

# Access Filters

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## Overview

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Access Filters are used to restrict data based on the user running a report. A manager may only be allowed to see employee details from his or her own department, for example. Access Filters match users within Yellowfin to an arbitrary Reference Id. The Reference Id for the user can then be used as a filter when they run reports.

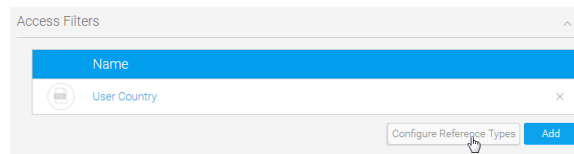
The steps for setting up Access Filters are:

1. Create an Access Filter on the data source
2. Assign the Access Filter to a field on a view
3. Define a default Access Filter on the view
4. Assign an Access Filter to a report

## Configure Reference Types

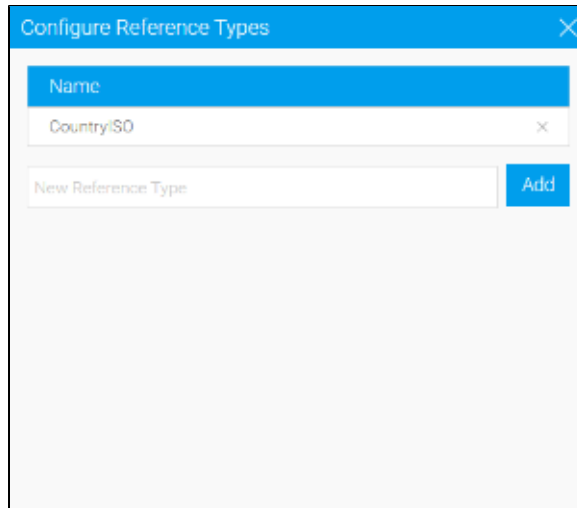
Each source filter that you create needs to be categorised by a reference type. This is used to link the data in your source system with Yellowfin meta-data. It also provides a way to categorise the type of filters that you can make available for your views.

1. Click on the **Configure Reference Types** button at the bottom of the access filter list.



2. Type a name for your reference type and click the **Add** button. Alternatively, click on the **x** next to an existing reference type to delete it.

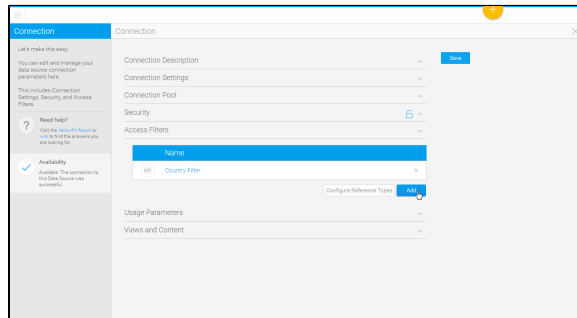
**Note:** If you wish to delete a filter type then from the edit popup select a type and click the delete link. You will be prompted to click OK to save your changes. If you delete a type which is in use this may impact your reporting filter process.



## Create an Access Filter

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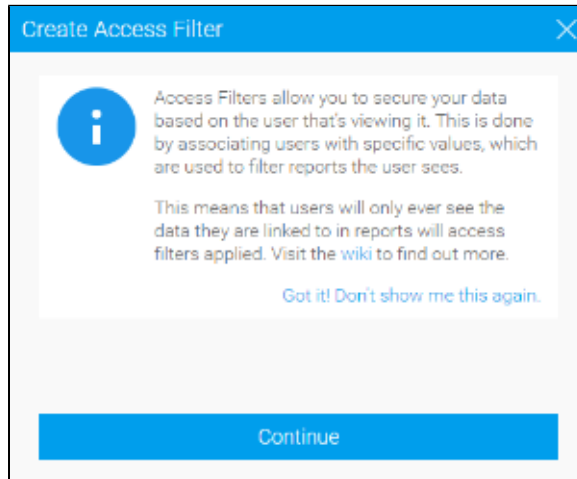
1. Open the Access Filters section on the connection details page.
2. Click the **Add** button in order to create a new **Access Filter**.



