



Welcome

There's no use putting data into a system if you can't get it back out. In fact, the tools to report and display your data are much more important than the entry tools. Rock's reporting and analytics tools were some of the first features to hit the drawing board. We based them on years of real-world experiences – previous successes and lessons learned. We hope that you'll take the time to not only learn how to drive the tools, but more importantly, how to build a successful reporting strategy that provides consistent and reliable results.

Let's get started.

If You're Only Going to Read One Chapter

OK, now that we have your attention... Before diving into the tools let's start with a discussion on strategy. It's tempting to want to start writing your first report. But trust us - this chapter will save you countless hours and the embarrassment that comes from delivering conflicting and incorrect reports.

The usual workflow for application reporting goes something like this:

- 1. Get a request for a report.
- 2. Write the report per the request.

Seems pretty logical, right? This is actually a great strategy if you only get one report for the lifecycle of the application. Well, that's never going to happen! We all know you'll need to write hundreds of reports over the lifetime of the application. The problem is that many of these reports will have lots of similar requirements, with just small differences. Eventually, you'll end up wasting a good amount of time writing almost the same reports. If you're not careful, some of them might even conflict with each other. So why not slow down and create a strategy of re-usable reporting components? Ok, that sounds like a plan!

When designing Rock, we resisted the urge to rush and make a traditional ad-hoc reporting tool. We looked back at the years of lessons learned (embarrassingly enough there are many of them) and designed an architecture that allows you to build a reporting strategy.

What Makes Up a Report?

There are two facets to any report: filter and display criteria. Consider this example. Your organization's leader walks in your door and asks for a list of attendees over the age of 18 who began attending within the last two years. They would like to have the names, contact information and the number of times they have attended. Using this example, let's look at each of the facets of reporting.

- 1. **Filter Criteria:** These are the criteria that limit the results to display. They answer the "Who" part of the request. In the case of the example, the criteria would be:
 - a. Attendees
 - b. Greater than 18 years of age
 - c. Began attending in the last two years
- 2. **Display Criteria:** Once the results are filtered you must display them, with the necessary attributes, to the person using the report. In the case of our example, these attributes might be:

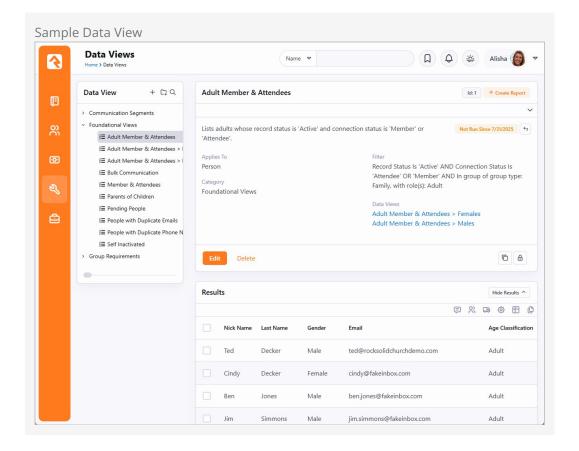
- i. Name
- ii. Phone
- iii. Email
- iv. Address
- v. Number of Times Attended

Once you create your handy report for your leader, it's very likely they'll be back asking for further changes. Perhaps now they want another report with the same logic but only showing females. In most systems you'll have to start over and make a copy with the addition of the new criteria. Now you have two very similar reports to maintain.

With Rock, we have deliberately chosen to split the filter and display activities in reporting. You create your filters by defining *Data Views*. You then create your display by creating *Reports* that use the *Data Views*.

Reporting Strategy

The strategy part of reporting comes from the definition of your *Data Views*. It will be tempting to quick-write a very specific data view for each report. Consider, though, that data views can extend and build off of each other. For instance, you might create a data view that filters *Adult Members & Attendees* and then create a new data view that uses this view and adds the criteria of female gender. You've now created two views that can be used for the report at-hand AND in future reports. What's more, if you ever need to redefine what makes an *Adult Member & Attendee*, you can change it in one place and all reports that are built off of that view will get the new definition. These two data views are available out-of-the-box with Rock. Consider the results of these views on the Rock sample data in the figure below.



Before starting any report, you should ask yourself:

- What, if any, criteria filter in this report might be reusable in future reports?
- What data views have I already defined that I can start with for this report?

Warning

You can take the concept of reusable data views too far. Be sure to strike a balance between what is reusable and being overly complex.

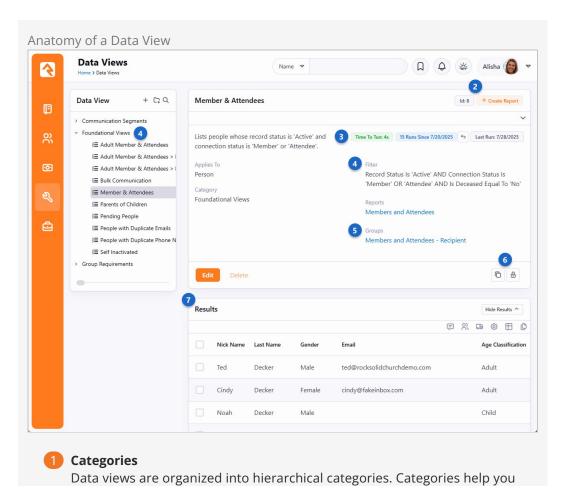
Don't worry - we've only scratched the surface of Rock's tools. Now let's get our hands dirty learning about creating data views and reports as well as learning about Rock's other reporting tools.

