

Manage Data Validation Definitions

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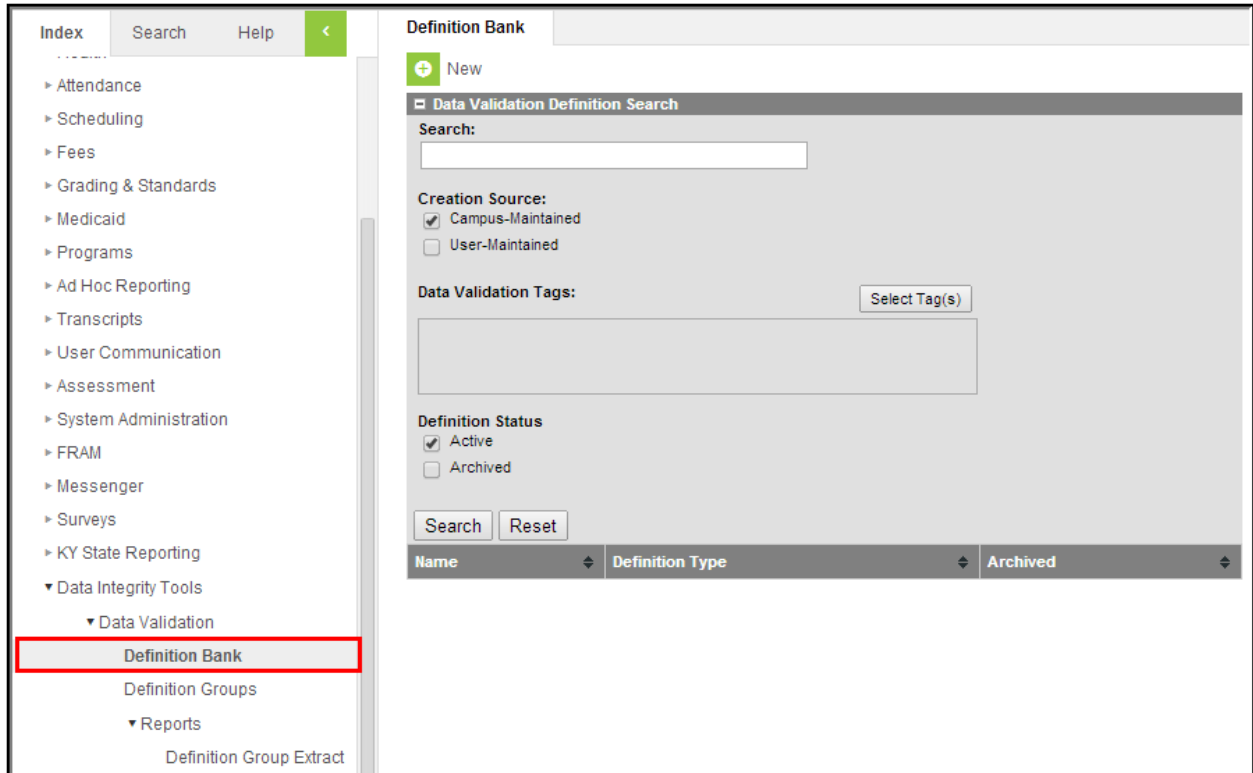
[Tool Rights](#) | [Creating a New Data Validation Definition](#) | [Searching for Existing Data Validation Definitions](#) | [Archiving Data Validation Definitions](#) | [Activating Archived Data Validation Definitions](#) | [Next Steps](#)

Tool Search: Data Validation Definitions

Data Validation Tools are available as part of the [Campus Data Suite](#), [Campus State Edition](#), and districts connected to a State Edition.