If this is the first time you have created an access filter, you may be shown this message, which provides you with some information on how access filters work.

Click on the **Got it! Don't show me this again** link in order to continue and not be shown this message the next time you set up an access filter.

Click **Continue** to create an access filter and ensure you see this message next time.

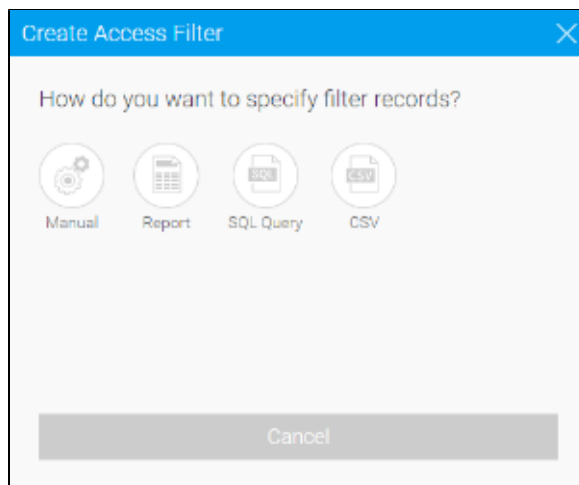


3. You will now need to specify which method to use when sourcing access filter records. The following options are available:

- **Manual** - this allows you to manually provide the access filter pairings, relying on you to maintain the records manually

over time. Generally this option is reserved for initial trials of access filters before moving to one of the alternative methods below.

- **Report** - this allows you to use the results of a report as the records of your access filter. You will need to have a report enabled for use in this way.
- **SQL Query** - this allows you to run an SQL query which returns the records for your access filter.
- **CSV** - this allows you to upload a CSV file to use as the records of your access filter.



## Filter Parameters

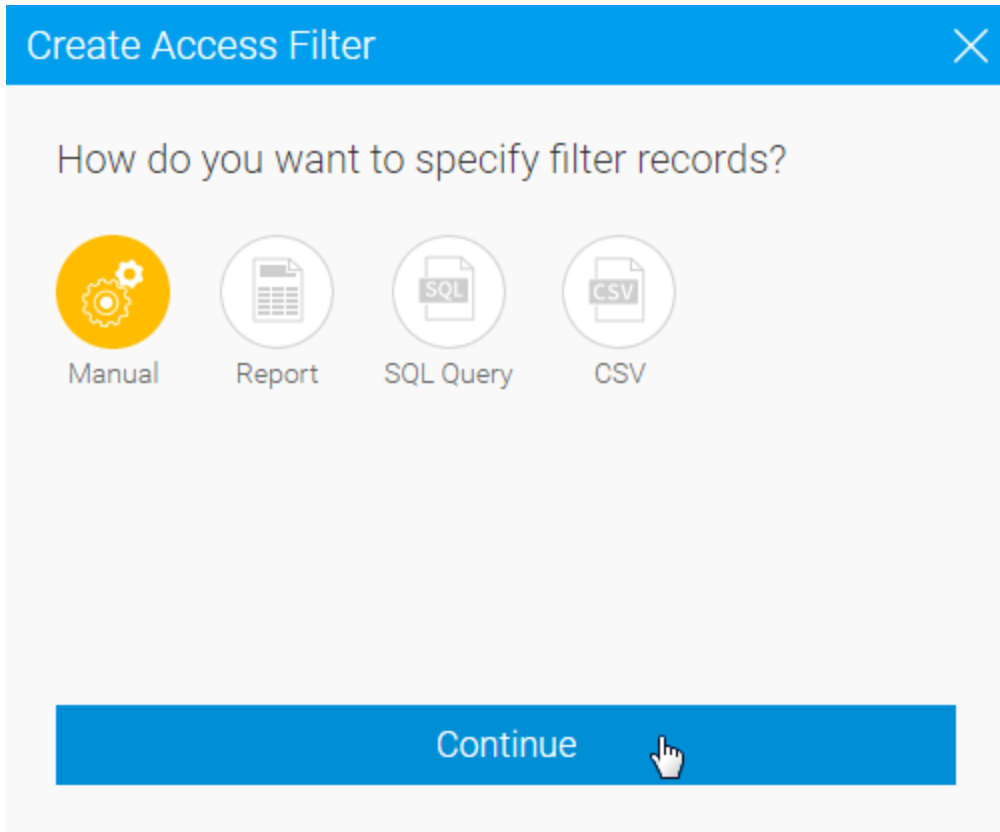
Each Access Filter contains a list of one or more records matching a Yellowfin user to a Reference Id. These can be loaded into the system in three ways: manual entry, from a CSV file, or by running a scheduled query on the source database.