Filtering Using Data Views

The bulk of your reporting will happen in Data Views. Data Views are a way to select and filter records based on any field in the system. And by any, we mean any! For the most part, you'll be creating views that display individuals and sometimes groups. Data Views are not limited to just these two entities though. You can write a Data View for any type of data in Rock including financial transactions (aka giving), metrics, page views, etc.

Let's start by looking at a couple of the Data Views that come out-of-the-box. Data Views are configured under Tools > Data Views.

Below is a figure of the default list of data views. Over time you'll collect plenty of data views. To help you organize them we allow you to create a hierarchical directory of categories. The use of categories again becomes a part of your reporting strategy. What good is a reusable data view if you can't find it when you need it?



sort and organize your data views.

2 Id and Create Report

The Id of the data view is displayed here for reference. You can also click the <code>create Report</code> button to start creating a report using the data view. We'll explain creating reports in the next chapter below.

Run Details

How this area looks will change depending on the activity, or lack of activity, associated with a data view. In this example we can see:

- **Time to Run** This label shows how long it took to retrieve the data. This is a great way to identify potential performance issues.
- **Runs Since** Here you can see how many times the data view has been run since the displayed date. This is an easy way to get a sense of how frequently the data view is used.
- **Reset** Click the button to reset the *Runs Since* field. This will set the count of runs back to zero, as of today's date.
- Last Run This displays the most recent date that the data view was run. If the date is very far in the past, you might examine if the data view is needed anymore. Removing unused data views may help system performance but will also ensure a tidy system in general.

4 Data View Filter Summary

This is an automatically generated summary of the filters used in this data view. We'll talk more about these filters below.

5 Data Views / Reports

In this area you can easily see which other data views, reports or group syncs are using this data view. If you make any changes to the data view, these items will be impacted.

6 Copy / Security

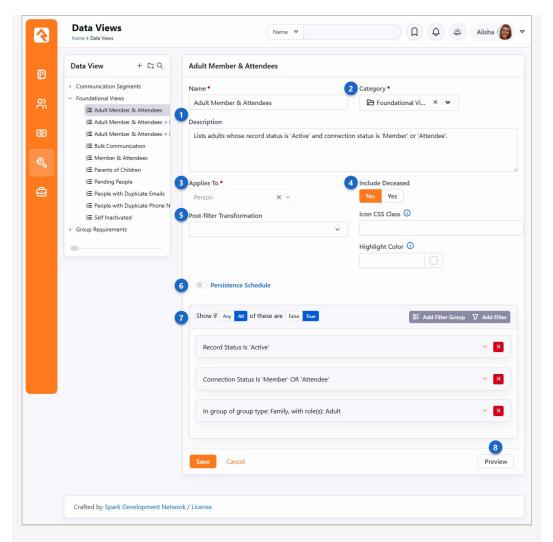
The icon will create a new data view that is a copy of this one. You can also click the icon to change security permissions for this data view.

Results

These are the actual results of your data view configuration, according to the filters you've added. We'll go over filters in more detail below. Note that the results are in their own block, so you can do things like launch workflows for the items listed.

Now let's drill into the first data view called *Adult Members & Attendees*. As you probably guessed, this view filters adults who have the connection status of *Member* or *Attendee*. It also only returns only active records. Click the <code>Edit</code> button to see how this data view is configured.

Editing a Data View



1 Name / Description

The name and description of the data view. We highly recommend writing a detailed description for your data view. Be sure to include how you intend the data view to be used. These details may not seem important now, but your future self will be thanking you.

Category

A category should already be assigned when you first create the data view, but you can change it here if needed.

3 Applies To

Technically, this field is where you specify the *entity* the data view is referencing. This tells Rock what filter options you have, which we'll discuss below. Most of the time you'll probably use either 'Person' or 'Group', but you're not limited to those.

4 Include Deceased

This field will appear for data views that apply to people. If this is enabled, people who are marked as deceased in Rock will be included in the data view's results. In most cases this will be disabled.

Post-filter Transformation

This is where you can optionally select one of the following post-filter transformations:

Allowed Check-In

- Allowed Check-In Children
- Children
- Family Members
- Father
- Giving Leader
- Grandchild
- Grandparent
- Head of Household
- Mother
- Parents
- Spouse

For more details see the Post-Filter Transformations section below.

6 Speed Settings

Here you can choose to set a *Persistence Schedule*. To learn more about these settings, see the Persisting Data Views section below.

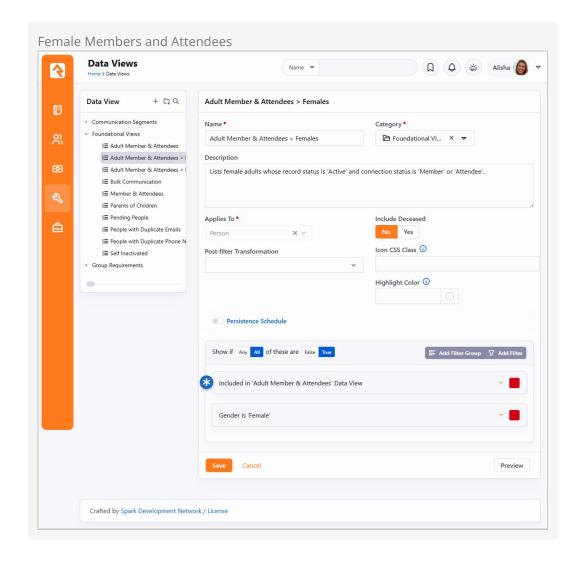
Filters

This is where you create the filters that are used to define your criteria for limiting records. We'll dive into how the filter area is used in later sections below.

