

# Validation Rules

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Tool Search: Validation Rules

The Validation Rules tool is used to create and manage rules used within Validation Groups and report data within the Data Validation Report. Validation Rules, which operate based on the chosen end year and calendar, are reusable queries used for filtering and reporting specific data. These rules are grouped together in Validation Groups which are used to report data for each rule in the group within the same report.

## Tool Access

Full Access is available to State Editions and District Editions that have purchased the [Campus Data Suite](#), which is available for self-hosted and Cloud Choice hosted Districts.

Restricted Access is available to all other District Editions.

### Restricted Access

By default, all District Edition customers have full access to the Data Validation Report but restricted access to the following Data Validation admin tools:

- Stored Procedure Setup
- Validation Rules
- Validation Groups

Customers with restricted access are only able to tag Validation Rules and assign Tool Right User Groups to Validation Groups, the latter of which controls Validation Group availability for reporting in the Data Validation Report editor. Validation Rules and Validation Groups will only be available directly from Infinite Campus or State Edition via DIS publishing.

### Full Access

Full access to the Data Validation admin tools, which allows for local indexing of Stored Procedures and creation/maintenance of Validation Rules and Groups, is available through Campus Data Suite.

Full access is limited to Data Validation admin tool items created in the local database. For example, District Edition customers have full access to District-owned Validation Rules created locally but restricted access to System-owned Validation Rules delivered by Infinite Campus.

Validation Rules

Name ↑	Tag	Published	Owner	Status
				Active
7-8 DROPOUT List	DIS	PUBLISHED	STATE	ACTIVE
7-8 DROPOUT Reenrolled		PUBLISHED	STATE	ACTIVE
9-12 DROPOUT Count		PUBLISHED	STATE	ACTIVE
9-12 DROPOUT List		PUBLISHED	STATE	ACTIVE
9-12 DROPOUT Re-enrolled		PUBLISHED	STATE	ACTIVE
A_AA		NOT PUBLISHED	STATE	ACTIVE
Ad Hoc Context Test		NOT PUBLISHED	STATE	ACTIVE
ADA	Test DIS, zoom	UNPUBLISHED CHANGES	STATE	ACTIVE
ALL Homeless - Current Homeless		PUBLISHED	STATE	ACTIVE
ALL Homeless - NOT Homeless but has Night Time Residence	OPI, zoom	UNPUBLISHED CHANGES	STATE	ACTIVE

1 - 20 of 95 items

New

See the [Data Validation Tool Rights](#) article to learn about the rights needed to use this and other Data Validation tools.

## Preloaded Validation Rules

Five rules are included in the base/non-paid version of Validation Rules:

- Active students not in a household
- Households with more than 1 primary mailing address
- Students who have no birth date
- Students who have the same student number
- Transcripts with no GPA value

Validation Rules

Name ↑	Tag	Owner	Status
			Active
Active students not in a household		SYSTEM	ACTIVE
Households with more than 1 primary mailing address		SYSTEM	ACTIVE
Students who have no birth date		SYSTEM	ACTIVE
Students who have the same student number		SYSTEM	ACTIVE
Transcripts with no GPA value		SYSTEM	ACTIVE

# Creating a New Validation Rule

Users can create Validation Rules which filter and report data based on Ad hoc filters, Direct SQL, or Stored Procedures. These rules are then put into Validation Groups which are used to report subsets of data within a single Data Validation Report.

**District Edition Users:** Rules created at the district level are maintained and reported only within the district which created the rule.

**State Edition Users:** Rules created at the state level are maintained by the state. These Rules are not published down to districts however, definitions created at the state which are included within published validation groups are published down within the validation group and are read-only in the district-level Validation Group tool.

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

When publishing a Validation Rule from State Edition to District Edition, logic looks to see if the Validation Group and Validation Rule 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 Validation Rule and Group do not have the same name as a state-owned Validation Rule and Group.