In each case you will need to enter records consisting of four fields (in this order):

Identifier Type	Identifier	Filter Type	Reference ID
<p>The Identifier Type and Identifier are used to identify a Yellowfin user.</p> <p>The Identifier Type can be either</p> <ul style="list-style-type: none"> <li>• "Email Address",</li> <li>• "Yellowfin Person ID", or</li> <li>• "User ID".</li> </ul> <p>The user id related to the user id used within Yellowfin.</p>	<p>The Identifier field will then be the corresponding user id.</p>	<p>The Filter Type field is used to determine what type of filter this is. This is critical to assist users when creating views or reports. Select a user friendly type name.</p> <p>To add or delete Filter Types, click the <b>Configure Reference Types</b> button on the Connection page.</p>	<p>The Reference Id field is the corresponding data for the matching user.</p>

## Manual Access Filters

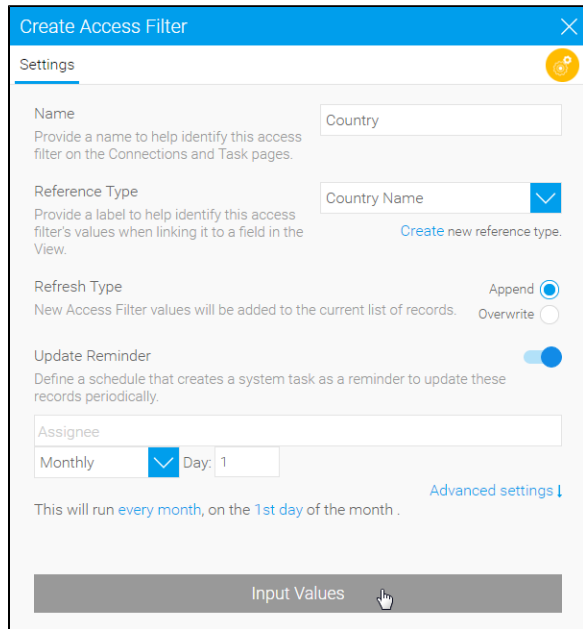
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## Settings

Complete the settings step in order to define how the access filter records will be sourced and updated.

Setting	Description
<b>Name</b>	Provide a name to help identify this access filter on the Connections and Task pages.
<b>Reference Type</b>	Provide a label to help identify this access filter's values when linking it to a field in the view. See the <a href="#">Configure Reference Types</a> section for more information.
<b>Refresh Type</b>	You will have two refresh options: <ul style="list-style-type: none"> <li><b>Append:</b> new access filter records will be added to the current list of records.</li> <li><b>Overwrite:</b> new access filter records will replace the current list of records.</li> </ul>
<b>Update Reminder</b>	Define a schedule that creates a system task as a reminder to update these records periodically.



## User

Search for the user you wish to assign a value to, selecting their name from the list.

## Value

You will now be able to define the value to be associated with each user. You can only have one value per row, so if you want a user to have multiple values you will need to add their name multiple times.

Create Access Filter

Settings **Input Values** Records Usage

Search

- Jessica Flower
- Mr Administrator
- Sammy Jones
- Teresa Pringle**
- Violet Southgate

People

Submit

Create Access Filter

Settings **Input Values** Records Usage

Teresa Pringle	Australia
----------------	-----------

Search

Submit

## Records

You will now be able to view all the records loaded into your Access Filter.

Create Access Filter

Settings Input Values **Records** Usage

Name	Reference Type	Reference Id
Teresa Pringle	Country Name	Australia

## Usage

You will be able to see a usage count to help identify how and when your Access Filter is used.

