

Manage Data Validation Definitions

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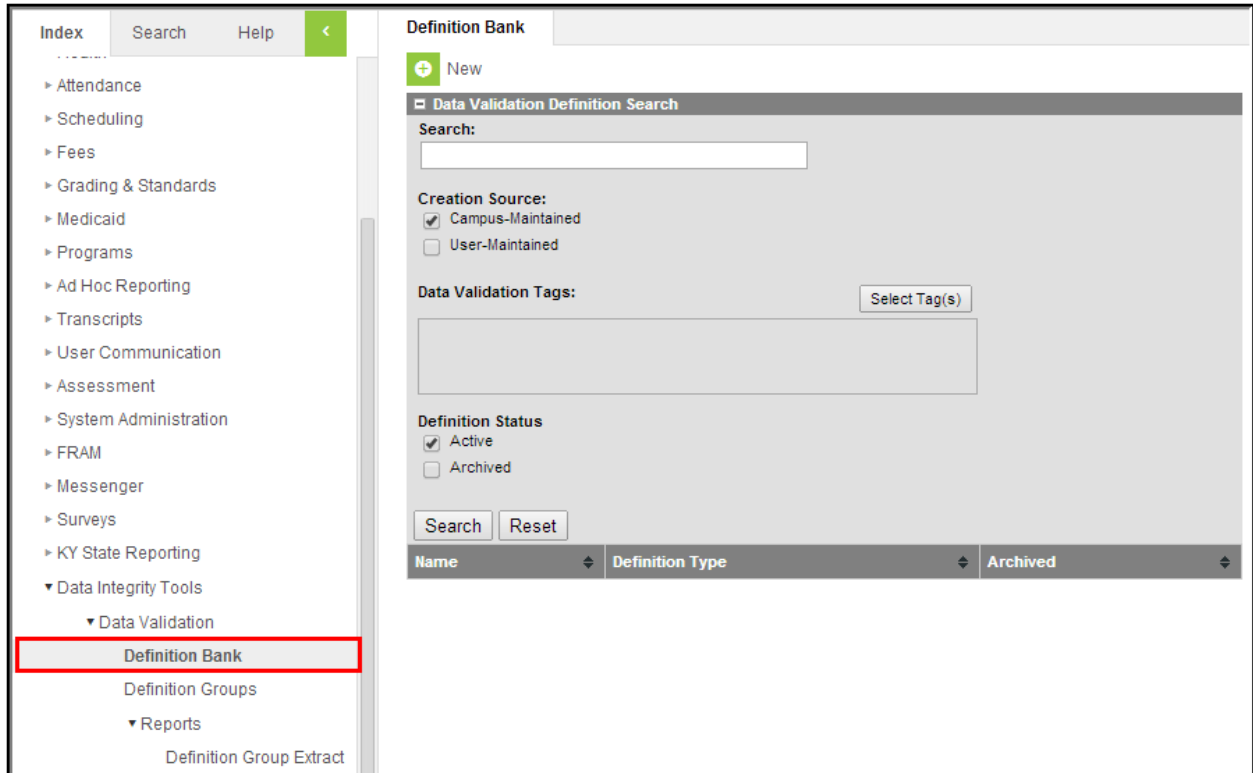
[Tool Rights](#) | [Creating a New Data Validation Definition](#) | [Searching for Existing Data Validation Definitions](#) | [Archiving Data Validation Definitions](#) | [Activating Archived Data Validation Definitions](#) | [Next Steps](#)

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.

