Cyberquery Release Notes v9.10

Introduction

Your system administrator must run DDUPDATE to update your data dictionary so it can be used with the 9.10 release.

These version **9.10** release notes describe the new features and significant enhancements to Cyberquery and Enterprise Cyberquery since version **9.05**.

We recommend that you read these **Release Notes** before installing the new software, and are familiar with the Conventions used in Cyberscience documentation. If you are upgrading from a previous version and using hold files, please see the Hold file format.

CQ/HTML

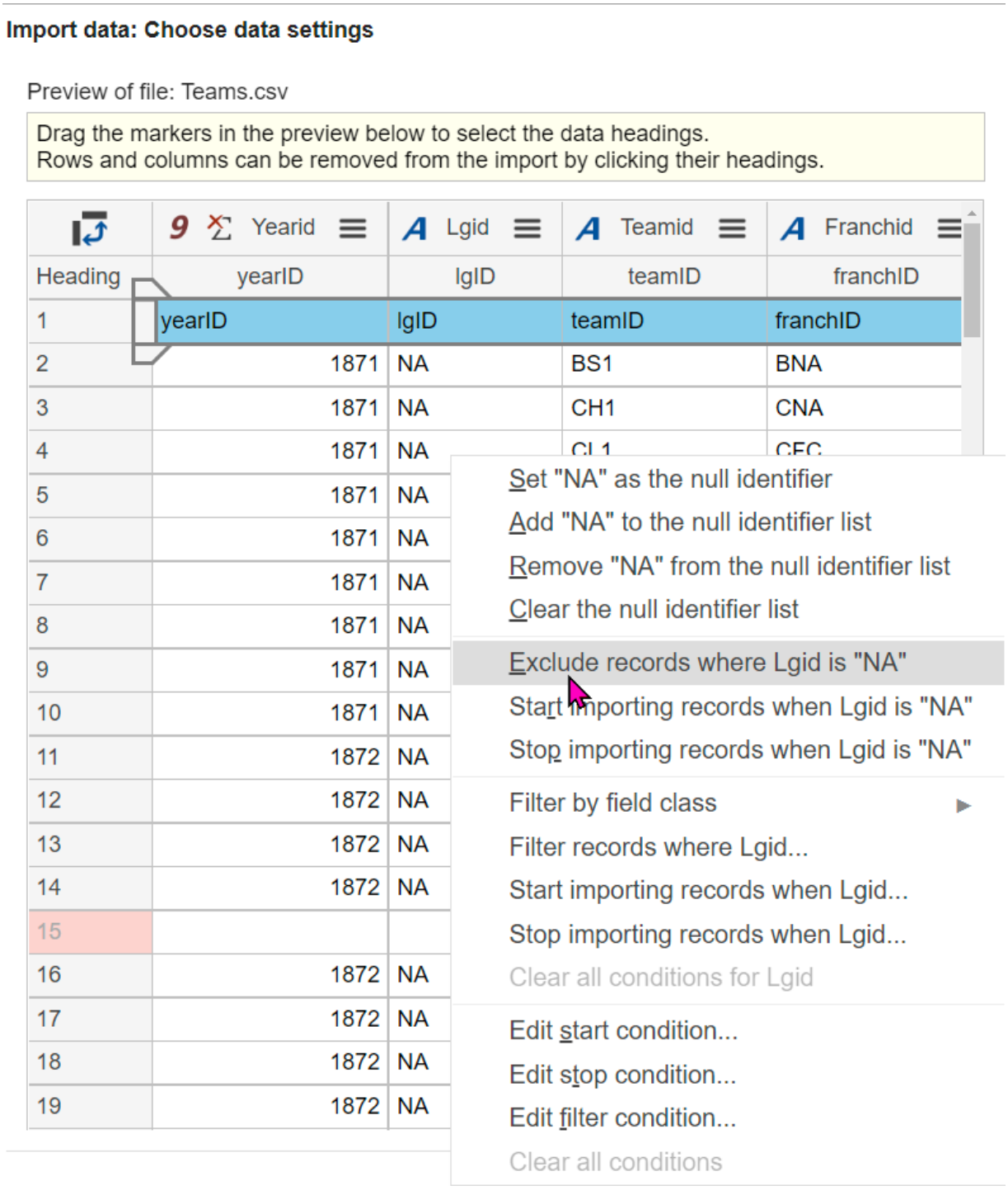
- Dynamic Categories Options are now also available in List Reports. Dynamic Categories allow you to group items into groupings that may not be represented in the database. For example, US states could be grouped into New England, Midwest, etc. categories. To use this functionality in List Reports, you use the Reporting tool to create your categories. *{Bug: 86121}*
- You can now move a selection to the report body for List and Sum reports using a new "**Move selection to...Body**" right-click **Reporting Tool** submenu option. As an example, you can move a top of report item to the body to insert it into the far-right column in the body of the report. *{Bug: 87197}*
- You can now set the default paper size for **PRINT/PDF** output using CQCS_DEFAULT_PAPER_SIZE in the ACS configuration file. Otherwise, **CQ/HTML** uses the date format set in cqprofile to set the default paper size. If the date format is US, the default is `Letter 8.5x11`, and if the date format is anything other than US, the default is `A4`. See CQCS_DEFAULT_PAPER_SIZE. *{Bug: 85122}*
- When you click in the Inline Help pane in the Language Editor, you can now use CTRL+F or click **Edit >Find...** to search the content in the pane. See Searching for Content in the Help pane.
- You can now maximize resizable dialogs using the Maximize icon  . *{Bug: 87621}*
- If the **Unsaved files** dialog appears when you open **CQ/HTML**, you no longer have to click **Cancel** to access the Report Wizard to paste a query, macro, or data. Instead, you can paste (CTRL+V) it into the **Unsaved files** dialog. See Unsaved files. *{Bug: 87790}*