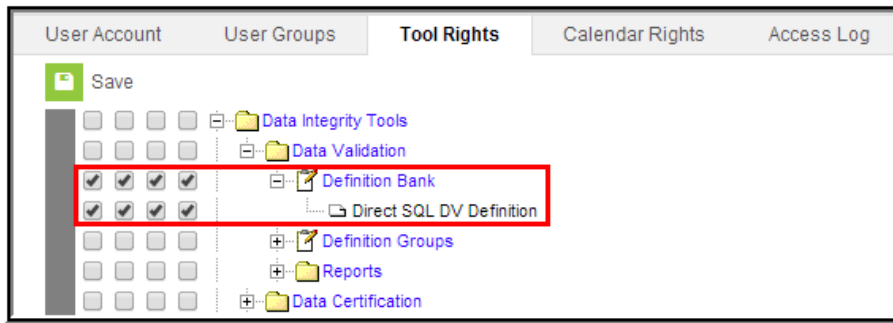
The Definition Bank tool is used to create and manage definitions used within Definition Groups and report data within Definition Group Extracts. Definitions are specific parameters used for filtering and reporting specific data. These definitions are grouped together in Definition Groups which are used to report data for each definition in the group within the same extract.

For example, five separate English Learners (EL)-specific definitions could be created, all reporting a different specific set of data. These definitions could then be grouped together in an EL [Definition Group](#) and then reported using the [Definition Group Extract](#). Each definition would report data within its own subsection while all reporting within the same extract.



The screenshot displays the 'Definition Bank' interface. On the left, a navigation menu lists various tools, with 'Definition Bank' highlighted under the 'Data Validation Tools' section. The main content area is titled 'Definition Bank' and includes a '+ New' button. Below this is a 'Data Validation Definition Search' section with a 'Search:' input field. The 'Creation Source' section has two checkboxes: 'Campus-Maintained' (checked) and 'User-Maintained'. The 'Data Validation Tags' section features a 'Select Tag(s)' button and a text input area. The 'Definition Status' section has two checkboxes: 'Active' (checked) and 'Archived'. At the bottom of the form are 'Search' and 'Reset' buttons. Below the form is a table header with three columns: 'Name', 'Definition Type', and 'Archived'.

Tool Rights



The following table describes how tool rights work with the Definition Bank tool.

Direct SQL DV Definition tool rights are described with the assumption that matching rights are given to the Definition Bank tool.

Tool	R	W	A	D
Definition Bank	Users can view existing definitions and definition preview results.	Users can view and modify existing definitions as well as preview definition results.	Users can view, modify, and create definitions as well as preview definition results.	Users can view, modify, and create definitions as well as preview definition results.
Direct SQL DV Definition	User cannot create a new definition or enter SQL within a definition.	Users can view and modify existing definitions as well as preview definition results.	Users can view, modify, and create definitions as well as preview definition results. They can also create a Direct SQL definition.	Users can view, modify, and create definitions as well as preview definition results. They can also create a Direct SQL definition.

Creating a New Data Validation Definition

Users can create definitions that filter and report data based on Ad hoc filters or direct SQL. These definitions are then put into Definition Groups which are used to report subsets of data within a single Definition Group Extract.

District Edition Users: Definitions created at the district level are maintained and reported only within the district that created the definition.

State Edition Users: Definitions created at the state level are maintained by the state. These definitions are not published down to districts however, definitions created at the state that are included within published definition groups are published down within the definition group and are read-only in the district-level Definition Bank tool.

