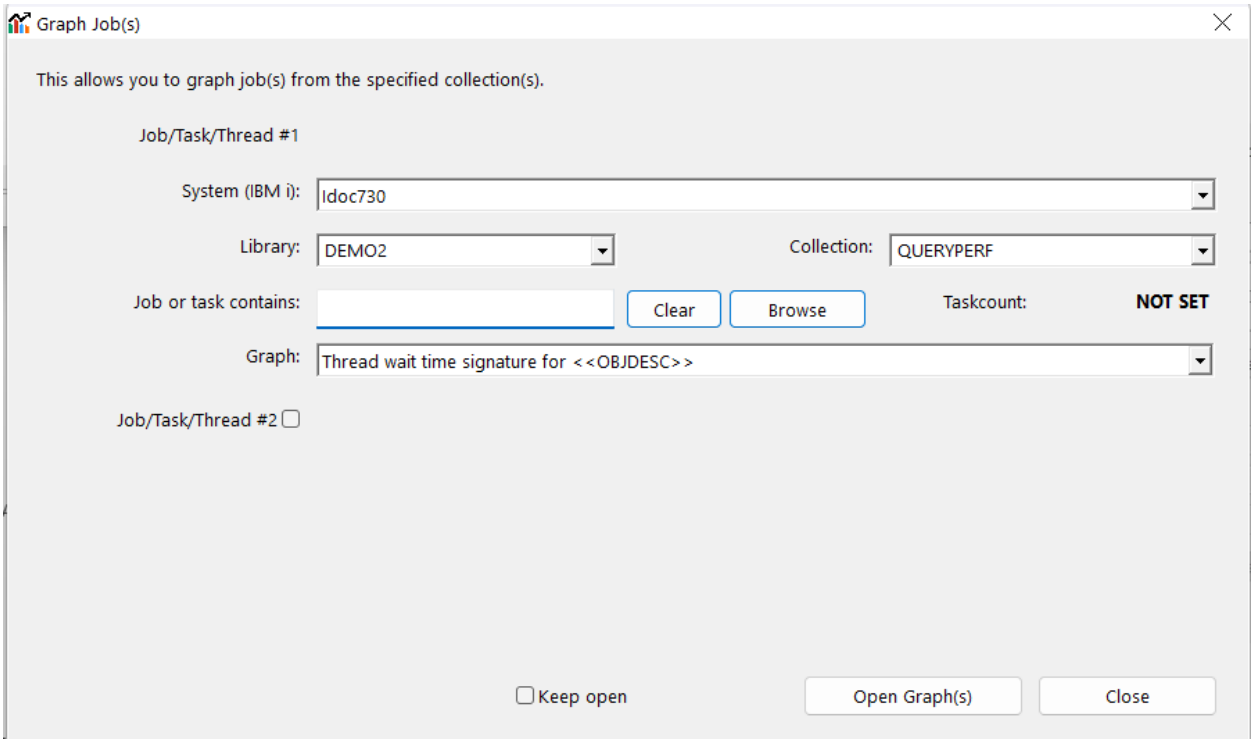
	Copy... Allows you to copy the collection(s) to another location.
	**Delete** Deletes the selected collection(s).
	**Rename** Rename the selected collection.
	**Save...** This option lets you save the collection(s) into a save file on the server.
	**Split…** Divides a large collection into 1 or more smaller collections based on time filtering you specify. This option is only available in the Job Watcher and PEX Analyzer components and is covered in the applicable documentation.
	Transfer to... Allows a user to create a save file of the selected collection(s) and transfer it to another system, the PC or to IBM.

	**Stop** Some components will offer a function to stop an actively running collection.
	Locks Use this option to check for object locks against the collection files, either the OS QAPM* files if using CSI, QAPYJW* for Job Watcher, QAPYDW* for Disk Watcher or QAYPE* for PEX. Another option will check for locks against any QAIDR* in the collection library. Results are shown in the Object lock info view.
	**Properties** Displays the property pages for the collection.
	**Add Bookmark** Creates a link to the component, library and collection that can be accessed later, or sent to another user. Use the Bookmarks Manager to customize behavior for these.

4.2 Graph Job(s)

This interface is found only in the Job Watcher and Collection Services Investigator and is used to graph the desired job in any collection over time. This allows a user to graph and compare 1 job with another job on the same system or any system and collection they wish.

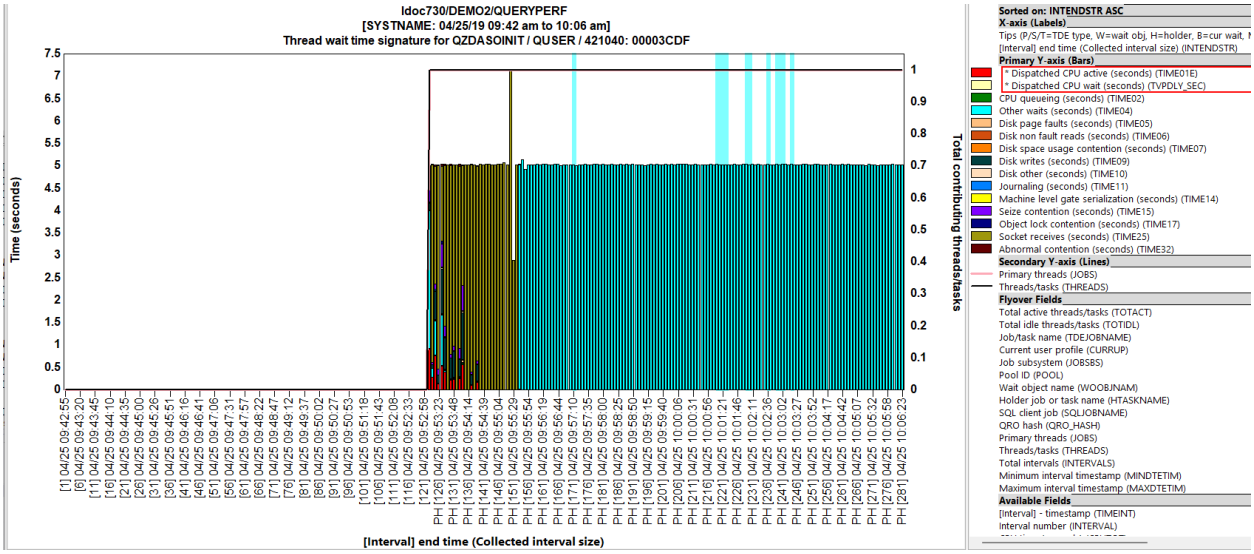
An example follows:



	System (IBM i) This is the system you are currently working with, but can be changed to another if desired.
	Library The library that contains the data you wish to graph.
	Collection The name of the collection you wish to graph.

	Job or task contains This allows you to enter part of the job name to reduce results when pressing the Browse button which is recommended.
OK	**Clear** This just clears the text box.
OK	**Browse** This shows a list of jobs from the collection's data that matches the job or task filter provided (if any.)
	Taskcount The taskcount is the unique identifier for the job and/or task. It must be provided using the Browse option before using the Open Graph(s) button.

	Graph This is the name of the selection over time graph to open. The parameters will be set at run-time.
☐	**Keep open** Check this box if you wish to keep this interface open after pressing the Open Graph(s) button. This will let you open several different graphs at once into a Data Viewer more easily before reviewing them.



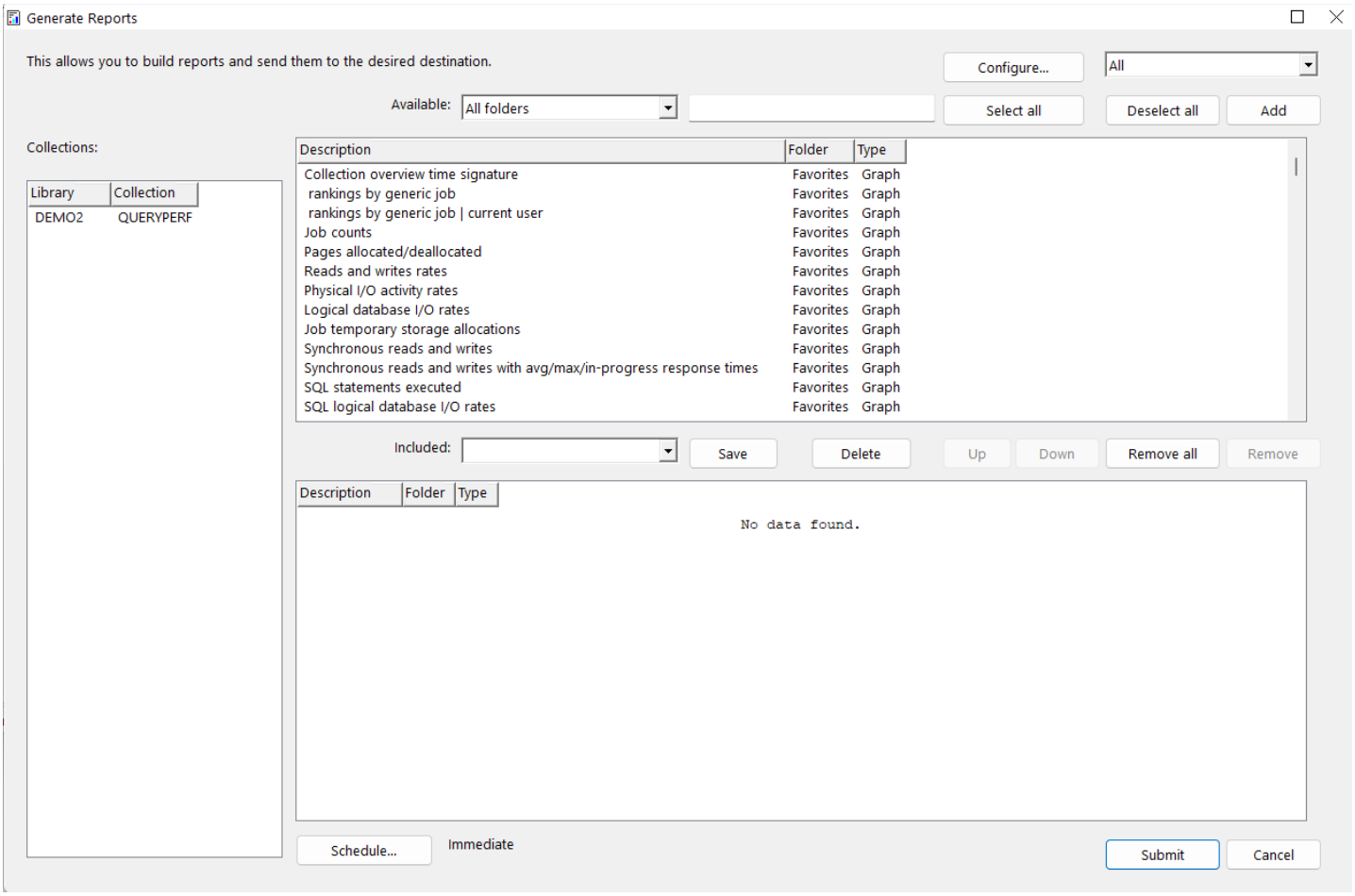
4.3 Generate Reports

This interface allows a user to generate an HTML report for the desired graphs or tables. The user can select the reports of interest, and the GUI will automatically open each report, capture a screenshot and then build an HTML page showing all the reports in a single window for review. This feature is intended to allow a user to easily save a series of graphs for comparison with other collections or for a consultant to present their findings to a client.

In most components this feature is accessible by right-clicking a collection and choosing the Generate Reports… menu option.

Tip: Within March 2025 builds or later users can view Generate Reports output within the GUI using the Reports component via the Filter pane.

An example of this interface is:



To use this interface, select the desired reports from the list of available reports and press the “Add Selected” button to add them to the “Included reports” list. To save the list of included reports for future use, enter a name in the drop-down box next to the Save button and press the Save button.

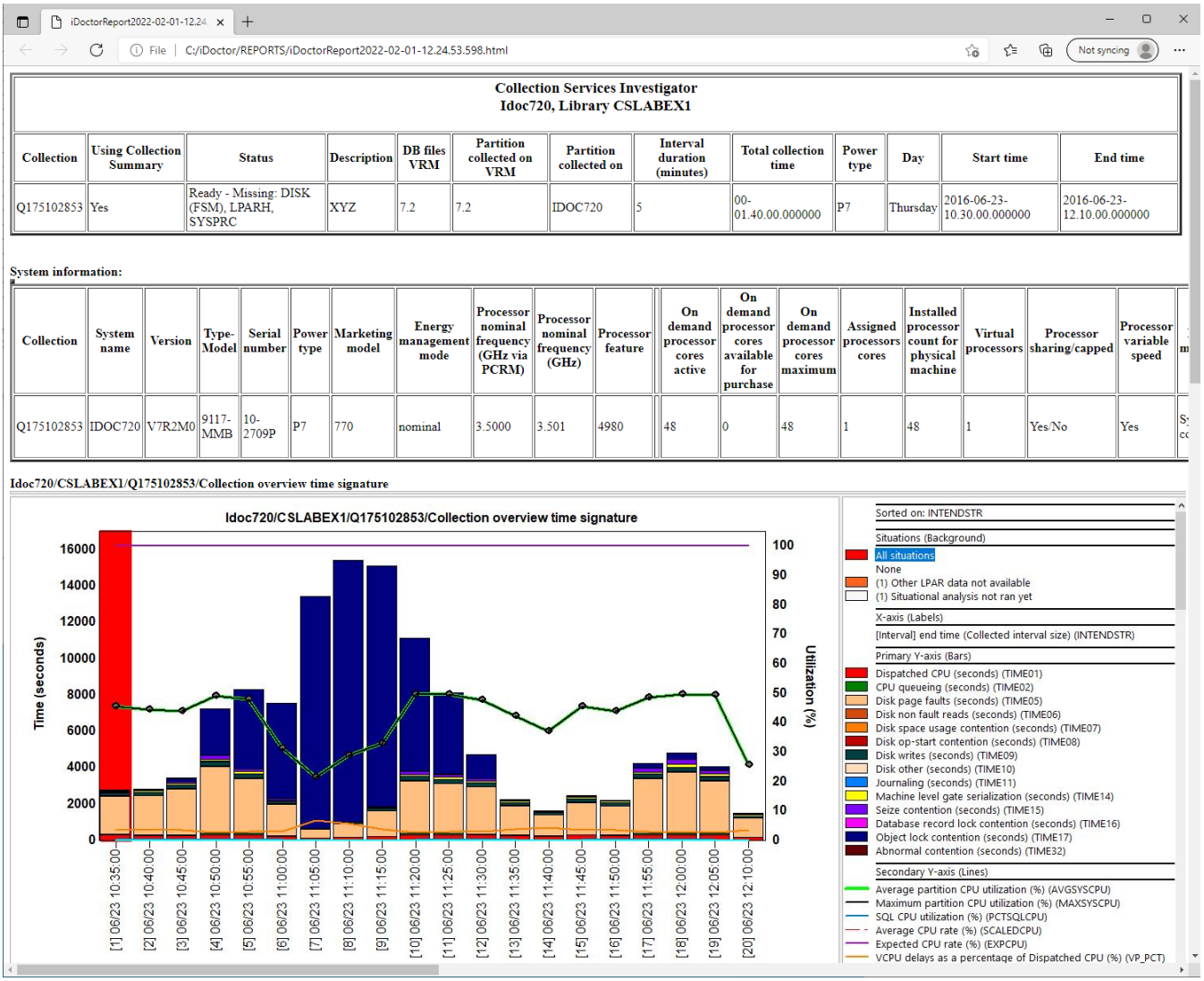
The Configure button at the top of the screen will take you to the Preferences for the Report Generator window. These preferences control various aspect to how the reports will look and whether the resulting file generated is an HTML file or a PDF file.

After pressing Submit, each table or graph will be opened into the Data Viewer capturing a screenshot for each one. If you wish to cancel this process, close the Data Viewer while the Report Generator is running. After all reports are loaded, a file is built to show all the screenshots captured. This page will be opened with the default web browser installed on the PC. Depending on how many reports are selected this could take a long time. You can also use the Schedule button at the bottom of the window to have the graphs/reports be opened later.

OK	**Configure** This button opens the Preferences for the iDoctor Report Generator. This controls where the reports are generated and how they will look. This is also used to control if the reports will be emailed to someone else
	Graph type In the top right corner of the window is a drop-down list that allows the user to filter the graphs shown by type. The options are: - All - No rankings - Only rankings - No graphs Only graphs
	Available (drop-down) This drop-down list provides a list of all primary folders that appear under a collection. By selecting one of these you will be able to filter the list of available reports to a smaller number.
	Description filter The textbox next to the Available drop-down allows the user to enter a text string to reduce results in the list.
OK	**Select all** Selects all reports in the Available list.
OK	**Deselect all** Unselects all reports in the Available list.
OK	**Add** Adds the selections to the Included list.
	Available (list) This is the list of available reports.

	Included (drop-down) This is a list of saved lists of reports that are available. Selecting a name from the list will update the list of reports selected to the ones indicated in the list. You can define a new list by typing a name into the drop-down box and pressing the Save button. These lists are saved into the User-defined reports database which allows them to be reused by other users.
OK	**Save** Use this to save the list of reports in the Included drop down list for future reuse. Type a name in the drop-down list before using.
OK	**Delete** This removes the currently selected entry from the Included drop down list.
OK	**Up/Down** Use these options to move the selected reports from the Included list up/down in the list.
OK	**Remove all** Removes all reports from the Included list.
OK	**Remove** Removes just the selected reports from the Included list.
	Included (list) This is the list of reports to run when hitting Submit.
OK	**Schedule** This option allows you to schedule the reports to be generated later using the Windows task scheduler. Options are available to have this occur repeatedly. The PC must be on, and the current user must be still logged in at the indicated date/time for this to work.
	Use newest collection This option appears only when the scheduling option is used. If this option is checked then when the report is generated it will use the newest collection in the library rather than the one used to launch the Report Generator interface originally.

An example of a report generated by this interface follows:



Collection Services Investigator
Idoc720, Library CSLABEX1

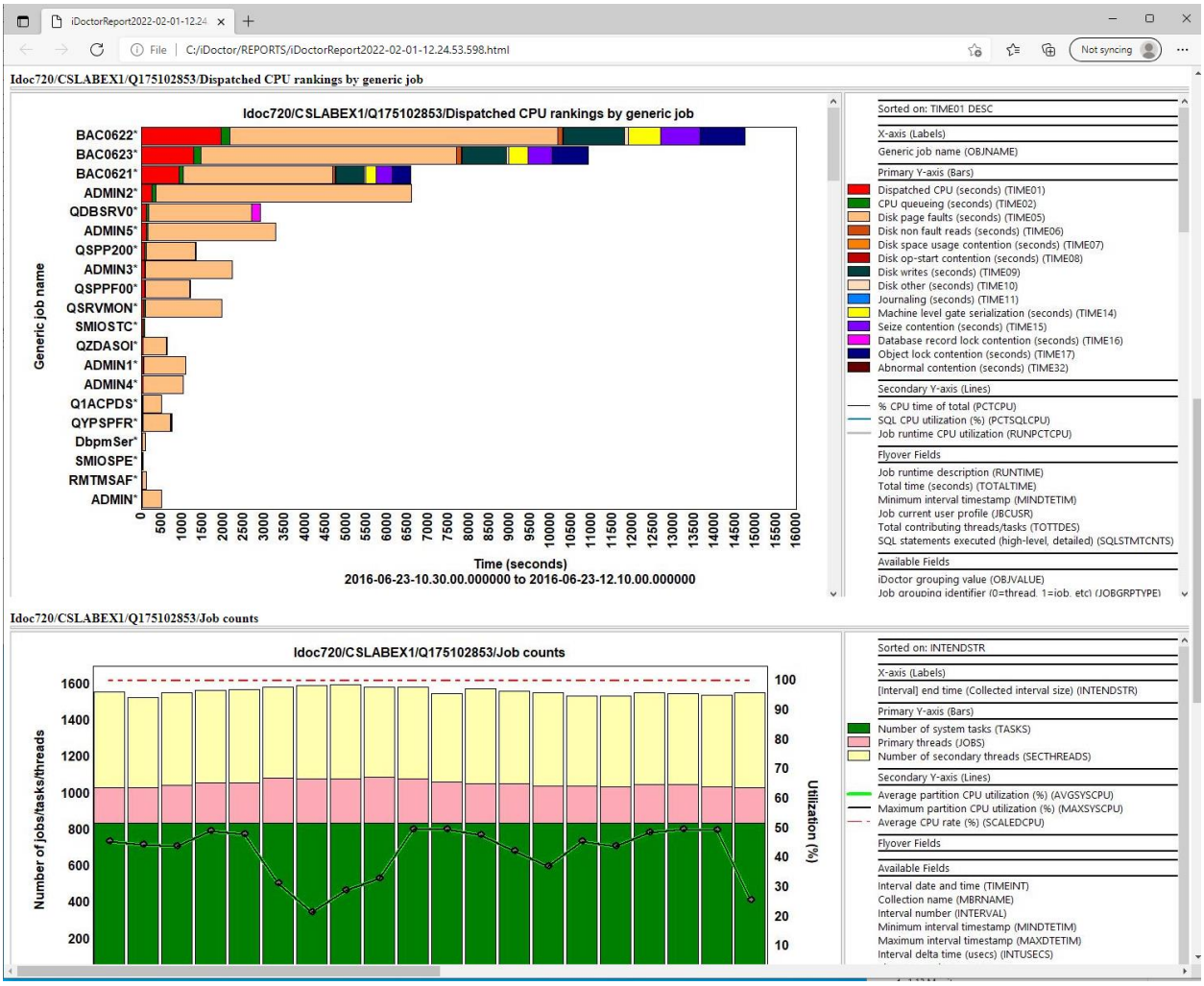
Collection	Using Collection Summary	Status	Description	DB files VRM	Partition collected on VRM	Partition collected on	Interval duration (minutes)	Total collection time	Power type	Day	Start time	End time
Q175102853	Yes	Ready - Missing: DISK (FSM), LPARH, SYSPRC	XYZ	7.2	7.2	IDOC720	5	00-01.40.00.000000	P7	Thursday	2016-06-23-10.30.00.000000	2016-06-23-12.10.00.000000

System information:

Collection	System name	Version	Type-Model	Serial number	Power type	Marketing model	Energy management mode	Processor nominal frequency (GHz via PCRM)	Processor nominal frequency (GHz)	Processor feature	On demand processor cores active	On demand processor cores available for purchase	On demand processor cores maximum	Assigned processors cores	Installed processor count for physical machine	Virtual processors	Processor sharing/capped	Processor variable speed	m
Q175102853	IDOC720	V7R2M0	9117-MMB	10-2709P	P7	770	nominal	3.5000	3.501	4980	48	0	48	1	48	1	Yes/No	Yes	S c

Idoc720/CSLABEX1/Q175102853/Collection overview time signature

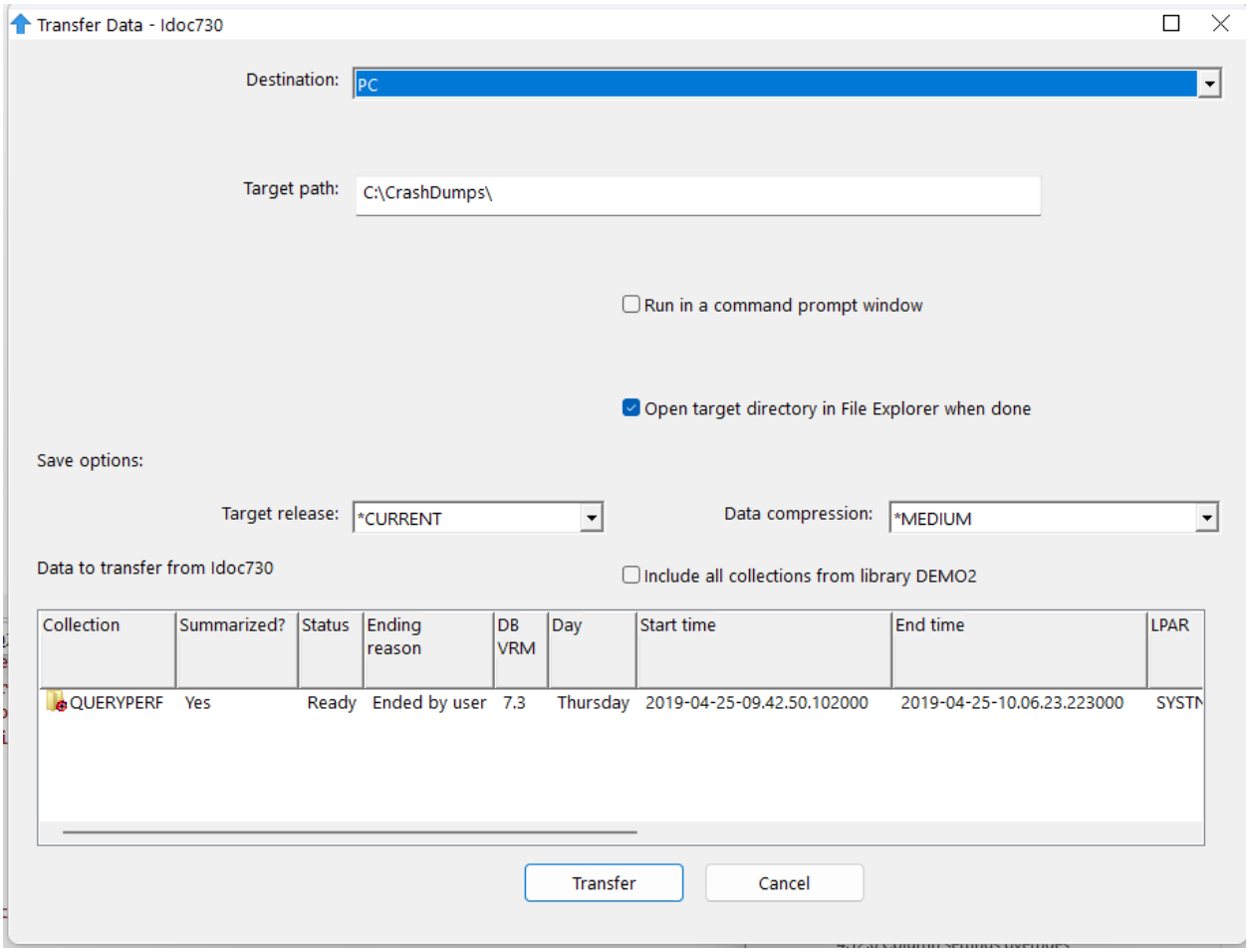
Report generator example - page 1



Report generator example - page 2

4.4 Download

This option will transfer one or more collections to the specified location on the PC.



	Destination This defines where the selected collections will be transferred to.
	Target path The directory on the PC to send the collection(s) to. If a filename is not provided, then a random IDRDATAnnn.savf name is generated. Multiple collections are saved into a single save file.

	Run in a command prompt This option appears only if the File transfer method setting on the IBM i connection is not set to Wininet. A command prompt window will appear showing the status of the transfer when checked.
	Open target directory in File Explorer After transfer has finished, this option will open the File Explorer to show the newly transferred save file.

	**Target release** Specifies the release of the operating system on which you intend to restore and use the object. See TGTRLS parameter for SAVLIB for more information.
	**Data compression** Indicates the data compression level used. See DTACPR parameter for SAVLIB for more information.
	**Include all collections from library XYZ** This option lets you include ALL collections from the library of the collection you opened this interface from.
	**Data to transfer list** This lists the collections selected from the previous screen and indicates what wil be transferred. It cannot be changed here.

4.5 Add Bookmark

Use this option to copy to clipboard a URL identifying the location of the current collection. It also creates a bookmark that can be reused later when right-clicking a collection, and will appear under the Bookmarks menu.

Using this option from a collection, will bring up the iDoctor GUI on the PC and open the component, library and collection that was being viewed when this option was taken. The URL generated by this option starts with idoctor:// and tells your web browser to launch iDoctor and perform the desired action.

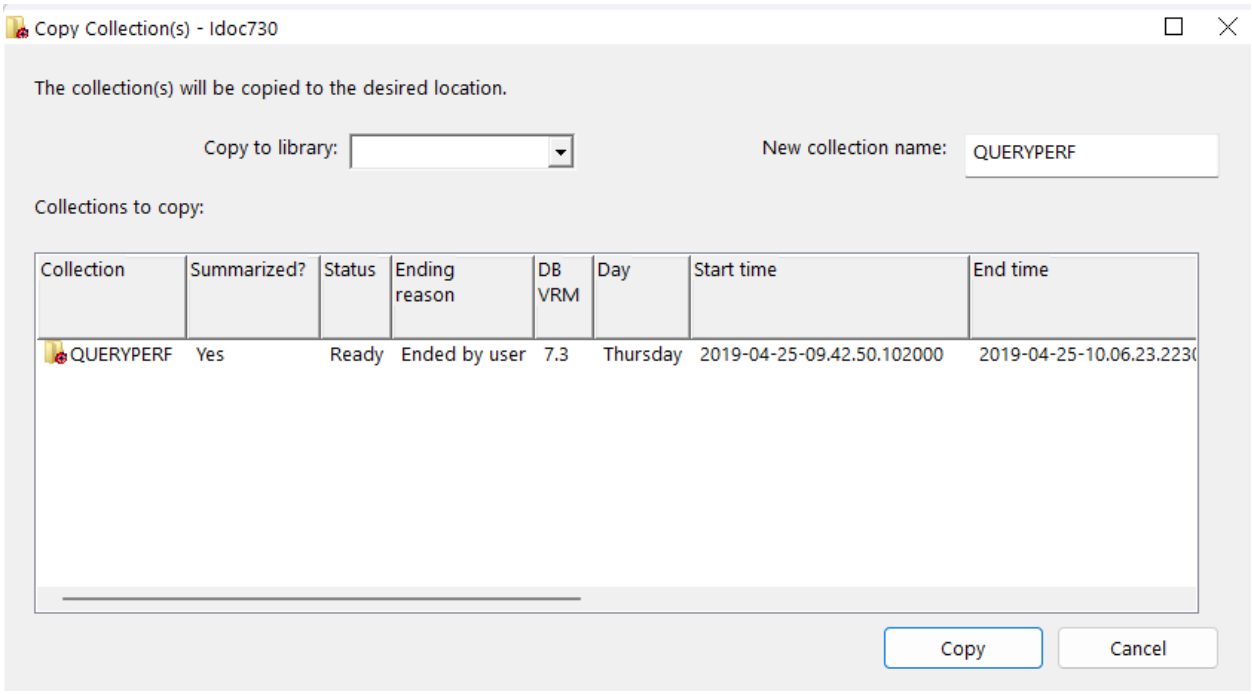
An example URL to open a CSI collection is:

idoctor:///viewinfo1[type=CFolderCollection,sys=Idoc720,lib=CSLABEX1,comp=CS,col=Q175102853]

4.6 Copy

A collection can be copied by using the Copy... menu found by right clicking on a collection within the component view.

This option will execute the appropriate iDoctor collection copy command depending on the type of collection selected. Copying a collection that is still running is not allowed. Multiple collections can be copied at the same time if desired to another library.

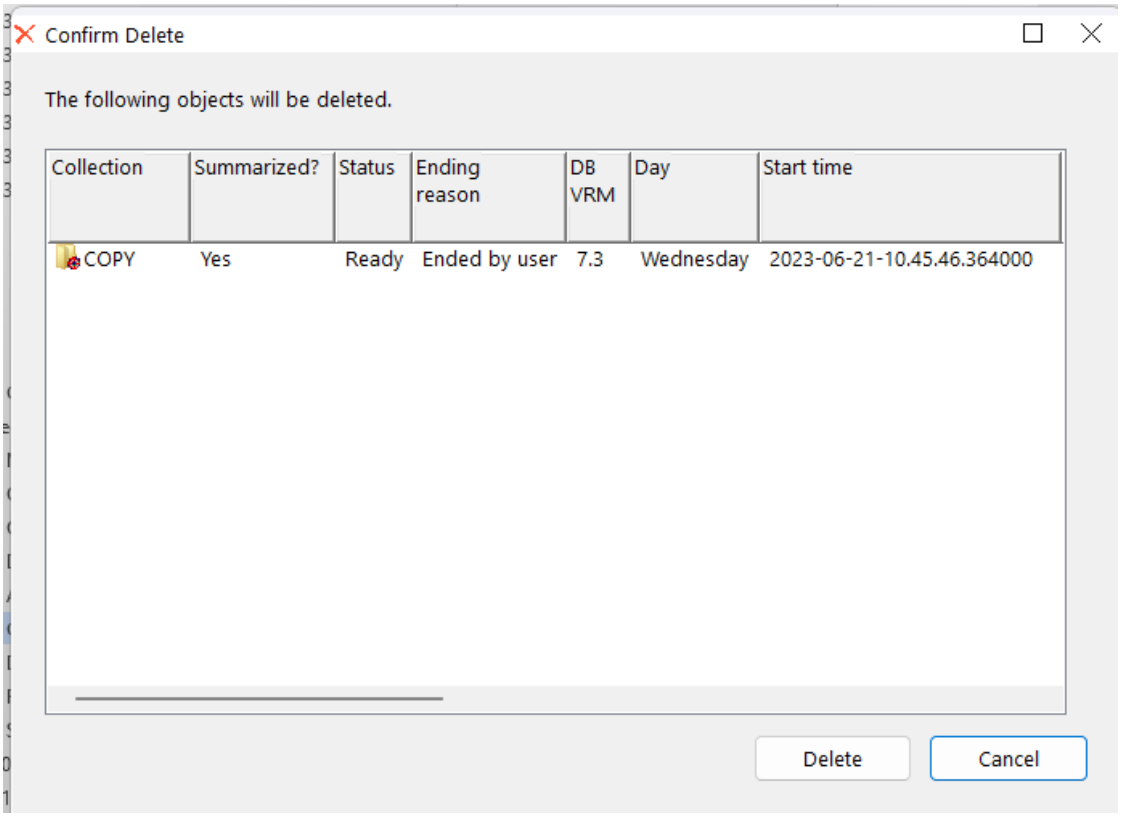


	Copy to library The library to copy the collection to. It can be the same as the current one. **Note:** Be sure to only copy a collection to a library with existing performance data of the same OS version. If not sure, it's best to copy the collection to a new library.
	New collection name The name to give the new collection.
	Collections to copy This lists the collections selected from the previous screen. It cannot be changed here.