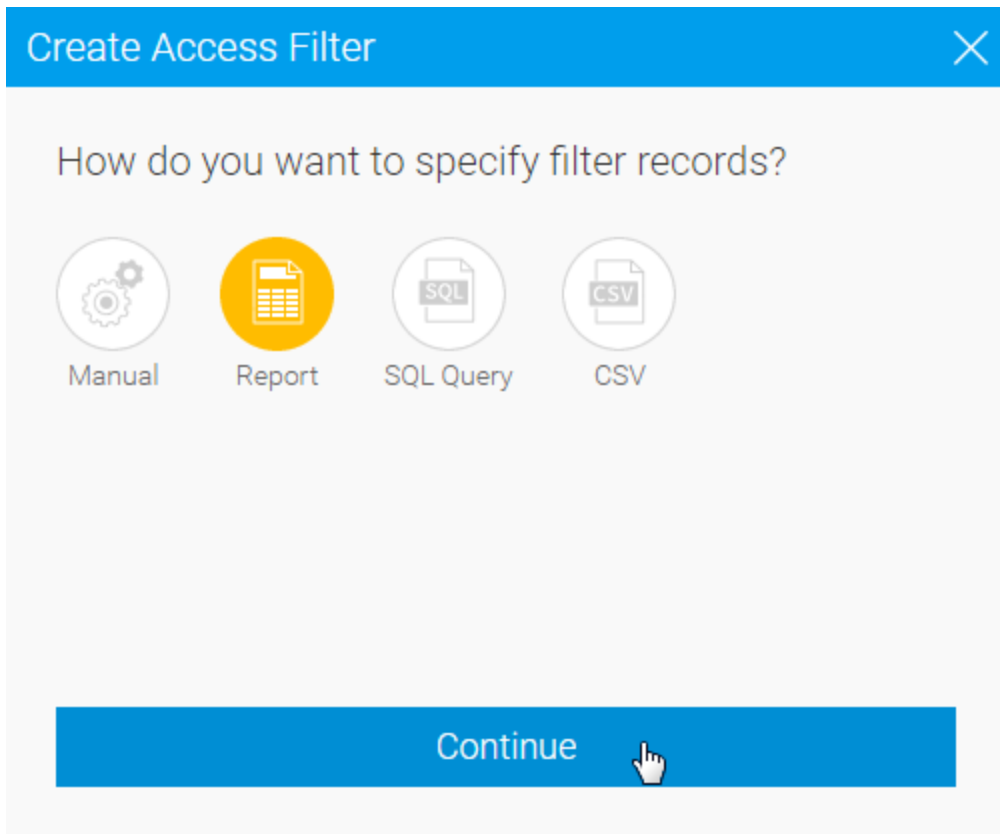
Create Access Filter

Settings Input Values Records **Usage**

View	Field	Usage
This access filter is not currently used		

## Report Access Filters

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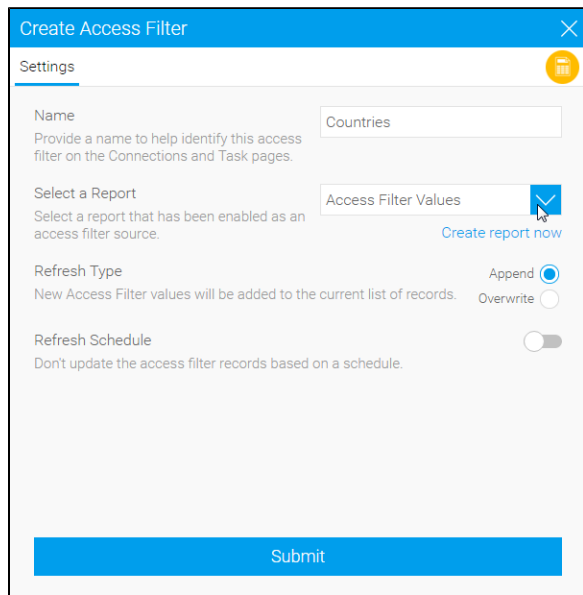
## Settings