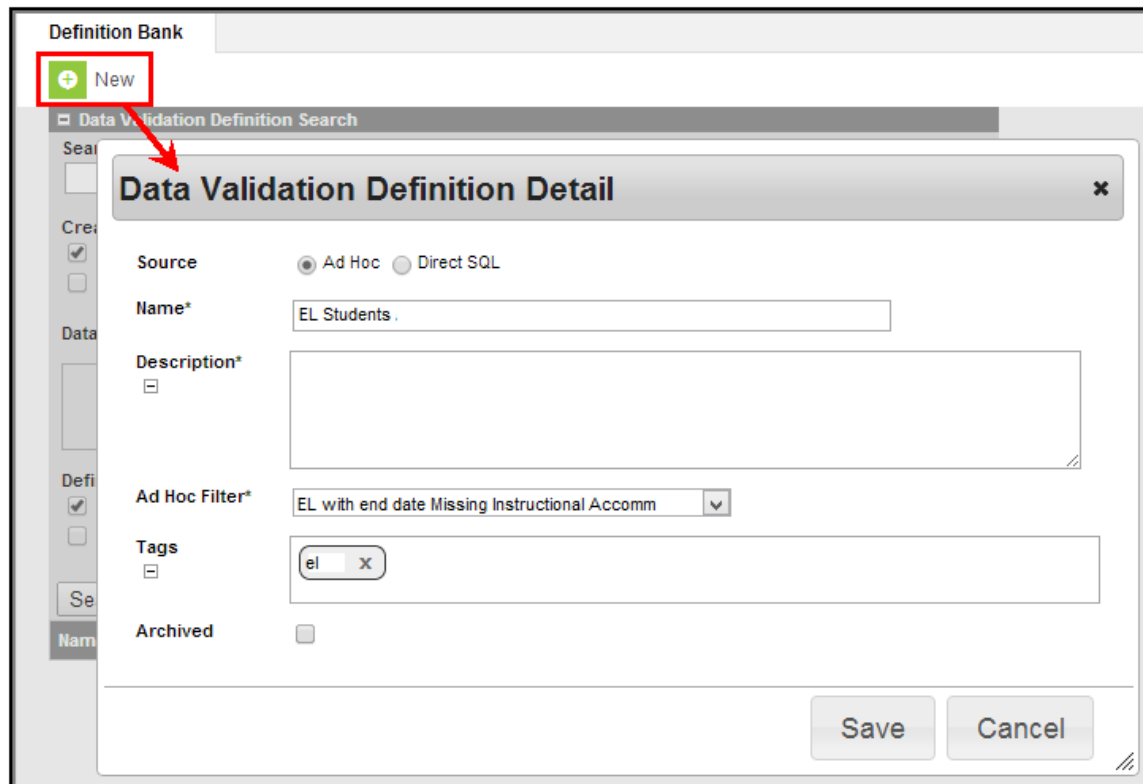
If a definition is created that contains fields or data not available at the district level, any definition groups that include this definition will not be allowed to be published down to districts.

When publishing a Definition Bank from State Edition to District Edition, logic looks to see if the Definition Group and Definition Bank exist. If these do not exist, they are inserted. If they already exist and there are changes, they are updated as long as the district-owned definition bank and group do not have the same name as a state-owned definition bank and group.

If there is a conflict with the name (names are same in both editions) between district edition and state edition, an update is not performed.

Creating an Ad Hoc Data Definition

Definitions can be created using an [Ad hoc filter](#) as the source of identifying which data to report within the definition.