4.7 Delete

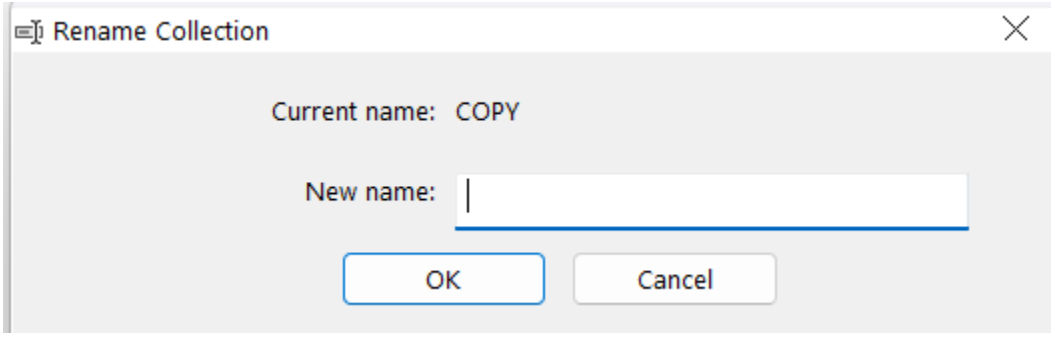
A collection can be deleted by using the Delete... menu found by right clicking on a collection within the component view.

This option will execute the appropriate iDoctor delete collection command depending on the type of collection selected. This option is not allowed if the collection is running.



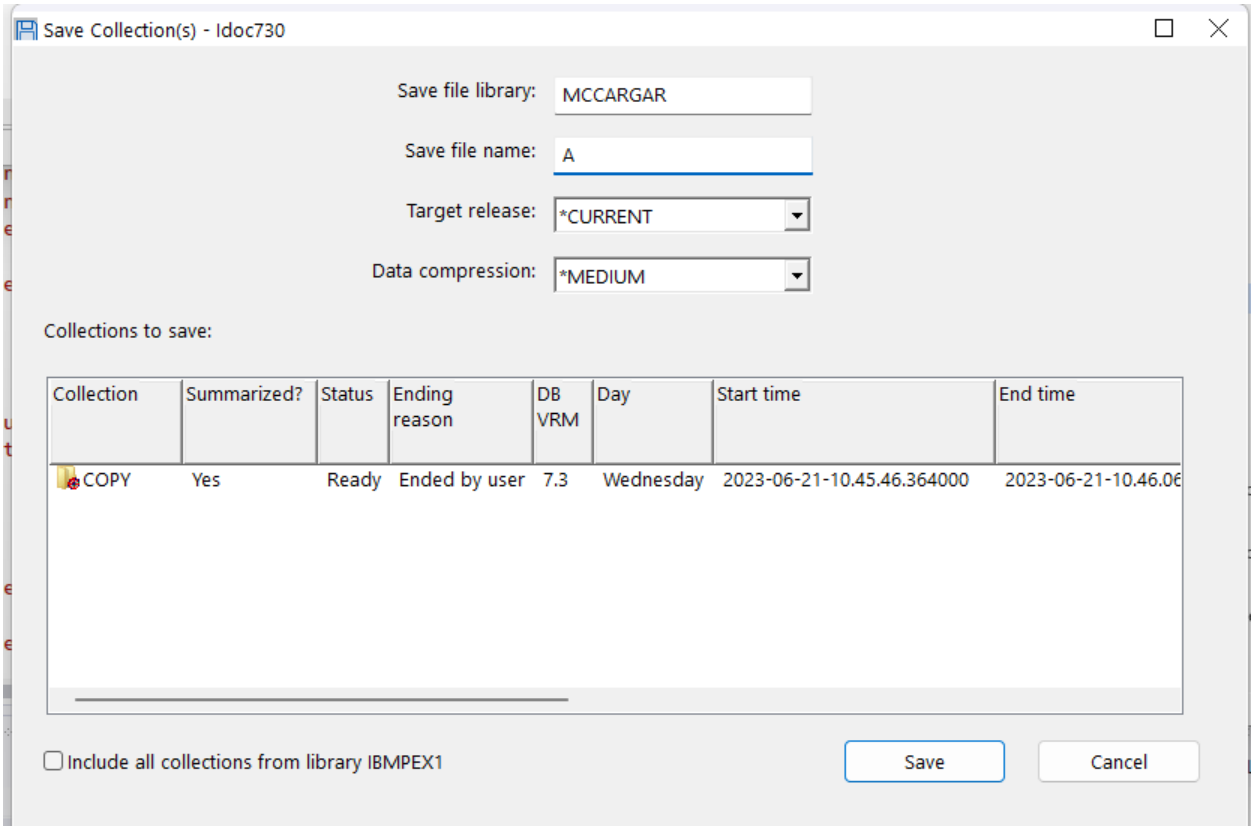
4.8 Rename

This interface allows a user to rename a single collection.



4.9 Save

One or more collections can be saved to a save file by using the Save... menu found on the collection.

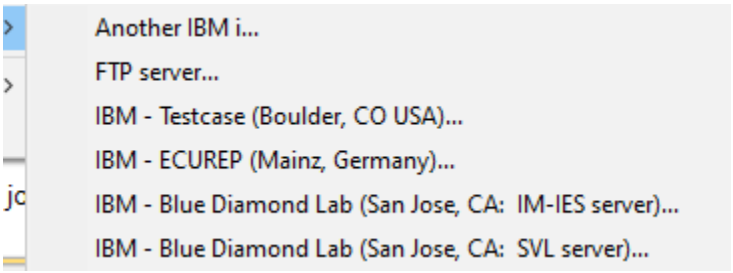


	Save file library The name of the library containing the save file. If the save file doesn't exist it is created. If the save file does exist, it will be cleared.
	Save file name The name of the save file.
	Target release Specifies the release of the operating system on which you intend to restore and use the object.
	Data compression Specifies the data compression setting from the SAVLIB command.
	Collections to save This lists the collections selected from the previous screen. It cannot be changed here.
	Include all collections from library XYZ This option lets you include ALL collections from the library of the collection you opened this interface from.

4.10 Transfer to…

A collection can be transferred to another system by using the Transfer to... menu found by right clicking on a collection within the component view. Use the Download menu option instead to send the data to the PC. This option is only available for collections that are no longer running.

The transfer options for collections consists of the following choices:



Picking one of these will take you to a Transfer window.

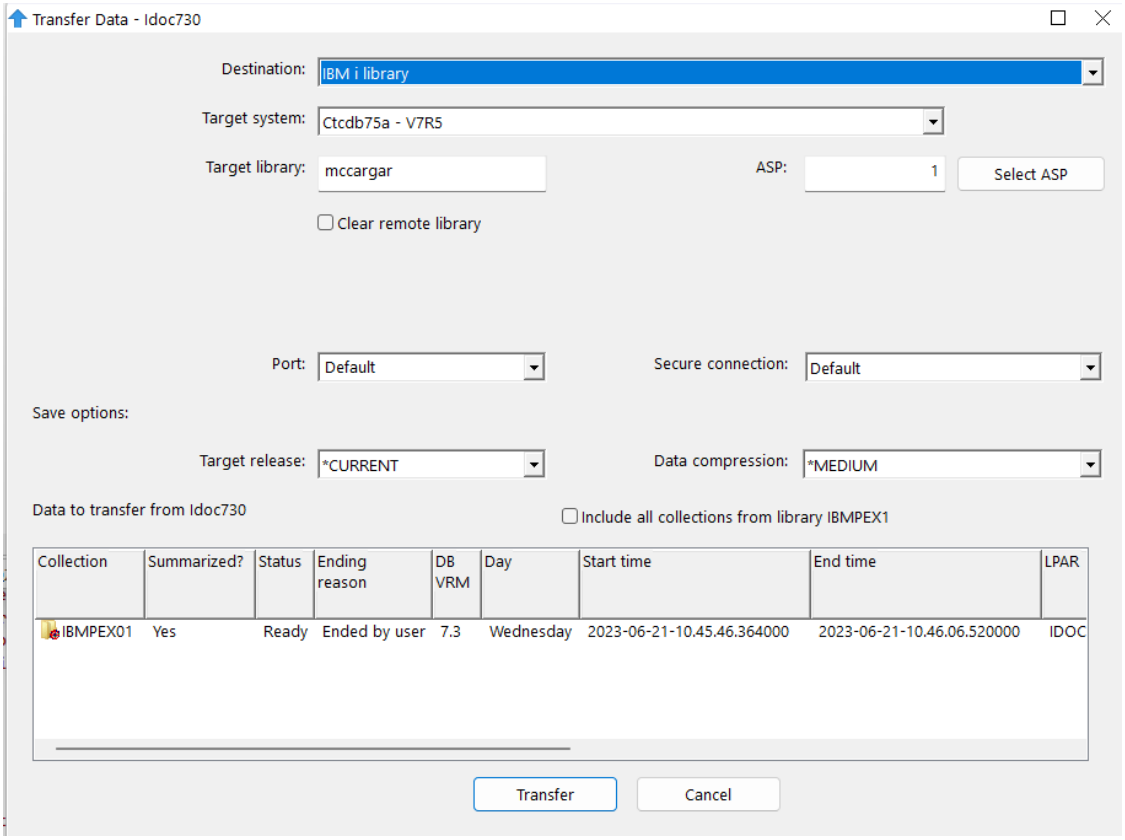
After reviewing the Transfer window and pressing the Transfer button, a validation step takes place to help detect any problems before continuing. Any errors that occur will be shown to the user. Afterwards commands will be issued on the local and remote servers to save, send and restore the data. These commands will be shown in the Remote Command Status View.

In the Remote Command Status View, if an error occurs during the FTP part you can right-click the failing part and use the Show Job Log or Show History Log options. Another option for debugging is to open an SQL Editor (either in iDoctor or STRSQL) and issue the following query:

SELECT * FROM QIDRGUI/FTPLOG

4.10.1 Transfer to another IBM i

This option allows you to transfer one or more collections to another IBM i.

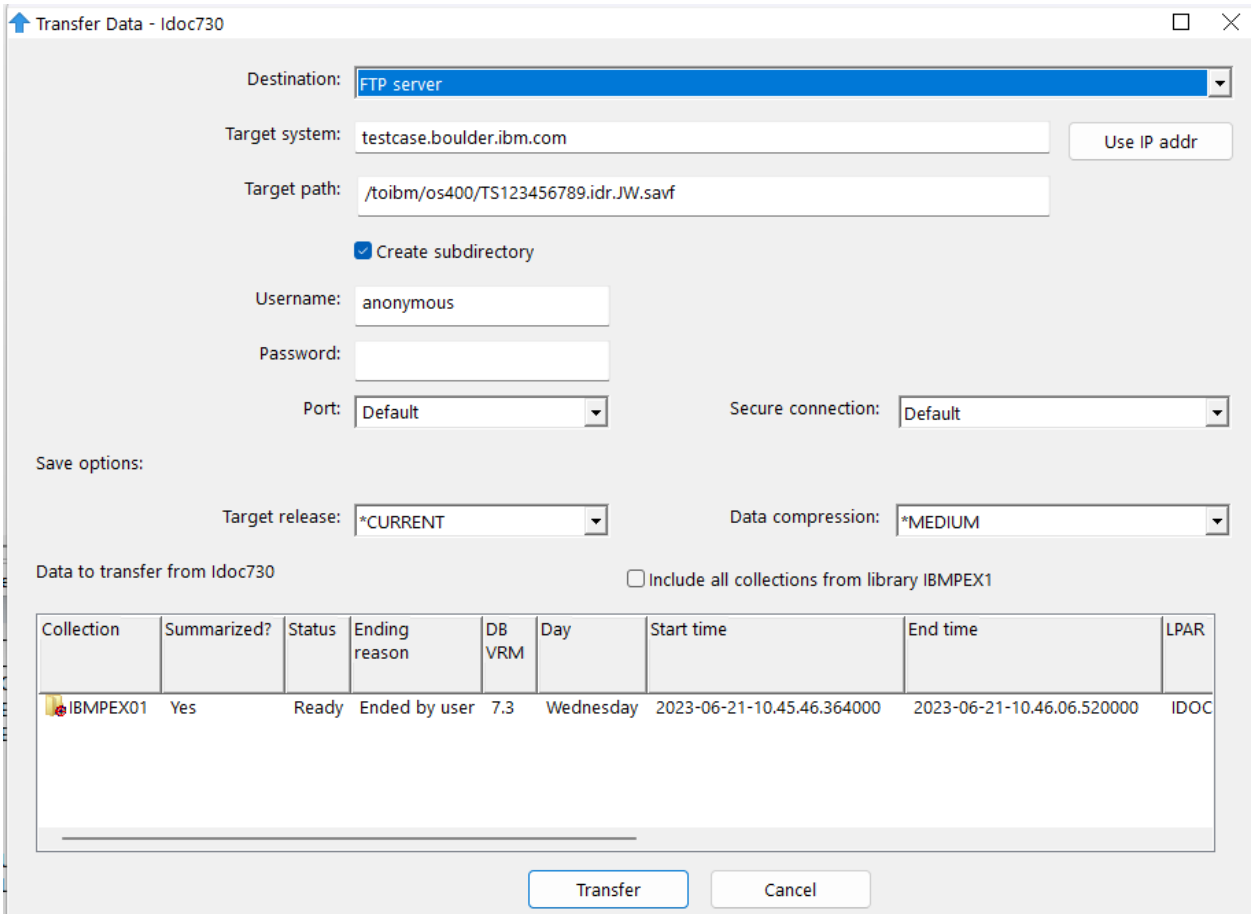


	Destination This indicates where the data will be transferred to. In this example this value will be “IBM i library”.
	Target system This indicates which system the data will be sent to.
	Target library The library on the target system to send data to.
	ASP The ASP of the target library. Only applies if the library does not exist and you want to create a new one and specify this ASP on the CRTLIB command.
OK	**Select ASP** This can be used to browse and select an ASP from the target system. This only applies if the target library does NOT already exist.
	Clear remote library Indicates if the remote library should be cleared before restoring the data. Sometimes this is necessary if existing library contains existing performance data of the same type.

	Port The FTP port to use for the transfer. (1-65535 are valid) **Note:** This is passed down to the PORT parameter on the FTP command on the IBM i. **Default:** 21, **Secure:** 990
	Secure connection See the **SECCNN** parameter on the FTP command on the IBM i.
	Target release This indicates the release of the IBM i you intend to transfer the data to.
	Data compression Specifies whether data compression is used. If the save is running while other jobs on the system are active and software compression is used, the overall syste performance may be affected.
	Include all collections from library XYZ This option lets you include ALL collections from the library of the collection you opened this option from.
	Data to transfer This lists the collections selected from the previous screen. It cannot be changed here.
OK	**Transfer** Saves and sends the data.

4.10.2 Transfer to FTP server

This option allows you to transfer one or more collections to a directory on another system. The collection(s) are combined into a single save file and sent to the target path specified.



	Destination This indicates where the data will be transferred to. In this example, it would be “FTP server”.
	Target system The system to transfer data to.
OK	**Use IP addr** This button will attempt to determine the IP address of the specified system and update the target system value.
	Target path The location and filename of where to send the data.

	Create subdirectory This option (if checked) will create on the target system any subdirectories required by using the target path specified. Otherwise the transfer will fail if the location does not already exist or the user lacks the ability to create directories.
	Username The user profile to use to make this transfer.
	Password The password to use to make this transfer.

	Port The FTP port to use for the transfer. (1-65535 are valid) **Note:** This is passed down to the PORT parameter on the FTP command on the IBM i. **Default:** 21, **Secure:** 990

	Secure connection See the **SECCNN** parameter on the FTP command on the IBM i.
	Target release This indicates the release of the IBM i you intend to transfer the data to.
	Data compression Specifies whether data compression is used. If the save is running while other jobs on the system are active and software compression is used, the overall system performance may be affected.
☐	**Include all collections from library XYZ** This option lets you include ALL collections from the library of the collection you opened this option from.

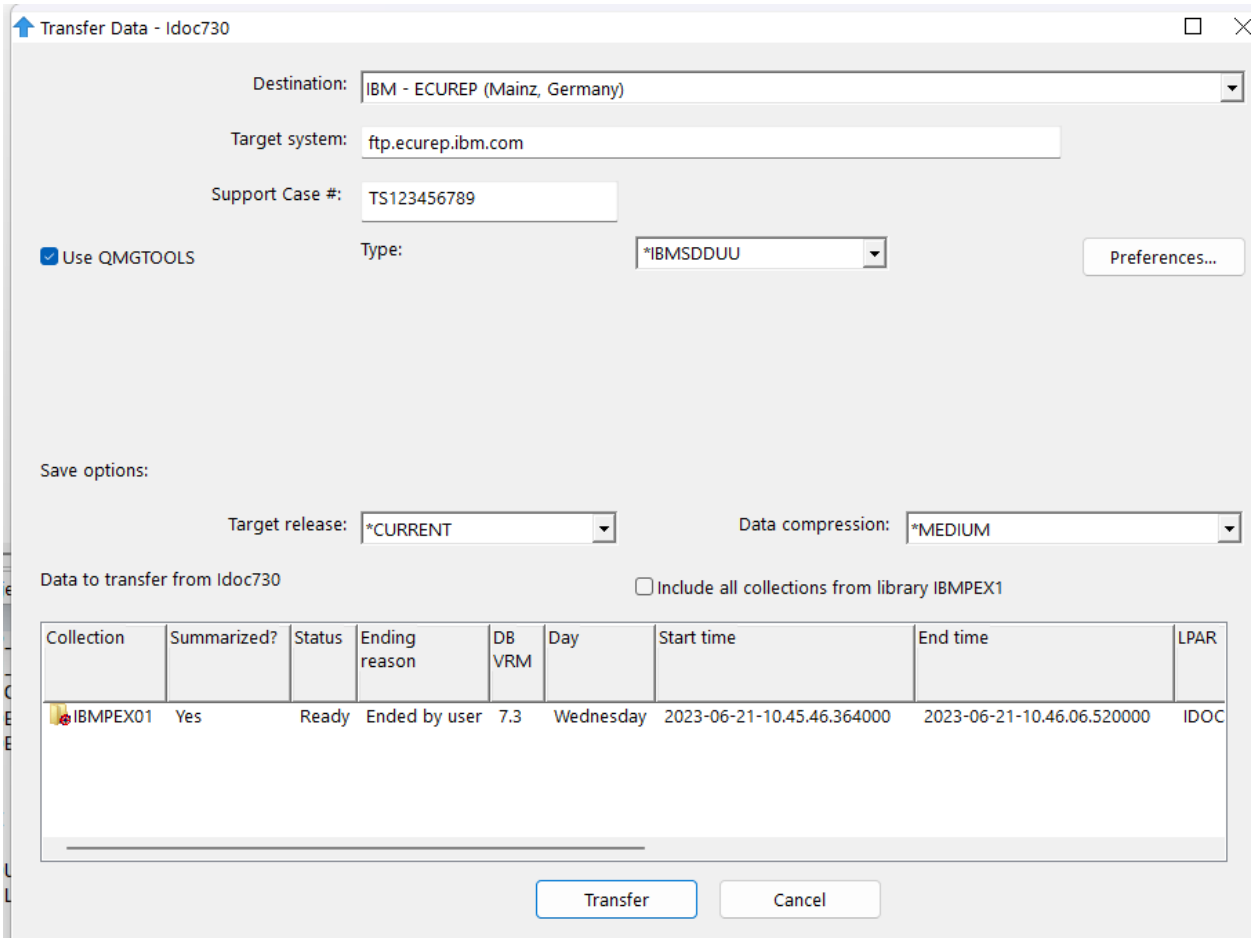
	Data to transfer This lists the collections selected from the previous screen. It cannot be changed here.
OK	**Transfer** Saves and sends the data.

4.10.3 Transfer to IBM

These options are used to send your data to IBM for analysis. Typically, you will need a case # to associate this data with.

The options for these modes are the same as the previous section (Transfer to FTP server), except there is also an option to transfer using QMGTOOLS. Command FTP2IBMCMD is used. If using that then the interface looks like this instead and most of the settings are controlled through preferences.

Tip: In order for the *IBMSDDUU option to be successful, your password must have been previously set on the IBM I using the GO MG menu option 25 (STORFTPPWD command.) Also, within the Send to IBM Preferences the IBM ID/password fields should be set to *STORED and blank.



	Destination This indicates where the data will be transferred to. In this example, it would be one of the IBM options.
	Target system The system to transfer data to.
	Support Case # This value is copied from Preferences -> Send to IBM when the interface is opened.

	Use QMGTOOLS This indicates if the QMGTOOLS/FTP2IBMCMD is used to send the data to IBM or QIDRGUI/FTPFILE. The QMGTOOLS option is recommended.
	Type These options are from command QMGTOOLS/FTP2IBMCMD and have not been well tested. *IBMSDDUU is the only option that has been tested by iDoctor support.
	Preferences This button allows you to visit the Preferences -> Send to IBM interface.

	Target release This indicates the release of the IBM i you intend to transfer the data to.
	Data compression Specifies whether data compression is used. If the save is running while other jobs on the system are active and software compression is used, the overall system performance may be affected.
	Include all collections from library XYZ This option lets you include ALL collections from the library of the collection you opened this option from.
	Data to transfer This lists the collections selected from the previous screen. It cannot be changed here.
OK	**Transfer** Saves and sends the data.

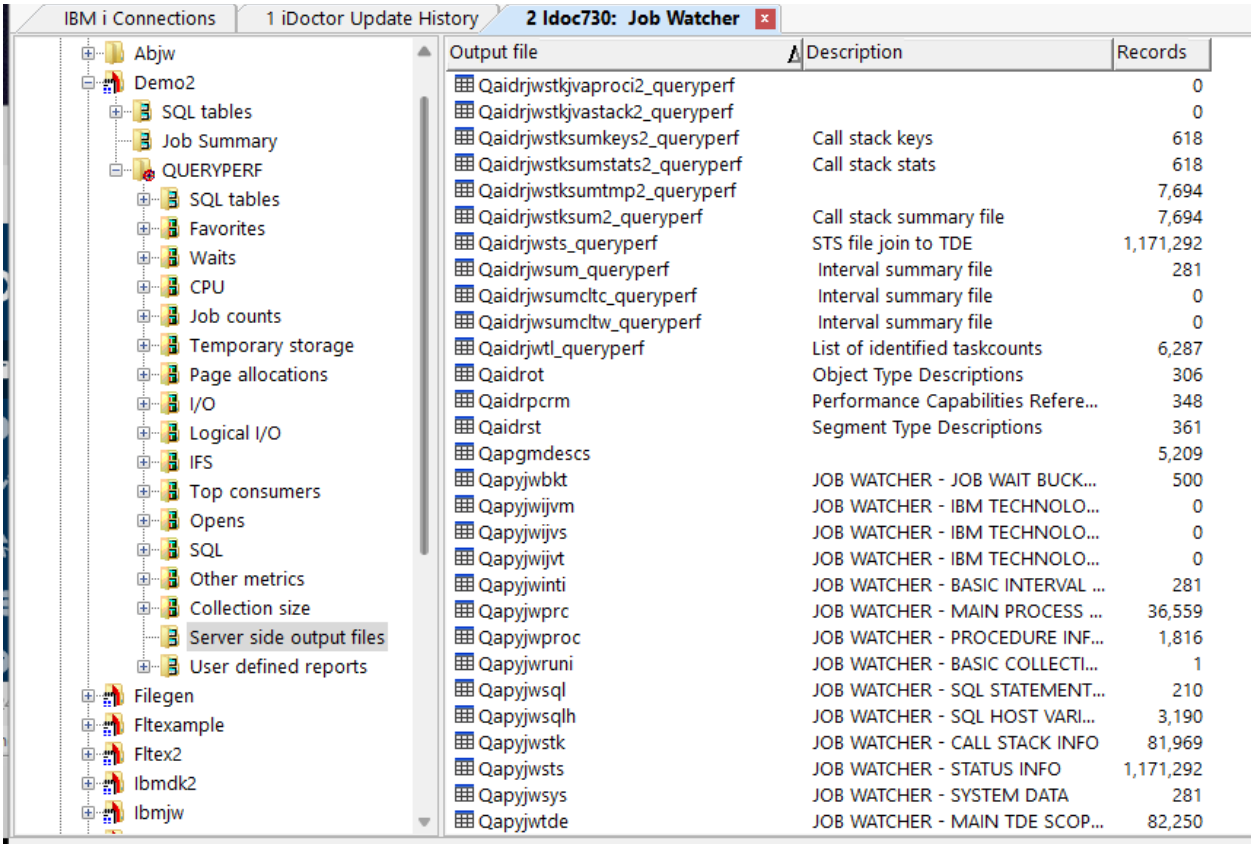
4.11 Server-side output files

Most collections provide a folder called Server-side output files. This provides access to a list of tables applicable to the current collection. This list contains both iDoctor created files and files created by IBM i performance data collection mechanisms.

You can right-click this folder and use the Select fields… menu to configure the list of fields shown in this list.

Tip: The number of records found in each table is also shown, which if 0 can help indicate a problem in some situations. This view is also used to tell if certain expected tables do not exist (and presumably did not get transferred successfully)

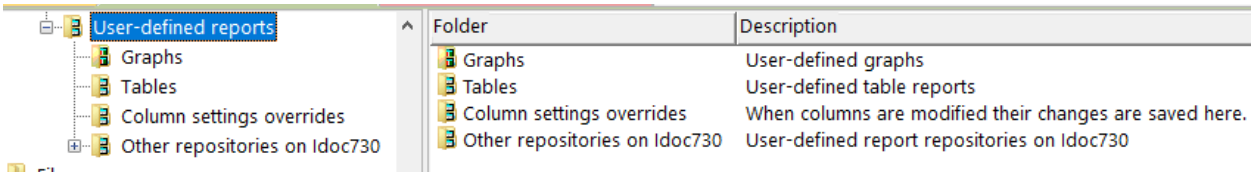
Note: For performance data like QAPYJW* files in Job Watcher, this information applies to the member name in the file matching the collection name.



4.12 User-Defined Reports

When viewing collections in most iDoctor components an option called “User-defined reports” will be shown. This option allows you to show reports from your user-defined reports database but applied to the current collection. This folder contains both graph and table views.

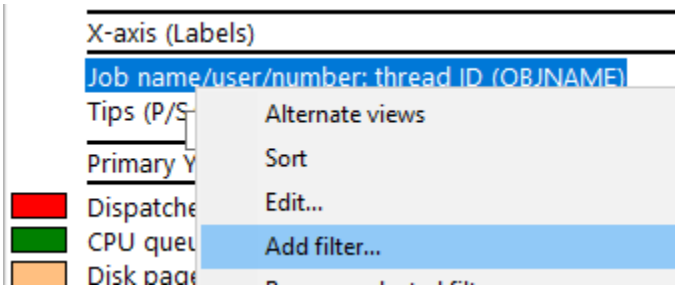
Note: Before using this feature some graphs and/or table reports must be created first. This is typically done by modifying features of an iDoctor graph/table (either SQL statement, columns shown, labels and/or colors) and using the Graph Definition -> Save As… menu for graphs or Query Definition -> Save As… menu for tables.



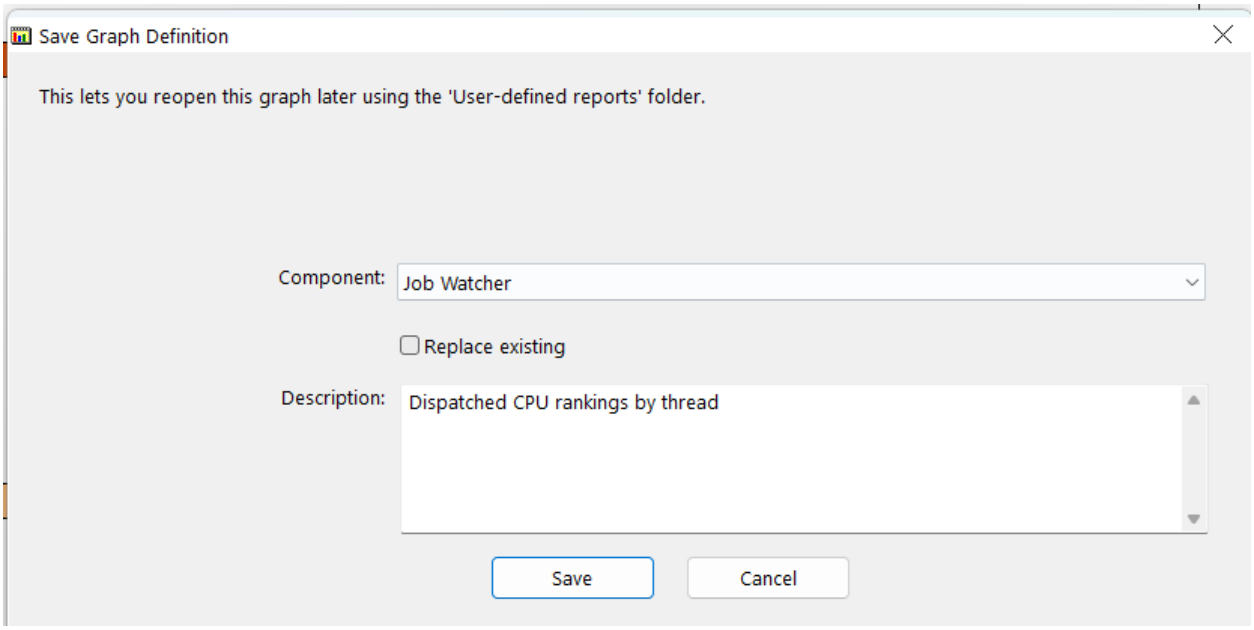
4.12.1 Creating a user-defined graph

In CSI to create a user-defined graph showing only the QSQ* server jobs, a user could follow these steps:

1. Open the Waits -> Dispatched CPU rankings by thread graph.
2. Right-click in the legend on the X-axis label field Job name/user/number: Thread ID (OBJNAME) and choose Add Filter…



3. Type in the value **QSQ** into the box and change the Operator to **Starts with**.
4. Click the Add Filter button then Apply button.
5. Right-click on the graph and use the Graph -> Save As option

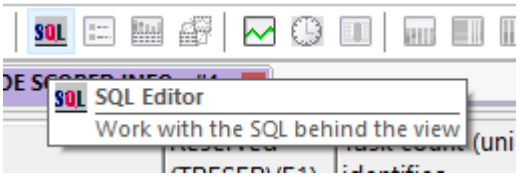


6. Update the description if desired then press the Save button

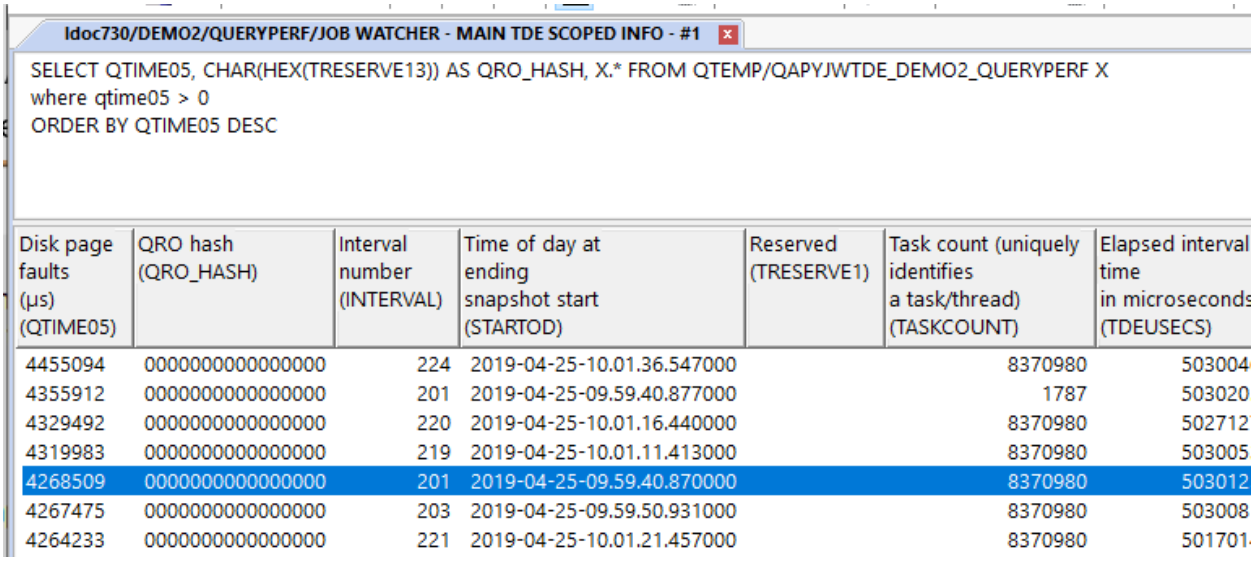
4.12.2 Creating a user-defined report

In Job Watcher a user-defined report showing only QAPYJWTDE file records with page fault time could be created by following these steps:

1. In Job Watcher, expand the server-side output files folder and open the QAPYJWTDE file.
2. Click the SQL button on the toolbar to view the SQL statement.