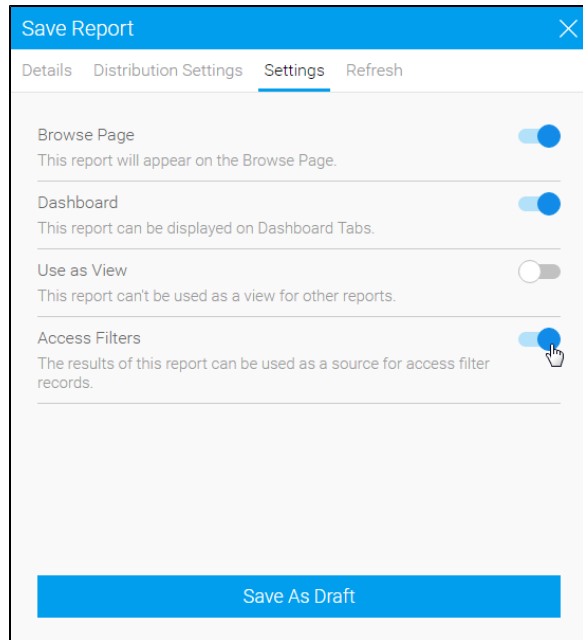
Complete the settings step in order to define how the access filter records will be sourced and updated.

Setting	Description
<b>Name</b>	Provide a name to help identify this access filter on the Connections and Task pages.
<b>Select a Report</b>	Select a report that has been enabled as an access filter source.
<b>Refresh Type</b>	You will have two refresh options: <ul style="list-style-type: none"> <li>• <b>Append</b>: new access filter records will be added to the current list of records.</li> <li>• <b>Overwrite</b>: new access filter records will replace the current list of records.</li> </ul>
<b>Refresh Schedule</b>	Define whether access filter records will automatically be updated based on a schedule.

## Report

In order to select a report to use for access filter records, you will have to have a report saved with this setting enabled.



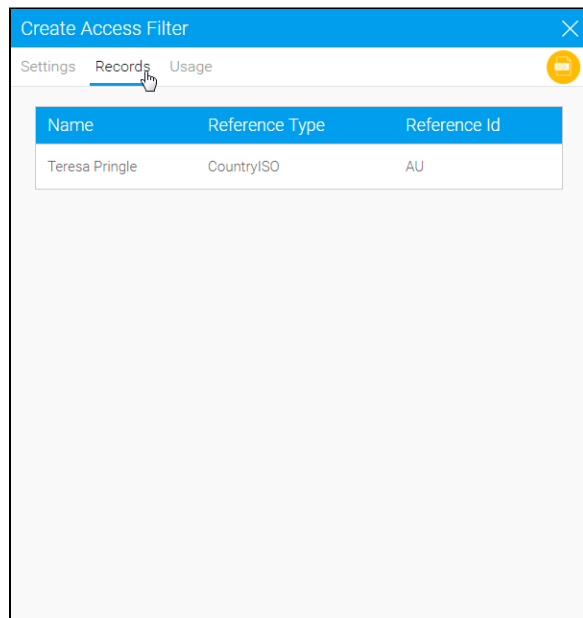


The report may look something like this:

IDENTIFIER TYPE	IDENTIFIER	REFERENCE TYPE	REFERENCE ID
EMAIL	Abbasseyini@yellowfn.b	CountryISO	AU
EMAIL	A.Abad Jose@yellowfn.b	CountryISO	AU
EMAIL	A.Gelbert.Bon@yellowfn.b	CountryISO	AU
EMAIL	A.Becner.Kristach@yellowfn.b	CountryISO	AU
EMAIL	A.Horde.Ulucag@yellowfn.b	CountryISO	AU
EMAIL	Adby.Hughes@yellowfn.b	CountryISO	AU
EMAIL	Ado.Mohzena@yellowfn.b	CountryISO	AU
EMAIL	Adgail.Cameron@yellowfn.b	CountryISO	AU
EMAIL	Adgail.Fisher.gou@yellowfn.b	CountryISO	AU
EMAIL	Adnilc.Podgizza@yellowfn.b	CountryISO	AU
EMAIL	Adam.Aarsson@yellowfn.b	CountryISO	AU
EMAIL	Adam.Beausgard@yellowfn.b	CountryISO	AU
EMAIL	Adam.Cesar@yellowfn.b	CountryISO	AU
EMAIL	Adam.Gelaty@yellowfn.b	CountryISO	AU
EMAIL	Adam.Vojtesik@yellowfn.b	CountryISO	AU
EMAIL	Adrian.Volchov@yellowfn.b	CountryISO	AU

## Records

You will now be able to view all the records loaded into your Access Filter.