Import Data Wizard

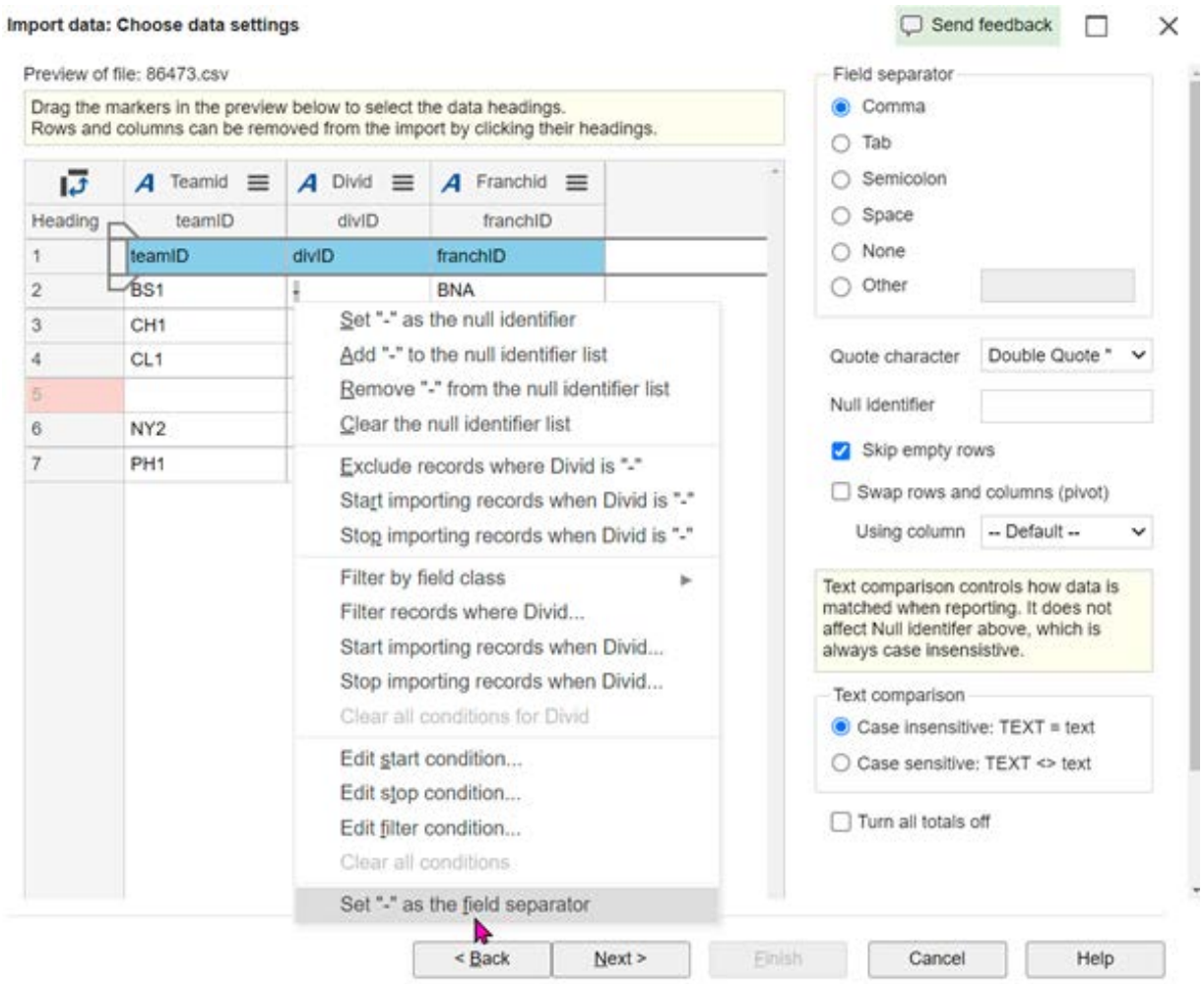
Choose data settings dialog

- New record filters are now available for you to use on imported fields of any type in the Import Data Preview:
  - **Exclude records where <*column name*> is <*value clicked*>**
  - **Start Importing records when <*column name*> is <*value clicked*>**
  - **Stop Importing records when <*column name*> is <*value clicked*>**

In the screenshot below, we selected **Exclude records where LgID is "NA"** to exclude them from being imported. See Record Filters. *{Bug: 76389}*

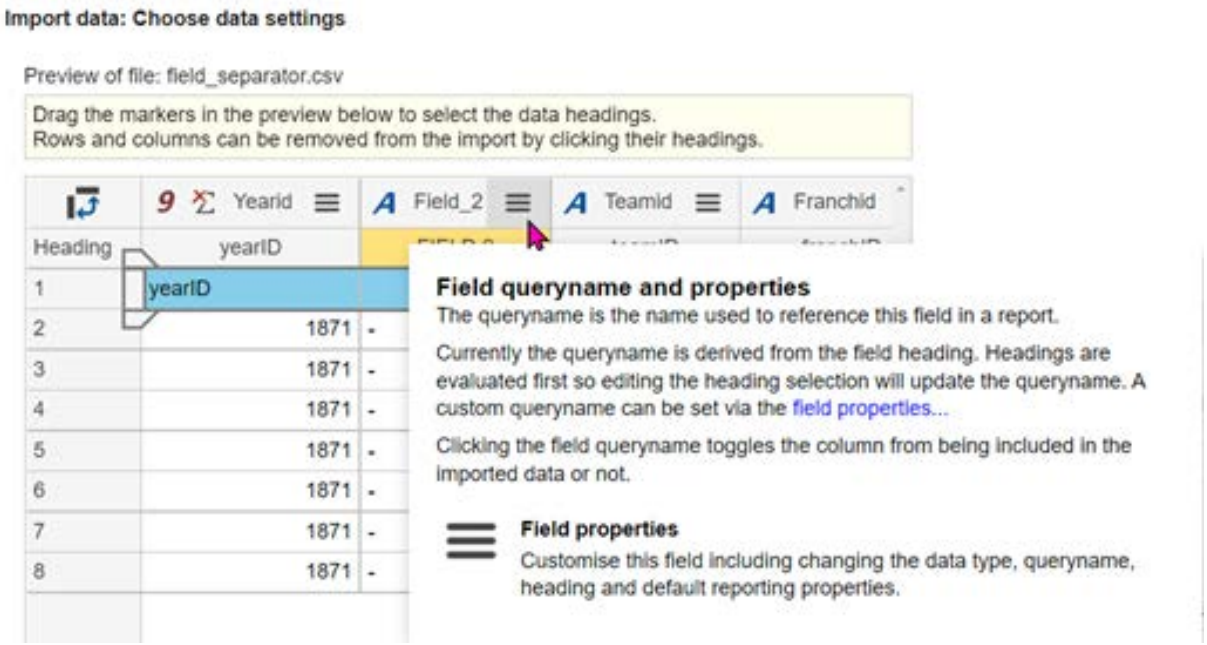


- You can select, copy (CTRL+C), and paste (CTRL+V) the cell contents into the *NULL IDENTIFIER* field or another application. See Null Identifier. *{Bug: 86473}*
- You can select (highlight) the field separator in the cell, right-click your mouse, and select **"Set <*char*> as the field separator"** for **CSV** files. Review the screenshot below to see an example using this scenario. See Field Separator. *{Bug: 86473}*