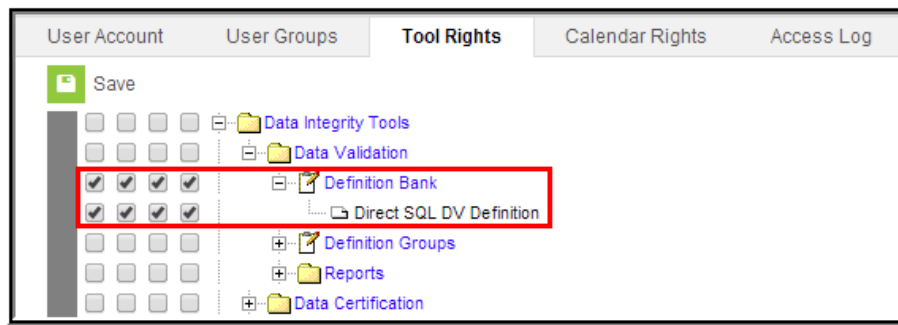
The Definition Bank tool is used to create and manage definitions used within Definition Groups and report data within Definition Group Extracts. Definitions are specific parameters used for filtering and reporting specific data. These definitions are grouped together in Definition Groups which are used 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' tool interface. On the left, a navigation menu lists various tools, with 'Definition Bank' highlighted under the 'Data Validation Tools' section. The main interface features a 'New' button, a search bar, and several filter options: 'Creation Source' (with checkboxes for 'Campus-Maintained' and 'User-Maintained'), 'Data Validation Tags' (with a 'Select Tag(s)' button), and 'Definition Status' (with checkboxes for 'Active' and 'Archived'). Below these filters, there is a table with columns for '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.

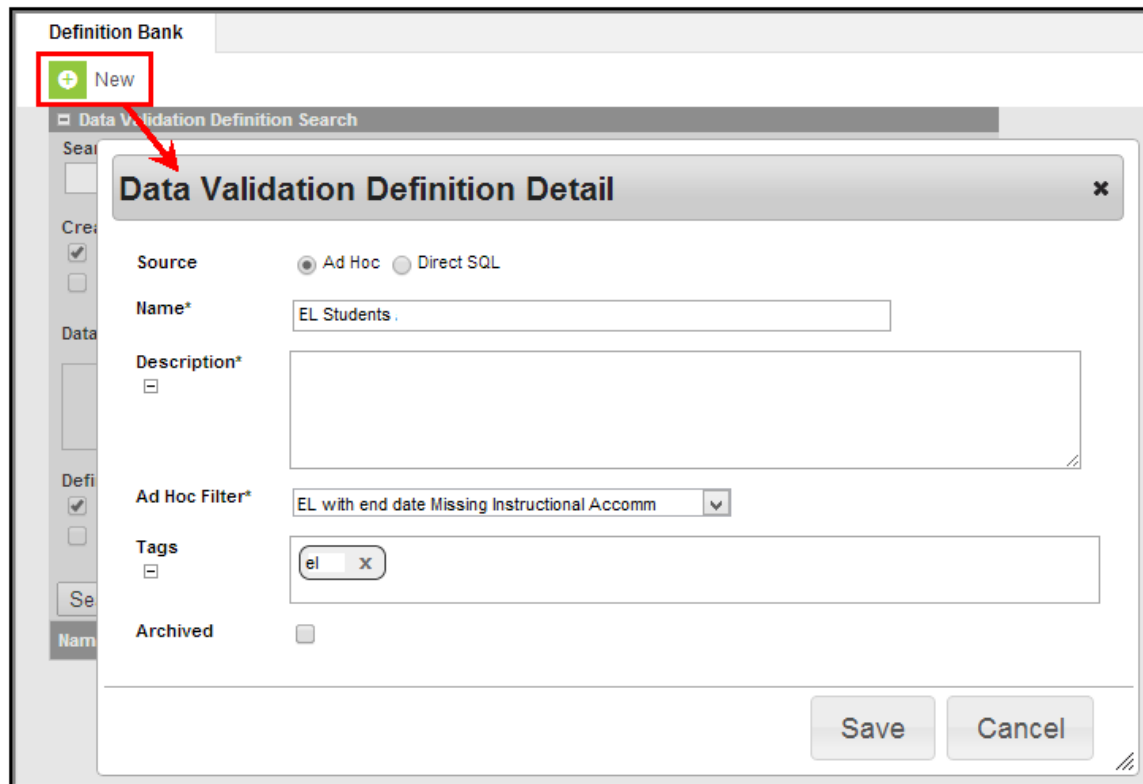
If a definition is created that contains fields or data not available at the district level, any definition groups that include this definition will not be allowed to be published down to districts.