8 Preview

To help check your work you can select the Preview button. This will show only the first 15 rows of data returned by your filters.

Next, let's look at the Adult Members & Attendees > Females Data View. Initially you might expect to see a lot of the same criteria as the previous Adult Members & Attendees data view, with the addition of the female gender filter. Clicking the Edit button, you'll see the data view strategy at work.



Notice how the first criterion is *Included in Data View: Adult Members & Attendees*? That says, "Take all of the filter criteria from the *Adult Members & Attendees* data view and apply it here." Since that logic was already built, all we needed to do here was add the gender filter.

Now, let's say in the future you'd like to enhance the definition of *Adult Members & Attendees* by ensuring that the age of the individual is over 18. You can add this to the base view, and it will dynamically apply to all subsequent views that use it.

Age Classifications

Speaking of the ages of individuals...Rock allows for simple and quick filtering on whether an individual is an Adult or a Child using the Age Classification property. This property is available as a Person filter type when creating Data Views and as a Field Type when creating Reports (more on that in the next chapter). In Rock, an adult is anyone over the age of 18 or marked as an adult in one or more families. A child is anyone less than 18 or a child in all families. If neither of these conditions are met, the individual is marked as Unknown. Rock calculates age each time a person is saved and re-calculates it every time the Rock Cleanup job is run.

Any vs All

At the top of the filter group, you'll notice a setting that says *Show if Any/All of these are true*. You might be wondering what's the difference between *Any* and *All*. Let's define each:

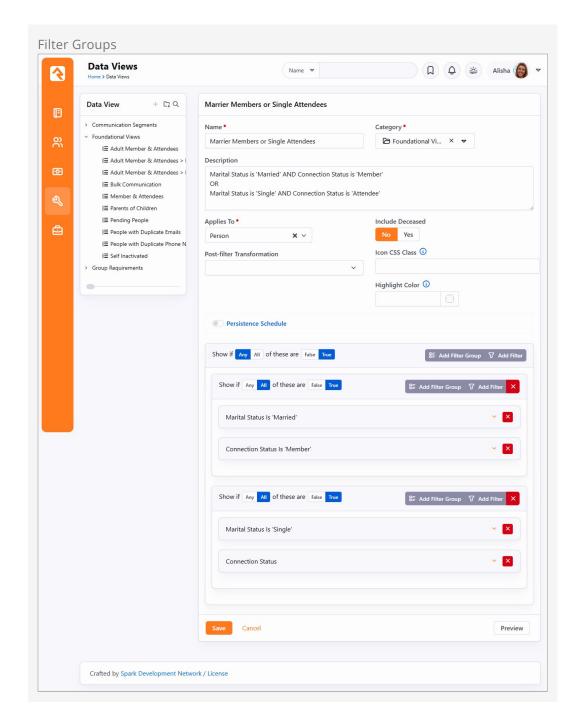
- All: This means that each of the filter criteria must be true in order for a record to be displayed. One helpful trick is to read through each filter and insert the word and in between each. So, for a record to display in the Adult Members & Attendee view, a record must: have a record status of active AND a connection status of member or attendee AND must be an adult in a family.
- **Any:** This setting means that if *Any* of the filter criteria is true then display the record. It's like inserting the word *OR* between each criterion.

If You Forget

If you forget the difference, read the *Filter* summary on the data view detail view. It writes out the criteria inserting *AND* or *OR* for you.

Filter Groups

For complex views you may need to include both *AND* and *OR* type logic into your view. Filter groups give you this option. Say for instance you need to create a view that shows individuals who are married AND a member OR who are single AND an attendee. That data view would be configured like this:



Note how we have two filter groups where if *Any* of them is true the record is selected. They in turn have criteria that must *All* match.

Post-Filter Transformations

The Post-Filter Transformation gives you the option to "flip" the results of a Data View with ease. For example, if your Data View includes the kids attending summer camp, selecting the *Parent* transformation will find the parents of those kids. If your Data View includes *Adult Members & Attendees*, choosing the *Children* transformation will give you the children of those selected. To provide as much flexibility as possible, Rock allows you to transform data views by applying the following transformations:

Allowed Check-In

- Allowed Check-In Children
- Children
- Family Members
- Father
- Giving Leader
- Grandchild
- Grandparent
- Head of Household
- Mother
- Parents
- Spouse

Securing Data Views

There will be Data Views that you want to limit access to. Note that you can control who has access to Data Views. To change the default security on a Data View, click the button on the data view details screen.

You can also check the access for Data View categories. This allows you to modify the security for all Data Views in that category.

Taking Security Further

Controlling who has access to Data Views is important. But you also need to limit who can make new Data Views with certain criteria. You can limit what filters are available to specific people and groups under

Admin Tools > Settings > Data Filters . Here you'll see a list of available filters with the ability to change who has access to use each filter.

When filtering on the attributes of an entity (like person attributes), normal attribute security will be used in controlling access.