Validation Rule Detail

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**Name \***  Archived

❗ Name is required

**Description \***

**Baseline**

Select a rule... ▼

**Source**

Ad Hoc Filter  
 Direct SQL  
 Stored Procedure

**Ad Hoc Filter \***

▼

**Tags**

Add a tag...

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## Validation Rule Detail Editor

Field	Description
<b>Name</b>	The Name of the Validation Rule. The Name cannot match the the Name of an existing Rule from the same owner.
<b>Archived</b>	If marked, the Rule cannot be added to a Validation Group. This does not affect Validation Groups previously set up.
<b>Description</b>	User-defined description. This description displays in the Validation Group Detail editor.
<b>Baseline</b>	Allows the user to select an existing Validation Rule to run the current Validation Rule against. The results of the Baseline Rule will be reported in the Total column of the report; it will also affect the Rate column which is calculated by dividing the current Validation Rule by the Baseline Rule.
<b>Source</b>	<b>Ad Hoc</b> <ul style="list-style-type: none"> <li>Allows the user to select an Ad Hoc filter for the Rule. <ul style="list-style-type: none"> <li>Only Student based Ad Hoc filters are allowed.</li> </ul> </li> <li>If the Ad Hoc filter is not published, the Rule will be flagged as State Edition Only.</li> <li>State Edition Only Rules will block Validation Groups from being Published to District Editions.</li> </ul>
	<b>Direct SQL</b> <ul style="list-style-type: none"> <li>Allows the user to create a Rule based on Direct SQL.</li> <li>The Direct SQL option is limited to SELECT statements only. Complex SELECT statements are supported.</li> <li>The following SQL Parameters may be added to the Direct SQL textbox. These parameters are sensitive to the selections in the Campus Toolbar: <ul style="list-style-type: none"> <li>District</li> <li>Year</li> <li>School</li> <li>Calendar</li> </ul> </li> </ul>
	<b>Stored Procedure</b> <ul style="list-style-type: none"> <li>Allows the user to select a Stored Procedure for the Rule.</li> <li>The user is allowed to define how parameters from the Stored Procedure ought to behave.</li> </ul>
<b>Tags</b>	Allows the user to create or select tags. Tags make searching for Rules easier.
<b>Save &amp; Stay</b>	The rule is saved and the user stays on the current page.
<b>Cancel</b>	Returns the user to the Validation Rules Master page. The Rule is not saved.
<b>Delete</b>	Deletes the Validation Rule Detail and returns the user to the Validation Rules Master.
<b>Preview</b>	Generates a real-time HTML report of the Validation Rule.

Field	Description
<b>Publish</b>	<p>Pushes the Rule to all District Editions linked via DIS. When configuring a validation rule using Direct SQL or Stored Procedure as the data source, the {selectedDistrict} parameter <b>must be used</b> in a filter to enable districts to execute the query against the state dataset. Failing to properly use the {SelectedDistrict} parameter to restrict output will result in state edition data for all districts to be returned to any district that runs this query.</p> <p style="background-color: #fff9c4; padding: 5px;">For State Editions only.</p>

## Create a Validation Rule via Ad Hoc Filter

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

Ad Hoc Filters need to be published or else they will be State Edition Only.

Validation Rule Detail

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Published

**Name \***  **Archived**

**Description \***

Students currently marked as homeless

**Baseline**

Select a rule... ▼

**Source**

Ad Hoc Filter  
 Direct SQL  
 Stored Procedure

**Ad Hoc Filter \***

GRADUATE Excluded as Foreign Exchange ▼

**Tags**

Add a tag...