## Usage

You will be able to see a usage count to help identify how and when your Access Filter is used.



Create Access Filter

Settings Records Usage

View	Field	Usage
Ski Team	Athlete Country	0

## SQL Query Access Filters

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Create Access Filter

How do you want to specify filter records?

Manual Report **SQL Query** CSV

Continue

### Settings

Complete the settings step in order to define how the access filter records will be sourced and updated.

Setting	Description
<b>Name</b>	Provide a name to help identify this access filter on the Connections and Task pages.
<b>Data Source</b>	Select a source that will be queried to return access filter records.
<b>New User Auto Refresh</b>	Define whether the access filter records need to be automatically refreshed every time a new user is created.
<b>SQL Query</b>	Define the query used to return access filter values, in the format outlined in the <a href="#">Filter Parameters</a> section.

**Create Access Filter**

Settings

Name: User Country  
Provide a name to help identify this access filter on the Connections and Task pages.

Data Source: Ski Team  
Select a source that will be queried to return access filter records.

New User Auto Refresh:   
Don't update the access filter records when a new user is created.

SQL Query:  

```
SELECT
'EMAIL' AS IdentifierType,
'PERSON'.FIRSTNAME || ' ' || 'PERSON'.LASTNAME || '@yellowfin.bi' AS Identifier,
'Country/ISO' AS ReferenceType,
'AU' AS ReferenceID
FROM 'PERSON'
```

[View Sample Output](#)

Validate

Once the SQL has been defined, it will need to be validated. Click the **Validate** button and you will either be shown errors returned from the database, or this valid message.

**SQL Query Valid**

[View](#) [Edit](#)

New User Auto Refresh:   
Don't update the access filter records when a new user is created.

Here is the data returned by your query:

EMAIL	Karl.Gegenschatz@yellowfin.bi	Country/ISO	AU
EMAIL	Carlos.Liendo@yellowfin.bi	Country/ISO	AU
EMAIL	Paul.Vachoux@yellowfin.bi	Country/ISO	AU
EMAIL	Gert.Dogscha@yellowfin.bi	Country/ISO	AU
EMAIL	Kjell.Woernert@yellowfin.bi	Country/ISO	AU

Do you want to continue?

Cancel **Ok**

Setting	Description
<b>Refresh Type</b>	You will have two refresh options: <ul style="list-style-type: none"> <li><b>Append:</b> new access filter records will be added to the current list of records.</li> <li><b>Overwrite:</b> new access filter records will replace the current list of records.</li> </ul>
<b>Refresh Schedule</b>	Define whether access filter records will automatically be updated based on a schedule.

Once complete, use the **Submit** button to save your access filter and load values.

**Create Access Filter**

Settings

Name: User Country  
Provide a name to help identify this access filter on the Connections and Task pages.

[SQL Query Valid](#) [View](#) [Edit](#)

New User Auto Refresh:   
Don't update the access filter records when a new user is created.

Refresh Type: Append  Overwrite   
New Access Filter values will replace the current list of records.

Refresh Schedule:   
Automatically update the access filter records based on the schedule defined below.

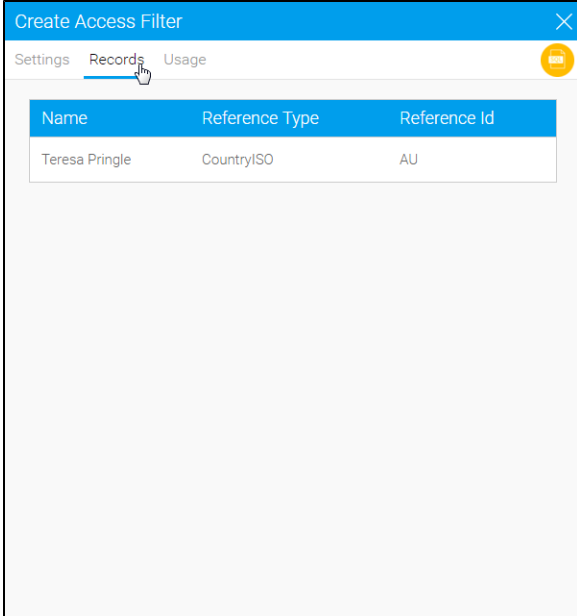
Daily  
This will run daily.