You can also control security on the Data View transforms. This can be configured under

Admin Tools > Settings > Data Transformations.

Let's Go Farther

You can create your own post filter transforms and custom filters. Doing this does take some programming knowledge, but it's possible. See our developer docs for more information.

Persisting Data Views

Sometimes when you have an extremely large or complex Data View, it can take a long time for Rock to filter down to just the records you're interested in. This can be critical when you're relying on the information in the data view for reports, for workflow actions (using Lava) and just to keep the load on your server as low as possible. This is especially true when you have data views referencing several other data views.

Persisted Data Views to the rescue! If Persistence is enabled, Rock will only calculate the records in the list as frequently as you specify. That means that when you click on the data view, Rock already knows what records are in the list and can provide them extremely quickly. (Calculating the contents of persisted data views is what the Update Persisted Dataviews job does, in case you were wondering).

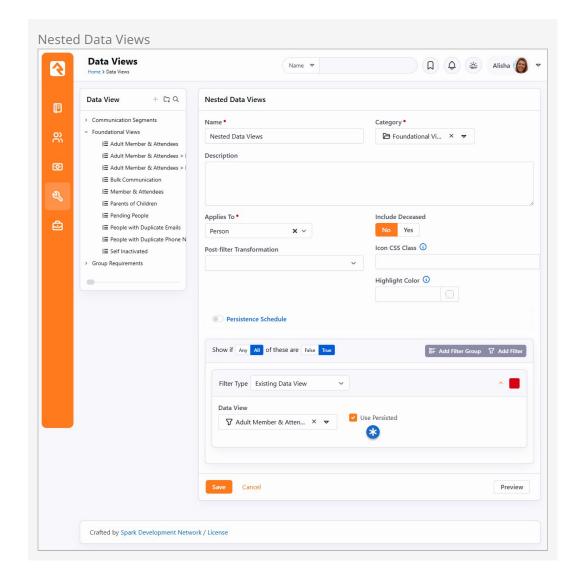
When you persist a Data View, keep in mind that the statistical data (Time to Run, Runs Since, and Last Run) may not update as frequently as you'd expect. These values usually change only when the Data View's results are updated, not when the persisted results are being used. In other words, retrieving data from a persisted Data View doesn't require it to be re-run, so the run statistics aren't always updated. Most of the time, the Data View will only be truly re-run when the job recalculates its contents, and that's when you can generally expect the statistics to change.

Since Rock isn't calculating the contents of these Data Views every time you load it, that does mean that the list might be out of date by up to the interval you specify. For instance, let's say that you have a very involved data view that, among other requirements, requires that the people in it are members of a certain group. But it's such an involved data view that it takes quite some time to load, so you set a Persistence Interval of "2 Hours". If Ted Decker matches all of the filters, then he will show up in the Data View when it's calculated, as expected (along with anyone else who matches all the filters). Now, if Ted leaves the group that you have to be a member of to be included in that Data View, it's possible that he will continue showing up in that Data View for up to two hours; the next time that persisted Data View will be re-evaluated.

Usually, it's not extremely important that your Data Views be absolutely accurate up to the second, so that might not be a big deal. But if you're relying on a data view for something that needs to truly reflect the absolute latest data, then you should leave the *Enable Persistence* setting disabled.

Nested Persisted Data Views

Now, let's look deeper at nested Data Views and how it works when they're persisted. Let's say that we make "Adult Member & Attendees" a Persisted Data View - it's going to be calculated every two hours. Let's also say that we have another Data View that has a filter that specifies that the people must also be in the "Adult Member & Attendees" Data View. (Usually, you'd have other filters as well, naturally). It would look something like this:



Since "Adult Member & Attendees" is now persisted and only calculated every two hours, then whenever you load a Data View that references it (with "Use Persisted" selected as shown) the list of Adult Members and Attendees might be as much as two hours old. Hopefully nobody stopped being a member/attendee that quickly, but if they did, they could continue showing up in this Data View until the next time the nested Data View is calculated.

Put another way: if a Data View has persisted child data views, it will use the **persisted version** of the child data view if "Use Persisted" is enabled.

In general, it would be much faster to persist a data view if "Use Persisted" is enabled on its child data views. However, its accuracy is limited to the child data view that had the *longest* "Persistence Interval".

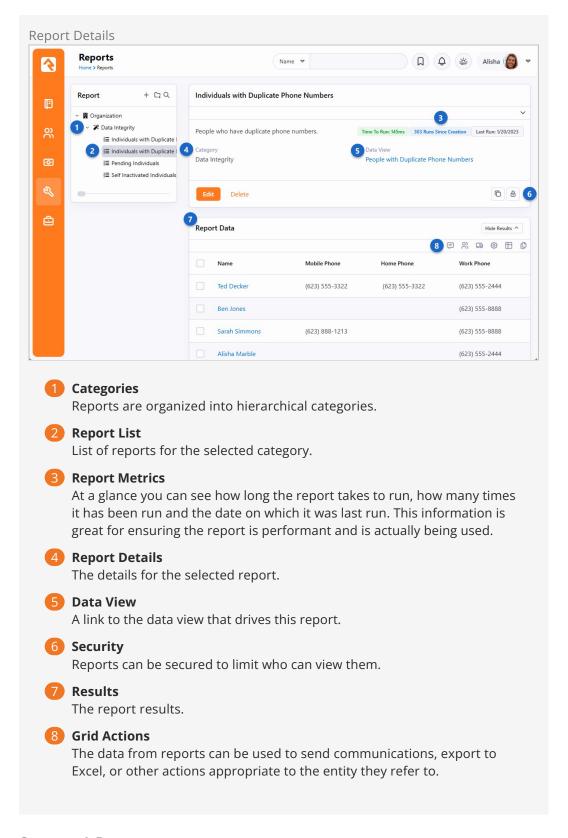
Displaying Data Using Reports

Now that we've selected the records we need, we're ready to define how we want our report to display. Usually this means adding fields to our report. Let's see how this is done.