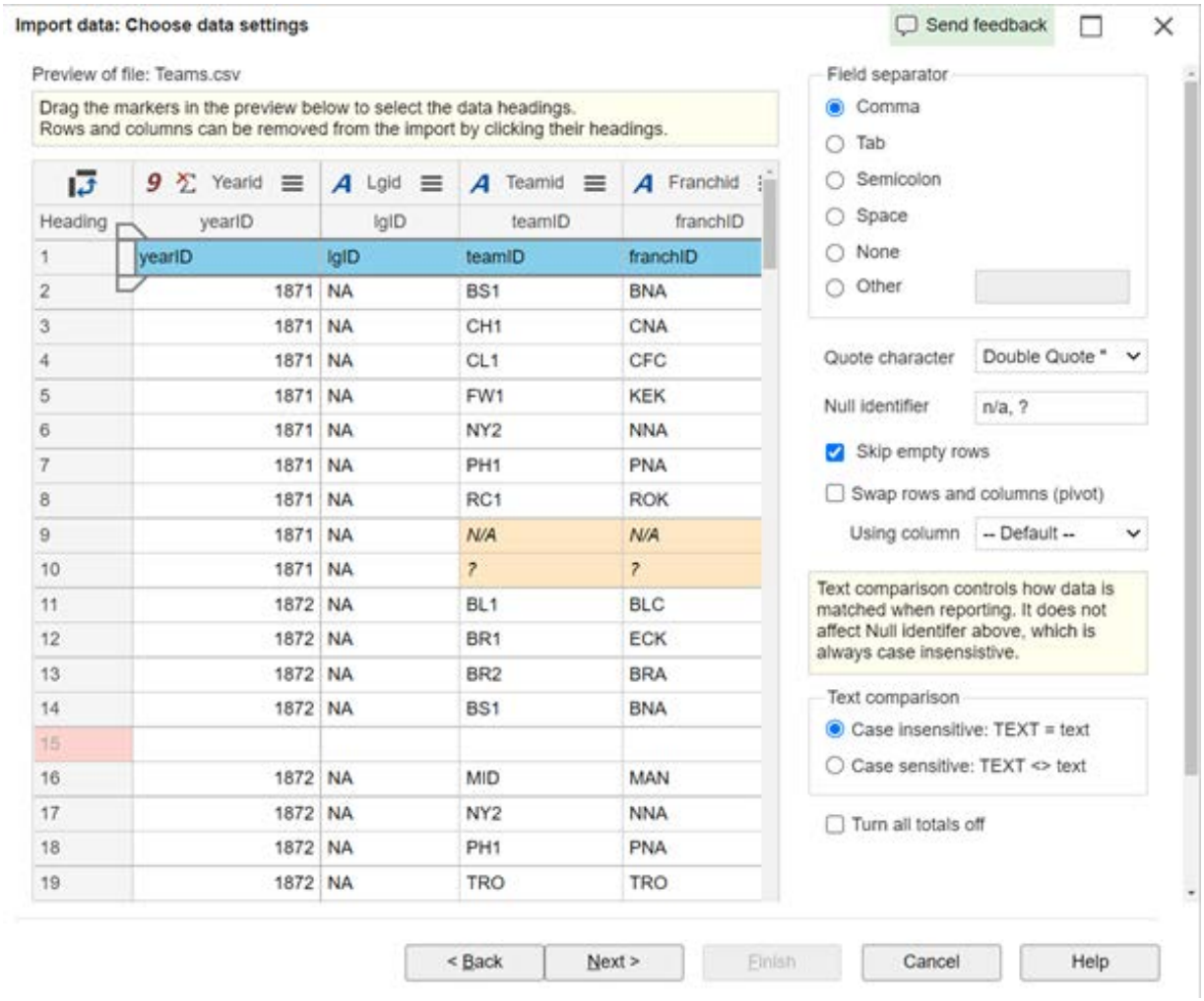
- When you import a URL or paste a **CSV** file, you now have the option to Skip empty rows in the **Choose data settings** dialog. **CQ/HTML** selects this checkbox by default when you do a data import, displays the empty rows in the preview, and highlights the row number to indicate that it is skipped. See Skip Empty Rows. *{Bug: 82789,87634}*
- Now when you do an import that includes missing table headings, **CQ/HTML** automatically highlights the heading and adds an auto-generated heading. You can click the

Field Properties icon to change the heading name. Review the screenshot below to see an example of how this works. See Import Data with Missing Table Headings. *{Bug: 87429}*



- When you import a table that includes a ? in a cell, **CQ/HTML** now detects these entries as null values, highlights them, and notes them in the Null Identifier in the **Choose data**

settings dialog. Review the screenshot below to see an example of how this works. *{Bug: 87394}*



Choose output options dialog

- You can now save a macro when you do a data import on the **Choose output options** dialog. The macro contains a command which repeats the import with the options that you selected (for example, to update for new data or to adapt to import similar sources). You cannot use this macro with data clauses. Instead, you can re-run the macro to overwrite the import originally done in the wizard. See Query Generation. *{Bug: 74267}*