[Advanced settings ↓](#)

Submit

## Records

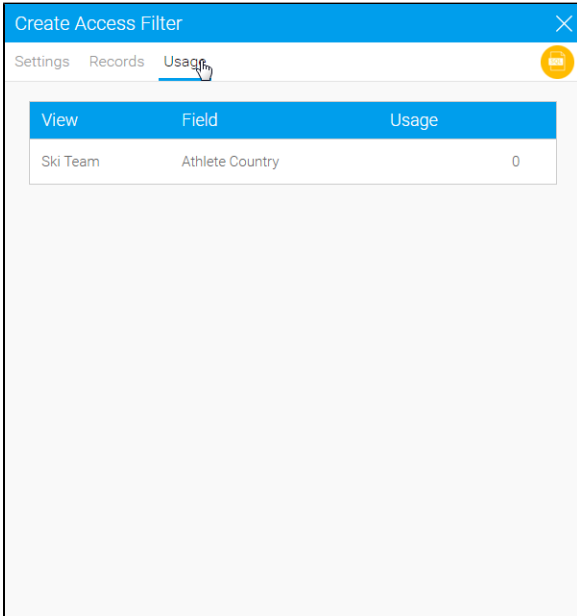
You will now be able to view all the records loaded into your Access Filter.



Name	Reference Type	Reference Id
Teresa Pringle	CountryISO	AU

## Usage

You will be able to see a usage count to help identify how and when your Access Filter is used.