Reuse Is Good

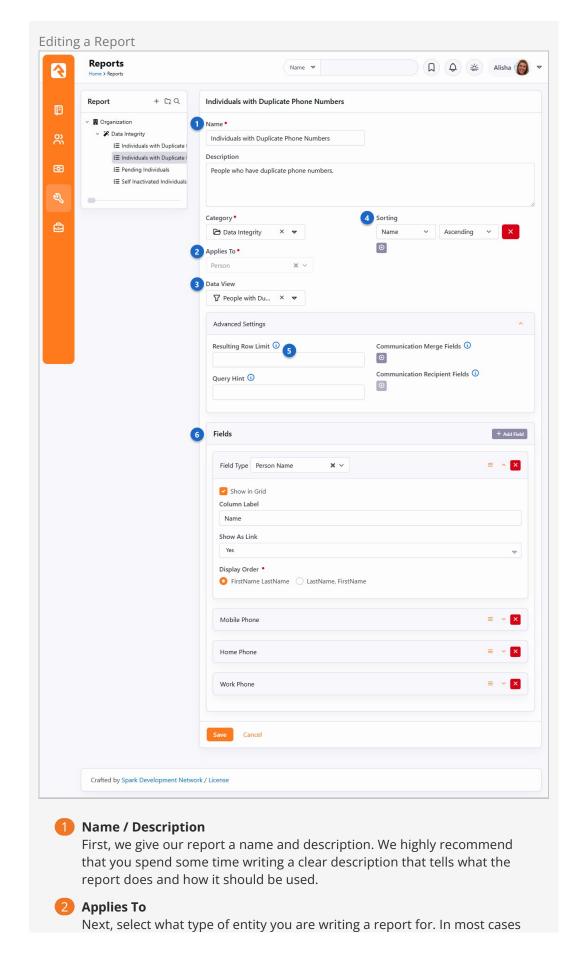
Separating the filtering from the display also has the added benefit that reports with separate display features can use the same filtering logic. In many systems you would have to redefine the same filters twice. This is a lot of extra work, and it's a nightmare to keep consistent over time.

You define your reports under Tools > Reports . Like their Data View cousins, reports are also organized using hierarchical categories.



Creating A Report

Let's jump right in and take a look at a report. For our example, we'll look at a report that gives the name and phone numbers of individuals with duplicate phone numbers. The figure below shows what this report would look like. The callouts for the figure explain the various steps used in the creation of our report.



this will be Person but, like Data Views, you can report on anything.

Data View

Now that you have selected the entity, you'll see a list of Data Views you can use as the source for your report.

4 Sorting

You can sort your report by any field you add in either ascending or descending order. You can even choose to sort on more than one field at a time.

6 Resulting Row Limit

If needed, you can limit the number of records that are displayed on your report.

6 Fields

Finally, you'll add the fields you want to display on your report. You can determine for each field whether or not you want it to display in the grid. You might be thinking, "If it's not on the grid where else would I see it?" If you don't check this button, the field will still be available when you export the report to Excel from the bottom of the grid. This is helpful for supporting information that is not needed very often.

The Power of Lava

You'll notice that one of your field options is Lava. Lava is a templating engine that allows you to customize the way data is presented. With this field type you can mix and match data in lots of different ways.

One Caveat

Every field you would like to use in your Lava must be included in your report. For instance, if you want to use the *First Visit* date in your Lava, you have to have that field in your report already. (You can disable showing the field in the grid if you wish). You would access your First Visit column using a Lava Merge Field of the name of the column you want to reference, eliminating any spaces. In this case, information in the "First Visit" column would be displayed using the Lava Merge Field *{{ FirstVisit }}*. Also, you can't reference one Lava column's value from another Lava column.

Below are a few examples:

Last Name, Nick Name

```
{{ LastName }}, {{ NickName }}
```

Last Name, Nick Name as a link to the 'Person Profile' page

```
<a href="/Person/{{ Id }}">{{ LastName }}, {{ NickName }} </a>
```