Private: Internal only -->

Data Import Filter Example Video

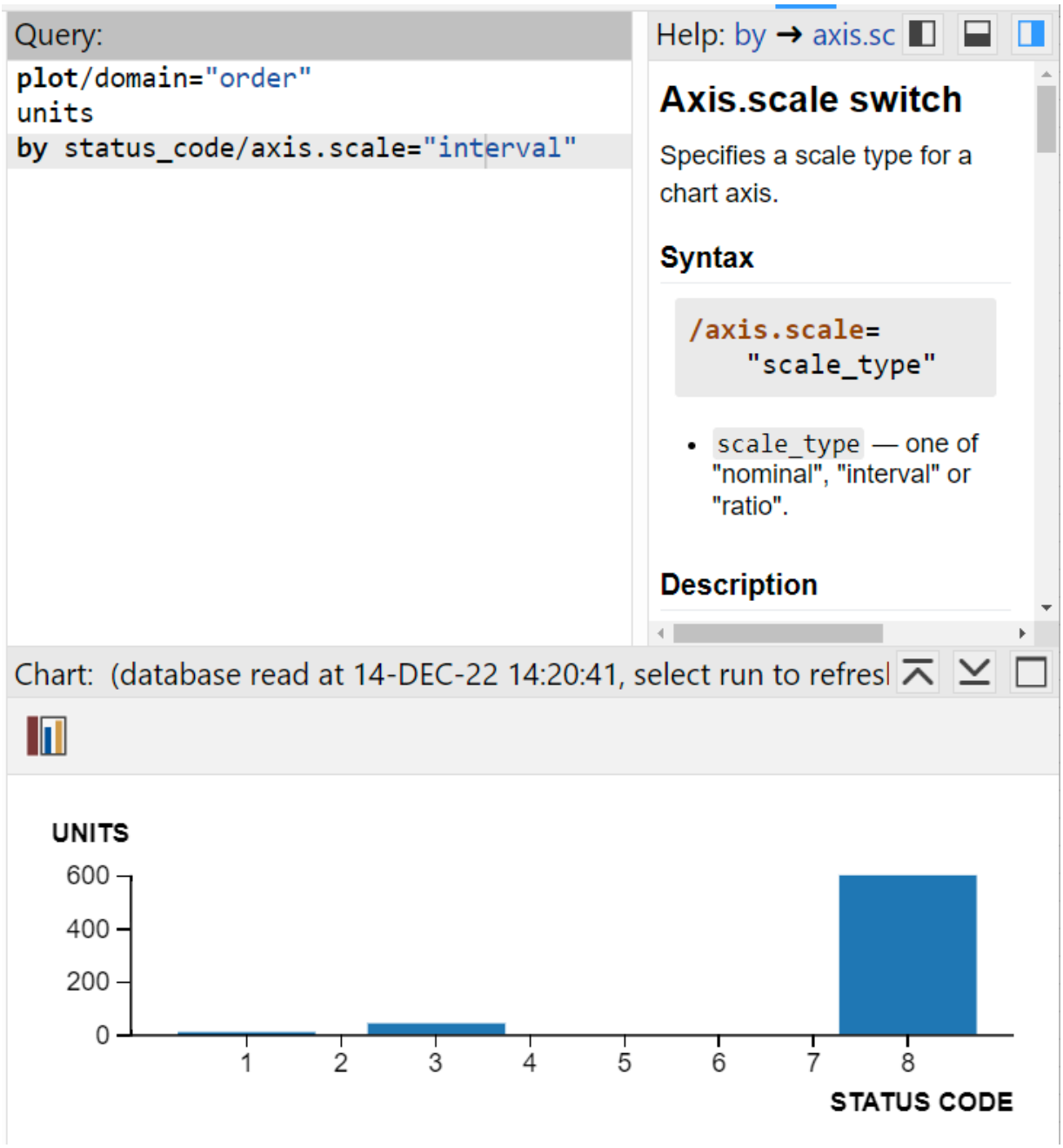
You can view a short video demonstrating the data upload filter by clicking on the following link: Data Import Filter Demo.

<-- Private

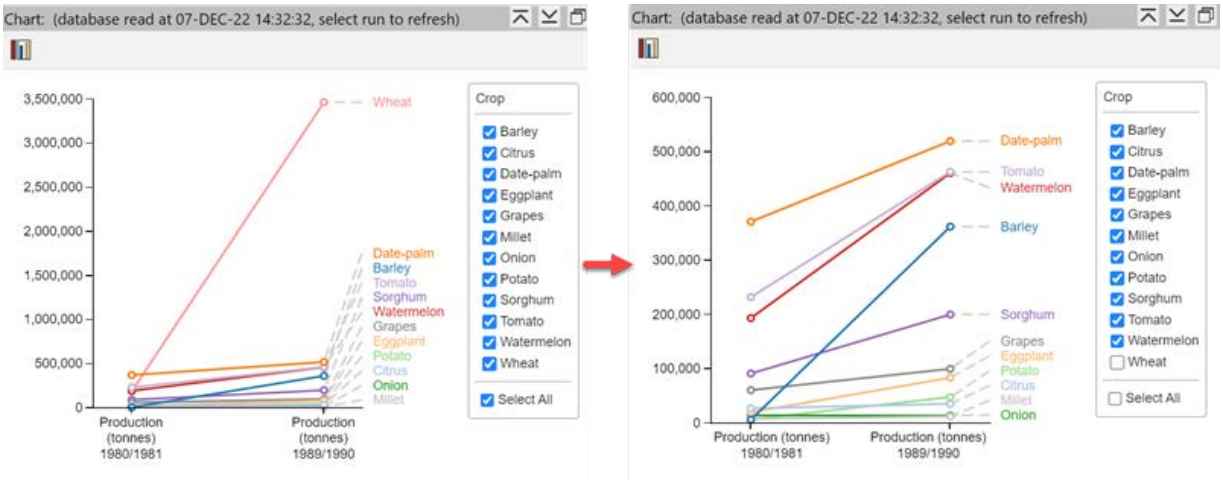
Charts

- You should now use **/axis.scale="interval"** instead of the **/dateaxis** switch with non-string data types (date, time, timestamp, interval, number) when you create a chart. The **/dateaxis** switch was built to be used with the date or timestamp data types, whereas the **/axis.scale="interval"** is more robust and allows for any non-string data type. Review the screenshot below to see how using **/axis.scale="interval"** in the query displays a label for

all of the status codes. Before this update, if you used **/dateaxis** in this query, the chart only displayed one label for each status code that had a value. *{Bug: 72725}*