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' application window. A red box highlights the 'New' button (a green circle with a plus sign) in the top-left corner. A red arrow points from this button to the 'Data Validation Definition Detail' dialog box. The dialog box contains the following fields:

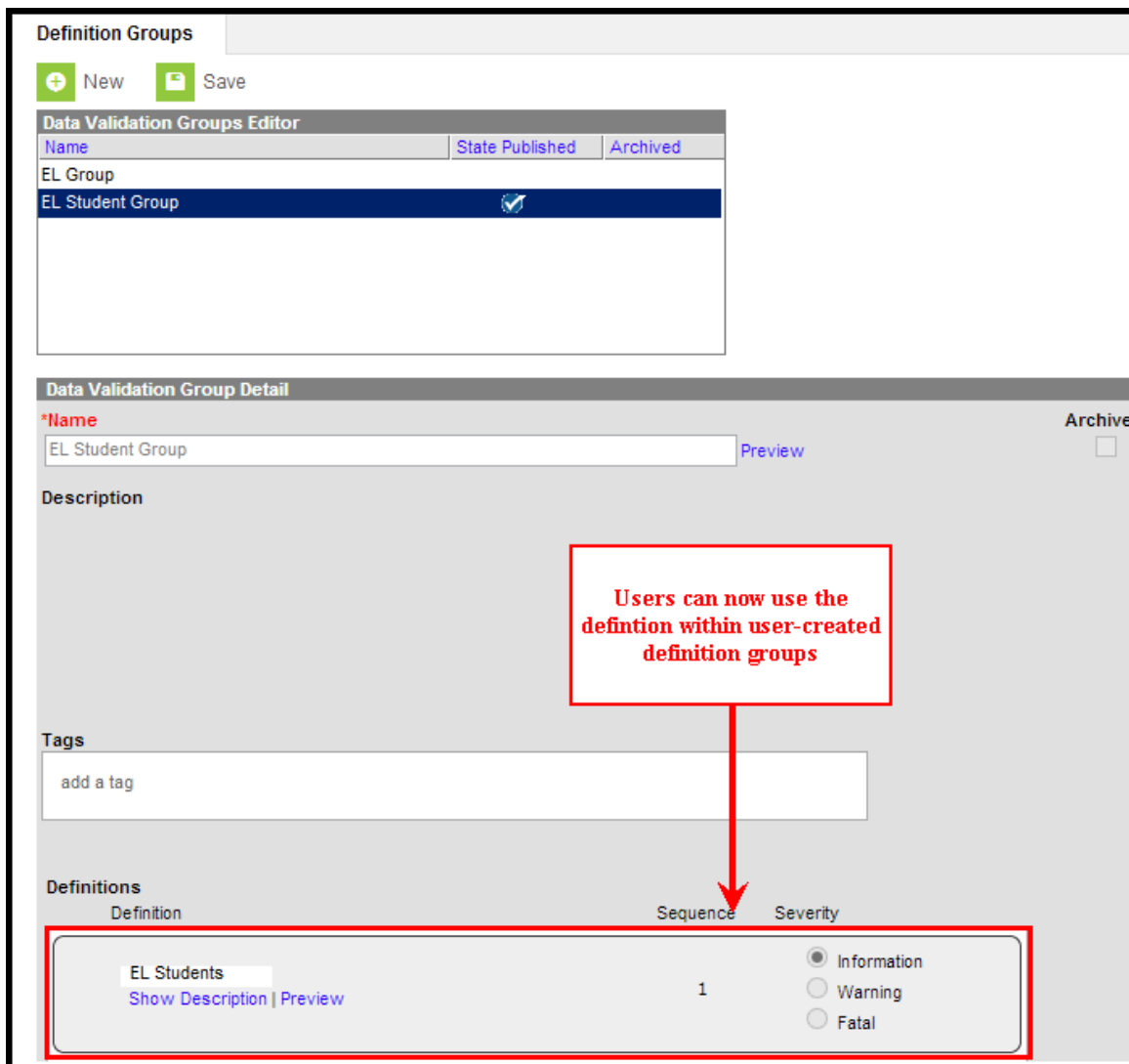
- Source:** Radio buttons for 'Ad Hoc' (selected) and 'Direct SQL'.
- Name*:** Text input field containing 'EL Students'.
- Description*:** Text area with a collapse icon.
- Ad Hoc Filter*:** Dropdown menu showing 'EL with end date Missing Instructional Accom'.
- Tags:** Text input field containing 'el' and an 'x' icon.
- Archived:** Check box (unchecked).