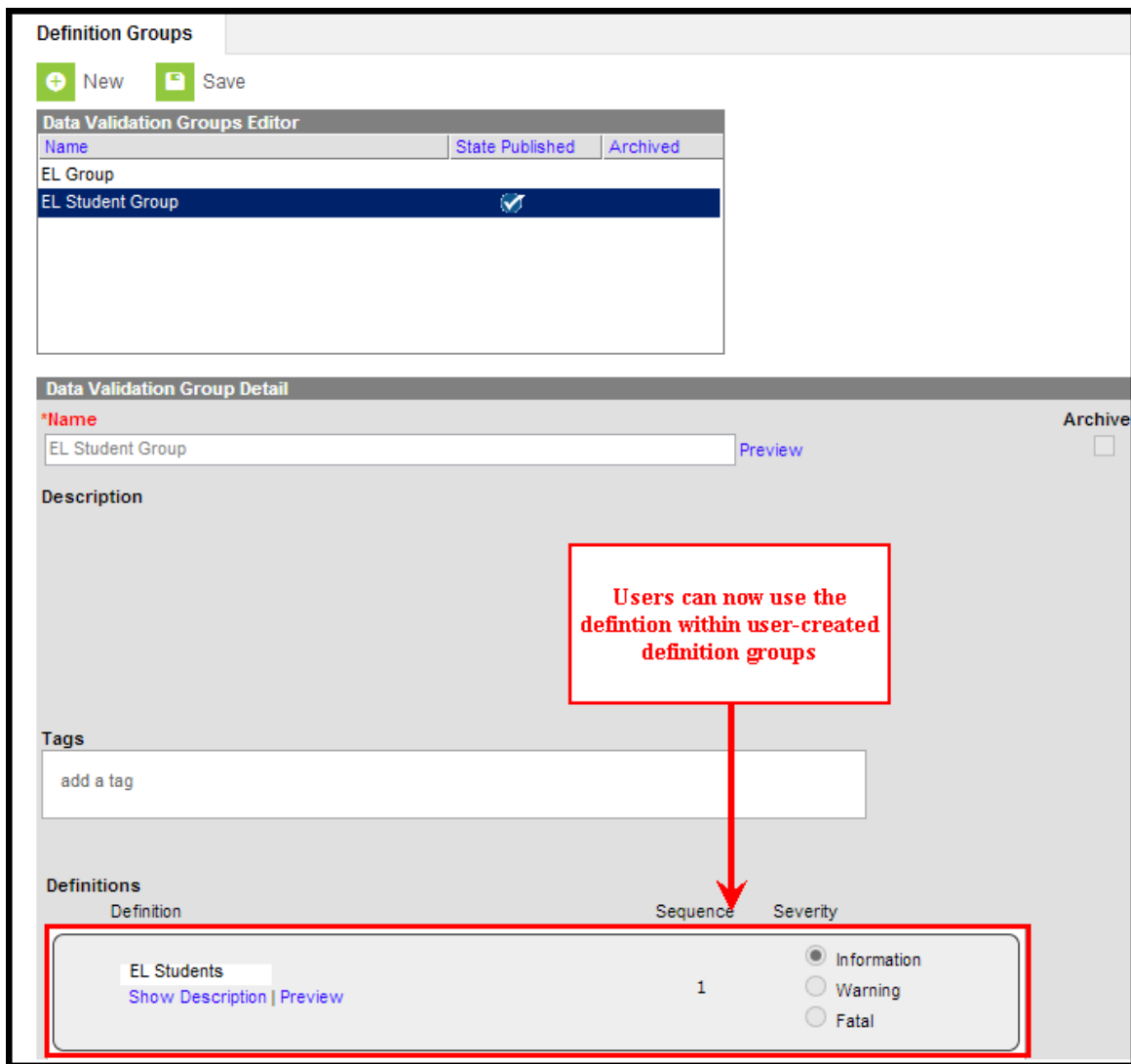


The screenshot shows the 'Definition Bank' interface. A red box highlights the 'New' button (a green circle with a plus sign) in the top left. A red arrow points from this button to the 'Data Validation Definition Detail' dialog box. The dialog box has a title bar with a close button (X). Inside the dialog, the 'Source' is set to 'Ad Hoc' (selected with a radio button). The 'Name*' field contains 'EL Students'. The 'Description*' field is empty. The 'Ad Hoc Filter*' dropdown menu is set to 'EL with end date Missing Instructional Accommodations'. The 'Tags' field contains 'el' and 'x'. The 'Archived' checkbox is unchecked. At the bottom right of the dialog are 'Save' and 'Cancel' buttons.

To create a new definition:

1. Select a **Source** of Ad Hoc.
2. Enter the **Name** of the definition.
3. Enter a **Description** of the definition. This appears when viewing the definition within the Definition Bank and Definition Group tools.
4. Select an **Ad Hoc Filter**. This filter will determine which data is pulled within the definition and reported within the definition group. Ad hoc filters are created within the [Filter Designer](#) tool.
5. Enter any **Tags** (optional). Tags are used to search for and identify related definitions when creating definition groups.
6. Do not mark the **Archived** checkbox. This checkbox is used to archive (retire) existing definitions no longer to be used within definition groups.
7. Select the **Save** icon. The definition is now saved within Campus and can now be used within definition groups.

Once the definition has been created it can be used within definition groups. The image below is an example of a definition group using the EL Students definition created in Image 3. A preview of the definition can be viewed by selecting the blue Preview link. The Preview will report based on the selections in the Campus Toolbar.