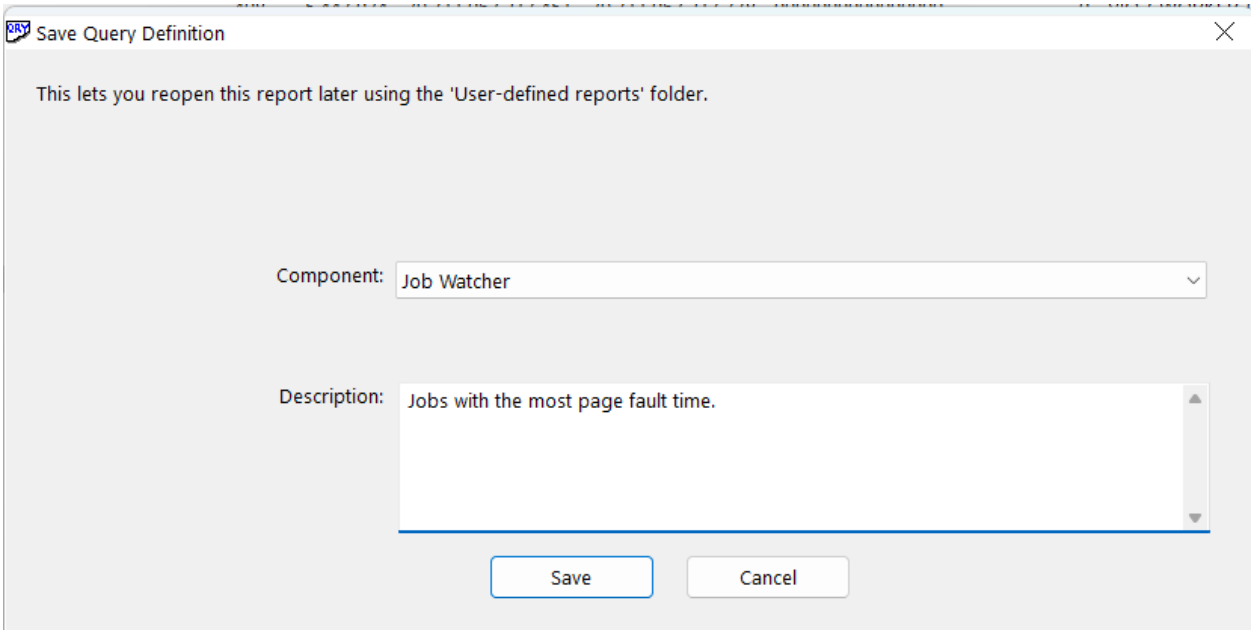


3. Modify the SQL statement to include a where clause such as WHERE QTIME05 > 0 and include QTIME05 near the front for the list of columns displayed.



Disk page faults (µs) (QTIME05)	QRO hash (QRO_HASH)	Interval number (INTERVAL)	Time of day at ending snapshot start (STARTOD)	Reserved (TRESERVE1)	Task count (uniquely identifies a task/thread) (TASKCOUNT)	Elapsed interval time in microseconds (TDEUSECS)
4455094	0000000000000000	224	2019-04-25-10.01.36.547000		8370980	503004
4355912	0000000000000000	201	2019-04-25-09.59.40.877000		1787	503020
4329492	0000000000000000	220	2019-04-25-10.01.16.440000		8370980	502712
4319983	0000000000000000	219	2019-04-25-10.01.11.413000		8370980	503005
4268509	0000000000000000	201	2019-04-25-09.59.40.870000		8370980	503012
4267475	0000000000000000	203	2019-04-25-09.59.50.931000		8370980	503008
4264233	0000000000000000	221	2019-04-25-10.01.21.457000		8370980	501701

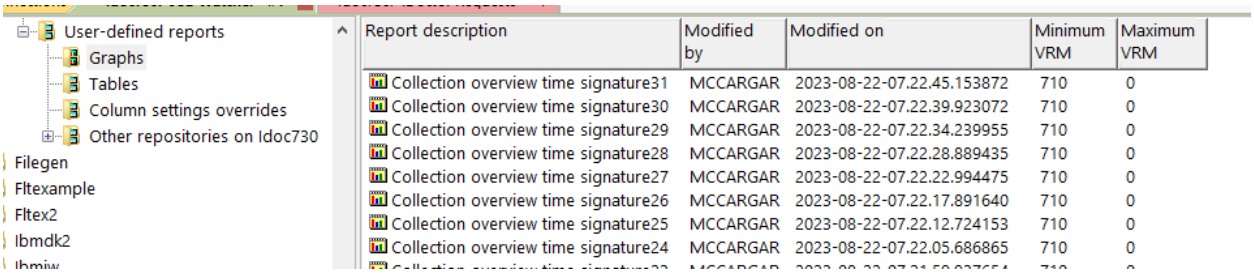
4. Press F4 to rerun the SQL statement
5. Right-click the report and use the Query Definition -> Save As… option



4.12.3 Graphs

This folder contains all user-defined graphs that are applicable to the current collection.

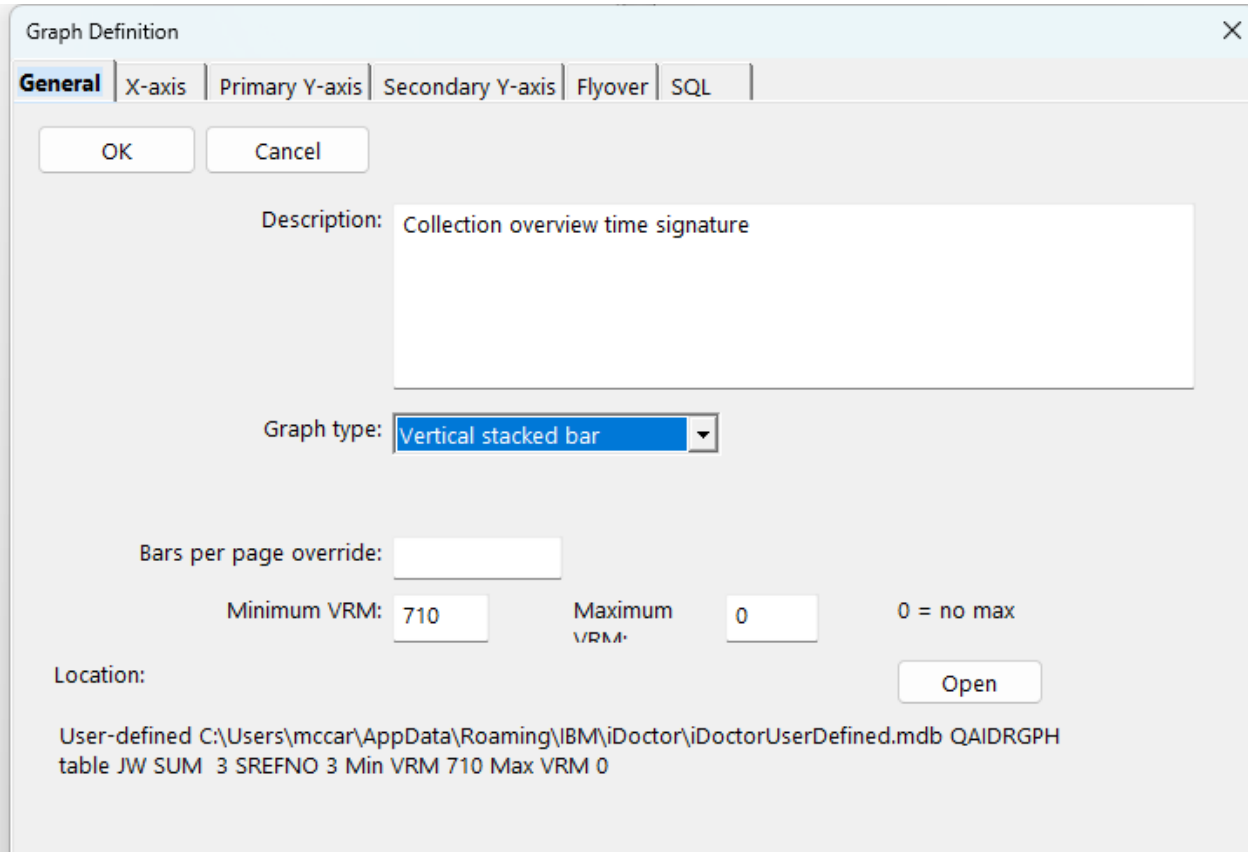
Double-click a graph to open it. You may also right-click the graph and use the Properties option to view and change some of the settings for the graph such as the SQL statement used.



4.12.3.1 Properties

User-defined graphs have properties pages that let you change several settings with how the graph looks.
Tip: You can also change these same settings by opening the graph and saving the user-defined graph there instead.

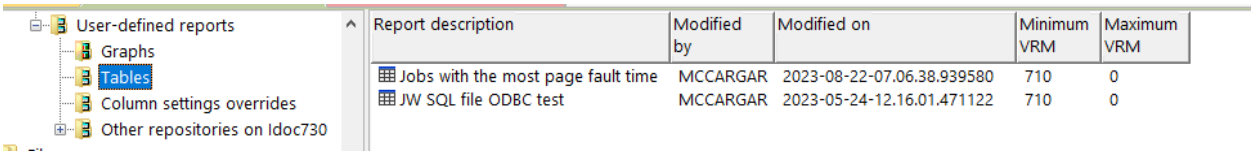
These properties for user-defined graphs are mostly identical to those for iDoctor supplied graph definition properties. The main differences are you can edit user-defined graph definitions and the SQL statement and your changes will be saved.



This interface is covered in the Data Viewer documentation.

4.12.4 Tables

This folder contains all user-defined table-based reports that are applicable to the current collection.

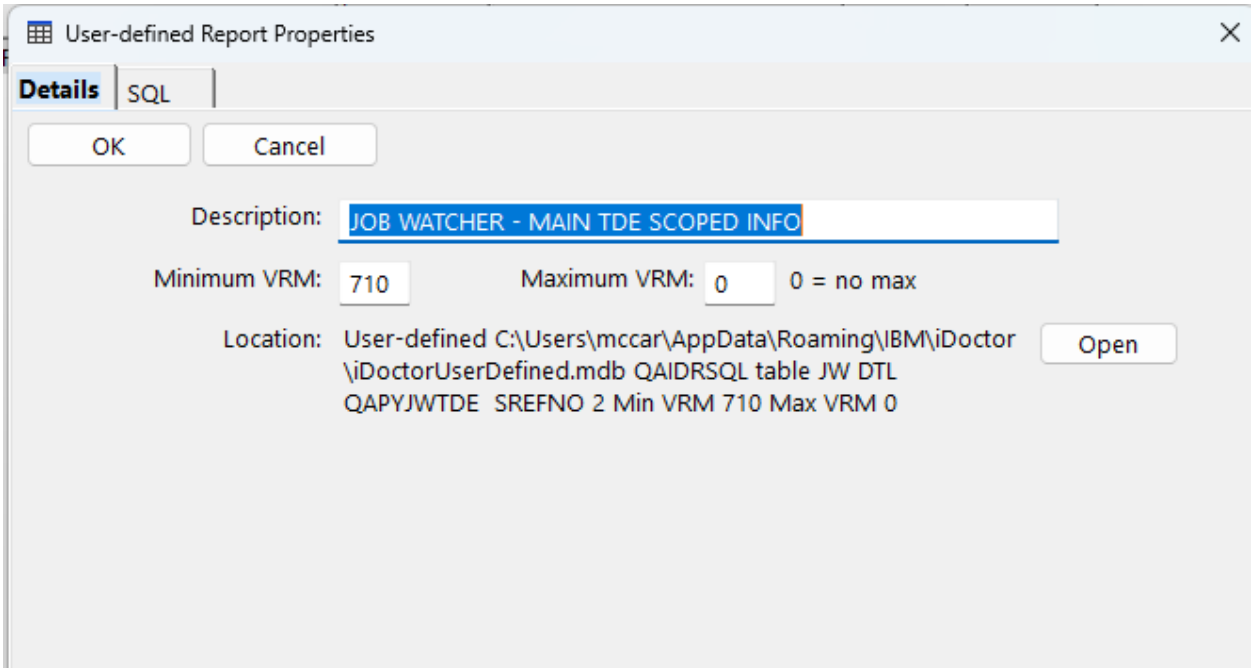


4.12.4.1 Properties

User-defined reports have properties that are covered in this section.

4.12.4.1.1 Details

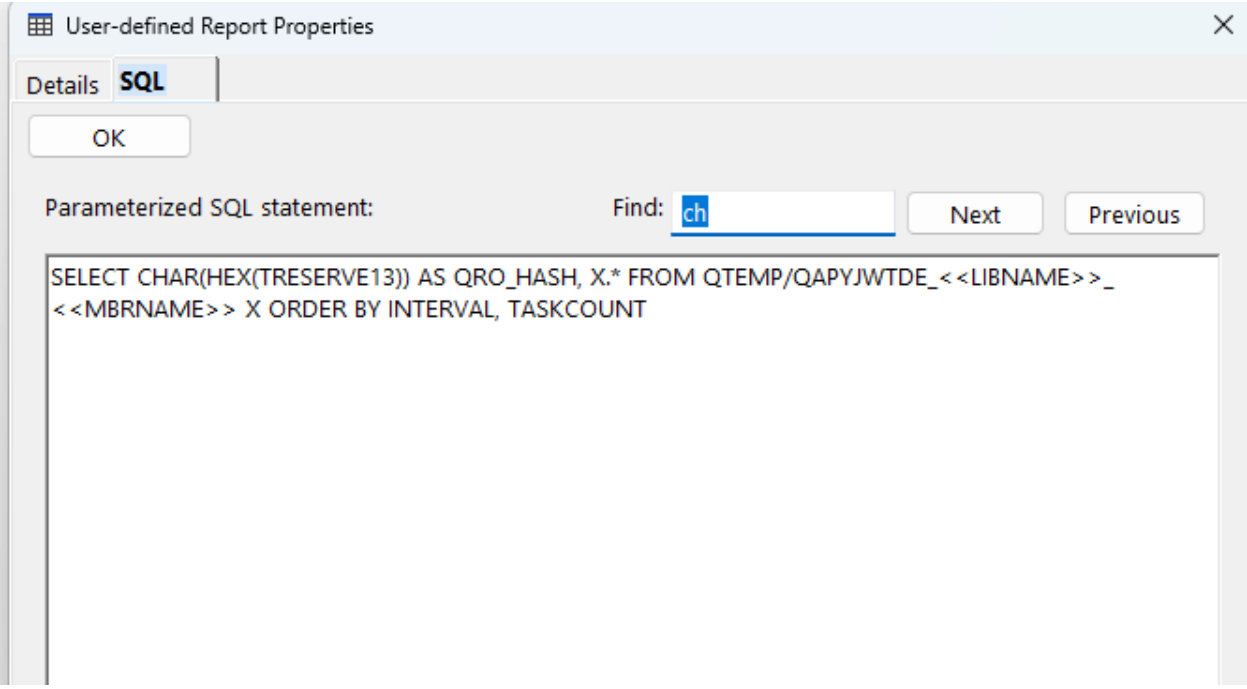
The details page lets you change the title for the report or modify the IBM i VRM levels that the report should apply to.



	Description The name to give the user-defined report.
	Minimum VRM The minimum IBM i release in nnn format such as 610, 710, 720, 730, etc. The minimum release currently functions at is V6R1 (i.e. 610)
	Maximum VRM The maximum IBM I release in nnn format this report should appear at. Use a value of 0 if no max.
	Location Identifies where this report exists in the user-defined reports database. User-defined reports are located within the database (either the .mdb file or IBM I library) in table QAIDRSQL. Within table QAIDRSQL the following columns are used in the example in the screenshot above: SIDCOMP = JW (component identifier) SQRYCAT = DTL (folder identifier – also see table QAIDRCATS) SREFNO = 2 (unique report identifier within this component and folder)
OK	**Open** Opens the user-defined reports database.

4.12.4.1.2 SQL

The SQL statement tab lets you change the parameterized SQL statement behind the report.



	Find Lets you find the entered text within the SQL statement by pressing the Next or Previous button.
	Parameterized SQL statement This is the SQL statement including parameters such as: <<LIBNAME>> = library name <<MBRNAME>> = collection/member name **Tip:** If parameters are included in the SQL statement but are not known to iDoctor then you will be prompted to enter a value when running the report by the Change SQL Parameters window.

4.12.5 Menu Options

Each user-defined graph or report in these folders has the following menu options when right-clicked:

	Open Graph / Table Opens the selected report in a new or existing data viewer depending on the sub-menu option taken.
	Edit Opens the selected report into the SQL Editor. The SQL statement will not be ran until requested by the user. This is most useful if the queries are long running, and you wish to modify them before execution.
	Delete... Removes the selected user-defined reports from the user-defined reports database.
	Properties Displays details about the current user-defined graph definition or query definition that can be modified such as the SQL statement or fields shown on the graph.

4.12.6 Column settings overrides

This folder contains each column that has been modified in iDoctor by any user using the currently defined user-defined reports database. Whenever a user modifies a graph or table column using the Edit column interface they will be saved here. These overrides apply to iDoctor supplied reports and user-defined reports for any where the column short name in the SQL statement matches the values in this list.

If you delete a column from this view, then the iDoctor-defined settings for this column (colors and description) are used instead (assuming the same column name exists in the iDoctor reports.) **Tip:** After deleting column overrides you may need to Clear the iDoctor cache from the component icon popup menu in order for the changes to take effect.

4.12.7 Other repositories

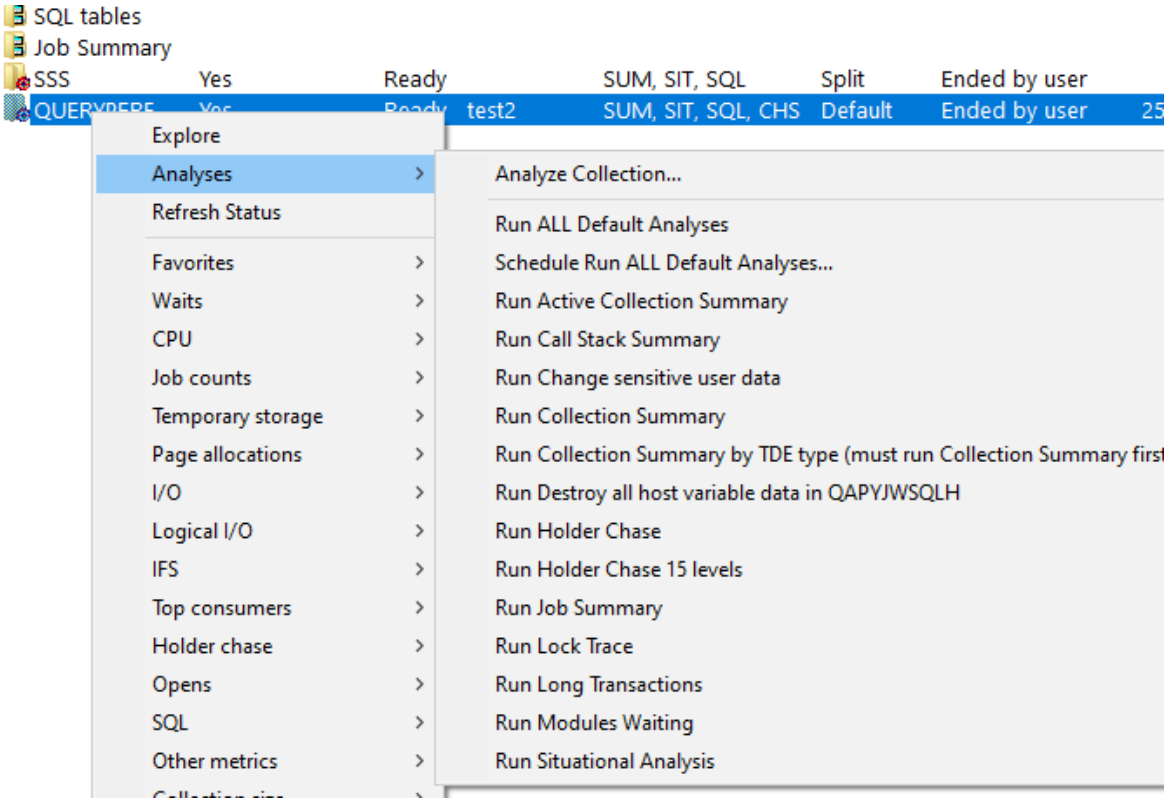
This option allows you to work with any other repositories (libraries) found on the current IBM i you are using. Only libraries will appear that contain the iDoctor repository SQL tables such as QAIDRGPH or QAIDRSQL.

5 Analyses

Analyses in iDoctor are used to process performance data to either summarize the data in some manner or dig deeper and look for specific information for a given performance problem.

Analyses can be found in the main iDoctor components: Job Watcher, PEX Analyzer, Disk Watcher and CSI (Collection Services Investigator).

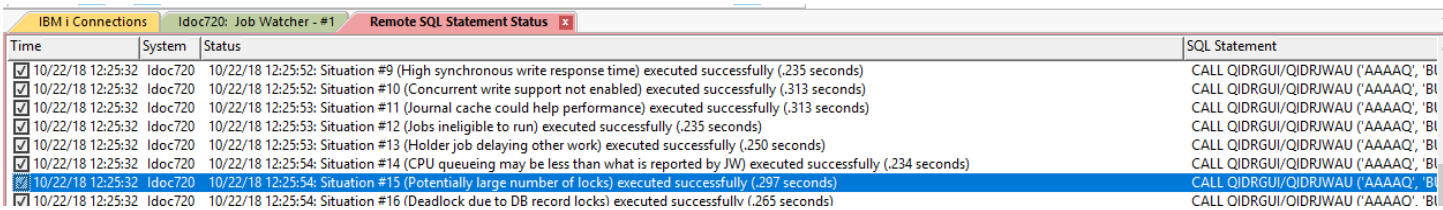
Analyses are initiated by right-clicking collection(s) and using the Analyses menu and picking either the Analyze Collection... menu (which shows a window to pick and choose from any available analyses) or pick one of the available "fast path" analysis options such as "Run Collection Summary", "Run Situational Analysis", etc.



A list of available analyses for a collection in Job Watcher.

Tip: The Analyses menu is also available if you select multiple collections and right-click. This will run the desired analyses on all the selected collections.

Analyses in iDoctor are SQL stored procedures. When an analysis runs it runs in the Remote SQL Statement Status View at the bottom of the main window. This window shows the progress of the analysis and from there completion or error messages will be shown. If an error is shown, you should right-click the error and use the Display job log menu to view the job log and try to determine the error. If you are unable to determine the reason for the error, send the job log and related information about the component, collection you are trying to analyze to iDoctor@us.ibm.com.



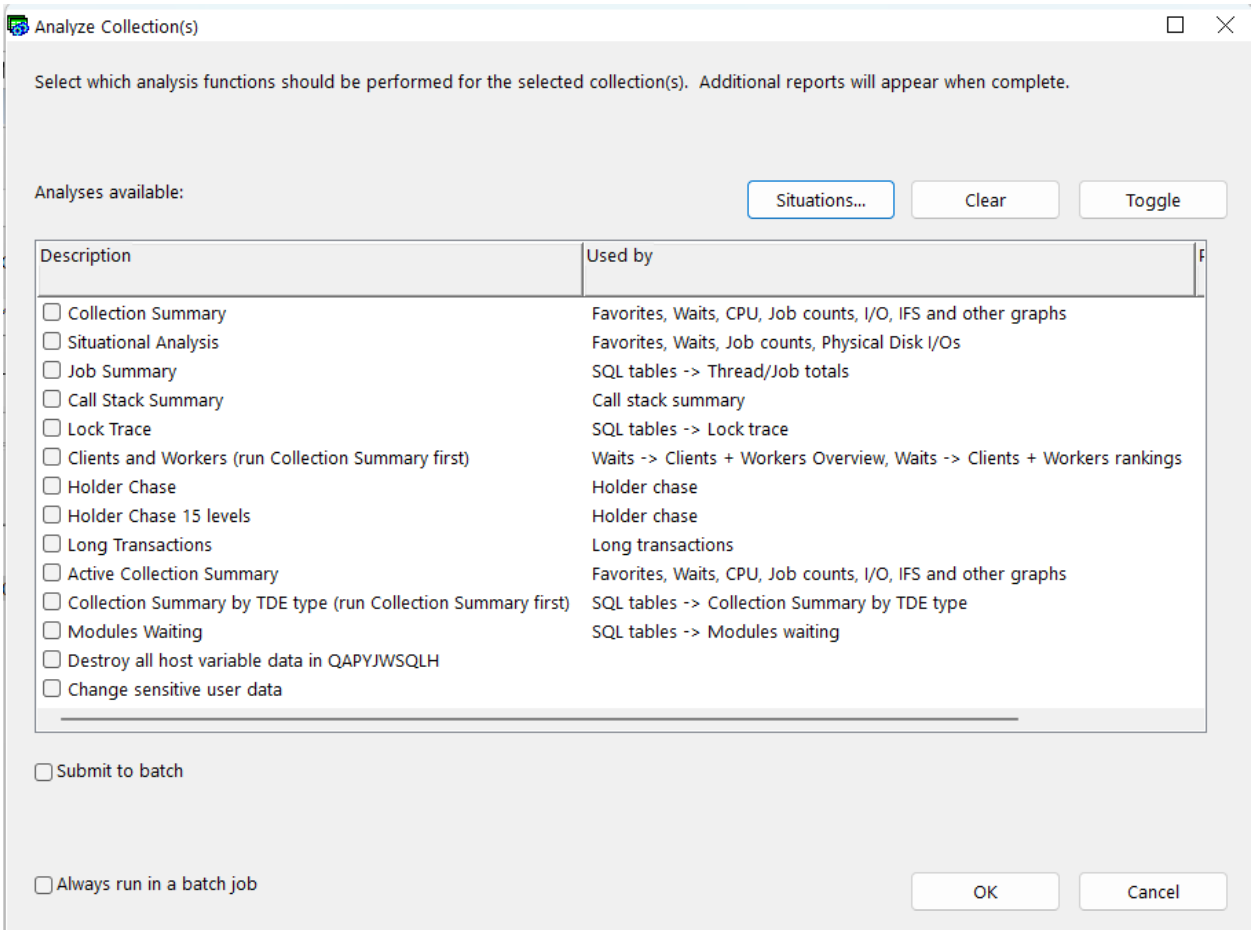
Remote SQL Statement Status View

After an Analysis is complete, the tables it creates can be accessed under the SQL Tables folder found in iDoctor under the component icon or under each library within the Libraries folder. Reports are often available from the SQL tables generated by the analysis. In many cases additional reporting options are also available under the collection, by right-clicking the collection and accessing a new menu option applicable to the new analysis.

5.1 Analyze Collection(s) Window

Use this option to be presented with a list of possible analyses to run against the selected collections. You can select one or more analyses to run by checking the checkbox next to each. In the Job Watcher and Collection Services Investigator components, a Situations button will exist that allows you to configure options related to the Situational Analysis.

If you want the analyses to run in a batch job instead of a QZDASOINIT job, then check the checkbox called “Submit this request to a batch job…”. Doing so is usually desired if the collections have large amounts of data or if the analyses are expected to take a long time to run as this will free up the Remote SQL Statement Status View for other actions you may wish to take.

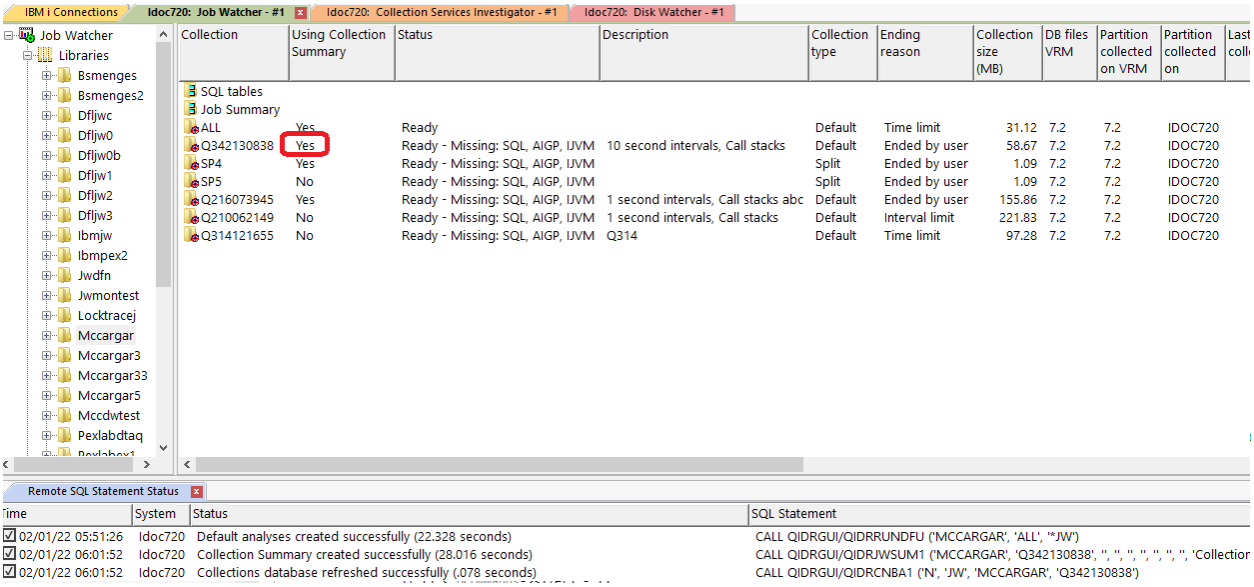


OK	**Situations…** This button opens the interface to work with the situations found in the Job Watcher or Collection Services Investigator components.
OK	**Clear** This button will uncheck all selections in the list.
OK	**Toggle** The selected analyses will either be checked/unchecked (i.e. toggled) from their current values.
	Analyses available This is the list of possible analyses to run. It contains these columns: **Description:** The name of the analysis. Typically, under the SQL Tables folder you will find folder of the same name which allows you to work with the data generated by these analyses. **Used by:** This describes where in the GUI the data created by this analysis is used. **Program:** The name of the program object in the QIDRGUI library. This is the SQL stored procedure that behind each analysis. These programs all have a text description which is a number such 005. This is the version number of the program. **Run all default:** If this value is set to a 1 then the analysis will be executed when using the Run ALL default analyses menu option found when right-clicking a collection.

☐	**Submit to batch** This option will run the desired analyses in a batch job on the IBM i using a file sent to the IBM i's IFS with the SQL statements to run and the RUNSQLSTM command. The job name used will be one of the following depending on the component identifier: Collection Services: QIDRCSSUM Job Watcher: QIDRJWSUM PEX Analyzer: QIDRPASUM Etc. **Note:** This option requires a valid FTP connection to the IBM i. Your FTP connection settings can be configured in the IBM i Connections View.
☐	**Run at high priority** This will submit the batch job to run the SQL statements at priority 1. **Note:** You probably do not want to use this option on production systems as in some cases the SQL can be intensive.
OK	**Schedule** This button is used to specify in the analysis should run now or later.
☐	**Always run in a batch job** This option effects the same preference on the Misc tab. If checked then the next time this screen is used the "Submit this request to a batch job…" will be prechecked for you.

After pressing OK, the Remote SQL Statement Status View window will show calls to several stored procedures that are used to create the analysis tables. These tables will appear under the SQL Tables folder under the library and collection.

After the analyses are complete it's important to refresh (F5) the library to ensure that all new data is recognized by the GUI and it used in the reports shown. If a Collection Summary analysis was ran the "Using iDoctor collection summary" flag may also change from "No" to "Yes." This will typically cause additional reports to shown as well.