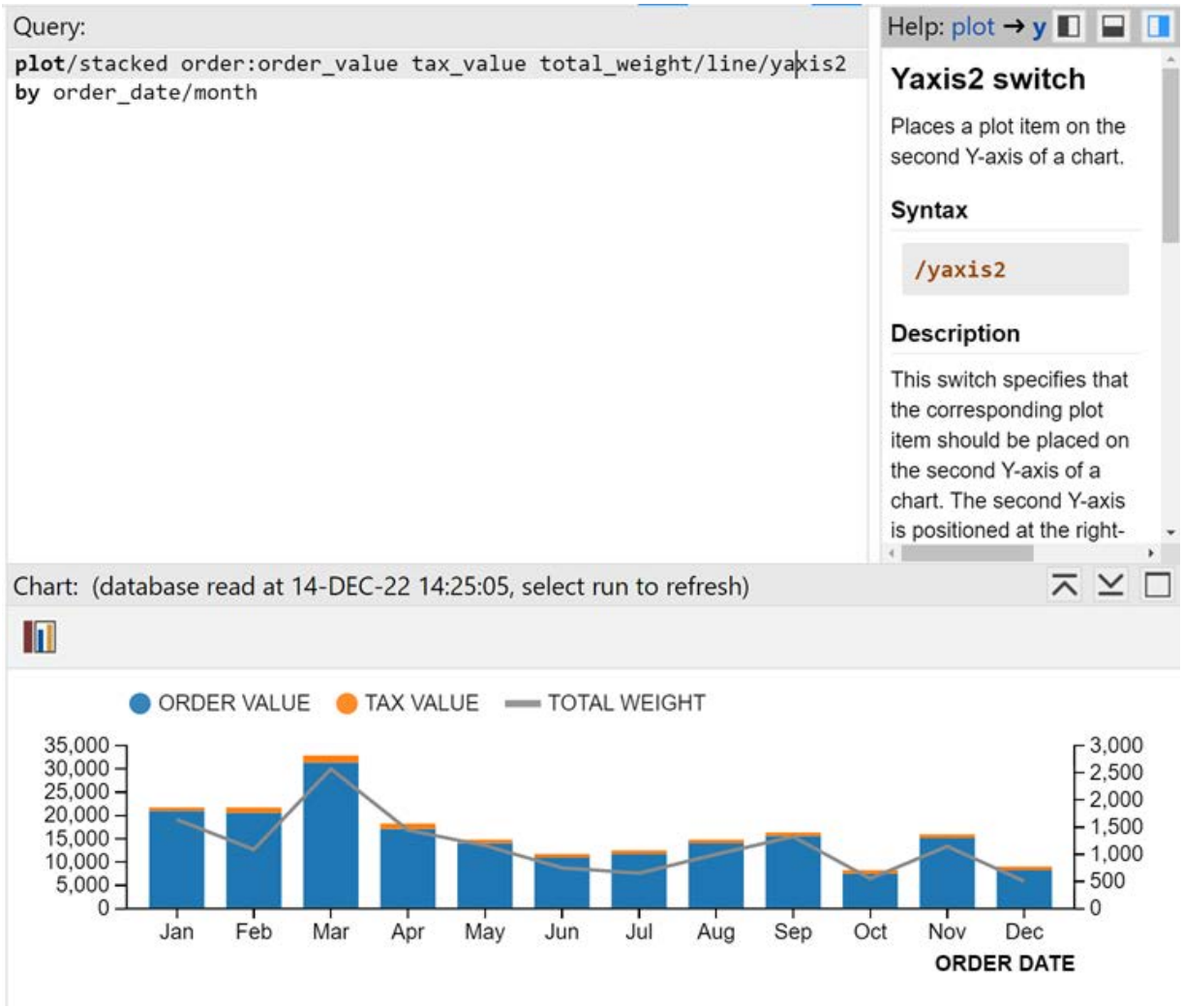


- You can now use a new **/unlockscale** switch with the **multiple** selector to display sub-charts with independent scales. Review the screenshots below to see how this works when you have a main contributor (like "wheat" in this example) in your data:
  - On the left, you see that "wheat" is the main contributor.
  - On the right, when you unselect "wheat", the chart rescales to better display the remaining data points. Before this change, the chart did not rescale. *{Bug: 81284}*

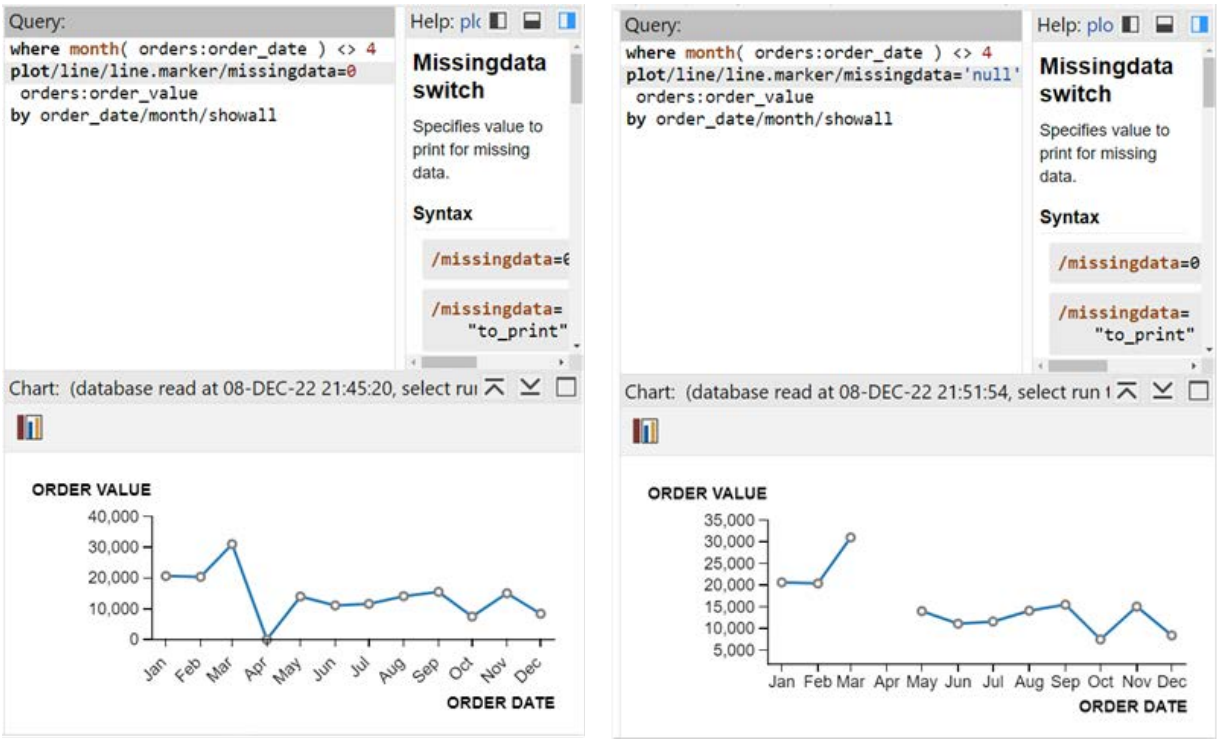


- You can now use **/yaxis** in combination with **/stacked** and **/line** conditions to display the 2nd y-axis. Review the screenshot below to see that when you use the **/yaxis** switch in the query,

the 2nd y-axis is displayed for the line. Before this update, the 2nd y-axis did not display. *{Bug: 86684}*