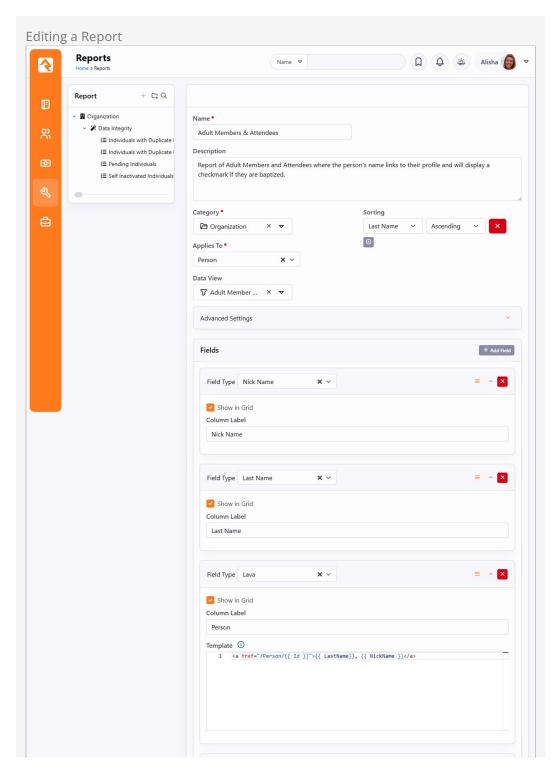
If baptized, show field as a checkmark

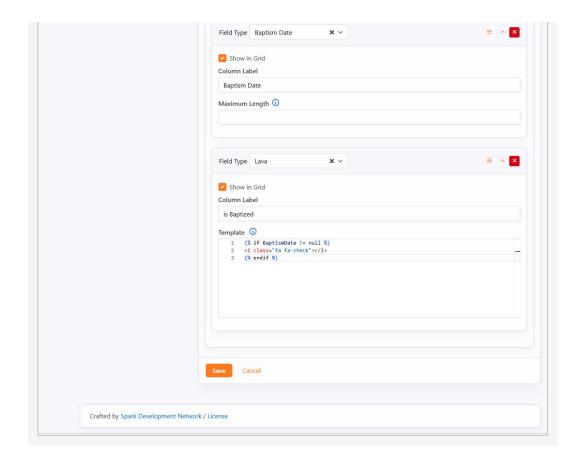
```
{% if BaptismDate != null %}
     <i class="fa fa-check"></i>
{% endif %}
```

For some fields (like Phone Number), use the dot notation to get the property you want

```
{{ Phone.NumberFormatted }} unlisted: {{ Phone.IsUnlisted }}
```

Let's pull this all together: this setup would create a report where the person's name links to their profile, and display a check mark if they are baptized:





We should point out that usually you could simply use the stock *Person Name* field to create a linked name formatted this way, without using Lava. But if you wanted to link to an alternate person profile page, this would give you full control over doing that.

You can find out more about Lava on the Rock RMS learning website.

If you want more information on using Lava in merge documents, you'll find that in the Rock Admin Hero Guide.

Let's Go Farther:

You can also create your own custom report fields with some developer knowledge. See our developer docs for all the details.

Persisted Data Views in Reports

As you'd expect from our earlier discussion, if your report is based on a persisted Data View, the report should display much more quickly than if the Data View wasn't persisted. That's because it's not having to figure out which rows to display- that's already been calculated, so it'll just use that list.

And if your report is based on a persisted Data View that also references *other* Data Views, it doesn't actually matter (at the report level) whether those nested Data Views are persisted or not. That's because the "top level" Data View that the report is using, is persisted. So, it's not actually having to go and look up those nested Data Views at all in order to generate the report. Neat, huh?

Securing Report Data

It's important to know that anyone with access to a report will be able to view all the data in that report. This includes data they wouldn't normally be able to access elsewhere in Rock. In effect, report data bypasses the person's security rights. That might sound alarming at first, but don't worry. Rock was intentionally designed this way, and we have some suggestions for securing your data.

First, you might be wondering why security is not applied to report data. If Rock were forced to apply a person's security to the rows returned in a report, there would be two problems:

- 1. Sometimes you want to bypass security for valid reasons. For instance, let's say you have a report that lists people who have donated to your organization so you can send handwritten thank you cards. This report doesn't show specific gifts but does use giving data to list the individuals. The person tasked with writing the cards probably doesn't have access to financial data in Rock. If the person's security were applied to the data in the report, the report would not give them results because it references financial data. Now they can't do their job and the only solution is to give them security they don't need.
- 2. Performance. Let's say your report provides a list of group members and their group. If security were enabled, the system would need to run a security check for each row in the report to see if the person viewing the report has access to the group. Remember, the security on a group is hierarchical on group structure, group member role and on the group type. All of those areas would need to be evaluated. You can see how quickly this adds up, even to the point where the report will time out before results can be returned.

So, what should you do?

It starts with the report's author. The author is responsible for considering the security of the data they're providing. However, keep in mind that security is enforced at the time of authoring. For instance, when building a data view the author can't exclude groups that they don't have access to. If group data is displayed in the report, then those groups will appear on the report, which might not be desired.

Also, don't forget you can apply security to the reports themselves. Limiting access to the report ensures the data it contains can only be viewed by the intended individuals.

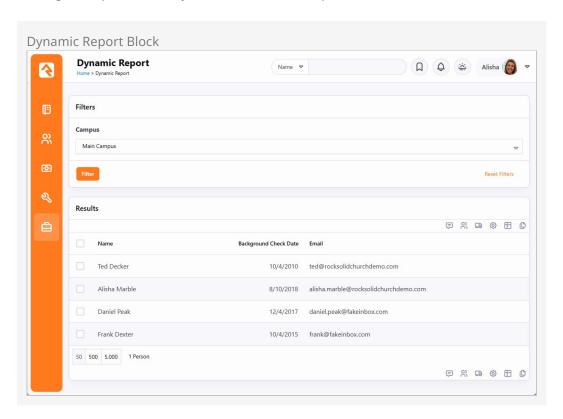
Another approach is to look for configurations outside of reporting that might provide the security you need. For instance, if there is a certain type of group you're concerned with (like a recovery group) make sure those groups are all of a specific group type. Then you can "apply security" by limiting the group types shown in your report. You're not actually doing anything with security but adjusting your configuration in this way can help ensure sensitive data stays secure.