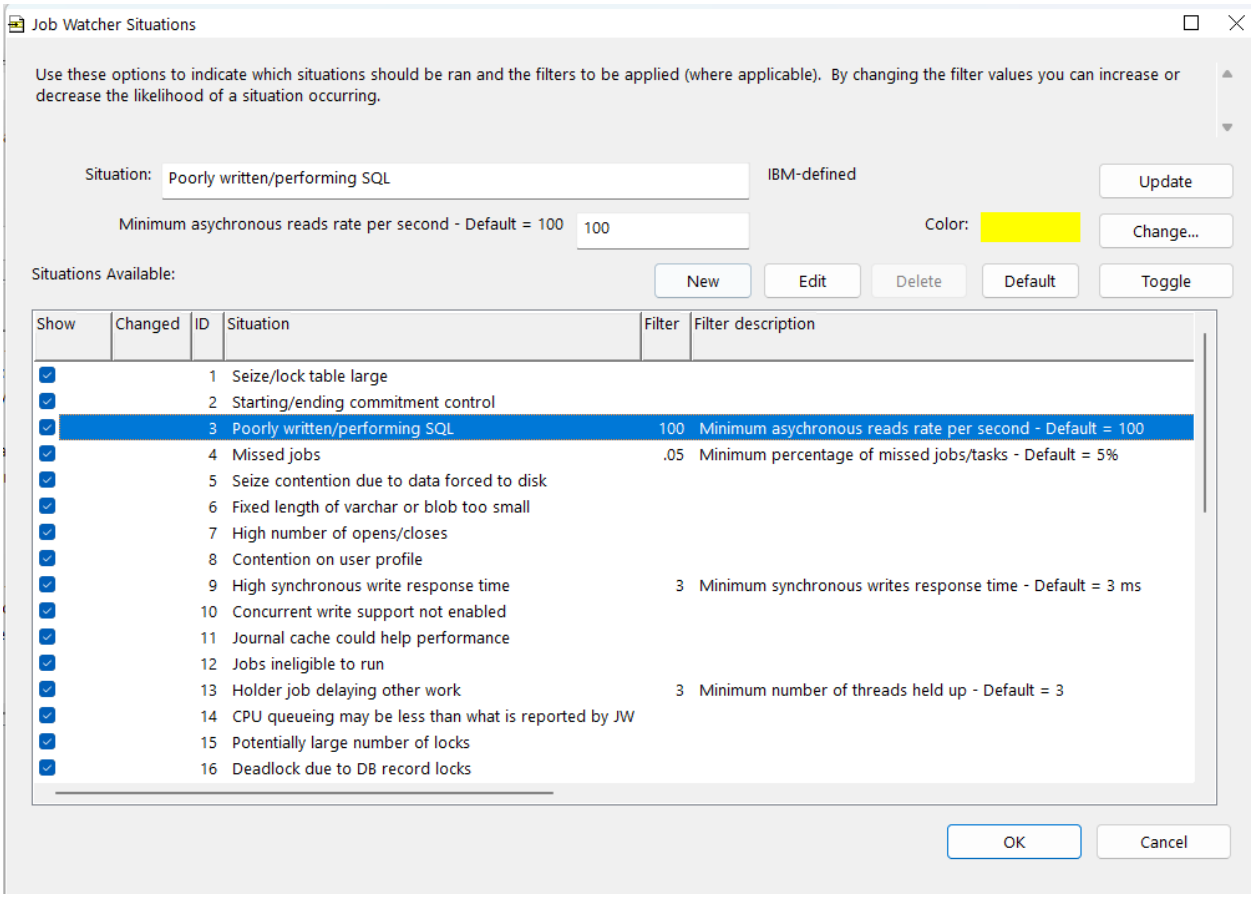


Using iDoctor collection summary flag changed to Yes after analyses complete

5.1.1 Situations Window

The Situations Window allows the user to control parameters used by the IBM defined situations or you may also create new user-defined situations to run against the data in your collections. Using this interface, you may also control which situations should be ran.

An example of this interface is:

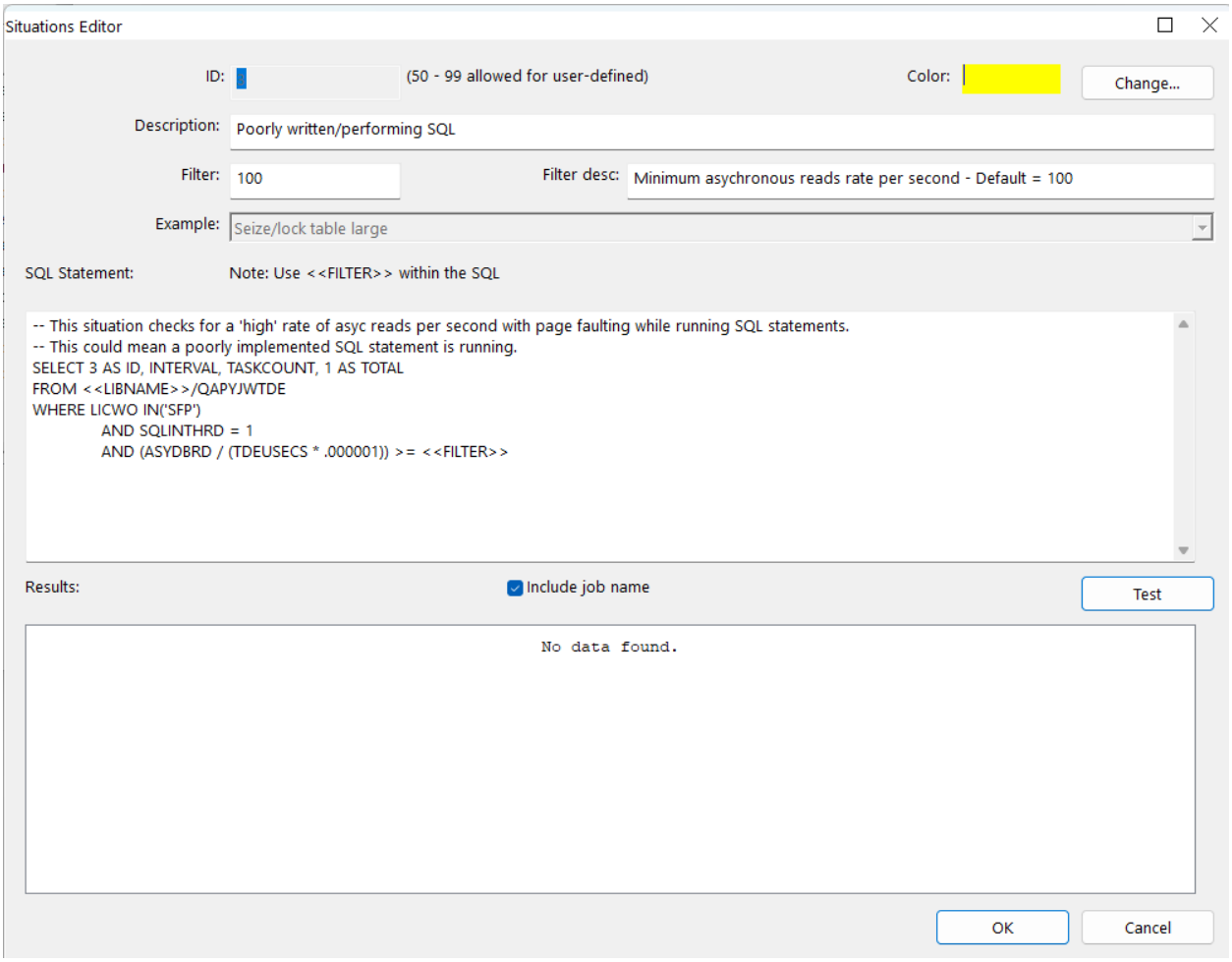


	Situation This field allows the user to modify the name of the situation.
OK	**Update** This button will save any changes made within the Selected situation quick edit options frame to the selected situation in the list. These changes are saved in the windows registry.
	Filter value The filter value text box lets you modify the filter's value to use. The filter value replaces the <<FITLER>> parameter marker within the SQL statement.
OK	**Color Change** Changes the situations color shown as the background color when graphed. If multiple situations occur in a time period, then the color is always red.
	Situations available list This list contains all the IBM-defined and user-defined situations. The following columns are provided: **Show:** The show checkbox/column can be used to avoid running certain situations if desired. **Changed:** If the user has made changes to a situation this column will contain “Yes”. **ID:** The ID number is used to uniquely identify each situation. **Situation:** Name of the situation. **Filter:** Some situations have a <<FILTER>> parameter in the SQL statement. This is the value to use for that parameter and helps indicate if the situation should occur. **Filter description:** Describes the (optional) filter used by this situation. **Color**: Identifies the color of the situation in RGB format (0-255,0-255,0-255). **IBM-defined:** This column indicates if the situation is IBM-defined or user-defined. Typically, the situation ID will be >=50 for user-defined situations. **SQL:** Shows the SQL statement for the situation. It may be modified by pressing the Edit button.
OK	**New** The new button displays the Situations Editor window which allows you to create your own situation.
OK	**Edit** The edit button displays the Situations Editor window and fills in the information for the current situation.
OK	**Delete** This button lets you delete the currently selected user-defined situations. IBM-defined situations cannot be removed.
OK	**Default** This button removes all changes made to the IBM-defined situations, remove all user-defined situations and restores them to their original (shipped-default) state.
OK	**Toggle** This button changes the checked state of all selected items in the list.
	Situations Available The list of situations defined in the current component. You can uncheck the ones you don’t want to include the next time the Situational Analysis runs.

5.1.2 Situations Editor Window

The Situations Editor window is used to create a new situation or modify advanced settings of an existing one. It allows the user to modify a situation to suit their individual needs. Situations are built from a special SQL statement that meets certain characteristics.

An example of this window looks like this:



	ID The situation ID must be unique and needs to be between 50-99 for user-defined situations.
OK	**Color change** Changes the situations color shown as the background color when graphed. If multiple situations occur in a time period, then the color is always red.
	Description This field allows the user to modify the name of the situation.

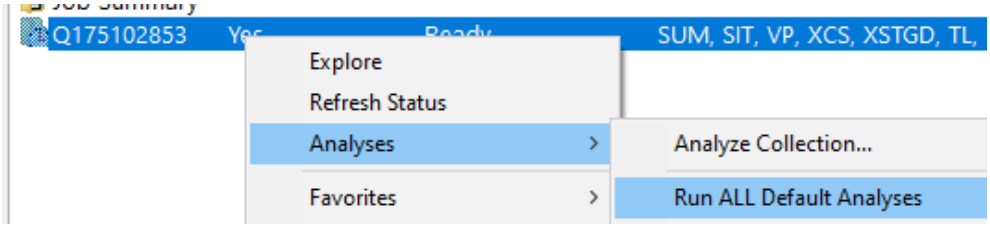
	Filter The filter value text box lets you modify the filter's value to use. The filter value replaces the <<FITLER>> parameter marker within the SQL statement. **Note:** This field is optional and can be blank.
	Filter desc The filter description describes the filter that has been included in the SQL statement.

	Examples The SQL statement examples drop down box contains a list of all IBM-defined situations. Selecting one of these situations replaces the current SQL statement shown. These examples contain comments and should help you get a better idea on how to create your own situation to suit your needs.
	SQL Statement The SQL statement that performs the testing to see if the situation has been satisfied in the data. The tables should be referred to using <<LIBNAME>>/QAPYJWTDE syntax where <<LIBNAME>> is a parameter marker replaced at runtime with the current library and QAPYJWTDE is the desired file. **Note:** Aliases will be automatically created for you to point to the current collection member and do not need to be referred to here. The outer select must contain the following 4 fields (in this order): 1. ID = situation ID (User-defined situations are numbered 50+. IBM-defined situations are 1-49.) 2. INTERVAL = interval number when the situation occurred 3. TASKCOUNT = unique identifier for the job/task. Use a value of 0 if the situation applies to the entire collection and not a specific job or task. TOTAL = The number of occurrences of this situation for this job/task and interval. If the situation does not apply to any specific job or task, then a value of 1 should be used.

	Include job name in results This option will modify the SQL statement slightly under the covers to display the Job name and thread ID associated with each taskcount found. Because Job name and thread ID are not returned in the situation analysis table they are only shown here for test purposes.
OK	**Test** This button executes the current SQL statement shown above against the current collection. If any results are found, they will be shown in the SQL Statement results list. For testing purposes, use the Test SQL button and the “Include job name in results checkbox” to see the jobs in your test collection that match your situation before using. In this way you can modify the SQL Statement to control verbosity to best suit your needs.
	Results This list contains the result set returned by running the SQL Statement shown above.
OK	**OK** Accepts all changes made and closes the window, returning to the Situations Window.

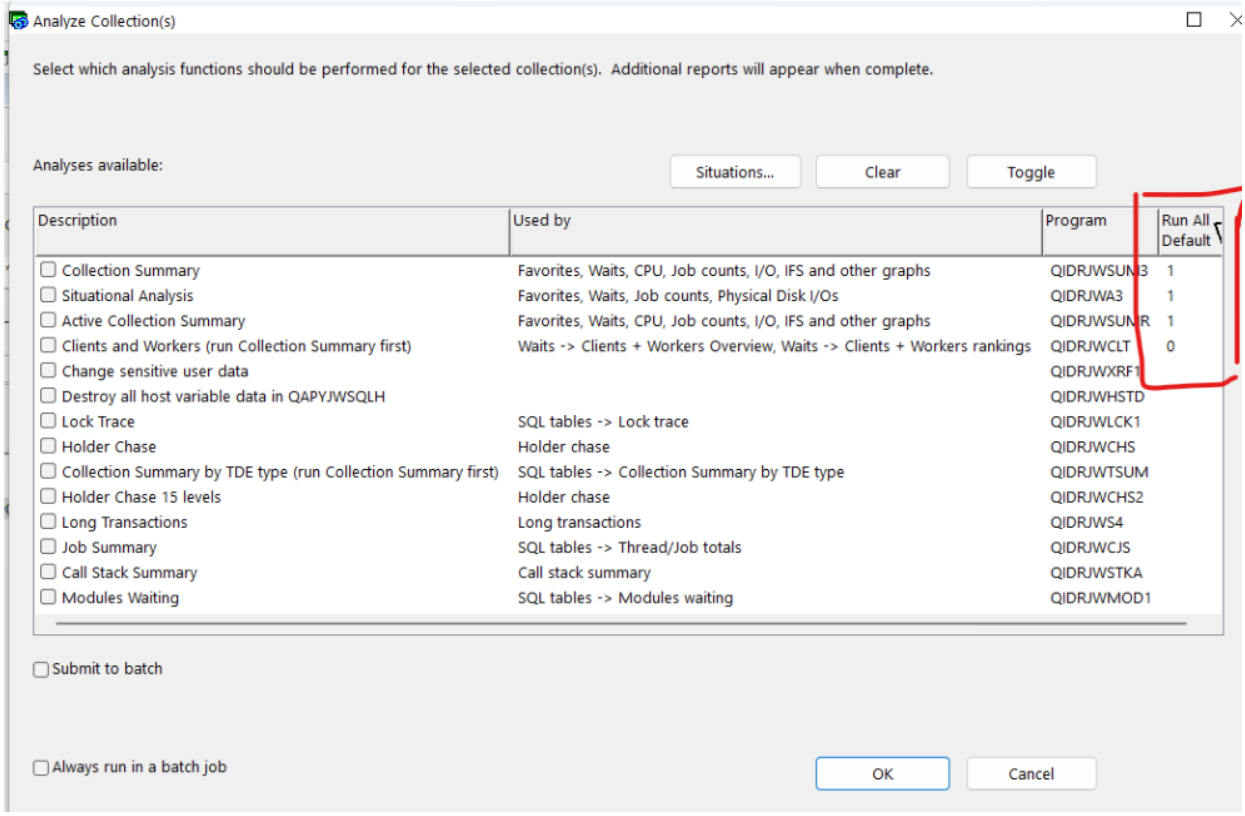
5.2 Run ALL Default Analyses

In some of the components this will run the “default” set of analyses on the selected collections.



Collection menu -> Analyses -> Run ALL Default Analyses

This list of “default” analyses varies by component and can be viewed by using the menu option “Analyses -> Analyze Collection” and looking for the “Run All Default” column in the list of analyses.



Analyze Collection(s) Window -> Run All Default column example

Tip: On the green screen these default analyses are ran when using the QIDRGUI/STRIDRSUM and QIDRGUI/RSTIDRDTA SUM(*YES) commands.

5.3 Analyses -> Run analysis menu

This option (by default) when used on a collection, will kick off the desired analysis in the Remote SQL Statement Status View. If the submit to batch preference is used instead, then you must wait until the batch job created finishes.

When complete additional reports will become available (after refreshing the component view).

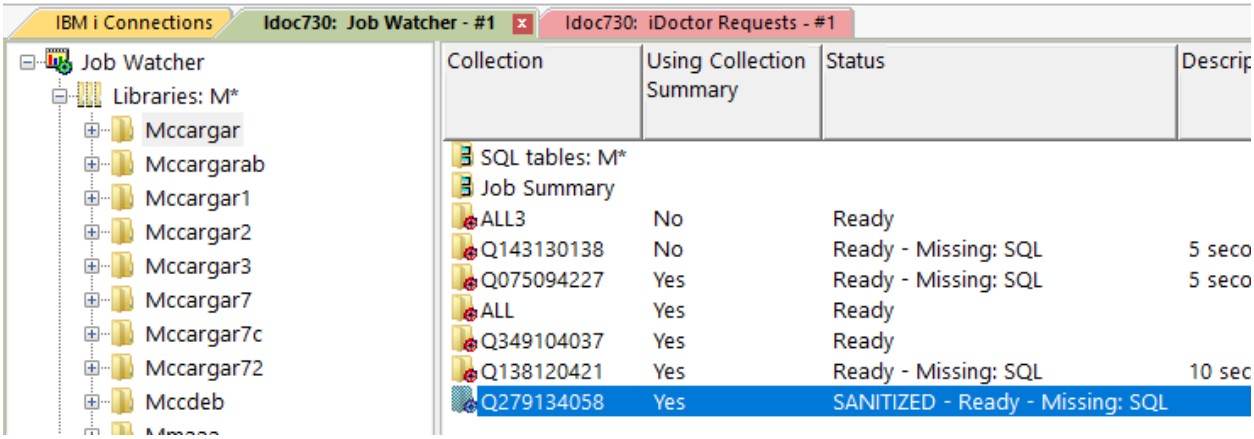
5.4 Change sensitive user data

Most components include this analysis which can be ran to ***modify*** the performance collection in order to hide/rename potentially sensitive data such as system names, job names, user profiles, etc. The data modified varies by component.

It is a good idea to create a backup of the collection before using this feature since the changes are permanent except when using **PEX Analyzer**.

Note: This analysis does NOT modify existing iDoctor-created QAIDR* SQL tables. If you want that data to be sanitized as well, you should run this analysis first and then run the desired analyses after.

After running this analysis, the collection status should indicate **SANITIZED** which means the original data has been changed by this analysis.



In PEX, a **Restore sensitive user data** analysis also exists that can be used to restore the data back.

5.5 Restore sensitive user data

This analysis appears **ONLY in PEX Analyzer** and can be used to restore the data that was sanitized back to the original contents. This only works if the QAIDR* tables that were originally created by the **Change sensitive user data** analysis still exists in the same library and the collection has not been renamed.

6 Monitors

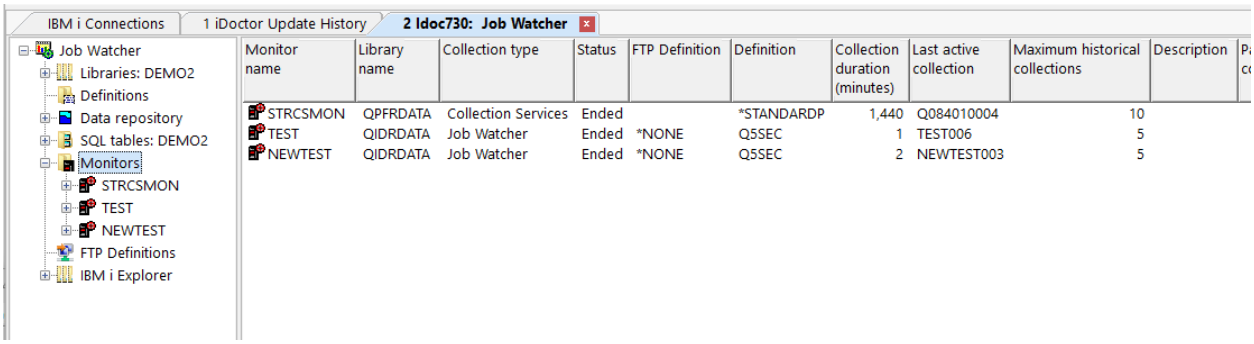
All components provide an option to start and work with monitors. Monitors allow the user to continuously collect Job Watcher, Disk Watcher and/or PEX data.

Tip: Data in monitors can be optionally sent to another LPAR using an FTP definition.

Note: For Collection Services, a monitor of that type allows data to be sent to another LPAR automatically after each cycle is completed. Only 1 CS monitor can be started at a time. Multiple JW, DW or PEX monitors can be running at the same time if desired.

Monitors run continuously storing only the desired number of collections. Monitors will run until ended manually by the user or when ended via a scheduled job. Monitors can be held and released if the user wishes to stop collecting data, and then continue collection again later. Monitors can also be scheduled to start and end at the desired times.

Once a monitor has been completed, it must be restarted using the Restart Monitor option.



Monitors Folder

6.1 Commands

The green screen commands related to monitors (and the collections they contain) in the QIDRWCH library are:

Addftpdfn - Create a definition for sending data

Cpycscol - Copy a Collection Services Collection

Cpydwcol - Copy a Disk Watcher Collection

Cpyjwcol - Copy a Job Watcher Collection

Dltcscol - Delete a Collection Services collection

Dltdwcol - Delete a Disk Watcher Collection

Dltdwmon - Delete a Disk Watcher Monitor

Dltjwcol - Delete a Job Watcher Collection

Dltjwmon - Delete a Job Watcher Monitor

Dltpamon - Delete a PEX Analyzer Monitor

Endcsmon - End the Collection Services monitor (if active)

Enddwcol - End a Disk Watcher Collection

Enddwmon - End a Disk Watcher Monitor

Endjwcol - End a Job Watcher Collection

Endjwmon - End a Job Watcher Monitor

Endpamon - End a PEX Analyzer Monitor

Ftpcol - Transfer perf collection to another system

Hlddwmon - Hold a Disk Watcher Monitor

Hldjwmon - Hold a Job Watcher Monitor

Hldpamon - Hold a PEX Analyzer Monitor

Rlsdwmon - Release a Disk Watcher Monitor

Rlsjwmon - Release a Job Watcher Monitor

Rlspamon - Release a PEX Analyzer Monitor

Rmvftpdfn - Remove a definition for sending data

Strcsmon - Start a Collection Services Monitor

Strdwmon - Start a Disk Watcher Monitor

Strjwmon - Start a Job Watcher Monitor

Strpamon - Start a PEX Analyzer Monitor

Tip: Many of these commands contain help text. See the command help text for more details on usage.

Note: When using a FTP definition, the QIDRGUI/FTPFILE command is used to send performance data to other LPARs. This creates a script and uses the IBM i FTP command.

6.2 Menu Options

The menu options found when right-clicking on one or more monitors in the list are:

	Open This option will expand the monitor and view the collections it contains.
	Explore data on remote LPAR If this monitor has an FTP definition set, this option will open a new component view to the remote LPAR of the applicable component to view the data there.
	Edit FTP definition Use this option to change the FTP definition behind the monitor. Changes can be made while the monitor is still running if desired.
	View definition This option will display the definition used when creating the monitor. **Note:** This is not applicable to CS monitors.
	Edit definition This option displays the interface to modify the definition used when creating the monitor. **Note:** This is not applicable to CS monitors.
	**Select fields…** This is used to control which fields are shown in the list of collections found by double-clicking or using the Explore menu.

	**Start New Monitor** Opens the Monitor Wizard to create a new monitor.
	Restart Monitor Opens the Monitor Wizard to restart the selected monitor. This option is only enabled if 1 monitor is selected.
	Copy Monitor Record This is used to copy the record in the file that that builds this list to another library/monitor. No data is copied
	Hold/Release This option allows the selected monitor to be held. If held the active collection will be ended immediately and no more collections will be started until the monitor is released.
	End immediately This option will end the monitor and all active collections defined within immediately.
	End after current collection This option will end the monitor once the current collection running completes.

	Clear Server Cache This will clear the collections cache for the library and type matching the selected monitor.
	**Delete** Removes the monitor and all collections within it from the system. **Note:** This does not remove collections on the remote LPAR if an FTP definition has been set.
	**Save** Creates a save file containing all collections within the monitor.
	Transfer to Use these options to send data to another LPAR or the PC.

6.3 Fields

All columns are shown by default. You can hide or rearrange columns using the Select Fields… menu by right-clicking the Monitors folder.

Field	Description
Monitor name	The name of the monitor. Monitor names cannot be greater than 7 characters. The collections within the monitor use the monitor name concatenated with 001 through 999. **Note:** Collection Services monitors are always named **STRCSMON** and there is only 1 on a system.
Library name	The name of the library containing the performance data collected by the monitor.
Collection type	Either Job Watcher, Disk Watcher, PEX Analyzer or Collection Services.

Status	This is either Ended or Active. If Active it will include the current job status for the job running the monitor.
FTP Definition	This is optionally used to send data in the monitor to a remote LPAR. In the case of Collection Services, this is required.
Definition	This is the name of the definition used when creating the monitor. **Note:** For Collection Services this is the default collection profile setting on the CFGPFRCOL command.
Collection duration (minutes)	This is the elapsed time that each collection should contain.

Last active collection	The name of the last active or currently running collection.
Maximum historical collections	This is the number of collections to retain.
Description	An optional description to give the monitor. **Note:** Does not apply to Collection Services monitors.
Partitions count	If the monitor is collecting data simultaneously over multiple partitions this field indicates the number of partitions data is being collected for.

Start time	The date and time when the monitor started. **Note:** For Collection Services this is the time when the currently running collection started.
Maximum collection size (megabytes)	This option indicates the maximum collection size for each collection created within the monitor. This value only applies to Disk Watcher and Job Watcher. **Tip:** If this maximum size is reached before the collection duration has elapsed, then NO DATA is captured.
Monitor job	That job that is running or ran the monitor.
ENDPEX data option	This option applies only to PEX monitors and can be one of the following: 1) **Create DB files** - The data is dumped into the PEX DB files when each collection ends 2) **Create *MGTCOL** - The PEX data is dumped into a PEX *MGTCOL object when each collection ends 3) **Suspend** - The PEX data is not dumped and the collection will move to suspended status. After the desired maximum historical collections have been created, the PEX monitor will end. At that point the data must be dumped to database files or *MGTCOL objects manually using either the ENDPEX command or the Active collections folder within PEX Analyzer.

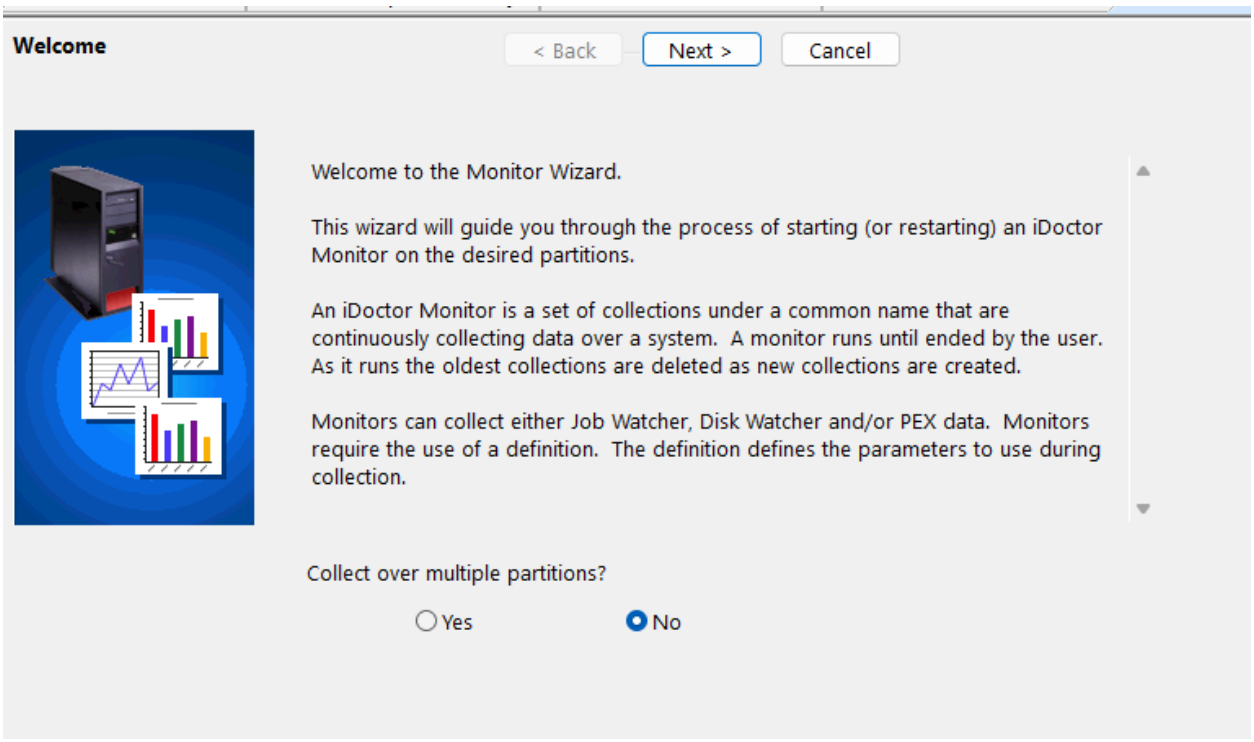
6.4 Monitor Wizard

This section describes the interface used when starting (or restarting) an iDoctor monitor.
Monitors for all types can be started at the same time using this interface if desired. A separate job is used to collect data for each type.

Tip: Data can be optionally sent to another system using an FTP definition.
When restarting a monitor, the parameters that were used to last start the monitor are preloaded into this interface.

6.4.1 Welcome

The Welcome page introduces the user to the Monitor. Selecting Yes on this screen will allow you to pick the partitions to collect data on.

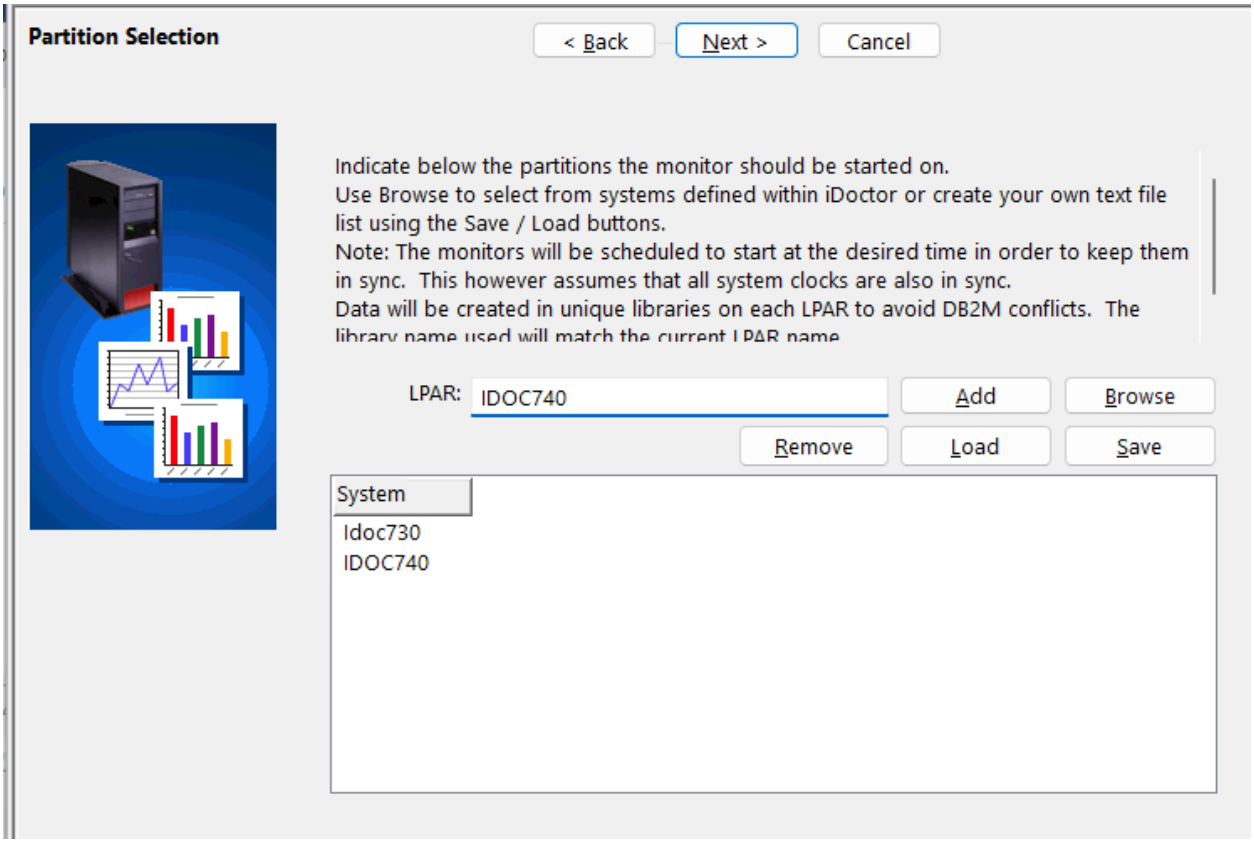


◯	**Collect over multiple partitions?** Choose Yes to visit the Partition Selection screen, otherwise the FTP Definition screen will be shown.

6.4.2 Partition Selection

The Partition Selection screen lets the user configure the list of partitions to collect data on.

Tip: In order to make it easier to analyze the data, the system clocks on the partitions used should be in sync.