Save & Stay
Cancel
Delete
Preview
Publish

### To create a new Validation Rule:

1. Click **New**.
2. Enter the **Name** of the definition.

3. Enter a **Description** of the definition. This appears when viewing the definition within the Validation Rules and [Validation Group](#) tools.
4. Select a **Baseline** rule if desired.
5. Select a **Source** of Ad Hoc.
6. Select an **Ad Hoc Filter**. This filter will determine which data is pulled within the definition and reported within validation group. Ad hoc filters are created within the [Filter Designer](#) tool.
7. Enter any **Tags** (optional). Tags are used to easier search for and identify related definitions when creating Validation Groups.
8. A **Preview** of the Rule can be viewed by selecting **Preview**.
9. Select the **Save & Stay**. The definition is now saved within Campus and can now be used within Validation Groups.

Once the rule has been created it can be used within Validation Groups. Once the rule has been added to a Validation Group, data for the Validation Group can be reported via the Data Validation Report.

## Create a Validation Rule via Direct SQL

Validation Rules can also be created using direct SQL as the source of identifying which data to report within the rule.

- 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.

Validation Rule Detail

Published

Name \*  Archived

Description \*

Baseline

Source  Ad Hoc Filter  Direct SQL  Stored Procedure

SQL Query \* 

```
1 SELECT
2 d.number AS LE,
3 d.name AS District,
4 sc.number AS SC,
5 s.calendarname AS 'School Calendar',
6 s.stateID AS 'State ID',
7 s.lastname AS 'Last Name',
```

Add SQL Parameters

Tags

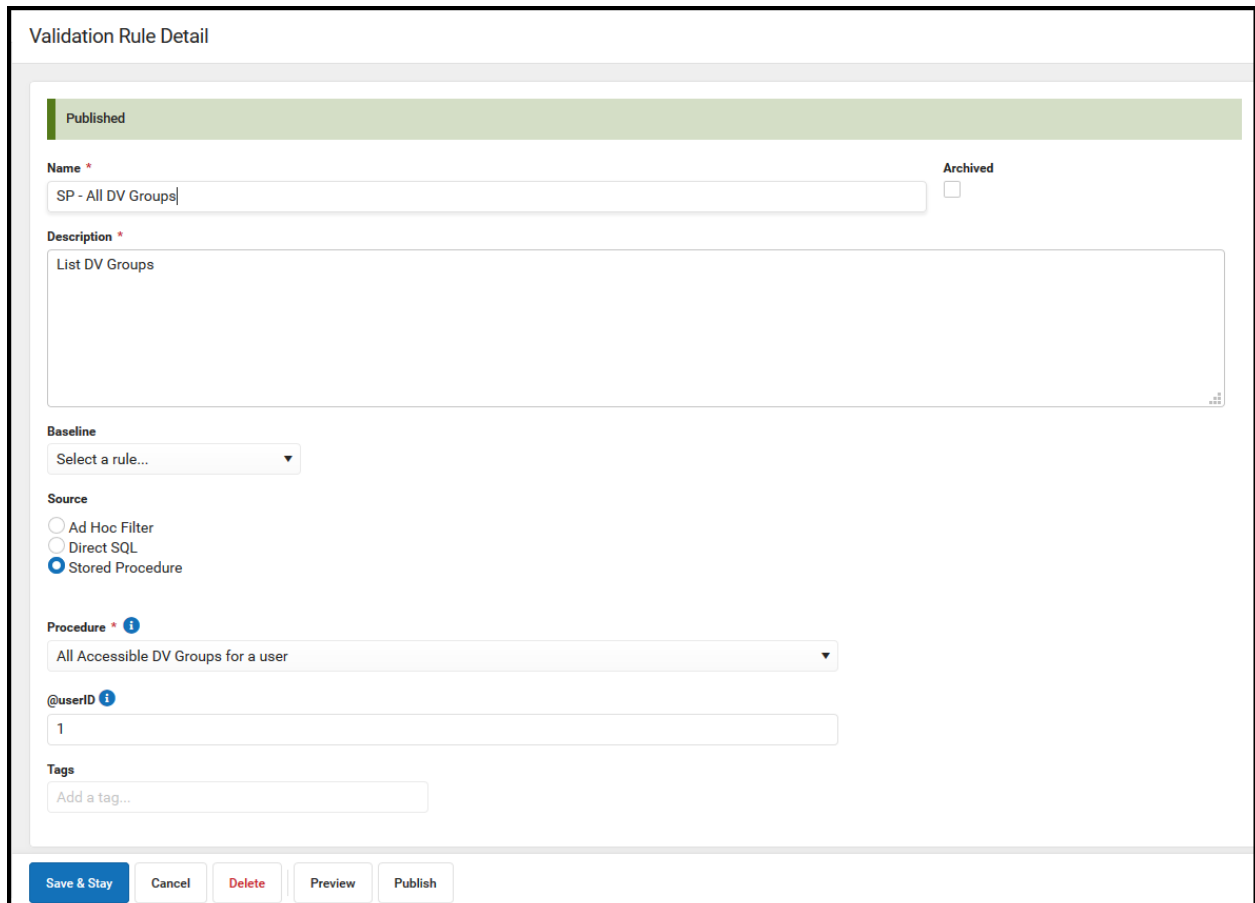
### To create a new Validation Rule using Direct SQL:

1. Select **New**.
2. Enter the **Name** of the rule
3. Enter a **Description** of the rule. This appears when viewing the definition within the Validation Rules and Validation Group tools.
4. Select a **Baseline Rule** if necessary (optional).
5. Select a **Source** of Direct SQL.
6. Enter **SQL Query**. If the SQL contains unsupported parameters you will be prevented from saving the rule.
7. Select the **District** button to add the reporting district within the rule (optional).
8. Select the **Year** button to add the reporting year within the rule (optional).
9. Select the **School** button to add the reporting school within the rule (optional).
10. Select the **Calendar** button to add the reporting calendar within the rule (optional).
11. Enter any **Tags** (optional). Tags are used to easily search for and identify related definitions when creating Validation Groups.
12. A **Preview** of the Rule can be generated is desired.
13. Select the **Save + Stay**. The definition is now saved within Campus and can now be used within Validation Groups.

A timeout function is included which aborts the query if it ever surpasses the database timeout limit, which is set to 20 seconds (intentionally). This timeout should not be changed. If there is an issue with the query timing out, submit it to the Batch Queue.

## Create a Validation Rule via Stored Procedure

Validation Rules can also be created using a previously created Stored Procedure.



The screenshot shows the 'Validation Rule Detail' form with the following fields and values:

- Published:** A green bar at the top of the form.
- Name \*:** Text input field containing 'SP - All DV Groups|'. An 'Archived' checkbox is to the right.
- Description \*:** Text area containing 'List DV Groups'.
- Baseline:** Dropdown menu with 'Select a rule...' selected.
- Source:** Radio buttons for 'Ad Hoc Filter', 'Direct SQL', and 'Stored Procedure' (which is selected).
- Procedure \*:** Dropdown menu with 'All Accessible DV Groups for a user' selected.
- @userID:** Text input field containing '1'.
- Tags:** Text input field with 'Add a tag...' placeholder.
- Buttons:** 'Save & Stay', 'Cancel', 'Delete', 'Preview', and 'Publish' at the bottom.

### To create a new Validation Rule using a Stored Procedure:

1. Select **New**.
2. Enter the **Name** of the rule
3. Enter a **Description** of the rule. This appears when viewing the definition within the Validation Rules and Validation Group tools.
4. Select a **Baseline Rule if necessary** (optional).
5. Select a **Source** of Stored Procedure.
6. Select the **Procedure** that is being used for the Rule.
7. Enter the parameters that will be used for the Stored Procedure.
8. Enter any **Tags** (optional). Tags are used to easily search for and identify related rules when creating Validation Groups.
9. A **Preview** of the Rule can be generated is desired.