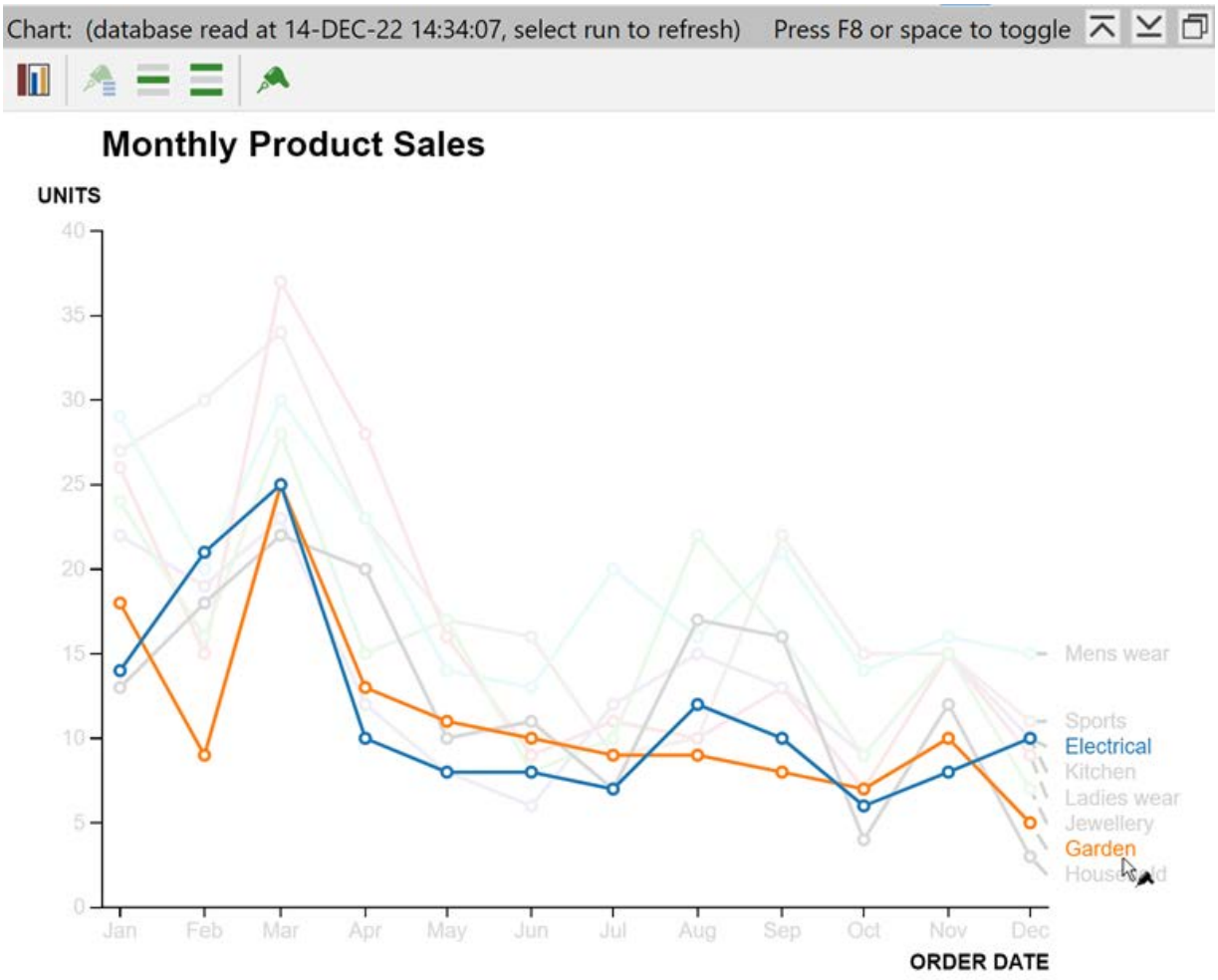


- You can now use the **/missingdata** switch in charts to control how the chart handles missing data. Review the screenshots below to see how this works:
  - On the left, it shows the result of running a query that uses **/missingdata=0**
  - On the right, it shows the result of running a query that uses **/missingdata="null"** *{Bug: 74665}*



- You can now hover over legend series and axis labels to highlight them when you use the **Reporting** and **Drill** tools. To use this new functionality, you first have to select a series label (or axis label), and then you can hover over any of the other series labels (or axis labels) to highlight them. In addition, you can then click the label while depressing CTRL to add the series to the selection and keep it highlighted as you move the mouse away. In the

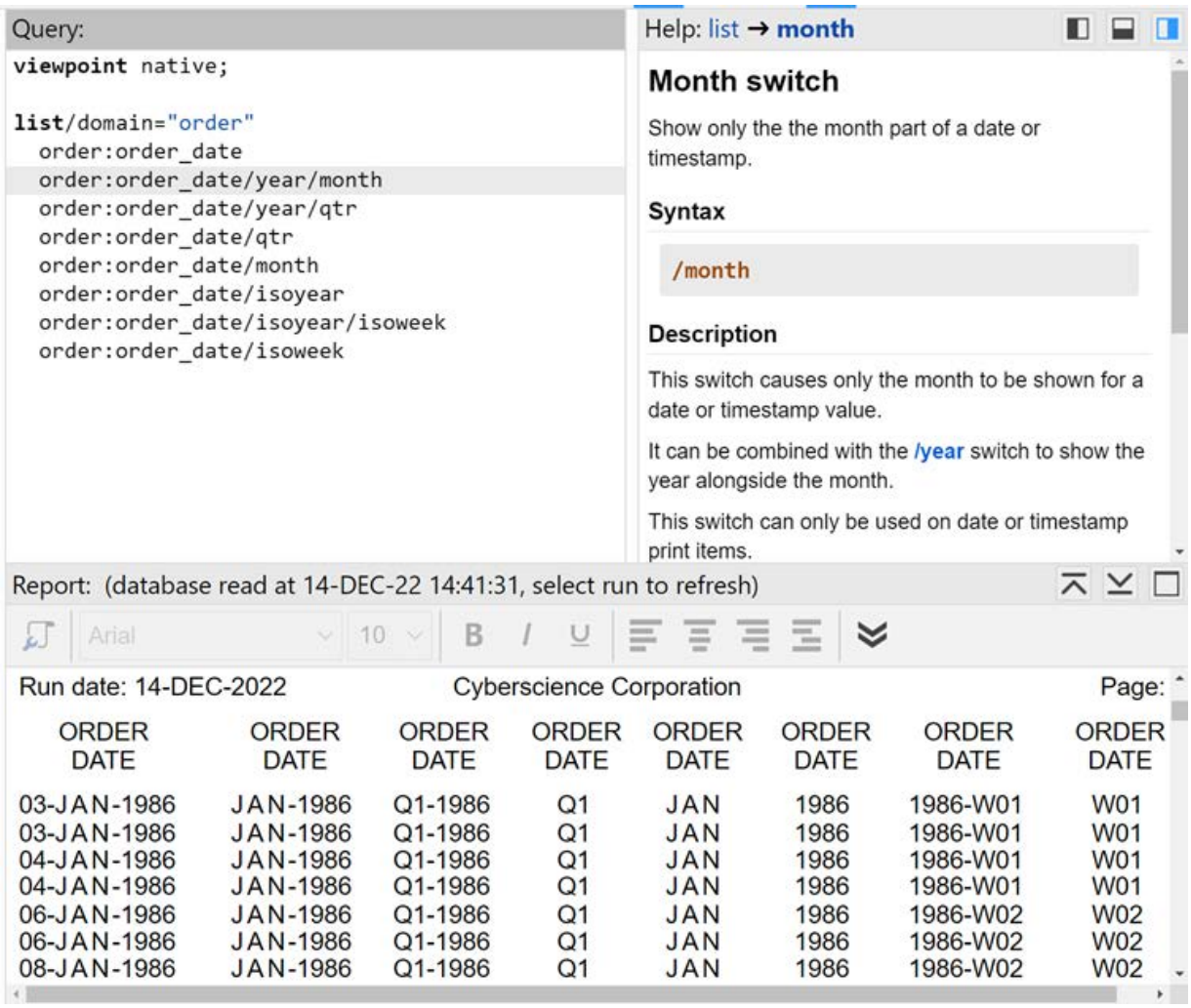
screenshot below, we selected the Electrical series label and then hovered over the Garden series label to highlight it using the **Drill** tool. *{Bug: 77330}*