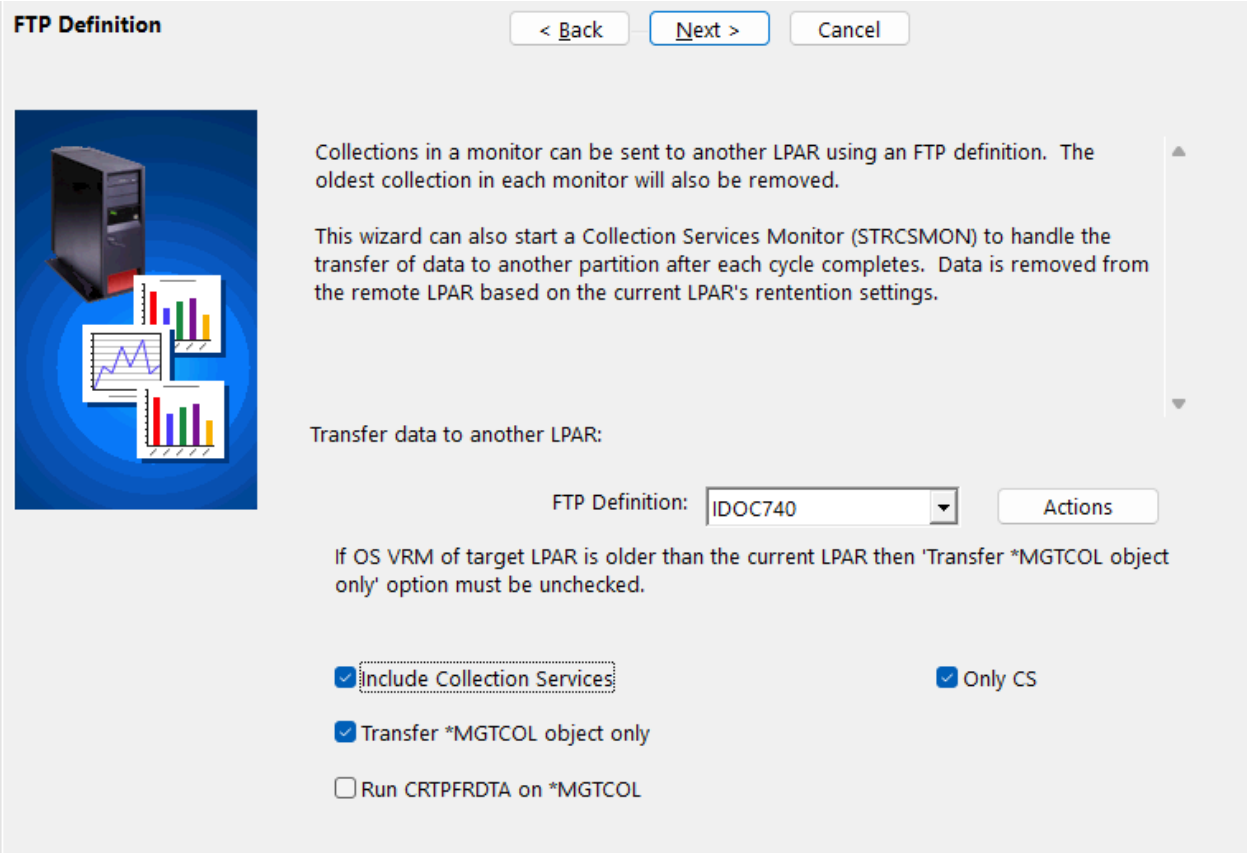


	LPAR Name of the system to add to the list.
OK	**Add** Adds the partition name or IP address in the text box to the list.
OK	**Browse** Shows a list of IBM i connections to select from.
OK	**Remove** Removes the selected partitions from the list
OK	**Load** Loads a list of partition names from a text file. The file should 1 partition name or IP address per line.
OK	**Save** Saves the current list of partitions to a text file that can be used later via the Load option.
	System list This is the list of systems that monitors will be started on. iDoctor must be installed on all systems and all must have a valid access code.

6.4.3 FTP Definition

This screen is used to optionally send data collected by the monitor to another LPAR.

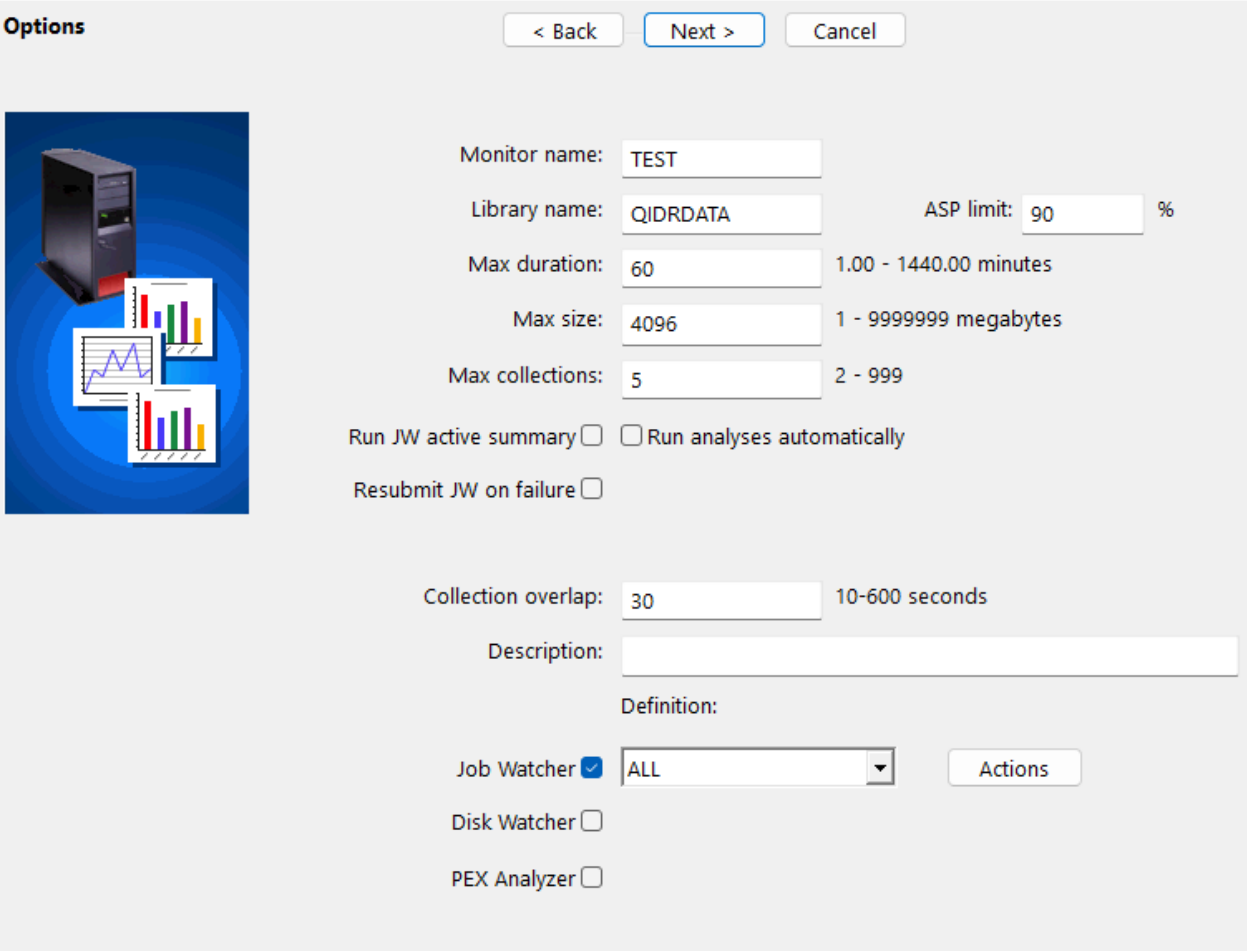
For Collection Services, additional options exist to control how the data is sent.



	FTP definition The name of the definition to use or *NONE. **Tip:** Only 1 FTP definition can be used at a time. If you wish to use a different FTP definition for each type of collection, then you will need to use this interface multiple times.
OK	**Actions** This button shows menu options that can be used against the selected FTP definition. These options are **View**, **Change**, **New** and **Delete**.
☐	**Include Collection Services** This indicates that collection services data should be sent to another LPAR based on the FTP definition.
☑	**Only CS** If this is checked, then none of the additional panels except **Finish** will appear and only a CS monitor will be started.
☑	**Transfer *MGTCOL object only** This indicates that only the *MGTCOL object for the CS collection will be sent. **Note:** This should only be used if the target system is at the same OS VRM or newer.
☐	**Run CRTPFRDTA on *MGTCOL** If the previous checkbox is checked, this indicates if the data should be automatically created as QAPM* files from the *MGTCOL object.

6.4.4 Basic Options

This page allows the user to enter the parameters like the monitor name, library, and the type(s) of monitors to create.
None of these settings apply to Collection Services monitors.



	Monitor name The name of the monitor. Monitor names cannot be greater than 7 characters. The collections within the monitor use the monitor name plus 001 through 999.
	Library The library name the monitor's collections should reside in.
	ASP limit This value indicates the maximum allowed ASP percentage used. If while the monitor is running this value is exceeded the monitor will end. **Note:** The ASP checked is the same as the ASP that the library resides in.

	Max duration Indicates how long each collection should run for (in minutes). **Tip:** Ensure that the definitions specified would allow the collection to run for at least this long to avoid having gaps in the monitor data where no data is being collected.
	Max size This parameter indicates the maximum size to allow for each collection in the monitor. If the size is exceeded, then the collection will stop and there will be a gap in the collection data until the monitor starts the next collection in the sequence. **Note:** This parameter only applies to Job Watcher and Disk Watcher Monitors. For PEX monitors you will need to change this value in the PEX definition instead..
	Max collections This parameter indicates how many collections the monitor should contain at 1 time. As time progresses and this maximum is reached, the oldest collections are replaced as new collections are added.

☐	**Run JW active collection summary** If starting a Job Watcher monitor, this option indicates that data should be summarized as it is being collected. **Tip:** This is used for the **Active Data** menu options found under the Job Watcher component popup menu.
☐	**Run analyses automatically** If checked, the Run ALL default analyses option will be used. All default analyses will be executed for each collection after it completes. This is NOT all analyses but only a select few that are most commonly needed. **WARNING:** In some situations, this can be very resource intensive and typically should not be used on production systems.

☐	**Resubmit JW on failure** This optional parameter indicates if the Job Watcher monitor should attempt to submit a new collection if it's detected that the current collection has ended prematurely (for any reason). If this option is enabled, a new collection will be submitted up to the maximum specified by the max resubmits parameter if the current collection has stopped running. Use caution when using this option; your collection may have ended early because of disk space limits.
✎	**Max resubmits** The parameter indicates the number of times collections will be resubmitted if the previous field is enabled.
✎	**Collection overlap** This value indicates how many additional seconds the current collection will run while a new collection is starting up. The default is 30 seconds, but in some cases (busy/slow system) it may take longer than that to begin collecting data.
✎	**Description** A description given to the monitor.

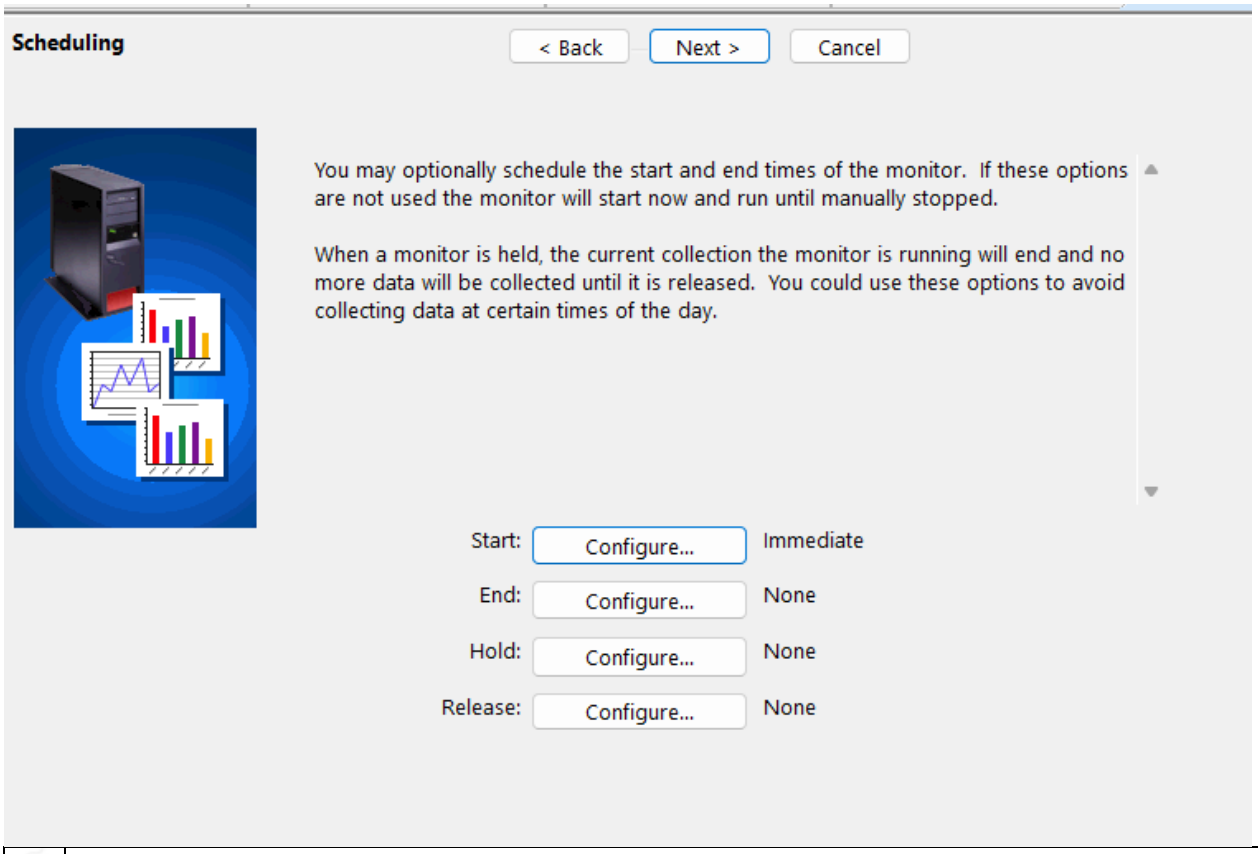
☐	**Collection types to start** The user can collect Job Watcher, Disk Watcher and/or PEX. If multiple choices are selected a different monitor job is started one for each collection type.
▾	**Definition** This list provides the definitions available on the current system to pick from of the applicable type.
OK	**Actions** **View** – Displays the Properties interface for the selected definition. **Change** – Displays the Add Definition Wizard with the selected definition's parameters filled into the interface. **New** – Displays the Add Definition Wizard in order to create a new definition. **Reload IBM-supplied definitions** – Runs a stored procedure to ensure that the IBM-supplied definitions are loaded and up to date.
▾	**ENDPEX option** The ENDPEX option is only applicable to PEX Analyzer monitors. It indicates how the collections generated by the monitor should be handled by providing 3 options: 1) **Create DB files** - The data is dumped into the PEX DB files when each collection ends 2) **Create *MGTCOL** - The PEX data is dumped into a PEX *MGTCOL object when each collection ends 3) **Suspend** - The PEX data is not dumped and the collection will move to suspended status. After the desired maximum historical collections have been created, the PEX monitor will end. At that point the data must be dumped to database files or *MGTCOL objects manually using either the ENDPEX command or the Active collections folder within PEX Analyzer.

6.4.5 Scheduling

This page allows the user to determine how to when the monitor should be started/ended, held or released.

Note: This interface does not apply to Collection Services monitors.

To run the monitor right away, click Next.

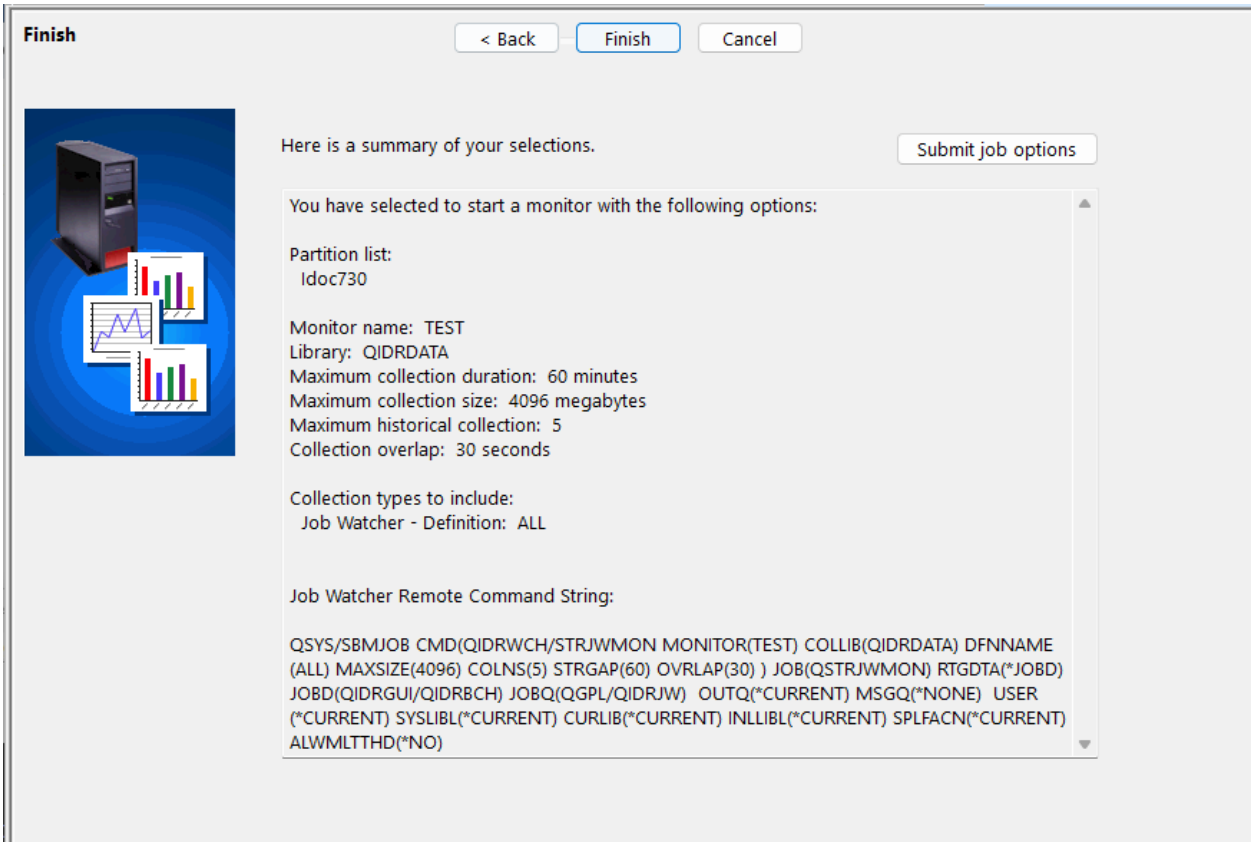


OK	**Start** Use this option to schedule the monitor to start later.
OK	**End** Use this option to schedule the monitor to end at a desired date and time.
OK	**Hold** Use this option to hold the monitor at the desired date and time.
OK	**Release** Use this option to release the monitor (assuming it's in a held state) at the desired date and time.

6.4.6 Finish

This screen provides a summary of the monitor that will be started/restart on the current system.

For your convenience the remote commands that will be executed to start the monitor(s) are listed at the bottom of this page.



OK	**Submit job options** This button allows you to change parameters on the SMBJOB command(s) used to start the monitor(s).
	Summary of selections This section lists the information provided as well as the command string that will be used to start the Monitor.

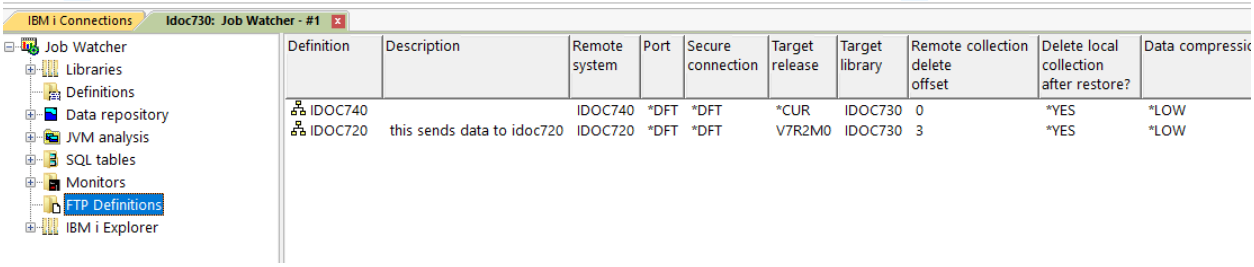
7 FTP Definitions

An FTP definition is used to send performance data to another LPAR. It is used in the monitor commands found in the QIDRWCH library.

FTP Definitions are stored in file QUSRSYS/QAIDRXDFN.

These can be created or removed using commands QIDRWCH/ADDFTPDFN and QIDRWCH/RMVFTPDFN.

The **FTP Definitions** folder shows the FTP definitions found on the current system.



7.1 Menu Options

The menu options found when right-clicking on one or more definitions in the list are:

	Edit… This option shows the interface used to modify the definition. **Tip:** You can also double-click to open this.
	Add FTP definition Use this option to create a new FTP definition.
	**Delete** This option removes the selected FTP definition(s) from the system.
	**Properties** This option displays a read-only version of the FTP Definition window.

7.2 Fields

All columns are shown by default. You can hide or rearrange columns using the Select Fields… menu

Field	Description
Definition	The name of the FTP definition. This doesn't necessarily need to match the remote system name.
Description	An optional description to give the FTP definition.
Remote system	This is the remote LPAR name or IP address where data will be sent.

Port	The FTP port to use for the transfer. (1-65535 are valid) **Note:** This is passed down to the PORT parameter on the FTP command on the IBM i. **Default:** 21, **Secure:** 990
Secure connection	See the **SECCNN** parameter on the FTP command on the IBM i.
Target release	This indicates the release of the IBM i you intend to transfer the data to.
Targe library	This is the library on the remote LPAR where data will be sent.
Remote collection delete offset	This is a positive or negative number indicating which collection to delete on the remote system in relation to the current one beyond the current system's number of collections to retain. Does not apply to Collection Services, only JW/DW/PEX. For example. if normally 5 collections are retained, make this value 3 to retain 8 instead on the remote system, or -3 to retain 2.
Delete local collection after restore?	This value indicates if the collection on the local system should be deleted after it has been successfully transferred and restored. Does not apply to Collection Services, only JW/DW/PEX. **Note:** If this is set to ***YES**, this option requires that another collection already exists in the library where data is being collected NOT matching the monitor. Otherwise, when the local collection is deleted the performance database files will be deleted as well, and future save/restores will fail on the target system saying the files where from a different version.
Data compression	Specifies whether data compression is used. If the save is running while other jobs on the system are active and software compression is used, the overall system performance may be affected.
Change timestamp	This is the time when the FTP definition was last changed.
Log output	If Y is specified, then the remote job name used to do the transfer will be saved to the local logfile (QIDRGUI/FTPLOG). This will only work if program QIDRGUI/QIDRGETJBI exists on the remote system.
Function	Should always be P. (*PUT option on QIDRGUI/FTPFILE)
User	The name of the user profile to use when doing the transfer.
App ID	Specifies the name of the application identifier to use when using Secure Sockets Layer (SSL) protection. The client application identifier must be configured in the Digital Certificate Manager (DCM) application database. ***DFT** The system supplied default client application identifier QIBM_QTMF_FTP_CLIENT is used. character-value Specify the DCM configured client application ID. The first character of the application identifier must be an uppercase character ('A' to 'Z'); the remaining characters can be alphanumeric (uppercase 'A' to 'Z' or digits '0' to '9'). You can also use a period ('.') or underscore ('_').
Pre-transfer command 8-10	These are additional commands that will be ran on the remote system **before** the transfer occurs. **Note:** commands 1-7 are reserved for iDoctor use.
Post-transfer commands 18-20	These are additional commands that will be ran on the remote system **after** the transfer occurs. **Note:** commands 11-17 are reserved for iDoctor use.

7.3 FTP Definition Window

This interface is used to create a new FTP definition or modify/view an existing one.

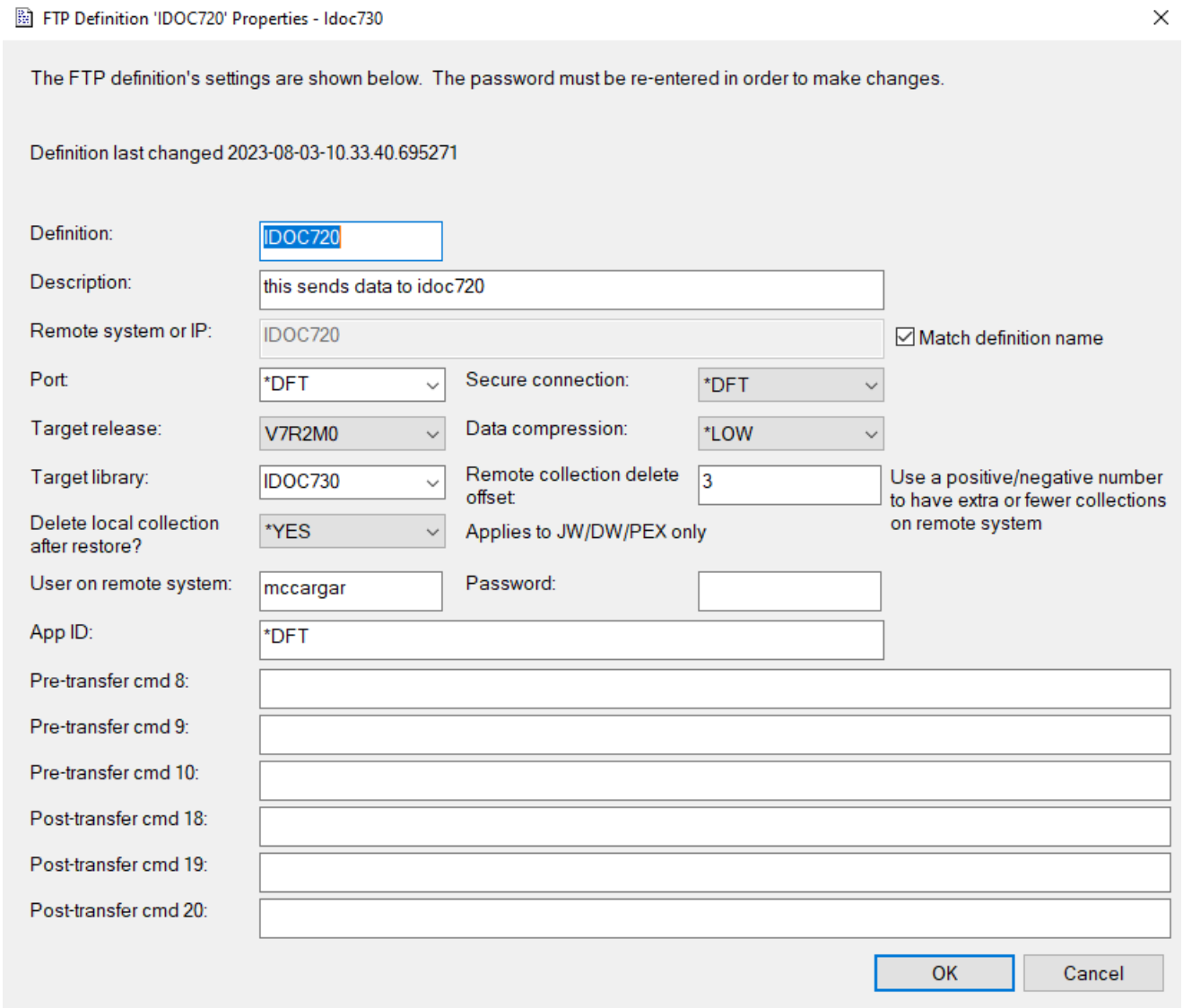
This is an interface over the QIDRWCH/ADDFTPDFN command.

Regarding delete local collection after restore option: STRPAMON/STRDWMON/STRJWMON with an FTP definition using DLTLOCAL(*YES) will only work properly if the source system has an existing collection in the library being used (not named the same as the monitor). Otherwise, when the local data is deleted after the 1st collection is transferred/restored, DLTPFRCOL will delete the perf files and the next recreated collection will be unable to be restored on the target system due to a possible bug in RSTPFRCOL.

Job log says the source and target are not at the same code level. Using RSTOBJ with ALWOBJDIF(*ALL) will copy / replace certain files which obviously won't work for this so best to avoid deleting the source collection files if you want to use DLTLOCAL(*YES). (i.e.) It won't work on a clean library with nothing in it to start with.

The password must be reentered each time changes are made using this interface.

See the previous section for more information about the data to supply on this interface.



8 Preferences

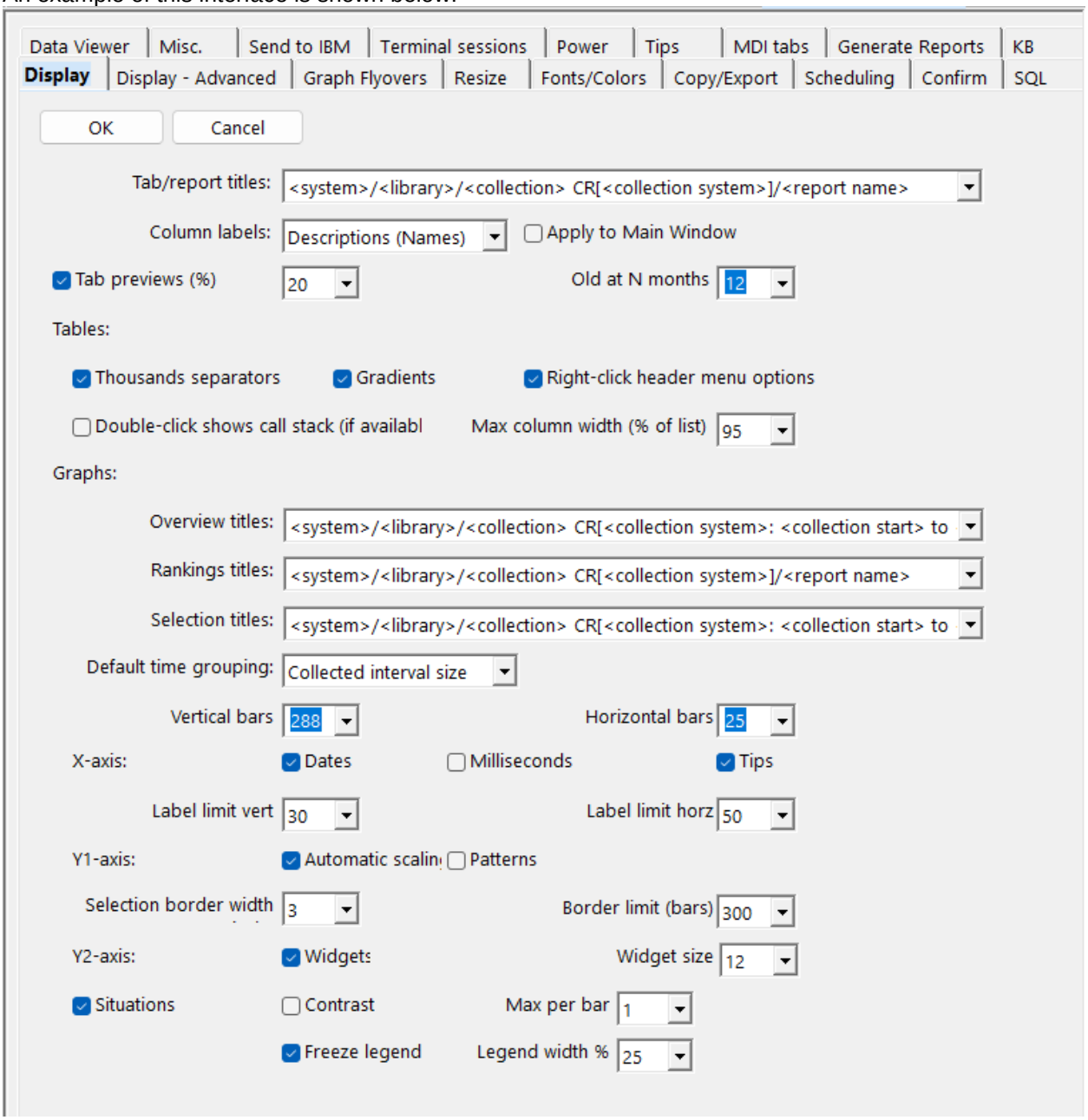
The Preferences window allows a user to work with the customizable options in the GUI. Several different categories of options are available.

The Preferences window is accessible via the Edit -> Preferences menu in the Data Viewer or from the Main Window.

8.1 Display

The Display page on the Preferences window lets the user work with options that effect the visible presentation of table or graph views in the GUI.

An example of this interface is shown below:



The options available on this page apply to either table views or graph views and each have their own section.

Titles options: Use these options to identify how the titles of iDoctor reports should be named. A different format can be used based on the type of graph or report. The dropdown list contains several different possible name formats. Other possible titles are available by modifying the value in the list and including any of the tabs listed below in <>.

<system> - The current system the data resides on
<collection system> - The name of the system the collection was created on (if known).
<library> - Library name for the collection
<library desc> - Description for the library
<collection> - Collection name
<collection start> - time the collection started (if known)
<collection end> - time the collection ended (if known)
<report name> - The report description.

▾	**Tab/report titles** This value is used to control the format for tabs shown in the GUI built for reports/graphs.
▾	**Column labels** This drop down lets the user determine if field descriptions or short (SQL generated) field names or both should be displayed in the column headings for of all table views and the graph legend. The choices are: - Names - Descriptions - Descriptions (Names) - Name – Descriptions **Note:** Field names will be displayed if the descriptions are not available within the report being viewed.
☐	**Apply to Main Window** If checked, then the column labels setting also applies to Component list views found in the Main Window if the folder contents were created using an SQL statement.