Definition Groups

+ New Save

Data Validation Groups Editor

Name	State Published	Archived
EL Group		
EL Student Group		<input checked="" type="checkbox"/>

Data Validation Group Detail

***Name**
 EL Student Group Preview Archive ☐

Description

Tags
 add a tag

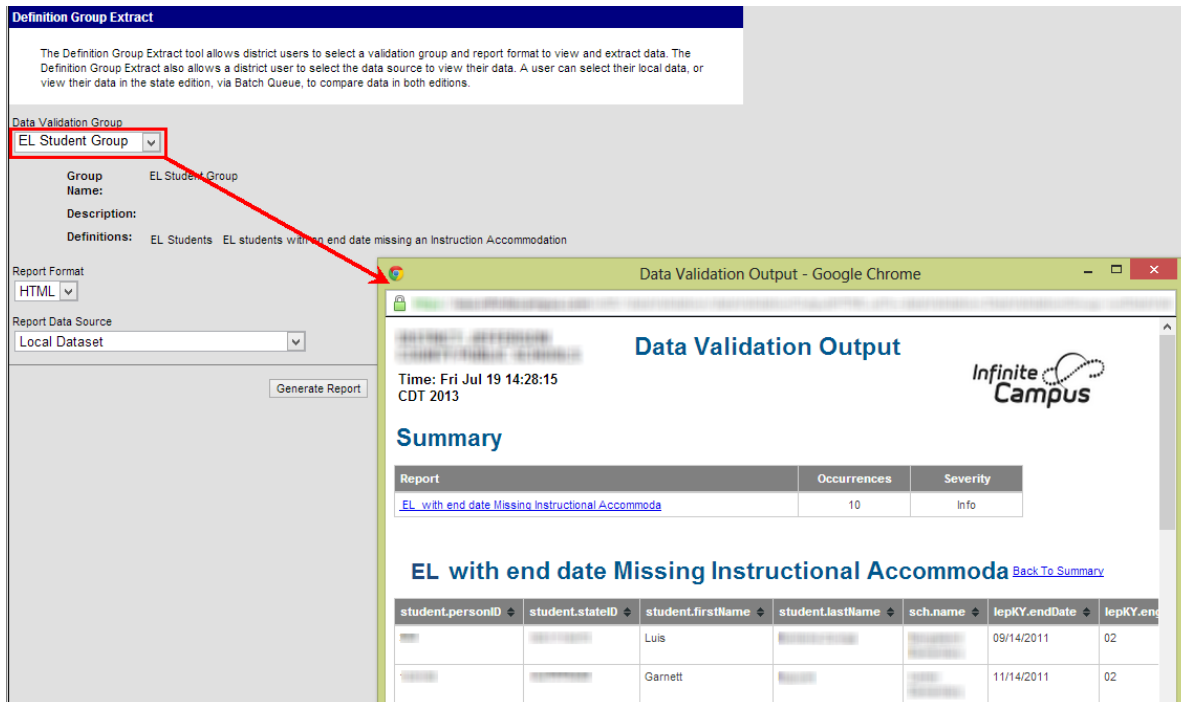
Definitions

Definition	Sequence	Severity
EL Students Show Description Preview	1	<input checked="" type="radio"/> Information <input type="radio"/> Warning <input type="radio"/> Fatal

Users can now use the definition within user-created definition groups

Once the definition has been added to a definition group, data for the definition group can be

reported via the Definition Group Extract. In the image below, the EL Student Group which contains the definition created in the image above is being reported.



Definition Group Extract

The Definition Group Extract tool allows district users to select a validation group and report format to view and extract data. The Definition Group Extract also allows a district user to select the data source to view their data. A user can select their local data, or view their data in the state edition, via Batch Queue, to compare data in both editions.

Data Validation Group: **EL Student Group**

Group Name: EL Student Group

Description:

Definitions: EL Students EL students with an end date missing an Instruction Accommodation

Report Format: HTML

Report Data Source: Local Dataset

[Generate Report](#)

Data Validation Output - Google Chrome

Time: Fri Jul 19 14:28:15 CDT 2013

Data Validation Output

Summary

Report	Occurrences	Severity
EL_with end date Missing Instructional Accommoda	10	Info

[EL with end date Missing Instructional Accommoda](#) [Back To Summary](#)

student.personID	student.stateID	student.firstName	student.lastName	sch.name	lepKY.endDate	lepKY.end
		Luis			09/14/2011	02
		Garnett			11/14/2011	02

Creating a Direct SQL Data Definition

Definitions can also be created using direct SQL as the source of identifying which data to report within the definition.