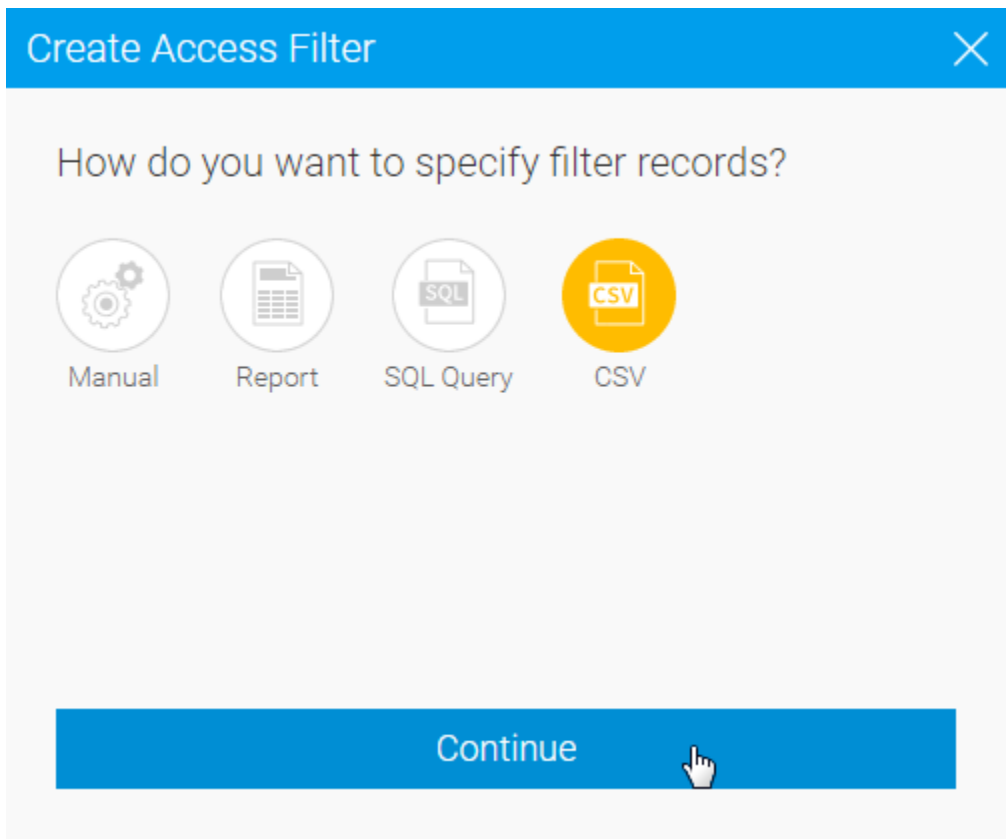


View	Field	Usage
Ski Team	Athlete Country	0

## CSV Access Filters

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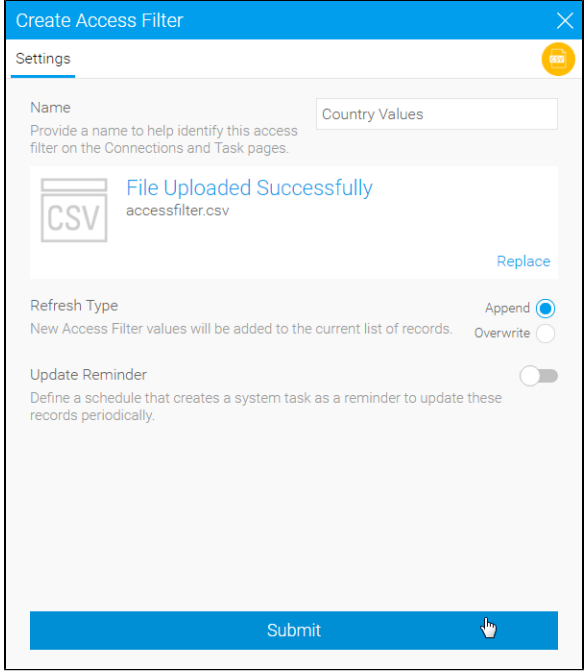
The file must consist of records of the four fields listed above. The file may contain a header row, which must have the titles "Identifier Type", "Identifier", "Reference Type" and "Reference Id".



### Settings

Complete the settings step in order to define how the access filter records will be sourced and updated.

Setting	Description
<b>Name</b>	Provide a name to help identify this access filter on the Connections and Task pages.
<b>File</b>	Upload a csv file to provide values for the access filter records, in the format outlined in the <a href="#">Filter Parameters</a> section
<b>Refresh Type</b>	You will have two refresh options: <ul style="list-style-type: none"> <li>• <b>Append:</b> new access filter records will be added to the current list of records.</li> <li>• <b>Overwrite:</b> new access filter records will replace the current list of records.</li> </ul>
<b>Update Reminder</b>	Define a schedule that creates a system task as a reminder to update these records periodically.



### Records

You will now be able to view all the records loaded into your Access Filter.

Name	Reference Type	Reference Id
Teresa Pringle	CountryISO	AU

## Usage

You will be able to see a usage count to help identify how and when your Access Filter is used.

View	Field	Usage
Ski Team	Athlete Country	0

## Assign to a View

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Once you have set up one or more Access Filters on a data source, you can assign them to any views created against that source.

1. Create your view as normal, and then on the Fields page, select a field that corresponds to one of the Reference Types you have created.
2. On the Access tab, select the correct type from the Access Filter selection. You will not be able to select Reference Types that don't have any filter records saved against them.
3. Once you have selected the Access Filter, save the field. You can select more than one field to be different Access Filter types if you wish.
4. Once you have finished assigning access filter types to the fields on the view, go to the View Security page. You can select a default filter to be applied to reports created against this view here, or choose not to have one. If you select a default filter, any subsequent report created against this view will have the filter applied. Users creating reports that have the appropriate access level can change or remove the filter on a per-report basis.

## Assign to a Report

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When creating a report using the Drag and Drop Builder, an Access Filter can be applied if the selected View has had Access Filters defined.

On the Report Data page, open the Report Data section in the Report Options box on the right hand side. The Access Filter selection box contains any filters that have been attached to the selected view.

If you select a filter, it will be applied to the results for each user when they run the report.

**Note:** that only users with the appropriate security access level will be able to change the Access Filter on a report.

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