At the bottom right of the dialog box 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](#)

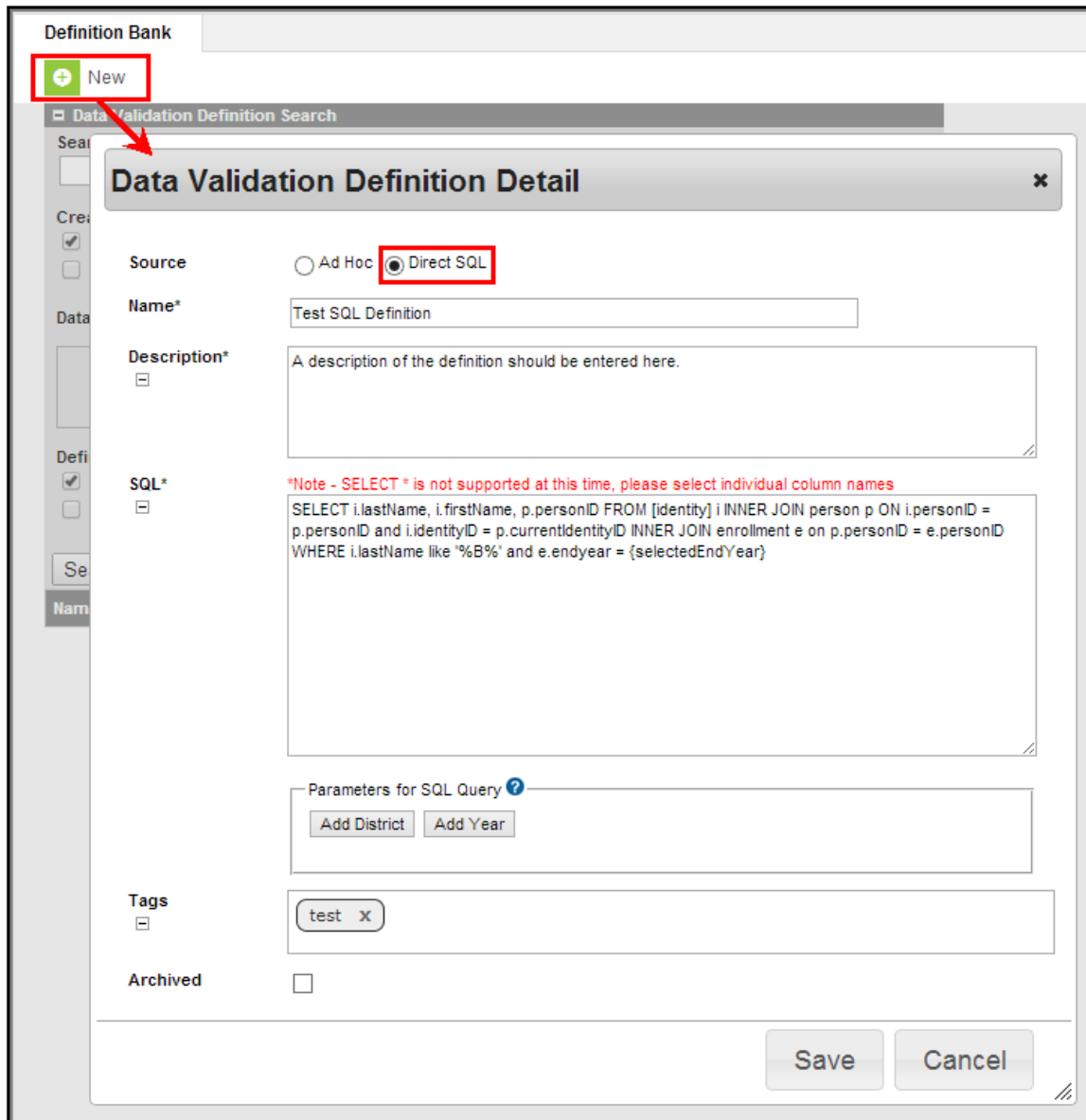
student.personID	student.stateID	student.firstName	student.lastName	sch.name	lepKY.endDate	lepKY.en
		Luis			09/14/2011	02
		Garnett			11/14/2011	02

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.