As you can see, planning is important in developing data views and reports. You want to ensure that the individuals who can view the report are identified, and that provisions are made so that sensitive information does not inadvertently leak.

Dynamic Report Block

As you create reports you may find that you need to duplicate Data Views and Reports to solve similar problems. For instance, your organization may want a list of people who have a background check that's expired or about to expire. Let's say the report will be used at each of your campuses. You might be tempted to create a data view and report for each campus, but there is an easier way.

Rock provides a block entitled *Dynamic Report* that shows a specific report but also allows you to display filters of the report's underlying data view and allows the person viewing the report to modify them. Let's see our report in action.

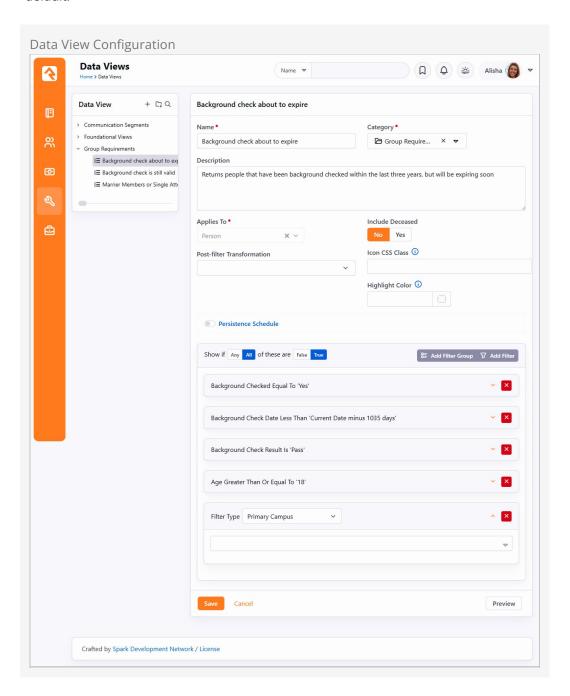


As you can see, the block looks like the standard report grid with the addition of a filter from the data view near the top. Let's walk through the steps to recreate this.

Create Data View

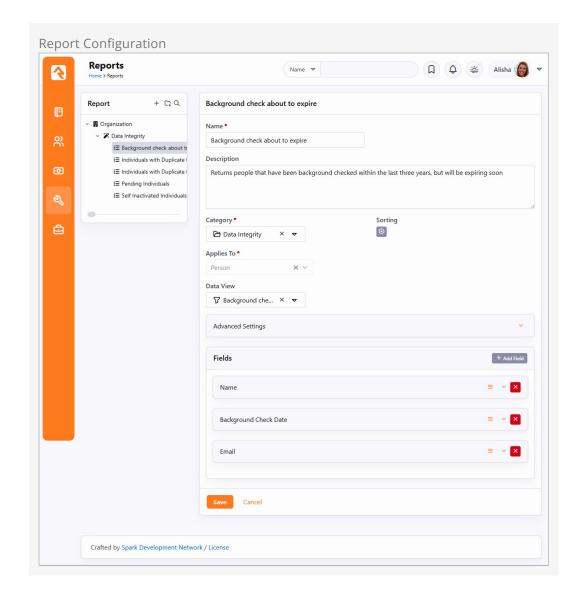
The first step is to create the data view under Tools > Data Views that will drive the report. Here we have a few filters: campus and our background check logic. Notice that

we leave the campus blank. This basically says, "show any campus," which will be our "default."



Create Report

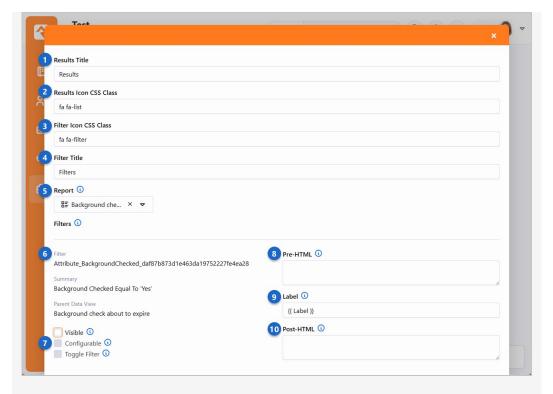
Next, we create the report under Tools > Reports. Here we add in the columns we'd like to display on the report. Nothing new here.



Set Up Dynamic Report

Finally, we're ready to add our *Dynamic Report* block. After creating a new page and adding the block, we can set the block's settings. Below is a screenshot of what's possible.

Block Settings for Dynamic Report



Results Title

The title text to use for the results grid.

Results Icon CSS Class
The CSS icon to use for the same grid.

3 Filter Icon CSS Class

The CSS icon to use for the filter panel.

4 Filter Title

The title text for the filter panel.

6 Report

The report we created in step 2.