Cyberquery

- You can now pass the base URL using **-baseurl** to **cc2html**, **cc2pdf**, **cqe2html**, and **cqe2pdf** to help resolve relative links. See Relative Links. *{Bug: 83719}*
- CQ_DEFAULT_ECHO is a new CQ configuration environment value. If you have *CQ_DEFAULT_ECHO* set to false, the user in **Webreports** or **Launchpad** now only sees the final report output and not the detailed output of the macro. *{Bug: 87901}*
- These switches are now available as body item switches in List reports and are available to apply as follows:
  - **/date**: Prints only the date part of the timestamp. Apply as a sorting switch for Sum report By items.
  - **/month**: Prints only the month of a date or timestamp.
  - **/year**: Prints only the year of a date or timestamp.
  - **/year/month**: Prints only the month and year of a date or timestamp.
  - **/year/qtr**: Prints only the quarter and year of a date or timestamp.
  - **/qtr**: Prints only the quarter of a date or timestamp.
  - **/isoyear**: Prints only the isoyear of a date or timestamp.
  - **/isoyear/isoweek**: Prints only the isoweek and isoyear of a date or timestamp.
  - **/isoweek**: Prints only the isoweek of a date or timestamp.

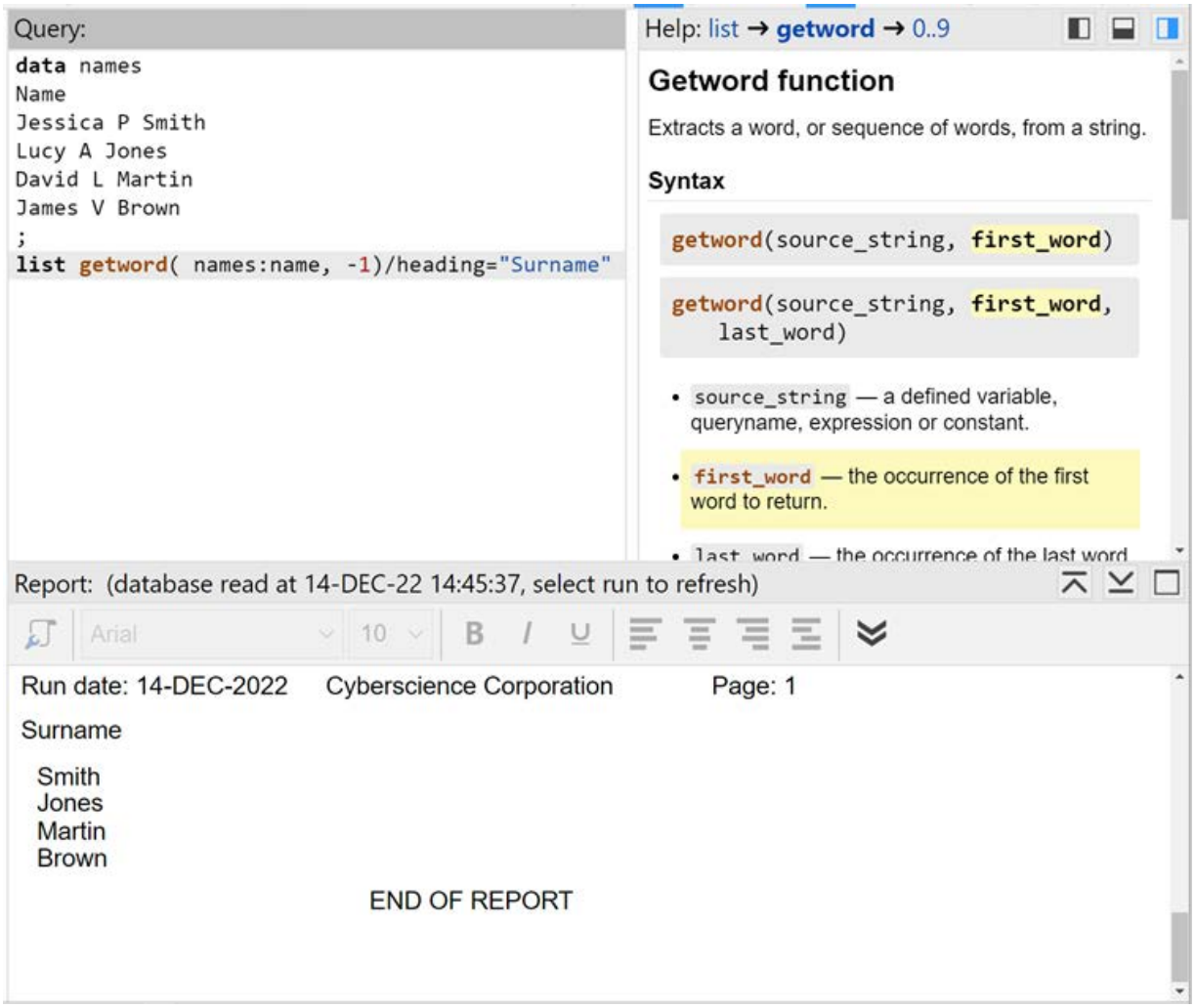
Review the screenshot below to see examples of how to use these new switches. See Local Switches and Switches that affect the Sequence of a Report. *{Bug: 30640}*



- The new **getword** and **countwords** functions are now available to use to extract and count words in a string. Like several of our string functions, they are useful when you have to

extract a piece of information from a text item that is a compound string and includes other information, or when you need to normalize values to process without punctuation, etc.