The screenshot shows the 'Definition Bank' interface with a 'New' button highlighted in a red box. A red arrow points from the 'New' button to the 'Data Validation Definition Detail' form. The form has the following fields and options:

- Source:** Radio buttons for 'Ad Hoc' and 'Direct SQL'. 'Direct SQL' is selected and highlighted with a red box.
- Name*:** Text input field containing 'Test SQL Definition'.
- Description*:** Text area with placeholder text: 'A description of the definition should be entered here.'
- SQL*:** Text area containing a SQL query. Above the query is a red note: '*Note - SELECT * is not supported at this time, please select individual column names'. The query is:


```
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:** A section with two buttons: 'Add District' and 'Add Year'.
- Tags:** A text input field containing 'test' and a close button 'x'.
- Archived:** A checkbox that is currently unchecked.
- Buttons:** 'Save' and 'Cancel' buttons at the bottom right.

To create a new definition:

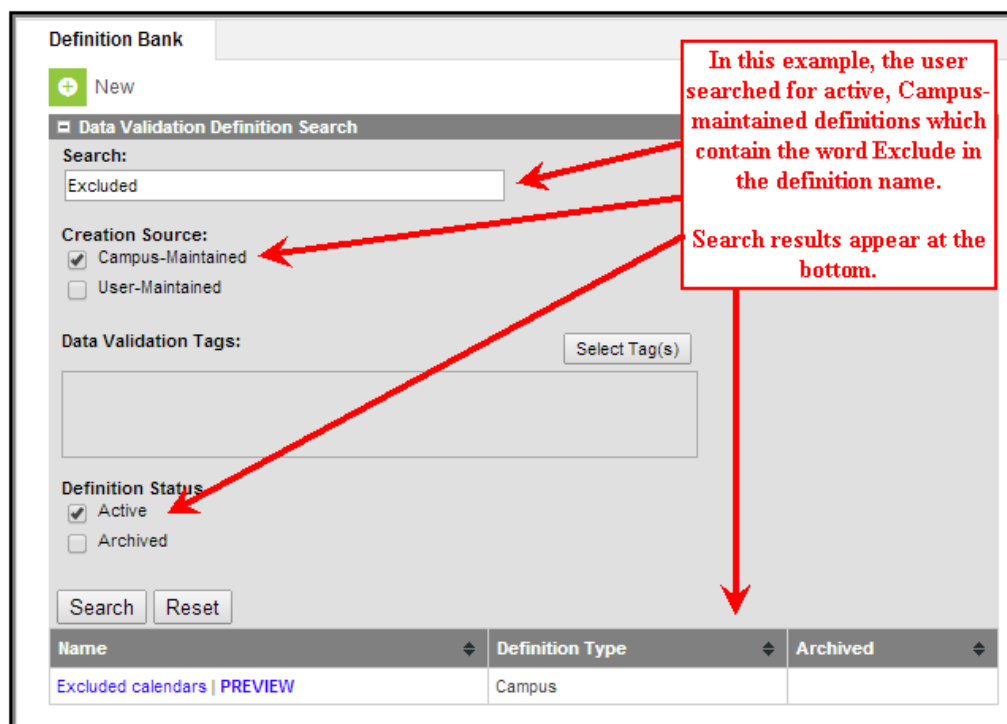
1. Select a **Source** of Direct SQL.