- Users can only do SELECT statements (update, insert, delete, drop, stored procedures, SQL injections, cursors, etc are not supported).
- SELECT * is not supported at this time. Users must select specific fields they wish to report.
- Column aliases are supported (e.g., SELECT scaleScore as Score).
- This functionality is intended for users who are familiar with Campus schema and proficient in SQL.

Users must have Direct SQL DV Definition tool rights in order to create a Direct SQL definition. See the [Tool Rights section](#) for more information.

Definition Bank

New

Data Validation Definition Search

Data Validation Definition Detail ✕

Source ☐ Ad Hoc ☒ **Direct SQL**

Name* Test SQL Definition

Description* A description of the definition should be entered here.

SQL*
*Note - SELECT * is not supported at this time, please select individual column names
 SELECT i.lastName, i.firstName, p.personID FROM [identity] i INNER JOIN person p ON i.personID = p.personID and i.identityID = p.currentIdentityID INNER JOIN enrollment e on p.personID = e.personID WHERE i.lastName like '%B%' and e.endyear = {selectedEndYear}

Parameters for SQL Query ?
 Add District Add Year

Tags test ✕

Archived ☐

Save Cancel

To create a new definition:

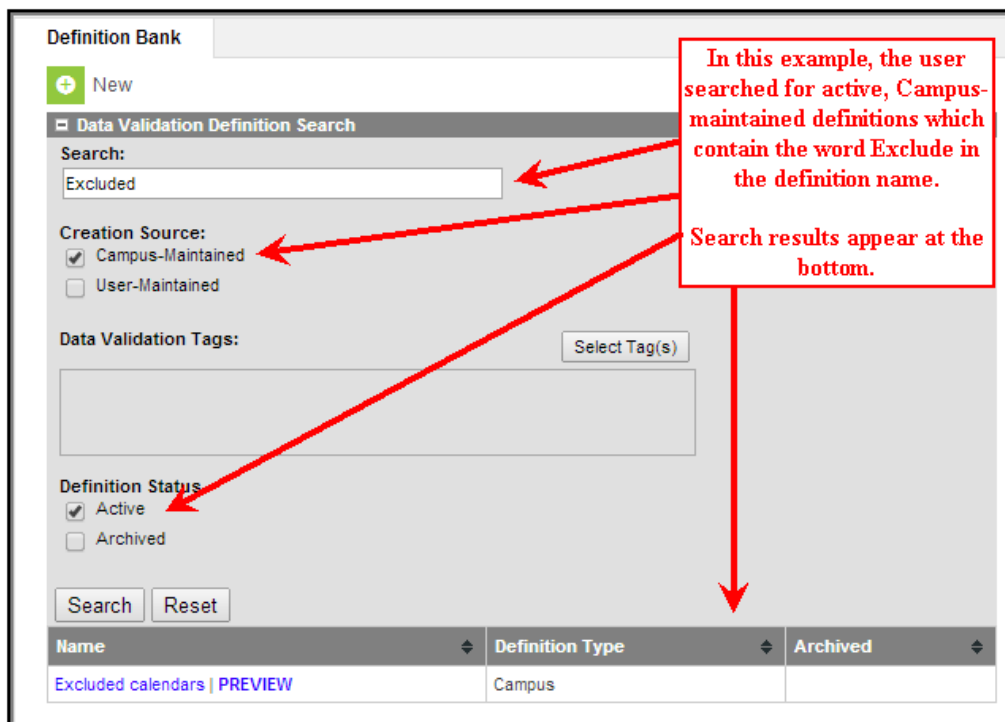
1. Select a **Source** of Direct SQL.
2. Enter the **Name** of the definition.
3. Enter a **Description** of the definition. This appears when viewing the definition within the Definition Bank and Definition Group tools.
4. Enter **SQL** if the SQL contains unsupported parameters you will be prevented from saving the definition.
5. Select the **Add District** button to add the reporting district within the definition (optional).
6. Select the **Add Year** button to add the reporting year within the definition (optional).
7. Enter any **Tags** (optional). Tags are used to easily search for and identify related definitions when creating definition groups.
8. Do not mark the **Archived** checkbox. This checkbox is used to archive (retire) existing definitions no longer to be used within definition groups.
9. Select the **Save** icon. The definition is now saved within Campus and can now be used within definition groups.