- The **countwords** function returns the number of words that are present in a string. See COUNTWORDS.
- The **getword** function extracts a word or sequence of words from a string. The screenshot below shows an example of using the getword function with -1 (returns the last word in the string). See GETWORD. *{Bug: 65857}*



- The new compose switch (**/pdf**) creates **PDF** output from a compose command. Before this update, it was only possible to get an **HTML** output in a **Compose macro** command. See Commands to combine Multiple Reports on a page - eCQ only. *{Bug: 79186}*
- The **date** function now works if you include the day of the week. For example: `date(Wed, 27 Jul 2022 13:52:55 GMT')` now returns a result of `27-JUL-2022`. Before this update, you had to use **getdate()** to produce the same result. In general, you should use **getdate()** to search for a date in longer pieces of text, and **date()** when the entire text represents a date. See DATE. *{Bug: 86678}*

CQ Configuration Variable

- CQ_DEFAULT_ECHO is a new CQ configuration environment value. If you have *CQ_DEFAULT_ECHO* set to false, the user in **Webreports** or **Launchpad** now only sees the final report output and not the detailed output of the macro. *{Bug: 87901}*

Data Dictionary

- We enhanced the Data Dictionary structure and you need to run DDUPDATE before you can use your data dictionary with CQCS version **9.10**.

Launchpad

- The **Launchpad** layout is now more responsive and adapts better on mobile devices. *{Bug: 86849}*

Webreports

- Now when you run charts from **webreports**, the default view gives you an e-mail option  . *{Bug: 76542}*

PDF

- We have introduced a new technology for converting reports and charts to **PDF** replacing the old **cqprint** system. The new system works on the same server as **Cyberquery** itself, as long as that server is running Windows or modern Linux. (If that's not the case, refer to Converting Cyberquery Charts to PDF from Cyberquery Version 9 in the online help.) **Cyberquery** version **9.10** offers better pagination of reports and better alignment of mailing labels and pre-printed stationery. On servers where the new PDF-conversion system is available, CTRL+P will print via **PDF** rather than **HTML**. *{Bug: 86846}*
- PDF-conversion now defaults to using a server-side conversion instead of the **cqprint** system used in previous versions. This new system uses better technology and supports PDF-conversion of composed reports. The following new switches (see Using the cqe2pdf Command Line Utility) were added to **cqe2pdf**:
  - **PDFTIMEOUT**=*value*: Time out if no document is created in this many seconds.
  - **PAGEWIDTH**=*value*: Width of the document page in pixels.
  - **PAGEHEIGHT**=*value*: Height of the document page in pixels.
  - **FIXEDMARGIN**=*value*: Margin width in pixels.
  - **SVG**: Output a plot in **SVG** format using **Inkscape**. **Inkscape** requires a separate installation. See Converting Cyberquery Charts to SVG.
  - **BASEURL**:*text*: The base **URL** to use for any relative links.
- If you want to keep using the old system (note that this applies to **cqe2pdf** and **CQ/HTML**), you can switch it back on by setting CQCS_PDF_USE_CQPRINT, or by passing the **/legacy** switch to **cqe2pdf** (see Using the cqe2pdf Command Line Utility). *{Bug: 82619}*

Bug Fixes

CQ/HTML

- When you convert a report or chart into a **PDF** that includes relative links, those links now work in the **PDF** because they use the Base **URL** from the **Hyperlink Settings** dialog (**Report > Hyperlink settings...**) preferences. See Relative Links. *{Bug: 83719}*
- The **Page Setup** dialog now affects printing via **HTML** as well as **PDF**. *{Bug: 86843}*
- You now see updated icons on the **Parameters** dialog for the **Choose parameters...**  , **Load Values...**  , and **Save values...**  buttons. *{Bug: 86651}*
- When you have the cursor on a file name in the Language editor, the inline help now displays the list of fields that are part of the file. *{Bug: 86703}*
- The inline help now uses mixed case instead of uppercase letters to identify Files, Fields, and Classes. *{Bug: 87254}*
- **CQ/HTML** now displays an updated orange/yellow color scheme when you use the **Find** feature. *{Bug: 87598}*

Import Data Wizard

- If you remove a column on the **Choose data settings** dialog that has a warning icon, since you are making a selection to not import the field (remove the column), you no longer need to resolve the issue with the field. *{Bug: 86673}*
- The **Import Data** wizard now displays a warning message when you try to pivot a table that has more than 9999 fields (see Pivot the Data):

  ```
  This data cannot be pivoted as it contains too many records.
  Imported data can have a maximum of 9999 fields, the current
  record selection would generate [#] fields when pivoted.
  ```

  {Bug: 86450}
- The **Choose data settings** dialog field warnings now automatically update the button options based on your selections and include inline help. *{Bug: 87495}*
- The **Choose data settings** dialog now displays a warning message for the *OTHER FIELD SEPARATOR* if the entry contains an invisible character to prevent you from parsing your data incorrectly. *{Bug: 87636}*
- The **Open** and **Save** dialogs now display an icon for **CSV** files  . *{Bug: 88237}*

Charts

- It is now easier to see marker lines (the lines that identify the vertical and horizontal intersection of a data point on a line) in charts. When you hover over a data point on a chart, the chart now displays the data point marker lines as dashed lines that take on the color of the series line, even if the line is not displayed as the default (active) line. Before this update, the marker lines were displayed as black and sometimes solid lines. *{Bug: 88057}*
- **CQ/HTML** charts now default to the 'single' selector type instead of 'multiple' for non-overlapping chart types. *{Bug: 82057}*

- Now when you have Y and Y2 axis labels, they both have the same alignment, meaning they are both above or both beside the axes. *{Bug: 77217}*
- Before this update, if there were multiple body items undefined in the query, **CQ/HTML** displayed them using the 'multiple selector' by default. This could be misleading though especially if the data items were not meant to be added together. Now the default is to display them using the 'single' selector. *{Bug: 77517}*

Webreports

- *WEBREPORTS.FORM-TOP* and *WEBREPORT.FORM-BOTTOM* HCF rules no longer affect Parameter forms in **CQ/HTML**. *{Bug: 87092}*