2. Enter the **Name** of the definition.
3. Enter a **Description** of the definition. This appears when viewing the definition within the Definition Bank and Definition Group tools.
4. Enter **SQL** if the SQL contains unsupported parameters you will be prevented 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 'New' button, a 'Data Validation Definition Search' section with a 'Search:' field containing 'Excluded', 'Creation Source' with 'Campus-Maintained' selected, 'Data Validation Tags' with a 'Select Tag(s)' button, and 'Definition Status' with 'Active' selected. Below these 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.

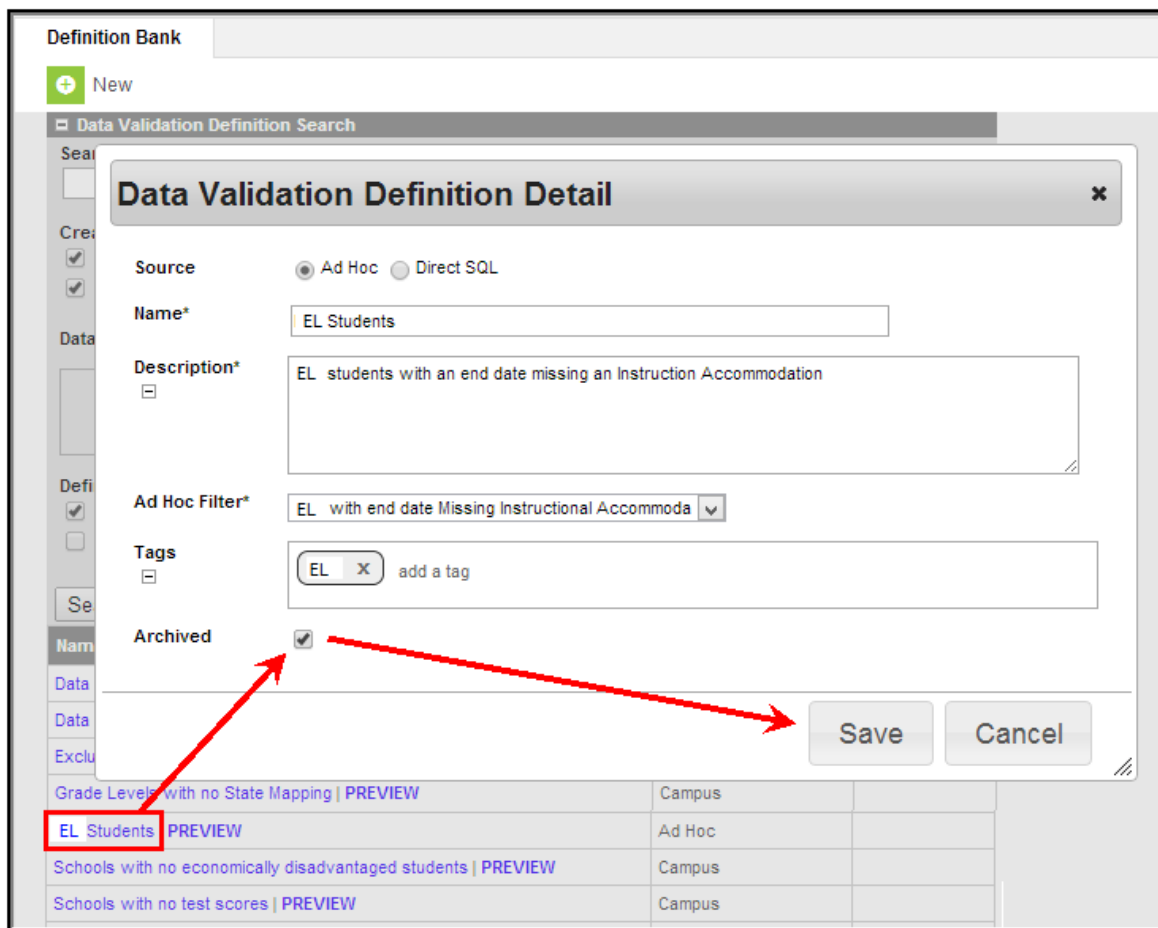
Callout 2: Search results appear at the bottom.

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.



Definition Bank

Data Validation Definition Search

Data Validation Definition Detail

Source: ☒ Ad Hoc ☐ Direct SQL

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 X add a tag

Archived: ☒

Save Cancel

Name	Preview	Campus
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.](#)