☑	**Tab previews** Mouse over a tab to show a mini screenshot of what's behind it. **Drop-down list** This is the percentage of the original screenshot to show in the tab preview.
▾	**Old at N months** This lets you decide the number of months to consider a collection as 'Old' which uess a different icon.

☑	**Thousands separators** This option will display thousands separators (as commas) for numeric fields in the table views. (i.e. 1000 will be displayed as 1,000)
☑	**Gradients** When checked, percentage gradients are drawn in table view cells.
☑	**Right-click header menu options** If checked, right-clicking columns headers in tables shows a menu with options instead of sorting the table in descending sequence.
☐	**Double-click shows call stack** In JW/PEX, when double-clicking a row in a table, the call stack will be shown if available. Otherwise, the 1st graph in the popup menu is shown (if any exist).
▾	**Max column width** This determines the maximum column width to use when resizing column widths as a percentage of the total list's width.

▾	**Overview titles** This is used to control how the title in overview graphs appear.
▾	**Rankings titles** This is used to control how the title in ranking graphs appear.
▾	**Selection titles** This is used to control how the title in selection over time graphs appear.
▾	**Default time grouping** This option controls the default time grouping to use when opening graphs that show data over time.

▾	**Vertical bars** The maximum bars per page for vertical bar graphs
▾	**Horizontal bars** The maximum bars per page for horizontal bar graphs.

☑	**Dates** If checked, then the collected interval size x-axis labels will include dates.
☑	**Milliseconds** If checked, then the collected interval size x-axis labels will include millisecond granularity.
☑	**Tips** If checked, then the X-axis labels will include tips to indicate the data behind the bar such as H for holder in Job Watcher.

▾	**Label limit vert** This is the maximum number of characters to display on X-axis labels for vertical bar graphs.
▾	**Label limit horz** This is the maximum number of characters to display on X-axis labels for horizontal bar graphs.

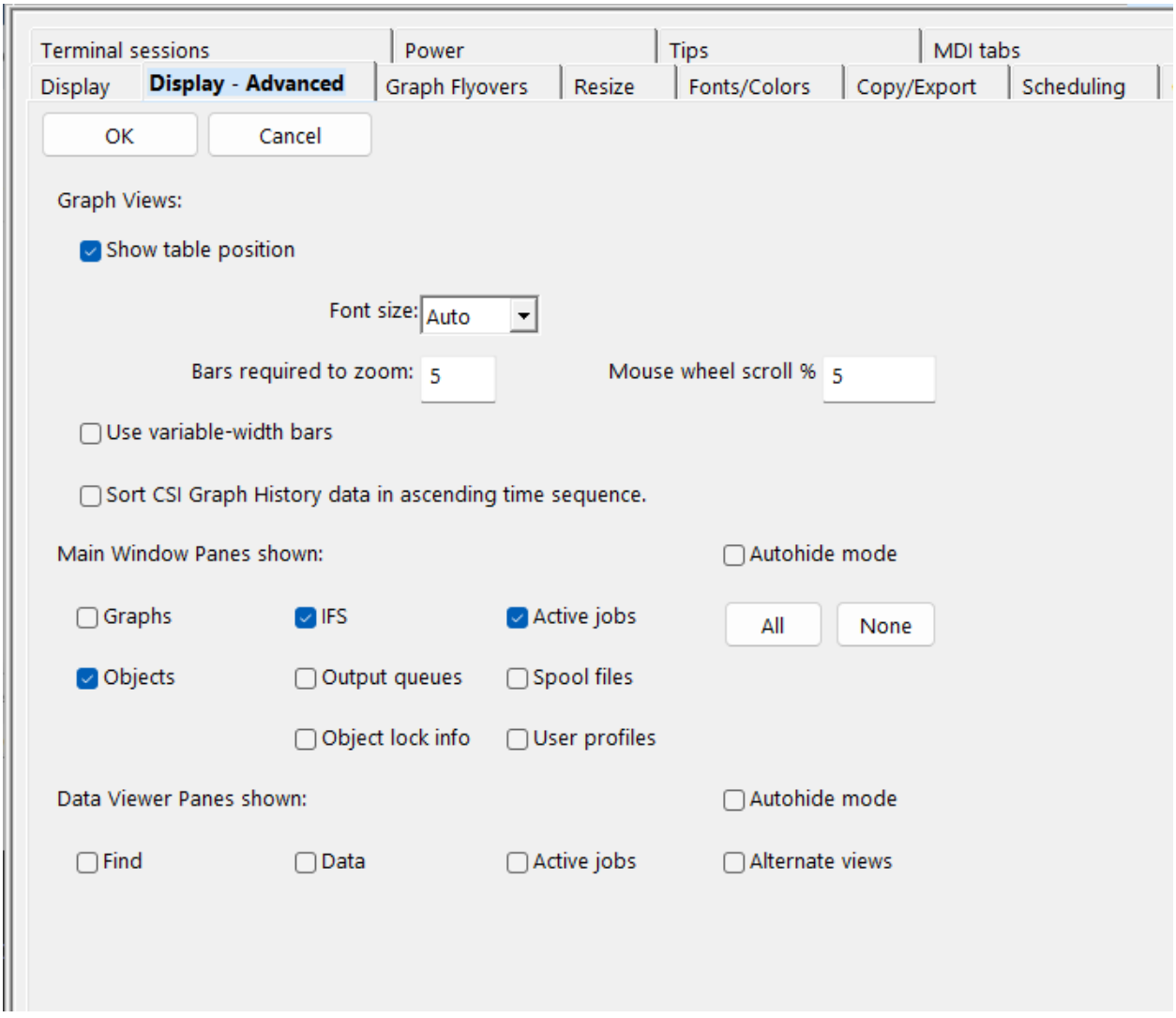
▾	**Automatic scaling** If checked the graph Y-axis scaling will be adjusted each time the graph is scrolled, and new data is loaded. If unchecked, the Y-axis scaling will be set based on the values provided in the 1st page of the graph and not changed when scrolling to other data.
☐	**Patterns** If checked, various shapes or lines will be drawn into graph bars instead of using solid colors. Helps if colorblind.
▾	**Selection border width** (2-10) This effects how selected columns in the graph legend will appear on the graph. This is the number of pixels to draw the black border for bars that are selected.
▾	**Border limit (bars)** (100+) This is the maximum bars where a black border will still be drawn around bars. Once this is exceeded, the border will disappear to avoid showing too much black on the graph.

☑	**Widgets** If checked, widgets will be displayed on graphs. Widgets are shapes (cirlces, triangles, squares, etc) that display at Y2 points on the graphs for certain fields.
▾	**Widget size** This indicates how big widgets will appear by default on graphs. This roughly equates to the number of pixels to give the widget but this will vary based on windows scaling settings. You must clear the GUI's cache or restart the GUI for changes to this value to take effect.
▾	**Situations** If checked, Situations will be displayed on graph backgrounds. Run the Collection Summary and Situtional Analysis analyses to enable.

☐	**Contrast** If checked, Situations will be displayed on the graph as the opposite of the Y1 setting for patterns. If patterns are in use, then solid background colors are used for situations.
▾	**Max per bar** The is the maximum number of situations to draw per bar.
☐	**Freeze legend** This option will prevent a user from resizing a graph's legend beyond a certain size (width) but provides the benefit of forcing the legend to remain at a certain percentage of the total graph window's size.
▾	**Legend width %** (0-50%) This is the percentage of the graph window that the legend will occupy horizontally.

8.2 Display – Advanced

This page contains less frequently used options for graphs and to determine which Panes to show by default.

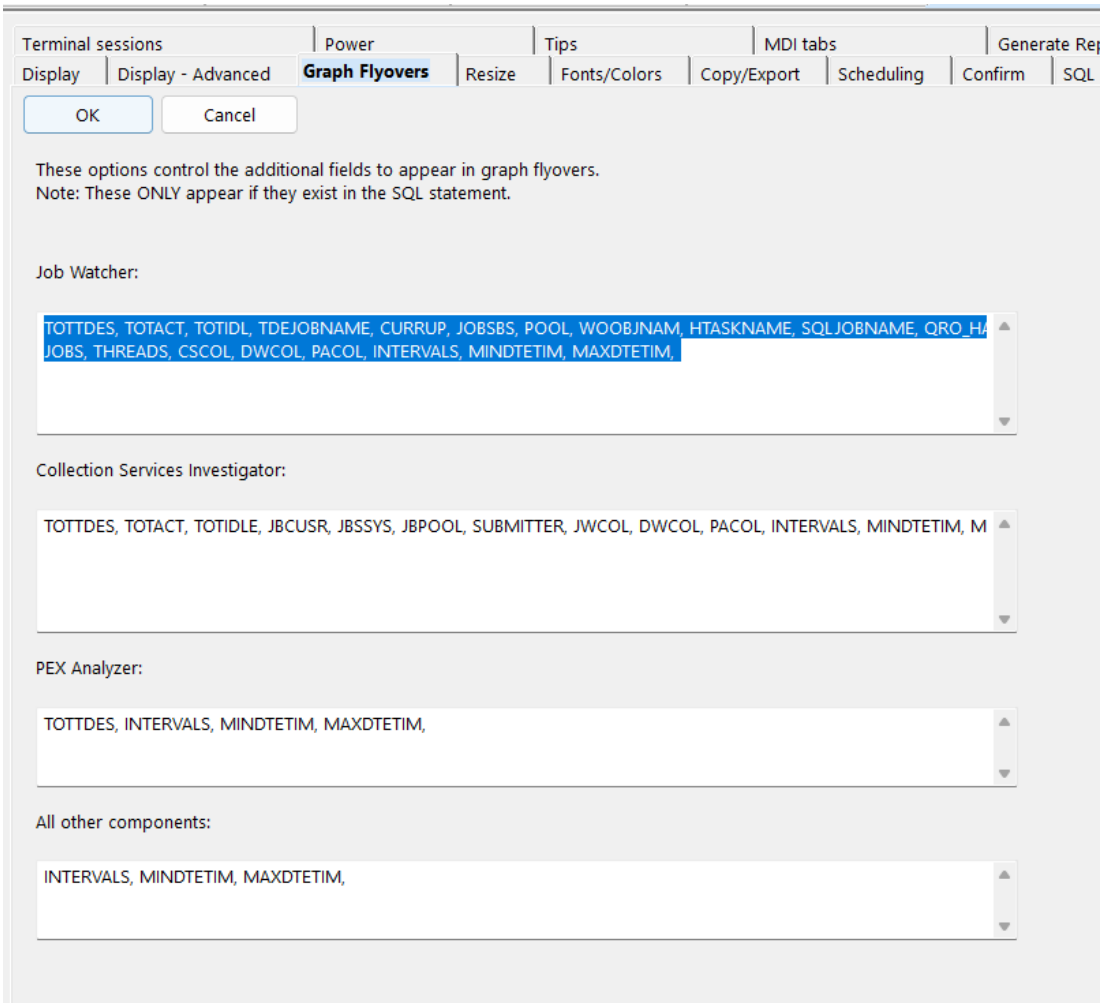


☑	**Show table position** This shows lines on the graph to indicate where the table below the graph is positioned.
▾	**Font size** Specifies the font size for the graph. Use 'Auto' to have the size automatically adjusted based on the graph window size.
✎	**Bars required to zoom** This option can be used to change how many bars are needed to perform a zoom operation. If this value is set to a small number, then it will be more likely that the user will accidentally perform a zoom.
✎	**Mouse-wheel scroll %** This value indicates what percentage of all bars in the entire data set each click of the mouse wheel will move the graph. For example, if you have 1000 bars and this value is 10, then each movement of the mouse wheel will scroll the graph 100 bars or 10% of 1000.

☐	**Use variable-width bars** If checked, then all time-based graphs that support it will be automatically opened in variable-width bar graph mode. In this mode each bar's width is based on the actual start and end times from the interval it applies to.
☐	**Sort CSI Graph History data** If checked, then CSI graph history graphs will show the oldest data first.
☐	**Main Window - Autohide mode** If checked, then the autohide pushpin in the top right corner of Main Window panes will be enabled by default.
☐	**Main Window - Graphs – User profiles checkboxes** These control which Panes are shown in the Main Window or use the All/None buttons.
☐	**Data Viewer - Autohide mode** If checked, then the autohide pushpin in the top right corner of Data Viewer panes will be enabled by default.
☐	**Data Viewer - Find – Alternate views checkboxes** These control which Panes are shown in the Data Viewer.

8.3 Graph Flyovers

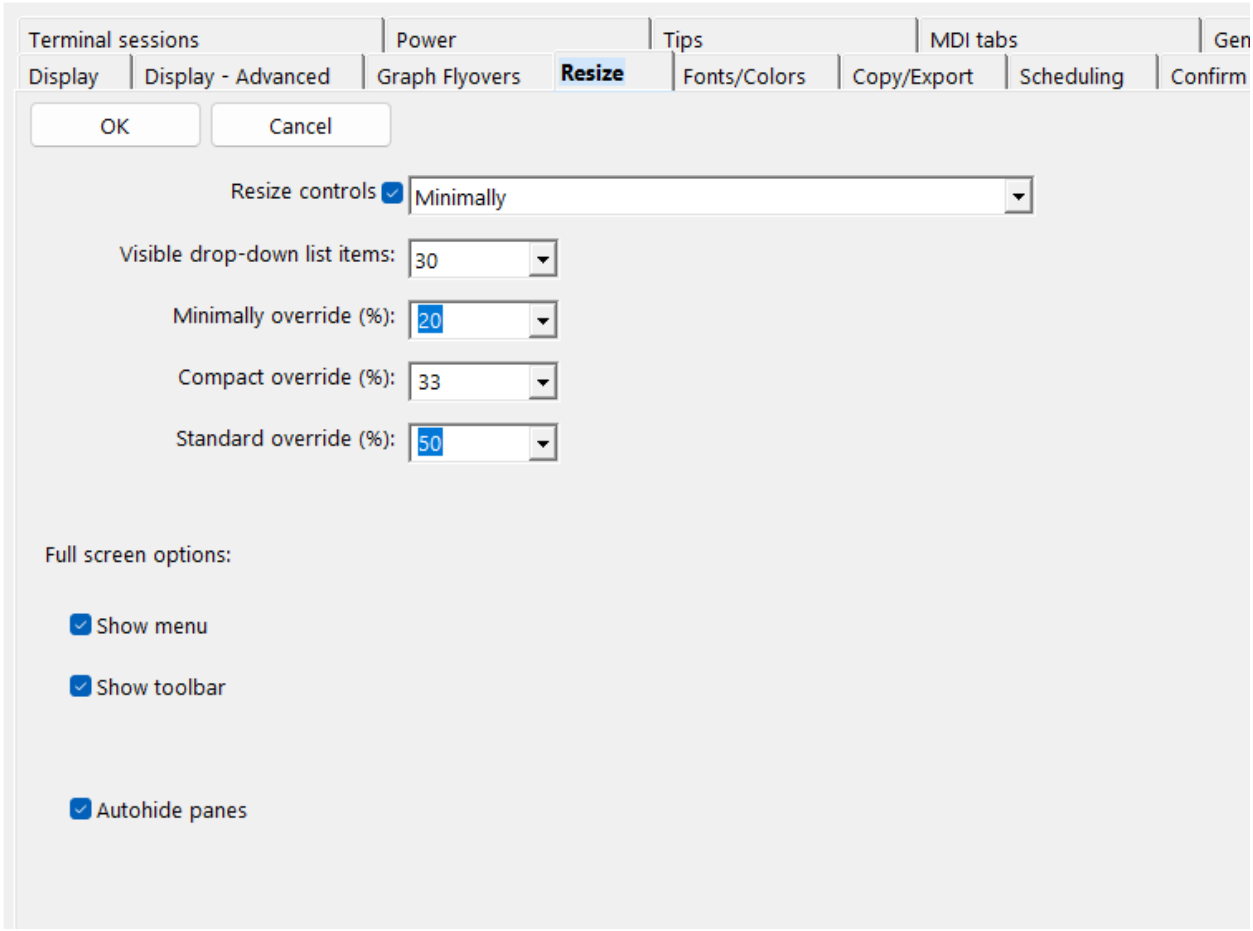
These options control which additional fields are shown in graph flyovers for Job Watcher, CSI, PEX or all other iDoctor components



Job Watcher These are the column names for flyover fields to add to Job Watcher graphs.
Collection Services Investigator These are the column names for flyover fields to add to Collection Services Investigator graphs.
PEX Analyzer These are the column names for flyover fields to add to PEX Analyzer graphs.
These are the column names for flyover fields to add to all other components.

8.4 Resize

This page controls settings relating to graph resizing as well as behaviors when using the Full screen mode.

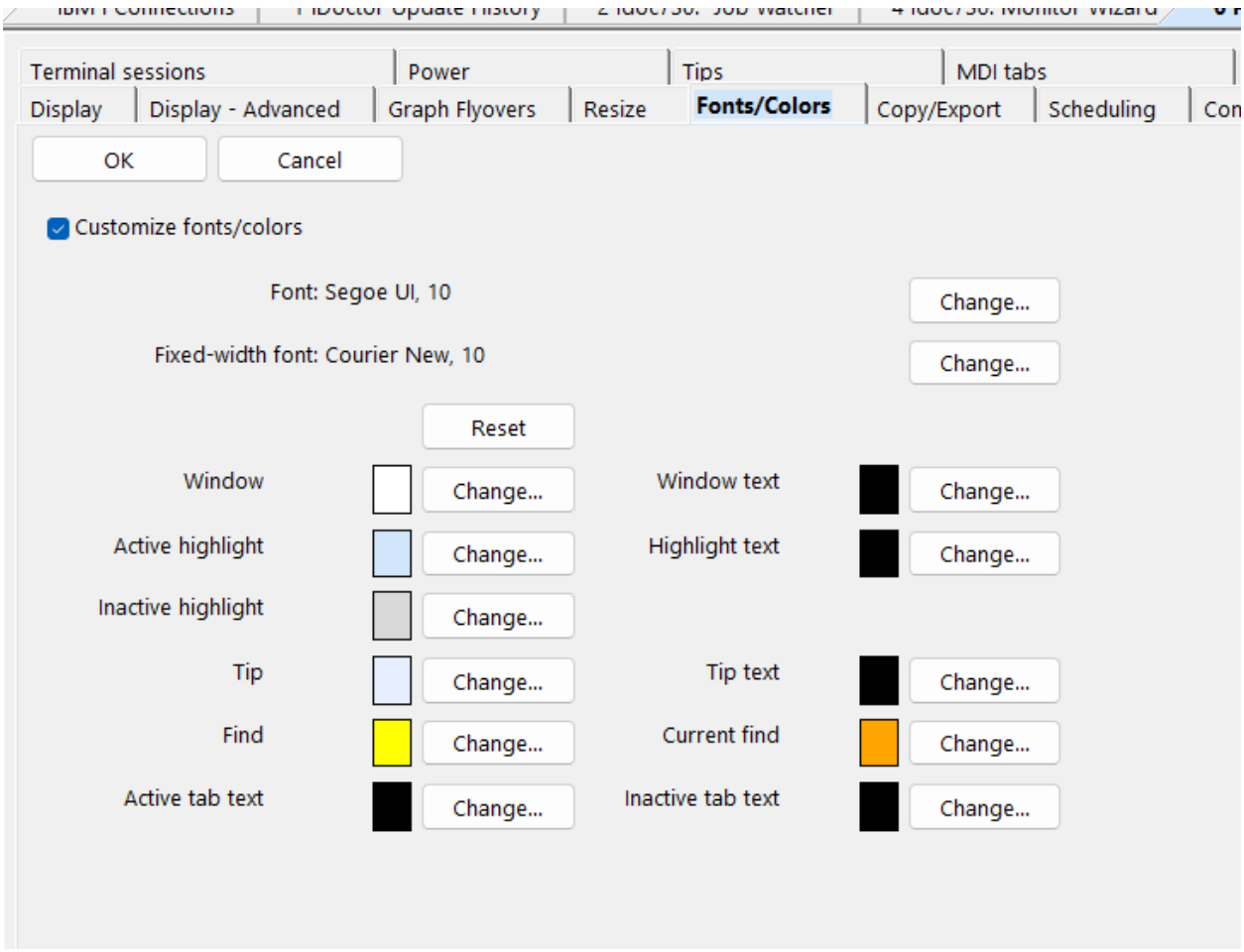


	Resize controls This enables/disables automatic resizing of interfaces in the GUI. **Drop-down list** This controls how much of the resizable area the resized controls should consume. Minimally requires a font size of 12 or less. Compact requires 14 or less. Standard requires 16 or less.
	Visible drop-down list items This option controls how many items should appear in a combo box when the list is opened.
	Override % Use this to customize the percentage of the desktop controls will use when resizing. A smaller value makes controls appear closer together, a larger value uses more space to handle larger fonts better.

	Full screen options (use F11 to activate) **Show menu / toolbar** Uncheck this to have the menu / toolbar hidden while using Full screen mode. **Autohide panes** Uncheck this to leave panes alone while using Full screen mode.

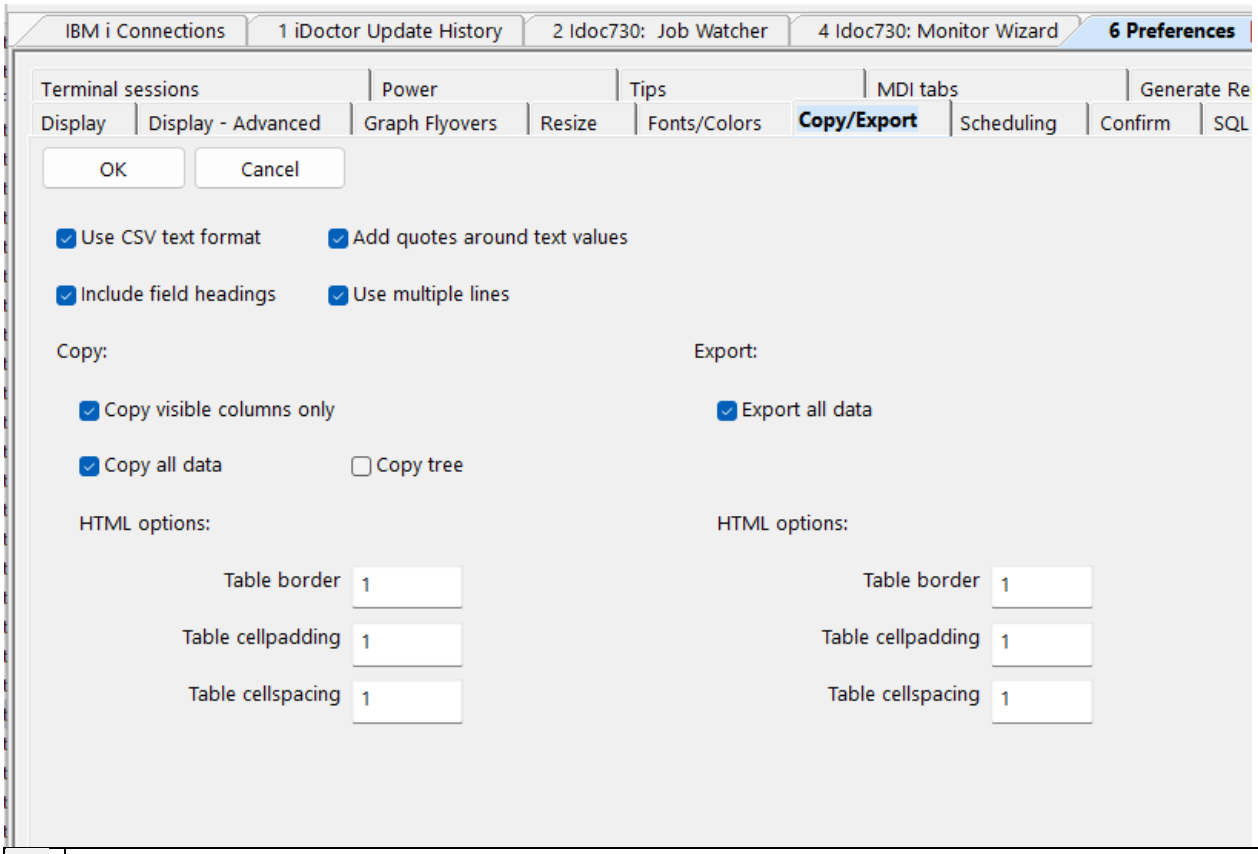
8.5 Fonts/Colors

This screen allows customization of the font used in the GUI as well as color options for various types of UI.



8.6 Copy/Export

This screen contains settings relating to Copy to Clipboard and Export functions in the GUI.



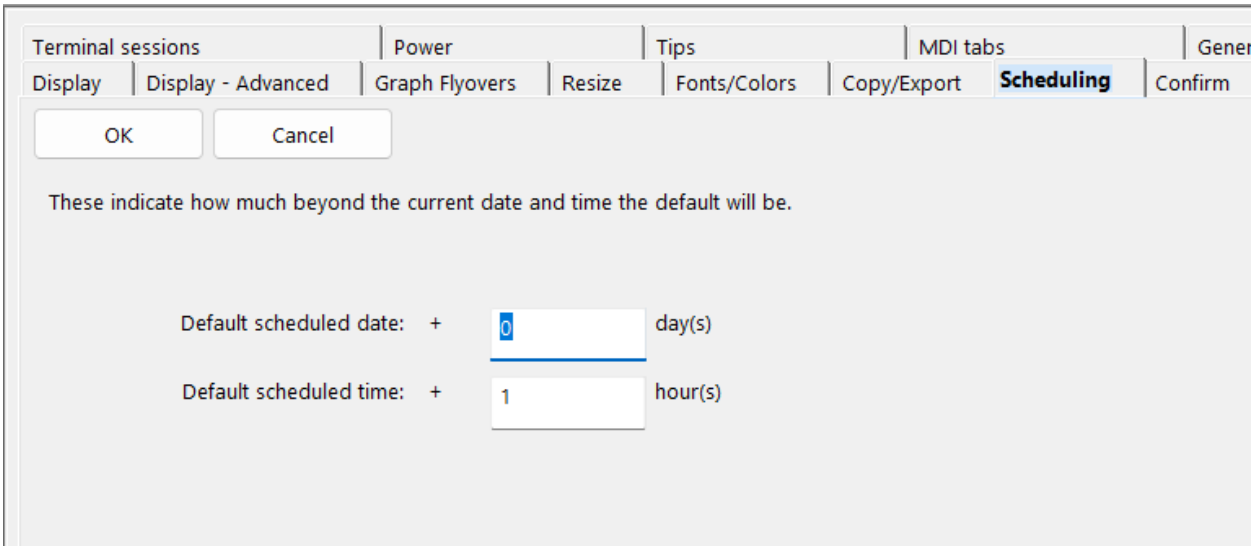
☐	**Use CSV text format** If checked, then CSV and HTML formats will be used when copying data when using the CTRL+C or Copy Selection menu options. Note: The Copy Window option always uses TSV format (tab-separated) and HTML format.
☐	**Add quotes around text values** If checked, then each value will contain single quotes (') around them for columns that are not numeric when using Copy or Export functions.
☑	**Include field headings** If checked, then field names and/or descriptions will be included in the first line data when using Copy or Export functions. The type of heading data included will match the current table's heading.
☐	**Use multiple lines** If checked, then multiple lines are created for headers (if needed), when copying/exporting text format data. This only applies to tables built using SQL.

☑	**Copy visible columns only** If checked, then only visible columns are included when copying data. Note: When pasting into Outlook or Word having too many columns will cause unusable results.
☐	**Copy all data** If checked, then all rows are included up to a max of 100K rows, when using the Copy Window function. This could potentially cause long delays and extra trips to the server to get more data.
☐	**Copy tree** If checked, the Copy Window function for component views will include the visible tree data.
✎	**HTML options** When copying table data to HTML format, this defines attributes used on the <TABLE> tag.

	Export all data If checked, then all rows are included up to a max of 100K rows, when using the Export function. This would cause long delays and extra trips to the server to get more data.
	HTML options When exporting table data to HTML format, this defines attributes used on the <TABLE> tag.

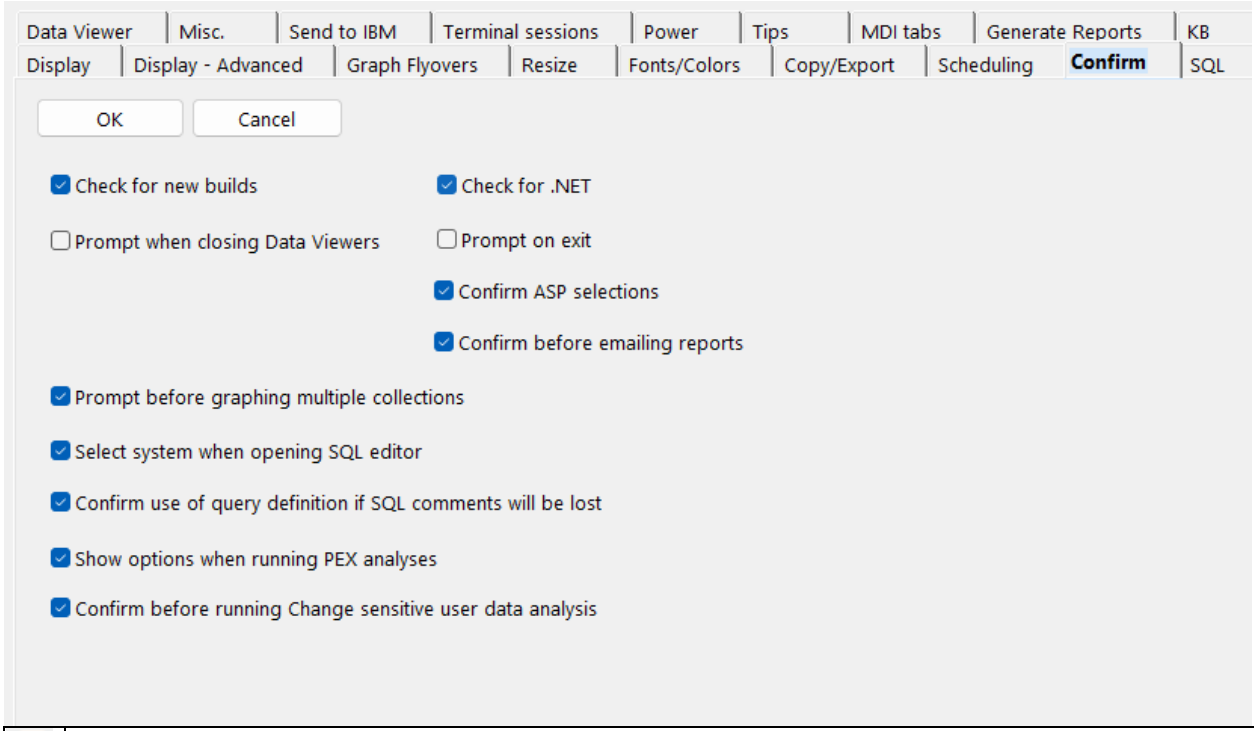
8.7 Scheduling

The scheduling page allows you to define the default start time when scheduling collections in iDoctor. The default is 1 hour from the current date and time.



8.8 Confirm

This page contains a set of preferences to control whether you are prompted for confirmation before performing various actions in the GUI.



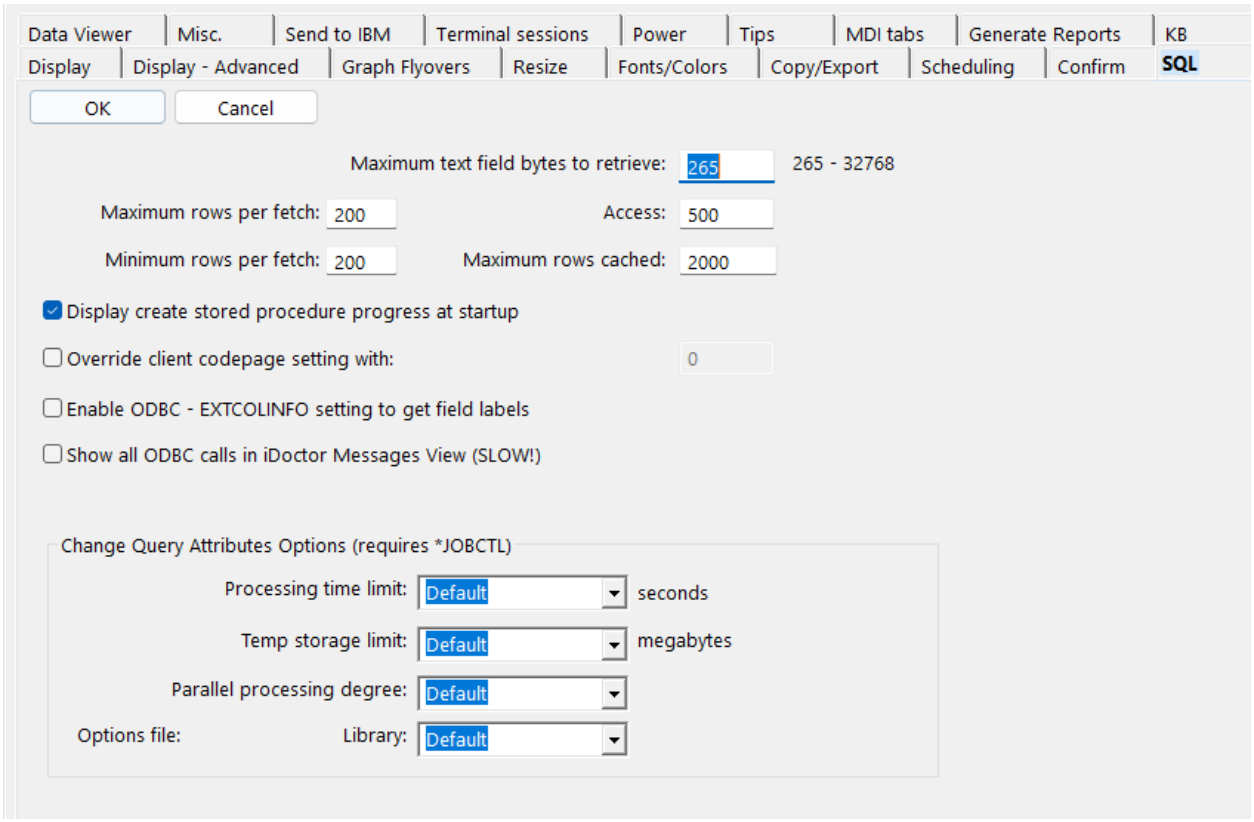
☑	**Check for new builds** If checked, the GUI will attempt to reach the iDoctor website to determine if new builds are available. If this program is prevented from accessing the internet, then this check will fail. Note: The GUI will also attempt to check if new required PTFs are available regardless of this setting and warn you if PTFs are missing when starting collections.
☑	**Check for .NET** This option will check for the required level of .NET when starting the GUI. If not found, then you will be prompted to install it.
☑	**Prompt when closing Data Viewers** Indicates if the user should be warned before closing a Data Viewer. If unchecked and a Data Viewer is closed all views within it are shut down without confirmation.
☑	**Prompt on exit** Indicates if the user should be warned before closing the iDoctor application. If unchecked and the application is ended (close main window or Use File ->Exit menu) then all Data Viewers and views within them are shut down without confirmation.