10. Select the **Save + Stay**. The Rule is now saved within Campus and displays within the Validation Groups editor.

## Publishing Validation Rules (State Edition Only)

State Edition users can publish validation rules down to all DIS-link districts.

To publish to districts, select a state-owned Validation Rule and select **Publish**. A message confirming the publishing action will appear.

Once the Validation Rule has been published down to districts, it will be available for use within the Validation Groups tool.

The screenshot shows the 'Validation Rules' configuration page. At the top, there is a breadcrumb trail: 'Reporting > Data Validation > Validation Rules'. Below this, a green bar indicates the rule is 'Published'. The form includes the following fields and options:

- Name \***: A text input field containing 'Gifted and Talented Students with categories'.
- Archived**: A checkbox that is currently unchecked.
- Description \***: A text area containing 'List of Gifted and Talented Students and their gifted categories'.
- Baseline**: A dropdown menu with the text 'Select a rule...'.
- Source**: Three radio button options: 'Ad Hoc Filter', 'Direct SQL' (which is selected), and 'Stored Procedure'.
- SQL Query \***: A code editor containing the following SQL query:
 

```
1 SELECT Distinct
2   sc.name as 'School Name'
3   ,st.stateID as 'SSID'
4   ,st.stateGrade as 'Grade'
```

At the bottom of the form, there are five buttons: 'Save & Stay' (blue), 'Cancel', 'Delete', 'Preview', and 'Publish' (highlighted with a red border).

## Searching for Existing Validation Rules

Existing rules can be searched for and found by name, tag, Published, owner, and status.

Validation Rules

Name ↑	Tag	Published	Owner	Status
				Active
7-8 DROPOUT List	DIS	PUBLISHED	STATE	ACTIVE
7-8 DROPOUT Reenrolled		PUBLISHED	STATE	ACTIVE
9-12 DROPOUT Count		PUBLISHED	STATE	ACTIVE
9-12 DROPOUT List		PUBLISHED	STATE	ACTIVE
9-12 DROPOUT Re-enrolled		PUBLISHED	STATE	ACTIVE
A_AA		NOT PUBLISHED	STATE	ACTIVE
Ad Hoc Context Test		NOT PUBLISHED	STATE	ACTIVE
ADA	Test DIS, zoom	UNPUBLISHED CHANGES	STATE	ACTIVE
ALL Homeless - Current Homeless		PUBLISHED	STATE	ACTIVE
ALL Homeless - NOT Homeless but has Night Time Residence	OPI, zoom	UNPUBLISHED CHANGES	STATE	ACTIVE

1 - 20 of 95 items

New

Field	Description
<b>Name</b>	Allows users to search for existing rules based on the name of the rule.
<b>Tag</b>	Allows users to search for rules based on tags entered on definitions. For example, if you have tagged all EL-related rules as EL, searching for a tag of EL will display search results for all rules with that tag.
<b>Published</b>	Allows users to search for existing rules based on the status of the rule. <ul style="list-style-type: none"> <li>• <b>Published</b> - Validation Rules that have been published by the state appear in search results.</li> <li>• <b>Unpublished Changes</b> - Validation Rules that have been edited but not published appear in search results.</li> <li>• <b>Not Published</b> - Validation Rules that have not been published appear in search results.</li> <li>• <b>Published Failed</b> - Validation Rules which did not publish correctly appear in the search results.</li> <li>• <b>Unknown</b> - Status of the Validation Rule is not known.</li> </ul>
<b>Owner</b>	Allows users to search for existing rules based on the owner of the rule. Options are State, District, or System.
<b>Status</b>	Allows users to search for existing rules based on the status of the rule. <ul style="list-style-type: none"> <li>• <b>Active</b> - Only Active rules appear in search results.</li> <li>• <b>Archived</b> - Only Archived rules appear in search results.</li> </ul>

## Next Steps

Once Validation Rules have been created, users should:

- [Assign Rules to Validation Groups.](#)
  - [Generate data within Data Validation Report.](#)
-