A timeout function is included which automatically checks to see if the SQL will cause poor system performance (e.g., due to a huge amount of results or the time it takes to generate results). If the SQL does not meet performance requirements, users will be notified and asked modify the query.

This check is done upon creation at the state or district level or when a state-published query is first received by a district via DIS.

Searching for Existing Data Validation Definitions

Existing definitions can be searched for and found by name, source, tag and status.



The screenshot shows the 'Definition Bank' search interface. It includes a 'Search:' field with the text 'Excluded'. Below this are 'Creation Source' options: 'Campus-Maintained' (checked) and 'User-Maintained' (unchecked). There is a 'Data Validation Tags:' section with a 'Select Tag(s)' button. Under 'Definition Status', 'Active' is checked and 'Archived' is unchecked. At the bottom are 'Search' and 'Reset' buttons. A table at the bottom shows search results with columns 'Name', 'Definition Type', and 'Archived'. The first result is 'Excluded calendars | PREVIEW' with 'Campus' as the Definition Type. Red callout boxes with arrows point to the search criteria and the results table.

Callout 1: In this example, the user searched for active, Campus-maintained definitions which contain the word Exclude in the definition name.

Callout 2: Search results appear at the bottom.

Field	Description
Search:	Allows you to search for existing definitions based on the the name of the definition (while also taking into account the Creation Source and Definition Status selected).
Creation Source	<p>Campus-Maintained - If selected, definitions created by and maintained by Campus appear in search results.</p> <p>User-Maintained - If selected, definitions created by and maintained by Campus users appear in search results.</p> <p>Users can search Campus-Maintained and User-Maintained definitions at the same time. The Definition Type column within search results will delineate whether the definition is Campus or User-maintained.</p>

Field	Description
Data Validation Tags	Allows you to search for definitions based on tags entered on definitions. For example, if you have tagged all EL-related definitions as EL, searching for a tag of EL will display search results for all definitions with that tag (while also taking into account the Creation Source and Definition Status).
Definition Status	Active - Allows you to narrow definition search results to those marked active. Archived - Allows you to narrow definition search results to those marked archived.

Archiving Data Validation Definitions

Definitions can be archived, meaning they can no longer be added to new definition groups.

The screenshot shows the 'Definition Bank' interface. A 'Data Validation Definition Search' panel is open, displaying the 'Data Validation Definition Detail' form. The form includes fields for Source (Ad Hoc selected), Name (EL Students), Description (EL students with an end date missing an Instruction Accommodation), Ad Hoc Filter (EL with end date Missing Instructional Accommoda), Tags (EL), and an Archived checkbox which is checked. A red arrow points from the 'Archived' checkbox to the 'Save' button. Below the form, a table lists search results, with 'EL Students' highlighted in a red box.

Name	Data	Data	Exclu
Grade Levels with no State Mapping PREVIEW	Campus		
EL Students PREVIEW	Ad Hoc		
Schools with no economically disadvantaged students PREVIEW	Campus		
Schools with no test scores PREVIEW	Campus		

To archive a definition:

1. Select the definition name within search results.
2. Mark the Archived checkbox.
3. Select the Save icon.

Once the definition is archived, an X will appear in the Archived column when searching for the definition within the Definition Bank tool (see Image 7).

Name	Definition Type	Archived
Kids missing scores PREVIEW	Direct SQL	
EL Students PREVIEW	Ad Hoc	<input checked="" type="checkbox"/>
Schools with no economically disadvantaged students PREVIEW	Campus	

Activating Archived Data Validation Definitions

Archived definitions can be made active by unmarking the **Archived** checkbox and selecting the **Save** button (see Image 8). The definition can now be used within new definition groups.

Data Validation Definition Detail

Source

Ad Hoc

Name*

(Read Only)

EL Students

Description*

(Read Only)

EL students with an end date missing an Instruction Accommodation

Ad Hoc Filter*

EL students with an end date missing an Instruction Accommodation

Tags

add a tag

Archived

☐

Save

Cancel

Next Steps

Once definitions have been created, users should:

- [Assign definitions to definition groups.](#)
- [Generate definition data within Definition Group Extracts.](#)