☑	**Confirm ASP selections** If checked, you will be prompted to select an ASP when opening disk graphs in CSI and Disk Watcher when the collection has data from multiple ASPs. This action will filter the data by the desired ASP(s).
☑	**Confirm before emailing reports** If checked, you will be prompted before using the Generate Reports function if the Email reports to checkbox is enabled.
☑	**Prompt before graphing multiple collections** If checked, you will be prompted before graphing multiple collections.
☑	**Select system when opening SQL Editor** When opening a new **SQL Editor**, the default action is to prompt the user for the desired system to open the editor for. By unchecking this option the system will default to whichever system the user is currently working with.

☑	**Confirm use of query definition if SQL comments will be lost** If checked, you will be prompted when opening the query definition interface if the SQL statement contains comments. All comments will be lost when using this interface. Use the SQL editor instead if you need to preserve these or require full SQL functionality.
☑	**Show options when running PEX analyses** If checked, you will be prompted when running most of the PEX Analyzer trace analyses to specify a desired time range to filter by.
☑	**Confirm before running Change sensitive user data analysis** If checked, you will be prompted before running the Change sensitive user data analysis in Job Watcher or Collection Services Investigator.

8.9 SQL

This page contains a set of preferences related to the ODBC driver, SQL statement processing, field and row limits and CHGQRYA defaults on the IBM i to use.



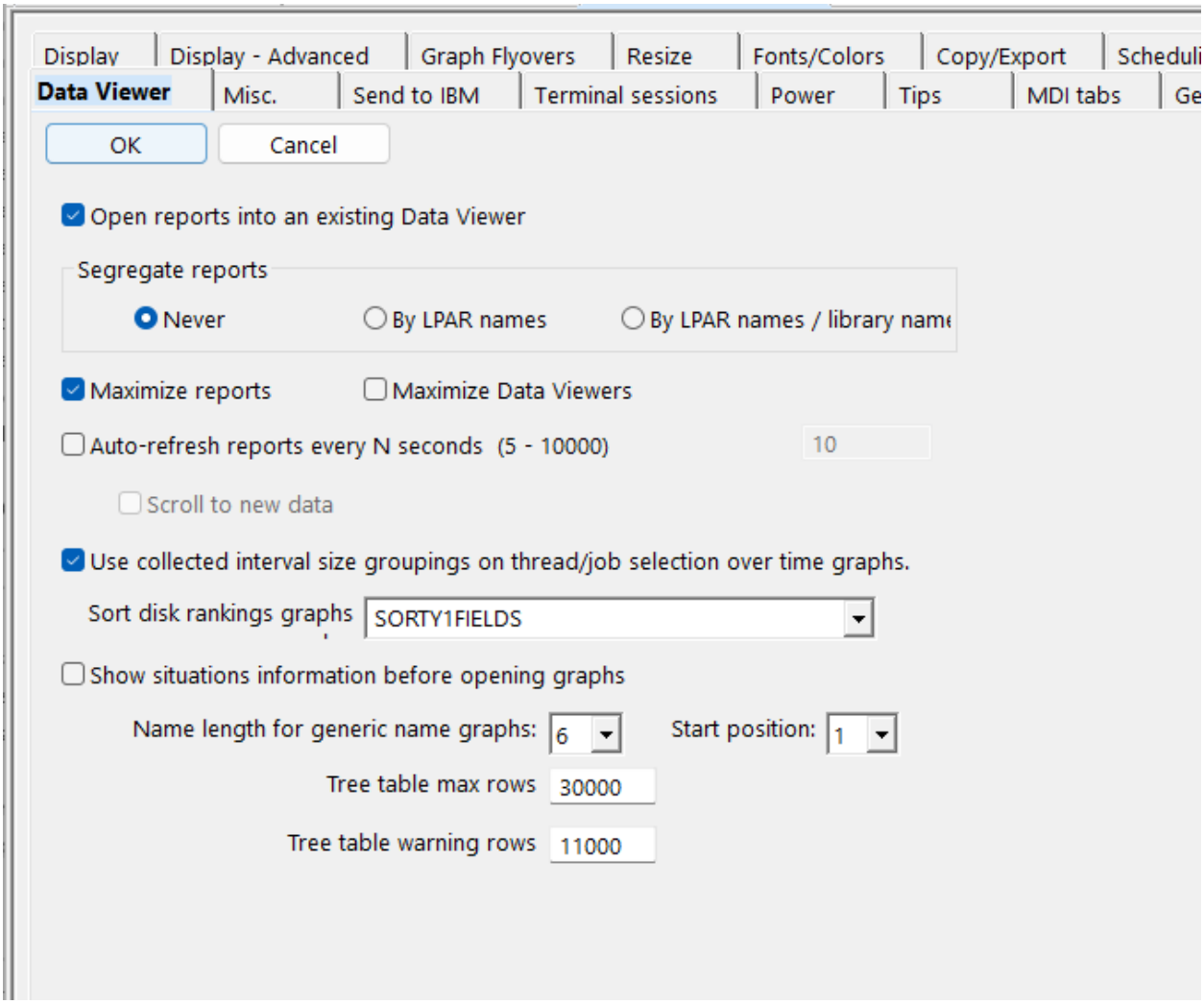
	**Maximum text field bytes to retrieve** This value represents the maximum number of bytes to retrieve for any text field in an SQL statement (32K max). Keep in mind that specifying a very large number for this value can result in more fetches being required and slower responses from the GUI. Note: This value * max row set size preference cannot exceed 512K bytes. **Note:** It certain functions, this limit is exceeded automatically for usability reasons. In other functions like viewing data within a table, data will be **truncated** when this limit is exceeded. In table views a **blue column heading** indicates that the data in that column has been truncated.
	**Maximum rows per fetch** This value is the maximum number of rows to load per ODBC fetch. This is also used to indicate how many rows are skipped/jumped when using the Previous Row Set or Next Row Set buttons on the toolbar to navigate through data. **Note:** This value * max text field bytes preference cannot exceed 512K bytes. **Note:** Due to problems in the ACS ODBC driver this value should not exceed **200**
	**Minimum rows per fetch** This value is the minimum number of rows to load per ODBC fetch. It should generally match the same value as maximum rows per fetch and different settings has not been well tested.
	**Maximum rows cached** When scrolling tables, indicates how many rows of data to save in memory before the cache is cleared (per table.) If the Find Pane is visible, then no limit applies.

	**Display create stored procedure progress at startup** Indicates if the user should be able to view the progress of stored procedures being created when connecting to a system.
	**Override client codepage setting with** In some DBCS environments it may be necessary to change this value to 1252 (Windows English code page). GUI must be restarted.
	**Enable ODBC – EXTCOLINFO setting** Uncheck this option to improve performance when running queries but this will mean some reports, especially if opening tables under server-side output files, will not show field descriptions for some fields.
	**Show all ODBC calls** This includes all ODBC API calls in Messages View. This results in worse performance.
	**CHGQRYA options** Each QZDASOINIT job that iDoctor starts will run command CHGQRYA with any options specified that are not the defaults. This requires *JOBCTL authority.

8.10 Data Viewer

The Data Viewer tab in the Preferences window lets the user work with options only related to the Data Viewer window within iDoctor.

An example of this interface is shown below:



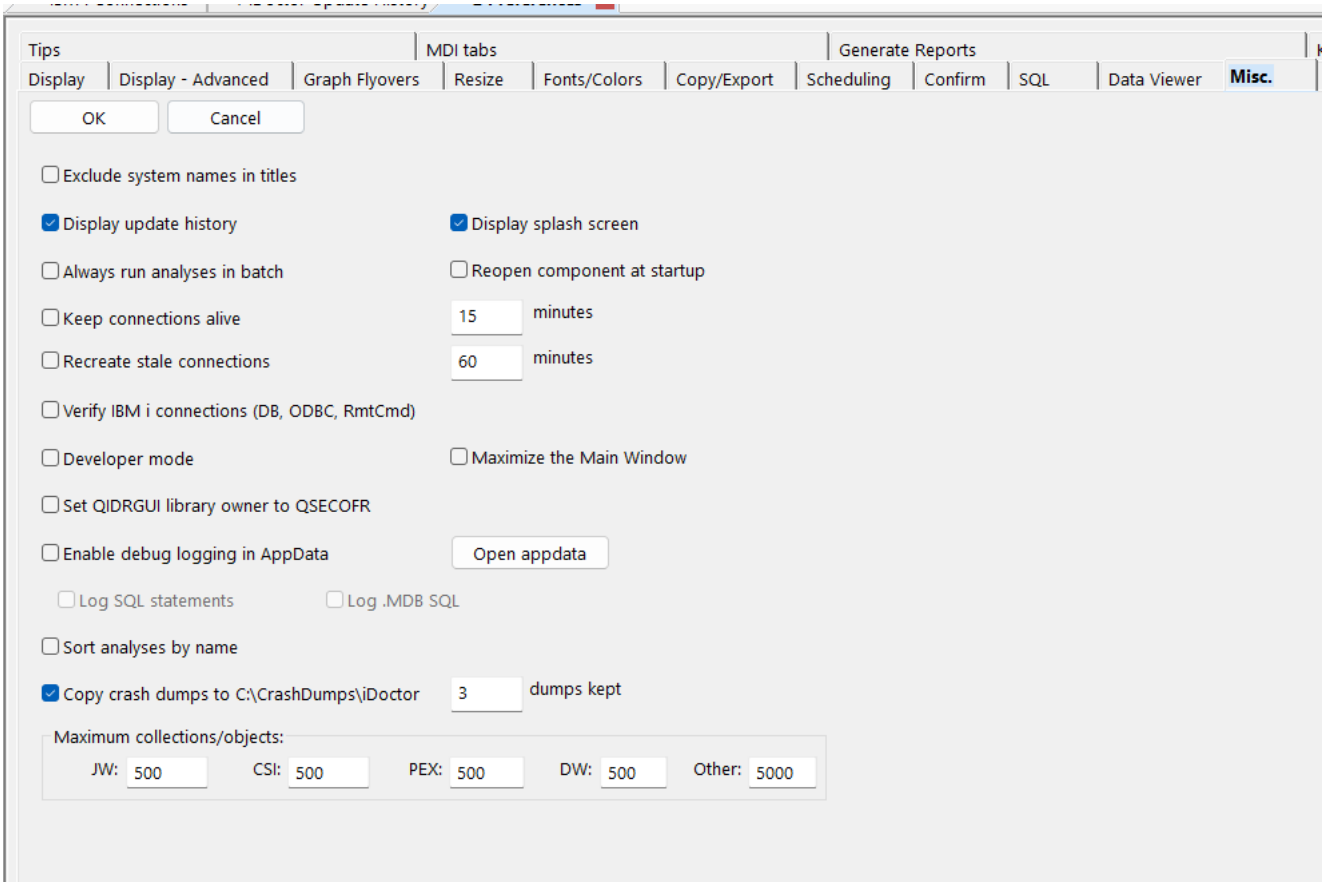
☑	**Open new reports into an existing Data Viewer** If checked and opening iDoctor tables/graphs, an existing Data Viewer will be used if one is available.
◉	**Segregate reports** 3 options are provided to control which Data Viewer a newly opened report will go into (if not otherwise specified): - **Never** - Use this option if you do not wish to group your reports by LPAR names. - **By LPAR names** - Use this option if you wish to group your reports by LPAR names. Two LPAR names will be shown in this format [current system / collected on system]. - **By LPAR names / library name** - Use this option if you wish to group your reports by LPAR name and library name. Two LPAR names will be shown in this format [current system / collected on system]. The library name on the current system where the data resides will also be shown.
☑	**Maximize reports** When checked every view opened into a Data Viewer is maximized. **Tip:** This only applies if the MDI tabbed style is set to None.
☑	**Maximize Data Viewers** This option indicates if Data Viewers should be automatically maximized when they are opened.
☑	**Auto refresh reports every N seconds** This lets the user specify how often to auto refresh reports in the Data Viewer that are over currently active collections. **Note:** only the report with the current mouse pointer focus will get refreshed every N seconds.
☑	**Scroll to new data** This indicates that after an auto refresh occurs the scrollbar should be adjusted to scroll to the end of the table or graph. This can be useful if new data is consistently being added to the end of the report.

☑	**Use collected interval size groupings on thread/job selection over time graphs.** Normally the overtime graphs will honor the default time range size preference. However, if this option is checked, when opening a graph showing a single job/thread over time, the time range will always be set to the collected interval size. This option is checked by default.
▼	**Sort disk rankings by** This option controls how disk graphs are sorted in CSI, PEX and Disk Watcher. **Tip:** The SORTY!FIELDS special value indicates that the sort order is the summation of all Y1 fields in descending sequence.

☑	**Show situations information before opening graphs** This indicates if the Situations found in a collection are displayed in the graph background as a graph is loaded in both CSI and JW.
▼	**Name length** This option can be used to indicate how many characters of the name to use for the generic name graphs shown in iDoctor and also the start position within the name to use. This option can apply to job names, disk resource names, etc. **Start position** This value indicates the starting character within the generic name (typically 1.) For example: If you have names that commonly end in a certain set of characters starting at position 4 you may want to change this setting.
✎	**Tree table max rows** This is the maximum allowed rows for tree tables. Beyond that the tree table report can't be created.
✎	**Tree table warning rows** This is the limit for tree table reports where a warning is shown if exceeded.

8.11 Misc.

This page contains a set of preferences to control some miscellaneous features.



☐	**Exclude system names in titles** This option is used to remove system names from the window titles shown in iDoctor.
☑	**Display update history** Indicates if the iDoctor Update History screen should be shown when starting the iDoctor client. This panel lists the most recent changes made to iDoctor.
☑	**Display splash screen** Indicates if the iDoctor splash screen with copyright notice is shown when iDoctor is started.

☐	**Always run analyses in batch** This option will cause the Analyses -> Run Analysis XYZ menu options to always run the analysis in a batch job instead of the Remote SQL Statement Status View. If you are working with large collections this may be preferred.
☐	**Reopen component at startup** If checked, the splash and update history screens are skipped when starting and the last used component/system is reopened using the Filter pane search function.

☑	**Keep connections alive** If checked, then all IBM i QZRC* and QZDA* connections will issue commands to keep them active every N mins (where N is specified in the text box next to this option.) NOTE: If this is NOT checked, and the QZDA* connection is older than the number of minutes specified when a fetch is attempted, the SQL statement will be reran instead to avoid a potential hang.
☐	**Recreate stale connections** If checked, then QZRC* and QZDA* connections will be automatically destroyed and recreated after N minutes of inactivity without trying to disconnect them first (which would hang). This is useful on systems where CHGTCPA is set to too high and the socket connections within the jobs are timing out. The minimum value allowed is 30 minutes.
☐	**Verify IBM i connections** If checked, then when making IBM i connections, extra checks are made to ensure that Database, ODBC and Remote Command host servers are ready for use. Enabling this option is better for error handling to tell you if a system is not setup properly but this will slow you down a bit.

☐	**Developer mode** Check this option to enable features useful to iDoctor developers or to modify the reports shown in iDoctor using the MS Access .mdb files.
☐	**Maximize the Main Window** Check this option if you wish to have the Main Window maximized at iDoctor startup.
☐	**Set QIDRGUI library owner to QSECOFR** In some environments, this may be necessary to avoid problems when trying to analyze nmon data.
☐	**Enable debug logging in AppData** If checked, this will create a log file in the user's AppData environment variable under the \\IBM\\iDoctor subdirectory. An iDrDebug*.log is created each time the GUI runs to help aid debugging issues. **Log SQL Statements** If checked, all SQL statements (except for internal ones to local iDoctor databases) will be captured. Use caution when using this option because running multiple graphs/queries at the same time could crash the GUI. **Log MDB SQL** If checked and logging SQL statements, then even the SQL statements used by iDoctor to local databases (such as iDocJW.mdb) will be logged.

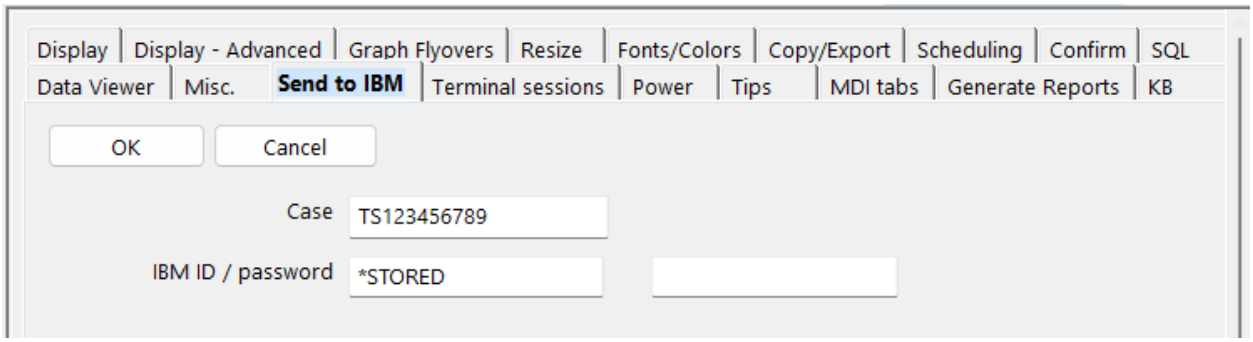
☐	**Sort analyses by name** If checked then analyses listed in the Analyses menu will be sorted by analysis name instead of popularity.
☑	**Copy crash dumps to C:\CrashDumps\iDoctor** If checked then any iDoctor crash dumps found on the PC will be copied to C:\\CrashDumps\\iDoctor. This occurs at the next startup after a crash previously occurred. Specify how many dumps to keep in the textbox.
✎	**Maximum collections/objects** These options are used to control how many collections are returned when displaying a list of collections in a library or other type of containing folder. This is most useful in cases where you have performance delays building lists of collections and only need to see the top N collections. **Note:** With the redesigned collections database, the maximum collections any library can display is now 500.

8.12 Send to IBM

This page contains a set of preferences to control how data will be sent to IBM. These settings apply to the Transfer to IBM functions.

Tip: In order for the Use QMGTOOLS FTP2IBMCMD *IBMSDDUU option to be successful, your password must have been previously set on the IBM I using the GO MG menu option 25 (STORFTPPWD

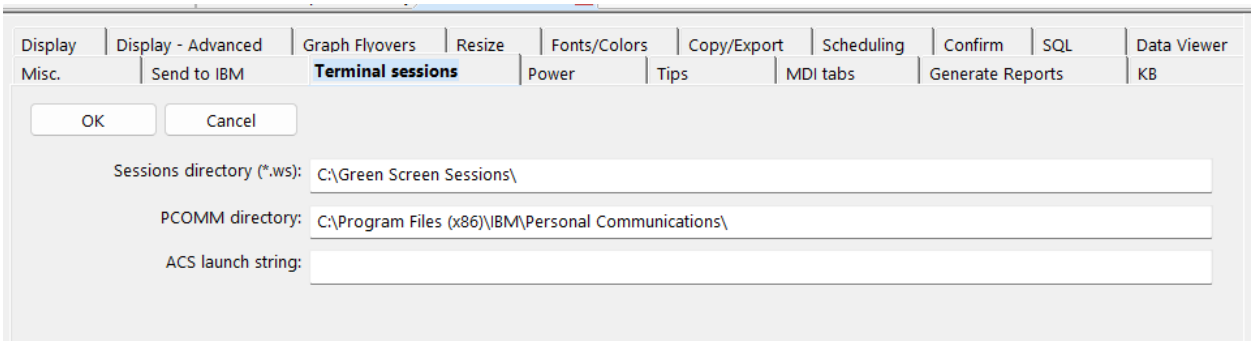
command.) Afterwards, within this interface the IBM ID/password fields should be set to ***STORED** and blank



	Case This should contain the desired case number. This value will be prefilled on the Transfer Data window.
	IBM ID/password If using QMGTOOLS/FTP2IBMCMD to send data to IBM, the IBM ID value should be ***STORED** and password should be blank. If not using QMGTOOLS, then these values are used to make the connection to IBM using QIDRGUI/FTPFILE command.

8.13 Terminal Sessions

This tab contains a set of preferences related to IBM Personal Communications (PCOMM) as well as IBM i Access Client Solutions terminal (green screen) sessions.

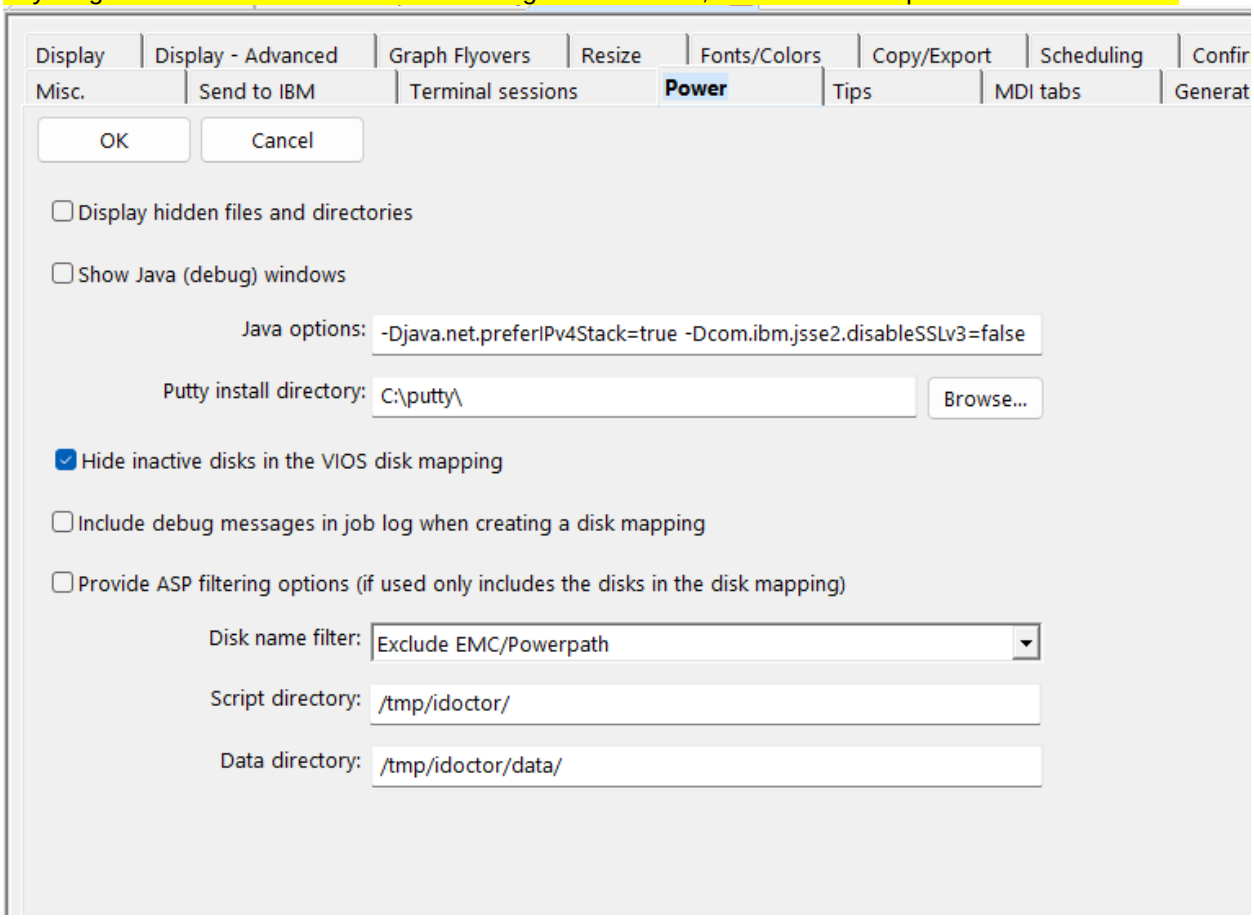


	Sessions directory This is the location where .ws files are stored that iDoctor should utilize.
	PCOMM directory This is the directory where IBM Personal Communications is installed.
	ACS launch string This is a copy of the ACS launch string used when starting green screen sessions. It is stored in the Windows registry but listed here to your awareness. Be careful with changing this value.

8.14 Power

The Power page on the Preferences window lets the user work with options that only apply to non IBM i systems (HMC or VIOS.)

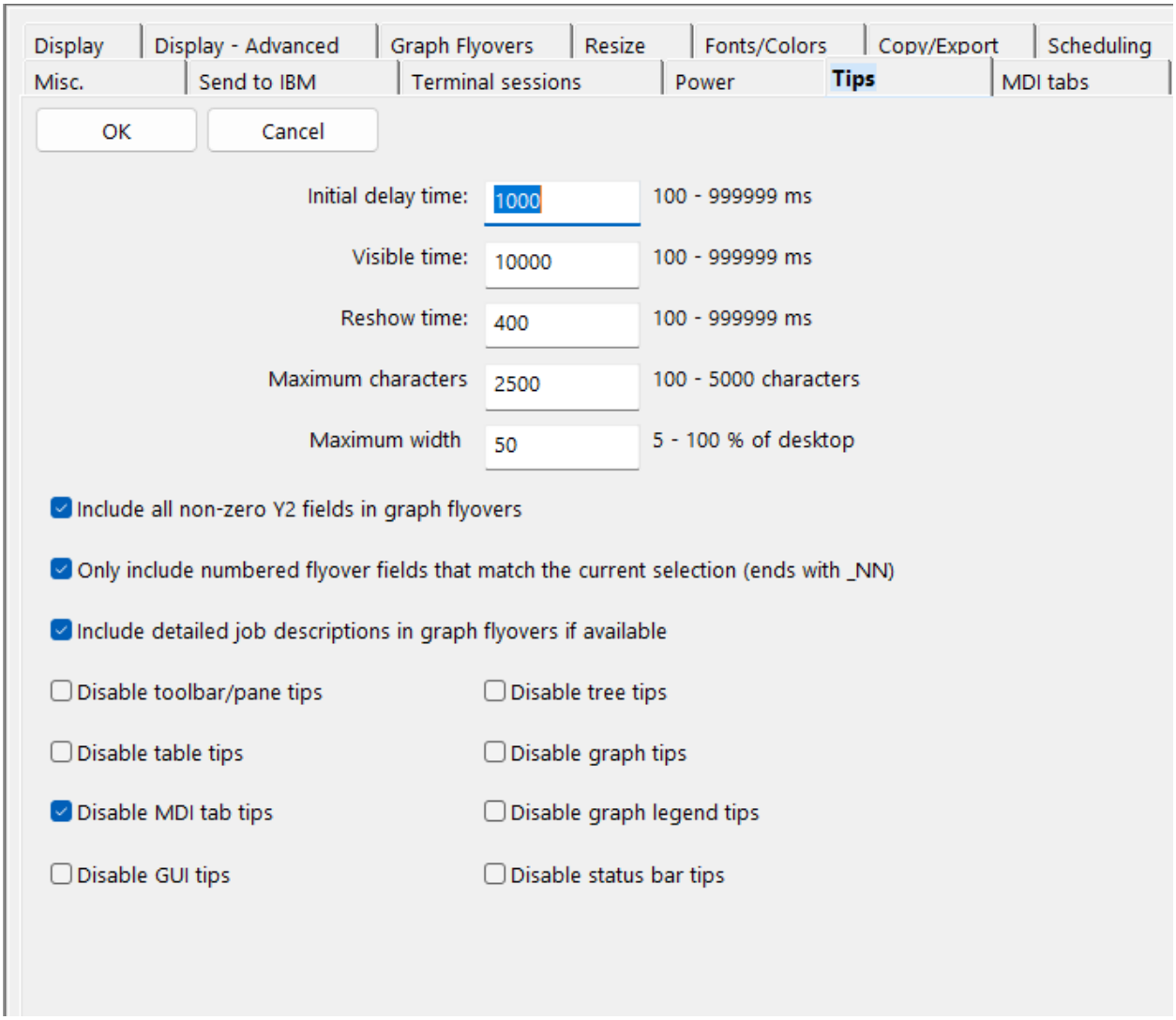
Since the Power Connections function has been removed, these options mostly no longer apply to anything but still listed here for the time being. In the future, some of these options will be removed.



8.15 Tips

The Tips tab lets the user work with preferences related to tooltips that appear in dialogs, wizards and property pages.

Note: Tables and lists use tracking tooltips by design that are shown immediately when needed and these settings do not apply to them.

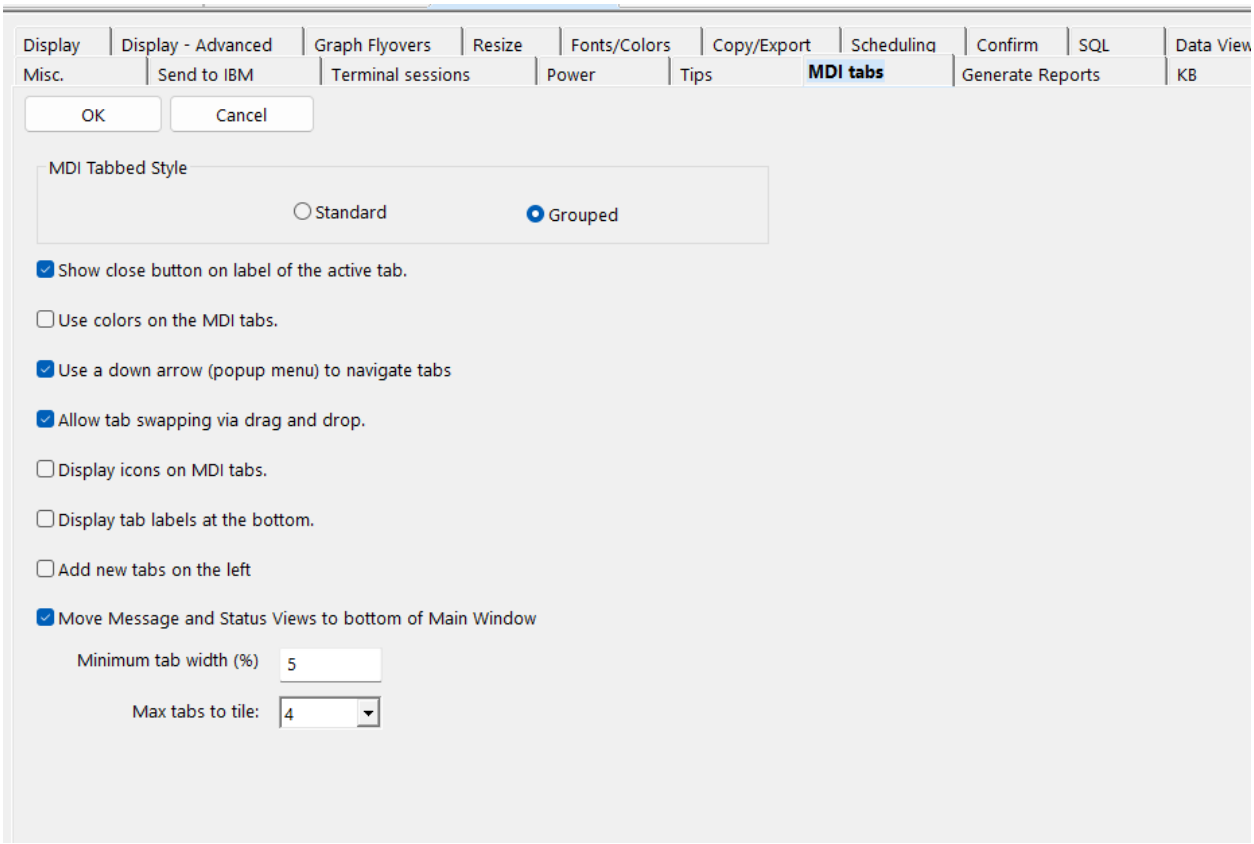


	Initial delay time The amount of time (in milliseconds) the mouse pointer must remain stationary before showing a tooltip/flyover in a window for the first time.
	Visible time The amount of time (in milliseconds) the tooltip window will remain visible if the mouse pointer remains stationary.
	Reshow time The amount of delay time (in milliseconds) before showing subsequent tooltips.
	Maximum characters This is the maximum number of characters that should be displayed in an iDoctor tooltip.
	Maximum width Maximum number of pixels wide for tooltips.

☑	**Include all non-zero Y2 fields in graph flyovers** If checked, when viewing graph tooltips, then all Y2 fields (that are > 0) will be displayed. Otherwise only the Y2 field that has current focus will be shown in the tooltip/flyover.
☑	**Only include numbered flyover fields that match the current selection** Include only numbered flyover fields (fields that are named XYZ_01, XYZ_02, etc) that match the current selection in graph flyovers. i.e. If enabled and field ABC_02 is selected, then XYZ_02 is shown and not XYZ_03.
☑	**Include detailed job descriptions…** This controls whether details about the job name is included in tooltips in Job rankings graphs.
☐	**Disable tips options** These options allow the user to customize if tooltips should be disabled for different parts of the GUI.

8.16 MDI Tabs

The MDI Tabs page on the Preferences window lets the user work with preferences related to the MDI Tabs style interface.



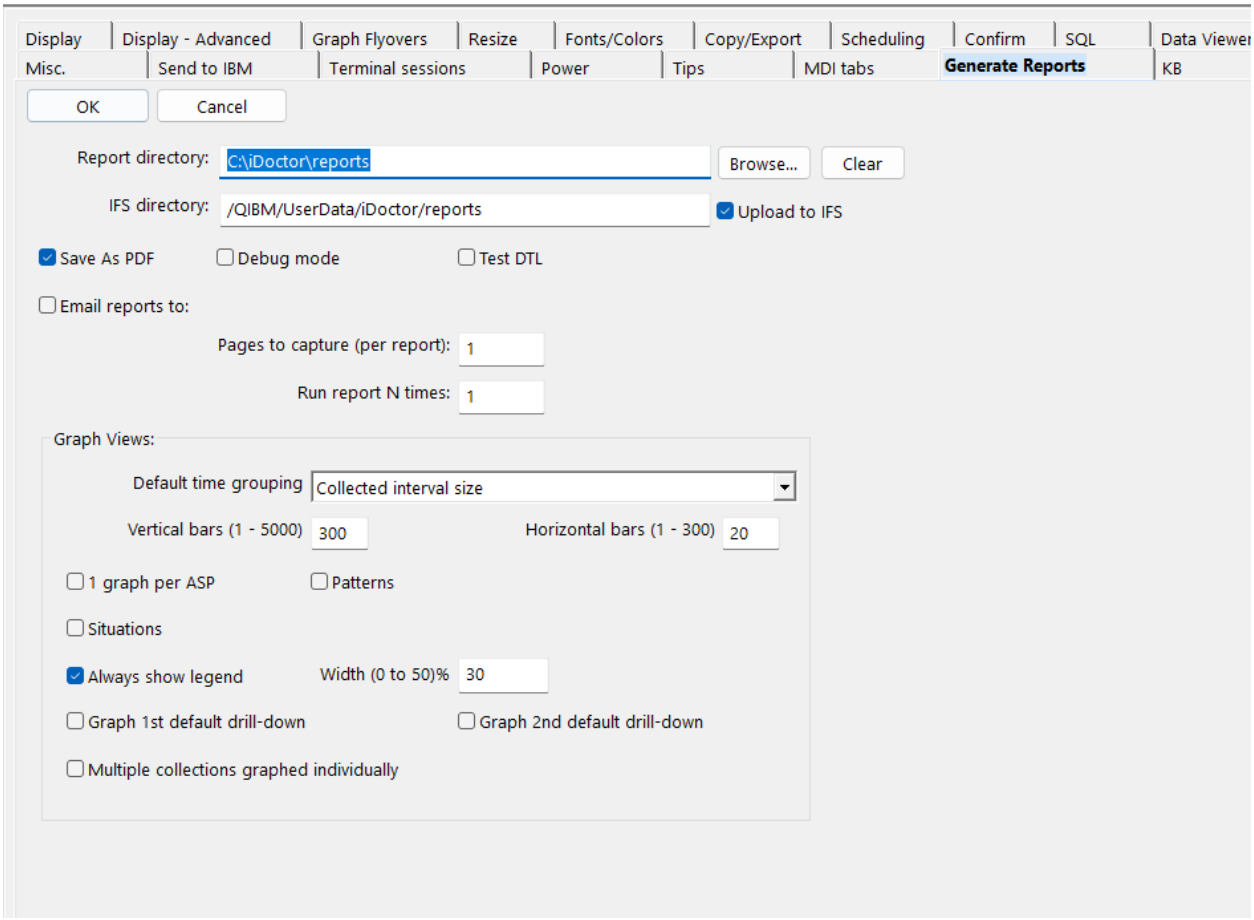
◉	**MDI Tabbed Style** Use this option to change the current MDI tabbed style being used. • Standard – allows users to tile and cascade but you cannot create groups of MDI tabs to compare with other tabs. • Grouped – Tabs cannot be tiled or cascaded but you can create groups of MDI tabs in order to make comparisons. **Tip:** This can also be set under the View menu -> MDI Tabbed Style.
☑	**Show close button on label of the active tab** If checked, then the close button will be visible on the active tab. If unchecked, then the close button will be placed at the far right-side of the tabbed group.
☐	**Use colors on the MDI tabs** If checked, then automatically assign a color to each tab opened.
☑	**Use a down arrow (popup menu) to navigate tabs** If checked, then a popup menu to show all opened views in the tabbed group will be available on the right-side of each tabbed group. If unchecked, then a left and right arrow buttons can be used to navigate through the open views.

☑	**Allow tab swapping via drag and drop** If checked, then allow tabs to be reorganized within a tabbed group via drag and drop.
☐	**Display icons on MDI tabs** If checked, then icons will be displayed on each tab.
☐	**Display tab labels at the bottom** If checked, then the tabs will be displayed at the bottom of each tabbed group rather than at the top.

☐	**Add new tabs on the left** If checked, new tabs are added on the left instead of on the right.
☑	**Move Message and Status Views** If checked and in MDI grouped mode, then the Remote Command Status View and Remote SQL Statement Status View will be moved to a new horizontal tabbed group at the bottom of the Main Window.
✎	**Minimum tab width %** This is the minimum allowed tab size (as a percentage of the available frame window width).
▼	**Max tabs to tile** This lets you control the maximum number of tabs that will be used when using the Tile Horizontally or Tile Vertically functions in Standard MDI mode. The default is 4.

8.17 Generate Reports

This tab is used to control preferences related to the Generate Reports function. You can access this function by right-clicking on most types of collections in iDoctor and using the Generate Reports menu.



	Report directory This indicates the location where iDoctor Report Generator files should be generated.
OK	**Browse** Use this to change the report directory.
OK	**Clear** This deletes everything in the directory listed.
	IFS directory This is the directory where iDoctor reports are copied to on the IBM i. This requires a working FTP connection.
☑	**Upload to IFS** The files will only be sent if this option is checked.

☑	**Save as PDF** This shows the report as a PDF instead of as an HTML file.
☐	**Debug mode** If checked, this option will only show reports that failed with an SQL error.
☐	**Test DTL** If checked, this option will only show Detail reports in the report generator window (category DTL). This also changes the collection menu so is only meant for temporary use.

☑	**Email reports to** This option when checked will send the report generated to the email address listed. This requires **Outlook** to be installed on the PC. Manual setup in **Outlook** is also required and iDoctor must be launched as the administrator. The Outlook setup steps are: a. In the outlook search box type macros, then click on Run Macros in the list b. In the macros popup, if no macros exist, type a name like "test" and click Create or if a macro exists, then click it and use the Edit button instead. c. Within the Visual Basic for Applications window, use the File -> Import File option, then navigate and select the SendiDoctorMail.bas file which is located in the directory where iDoctor was installed with 1548 or higher. d. This will load the SendiDoctorMail macro into your outlook installation. e. In the outlook search box type "security" and click Security action. f. In the Trust Center window, under Macro Security you will need to select Enable all macros. (or digitally sign the SendiDoctorMail macro yourself instead. **Note:** When auto emailing the PDF from the report generator this requires that any open instances of Outlook will be closed after the report generator is finished in order for the macro to successfully work and send the email.
	**Pages to capture (per report)** This is the number of pages/screenshots to capture per graph or table. If the amount of data in the report cannot be shown on a single page and this value is greater than 1, this means the data will be scrolled and an additional screenshot taken N times.
	**Run report N times** IBM use only.

These settings are like the settings on the Display tab but only apply to graphs when using the Generate Reports function.

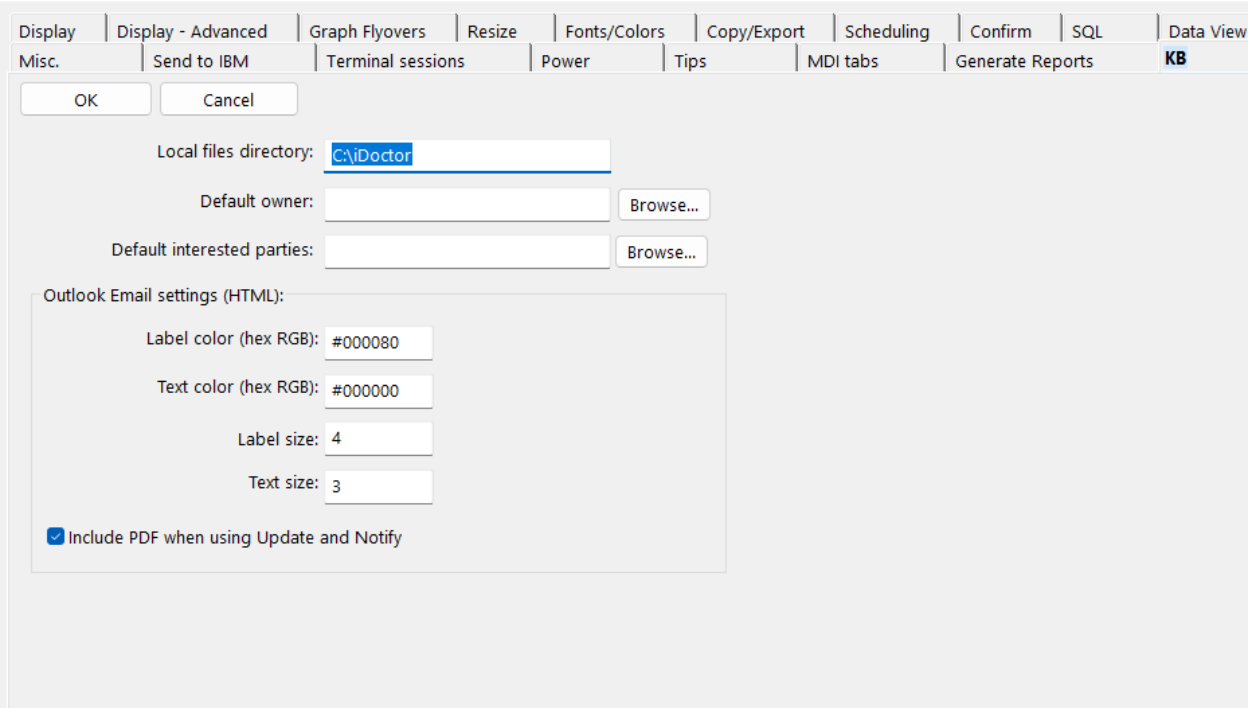
	**Default time grouping** This option controls the default time grouping to use when opening graphs that show data over time.
	**Vertical/horizontal bars** The maximum bars per page to show for vertical/horizontal bar graphs.
☐	**1 graph per ASP** If checked, 1 graph will be captured for each ASP found in the data. If unchecked, then only ASP 1 will be captured.
☐	**Patterns** If checked, various shapes or lines will be drawn into graph bars instead of using solid colors. Helps if colorblind.

☑	**Situations** If checked, Situations will be displayed on graph backgrounds. Run the Collection Summary and Situational Analysis analyses to enable.
☐	**Contrast** If checked, Situations will be displayed on the graph as the opposite of the Y1 setting for patterns. If patterns are in use, then solid background colors are used for situations.
☑	**Always show the legend** If checked the graph legend will be visible when the graph is opened.
	**Legend width %** This value represents the percentage of the graph window that the legend will occupy horizontally.

☐	**Graph 1st default drill-down** If checked then the 1st default drill-down will be taken and also captured. This is typically a rankings chart for the 1st time interval shown. However if initial graph is a rankings, then this will be a selected over time chart instead.
☐	**Graph 2nd default drill-down** If checked then the 1st default drill-down from the level 2 graph (typically a rankings) will be taken and also captured. This is typically a selection over time graph but not always.
☐	**Multiple collections graphed individually** If checked and if selecting multiple collections before running the Generate Reports this option will cause the graphs to be created once for each collection rather than combining the data into a single graph.

8.18 KB

These preferences apply to the Knowledge Base component.



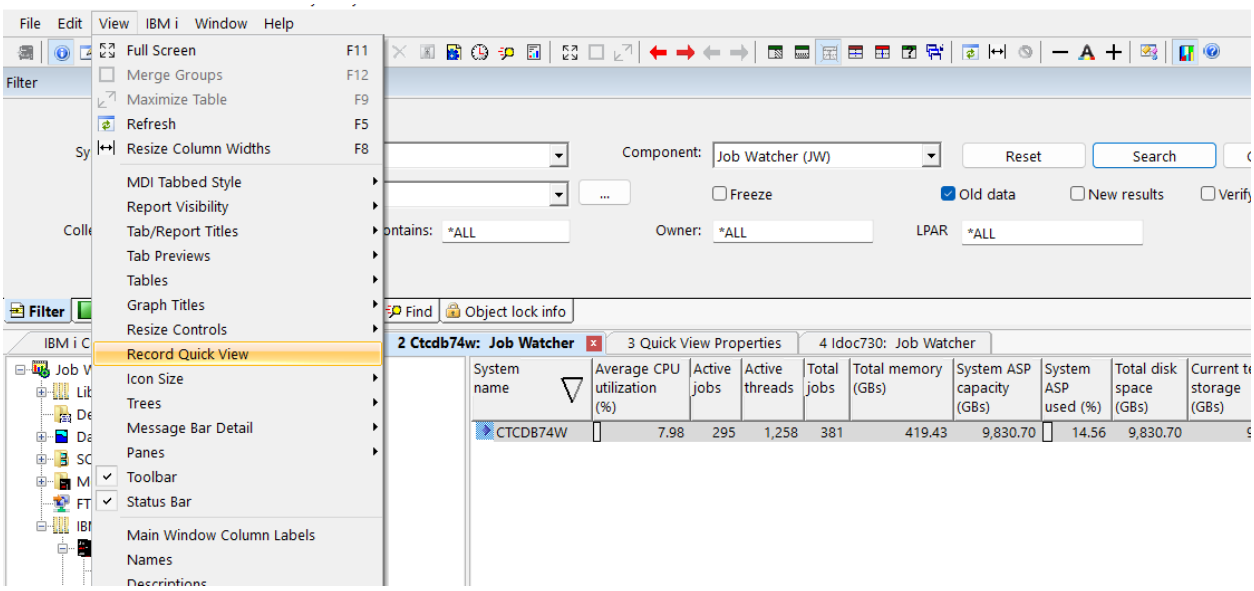
✎	**Local files directory** This directory indicates where the local files will be stored on the PC relating to the Knowledge Base. A KB subdirectory will be created.
✎	**Default owner** When creating a KB doc, this value is used as the owner by default.
✎	**Default interested parties** When creating a KB doc, this value is used for the interested parties field by default.

	Outlook email settings
	Label color (hex RGB) This a RGB color in hex. The format must be #RRGGBB.
	Text color (hex RGB) This a RGB color in hex. The format must be #RRGGBB.
	Label size HTML font size for labels
	Text size HTML font size for text
☑	**Include PDF when using Update and Notify** Indicates if a PDF attachment should be included in the email containing the KB document.

9 Record Quick View

This window is shown when the View -> Record Quick View menu is used for a list or table. The Record Quick View tab shows all data for the selected rows in a vertical list. This can make it easier to see all the data for a single record if many fields exist in the table. You can also make comparisons between multiple rows by selecting them and using the Record Quick View menu.

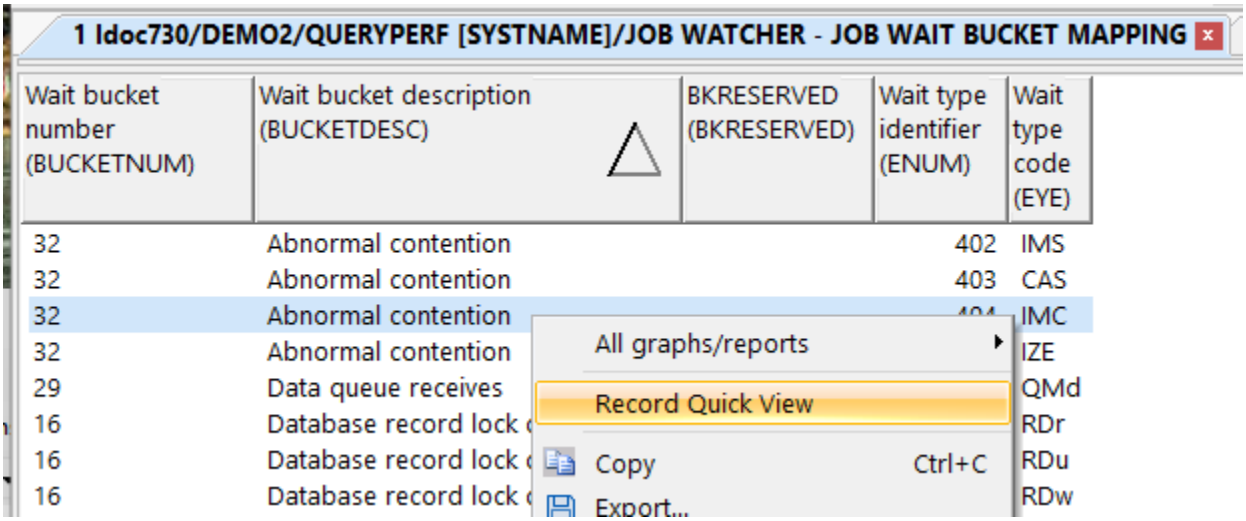
Tip: Access this window by double-clicking on any record in a table view in the Data Viewer or use the Record Quick View menu option from the Main Window's View menu or popup menu on the desired folder in some cases.

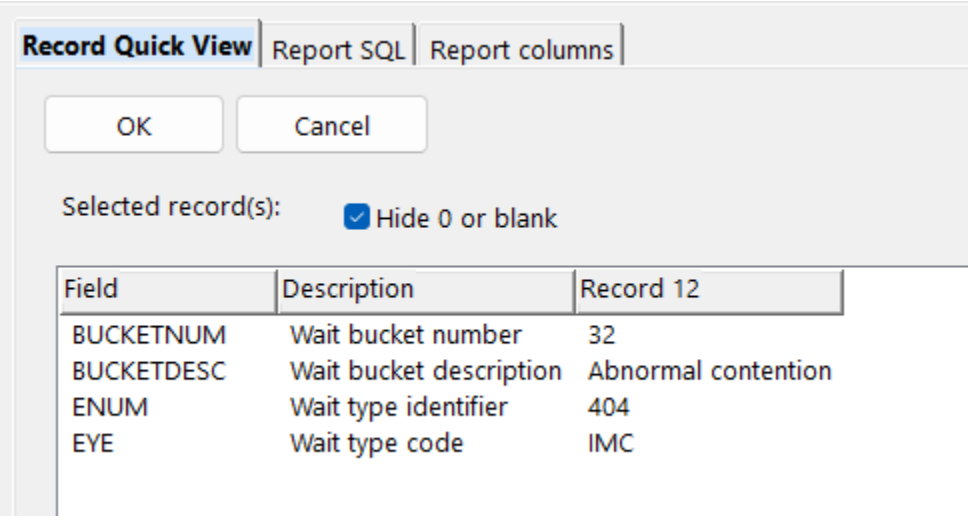


View -> Record Quick View menu from the Main Window

9.1.1 Viewing a single row

To view a single row in a table, select a row and use the Record Quick View menu. This is sometimes available on a right-click, or use View -> Record Quick View menu instead.



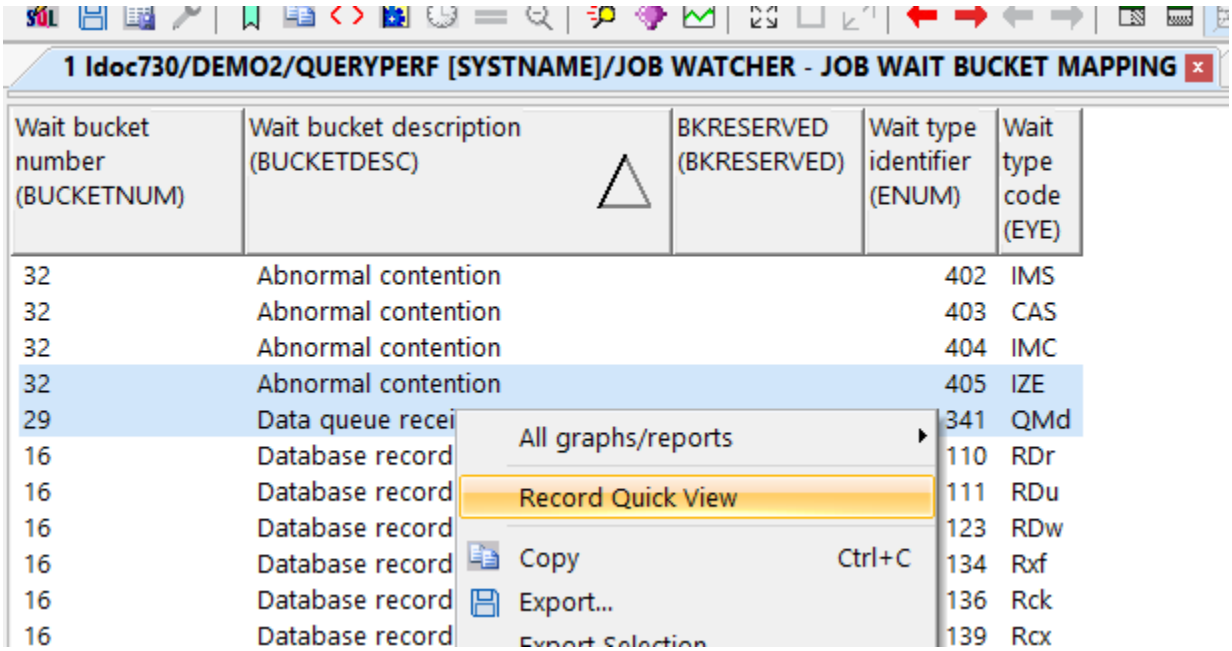


Record Quick View for 1 row

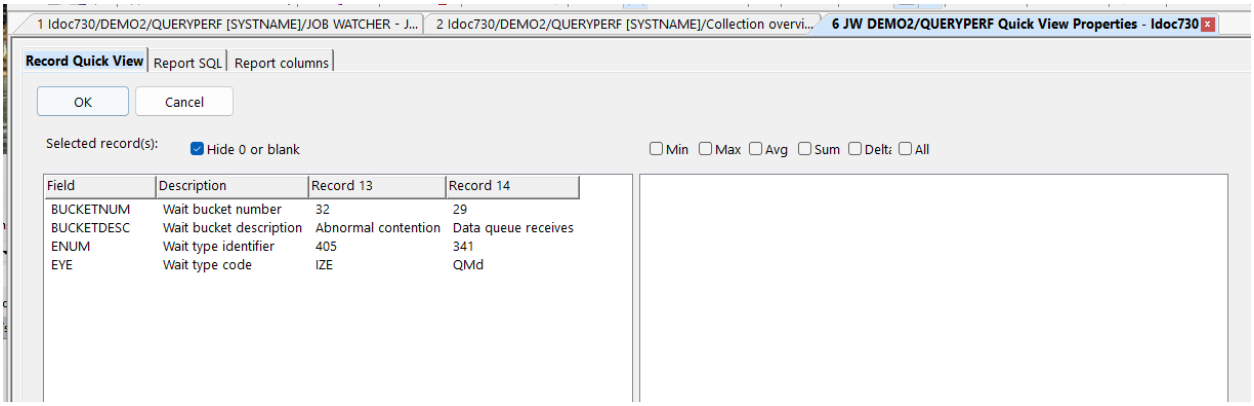
Tip: Use the **Hide all 0 or blank values** checkbox to remove those values from the list

9.1.2 Comparing multiple rows

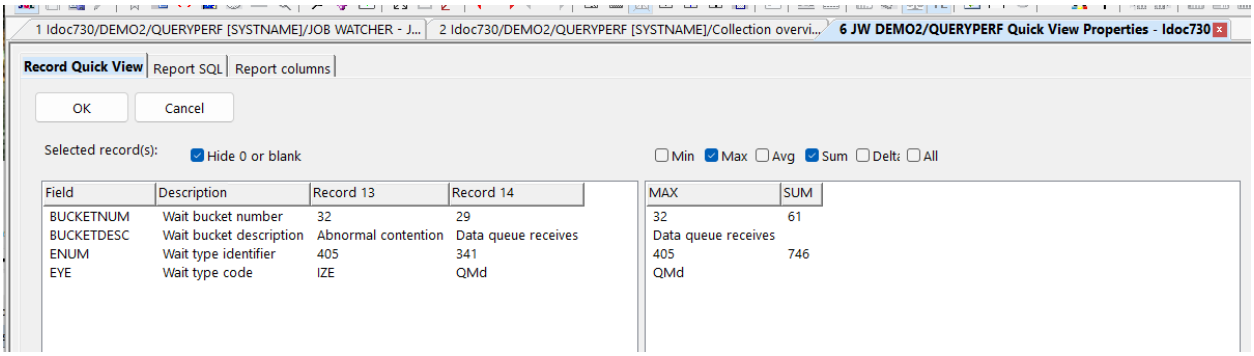
Select multiple rows in the table, right-click and use the Record Quick View menu to do this:



This will show the rows side-by-side with an area on the right side of the screen which is used for the analysis checkboxes at the top of the screen. The Analysis options are: Min, Max, Avg, Sum, Delta and All



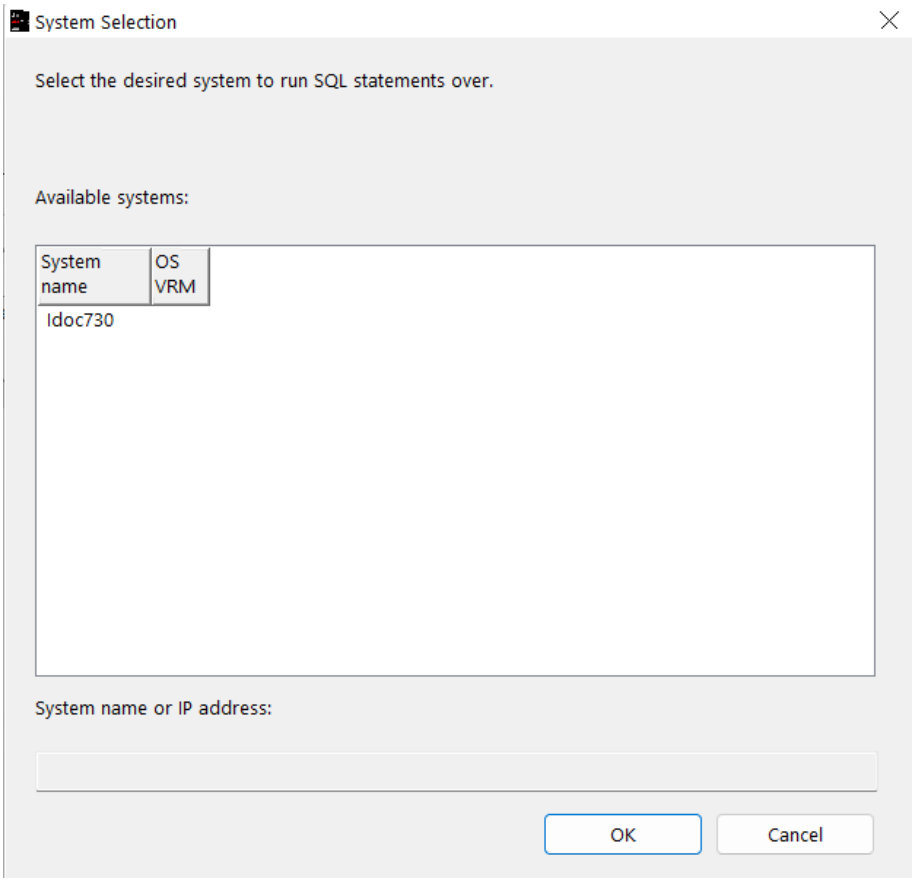
Comparing 2 rows



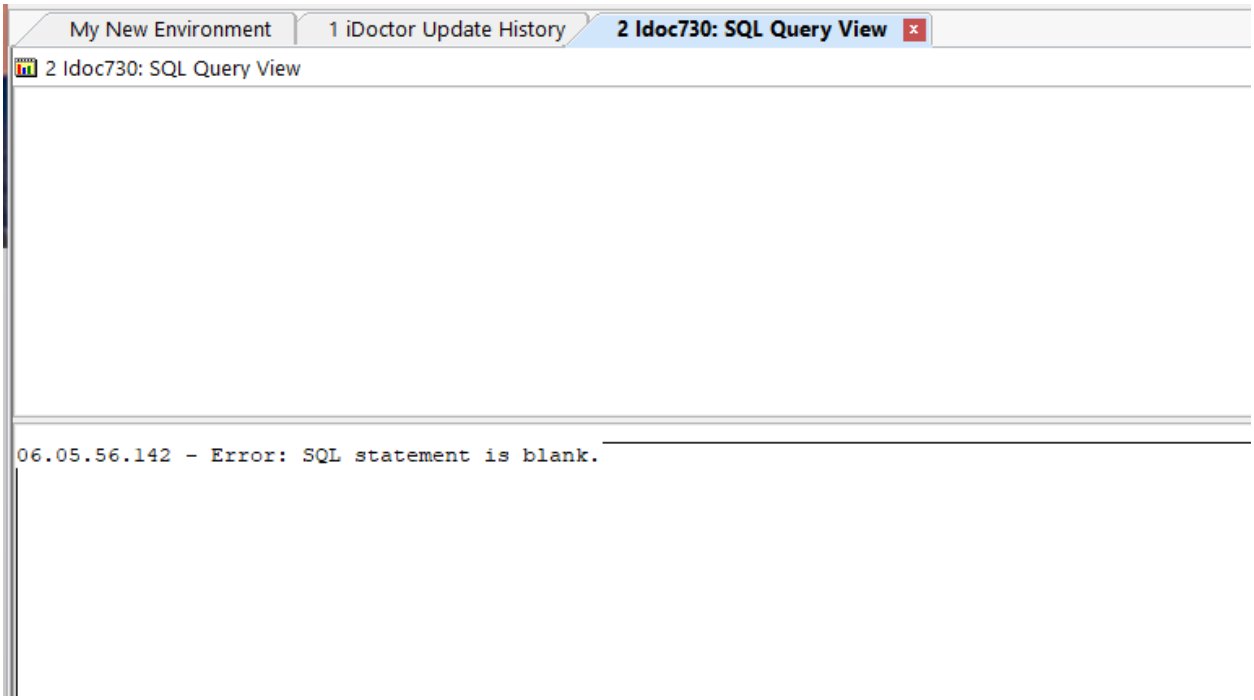
Showing results for the Max and Sum options on 2 rows

10 SQL Editor

When first using the New SQL Editor option a list of IBM i systems from your connection list will be shown. A value must be selected from the list. If you want to connect to a different system then add the connection with the IBM i Connections View first.



An SQLEditor window consist of an editable text view above a table view which initially will appear as blank with an error.



SQL should be written using System naming convention. Primarily this means that LIBRARY/FILE syntax should be used rather than LIBRARY.FILE.

If multiple SQL statements are needed, then those should each end with a semicolon.

Right-clicking within the SQL editor shows these options:

Menu
Execute (F4) These are options for running the SQl statement(s).
Display Job Log Open the job log for the QZDASOINIT behind this interface.
Active job options This provides various options to work with the job behind this interface.
Create SQL Table This option creates a new SQL table on the system using the WITH or SELECT statement found in the SQL editor. You will be prompted for a library and file name.
Convert SQL naming to System naming This will convert SQL statements created with other tools to System naming convention, so it works in iDoctor.
Convert System naming to SQL naming This will convert SQL statements using System naming convention and change it so it will run in other tools like ACS Run SQL Scripts.
Launch SQL in Run SQL Scripts… This option launches ACS – Run SQL Scripts for the current system using the contents of the SQL Editor.
Find (CTRL+F) This opens the Find Pane so you can locate something within the SQL Editor.
Find Next (F3) This positions to the next occurrence when using the Find Pane. Shift+F3 will find the previous occurrence.
Replace (CTRL+H) This can be used to replace 1 or more occurrences of something in the SQL editor with something else.
Select All (CTRL+A) Select the entire contents.