Filters:

After selecting a report, Rock will look at the data view for that report and list its filters. Each filter includes the following options:

6 Filter

The data in "Filter" is what can usually be used in a URL parameter to preset a filter where you'd type text. For instance, a "First Name" field might show a filter of Property_FirstName, in which case a URL like /page/123/?Property_FirstName=Ted would pre-fill and pre-filter the report for people with a first name of Ted. Note that Campus and Campuses are special cases; since these aren't text boxes, try using <code>?CampusId=1</code> or <code>?CampusId=1, 2</code> to set these.

Options

For each filter in your Data View, you'll be able to configure these options which control whether the person using the report can specify which filters are used:

- Visible: This tells the block whether the filter should be shown to the
 person for them to modify. In our sample we're only letting them
 change the campus, so only the campus filter would have this
 checked.
- **Configurable:** Determines if the person should be allowed to modify the criteria of the filter. At first you might think this odd, as when would you ever not want to allow the criteria to change, but it'll make sense when combined with the next option.
- **Toggle Filter:** This setting will show the filter with a checkbox next to it. Unchecking the box will disable the filter entirely.

8 Pre-HTML

This is HTML which will be shown before the filter option at the top of the Dynamic Report block. You can use this to group controls together in a well, or change their widths using Bootstrap classes, for instance.

9 Label

The text you put here will determine what title the person will see associated with the filter. The default value of {{ Label }} will display the title of the filter from the source Data View filter.

10 Post-HTML

This is HTML which will be shown after the filter option at the top of the Dynamic Report block. You can use this together with PreHTML to create some neat effects and change the layout of your filters.

The *Dynamic Report* block allows you to control the filtration of multiple data views. If your report uses a data view that is based on another data view, you can set your filter to look at only the top-level data view or to use both.

As you can see, the *Dynamic Report* block is very flexible and powerful. Once you create your first one, you'll find it's one of the most popular tools in your toolbox.

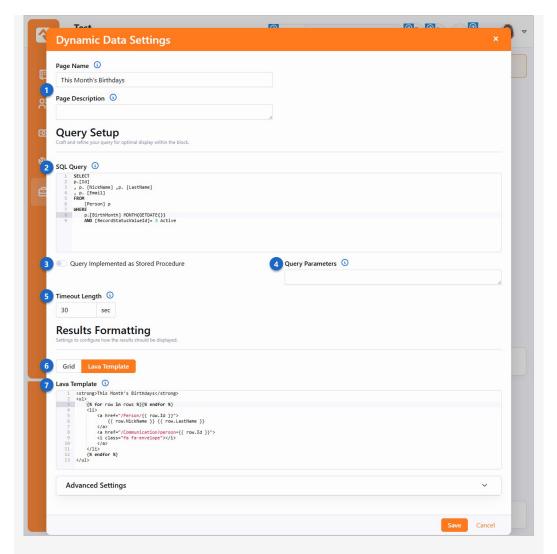
Dynamic Data Block

Most of your reporting needs can be met using Data Views and Reports. However, if you have unique requirements that can't be addressed with these tools—or if you want a more customized experience—the Dynamic Data Block provides a flexible solution. You should be able to use data views and reports to meet most of your reporting requirements. If you have a special requirement that can't be met, or you prefer a different user experience than what reports provide, there is the Dynamic Data block.

When you add a Dynamic Data block to a page (see the Designing and Building Websites Using Rock guide for details on adding blocks to pages), you have the ability to craft the display of filtered data. Let's walk through the various options of this block.

Some settings depend on whether you're using <code>Grid</code> or a <code>Lava Template</code> for *Results Formatting*. We'll start with the *Lava Template* option which covers the first six common settings.

Dynamic Data Block - Lava Template



1 Page Name/Description

This allows you to reset the title and description of the page from within the block. The ability to do this is controlled by the *Update Page* block setting discussed later.

2 SQL Query

This is the SQL query or stored procedure call (more on procedures below) for defining the data to be displayed. SQL is a standard reporting language used by most databases. There are plenty of resources online for learning its syntax.

3 Query is a Stored Procedure

This setting tells Rock that you will be calling a stored procedure, as opposed to using a straight SQL statement. This allows Rock to configure any parameters needed for the stored procedure.

Query Parameters

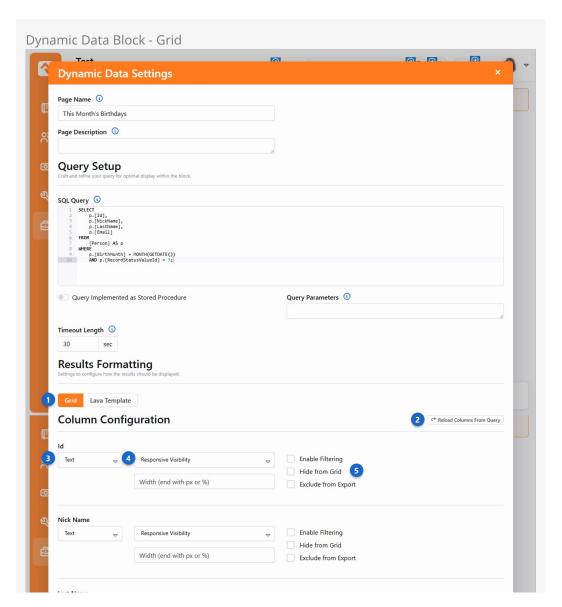
When using stored procedures, you can pass in parameters to create dynamic filters. More on this feature is covered below in the Extra Power from Stored Procedures section.

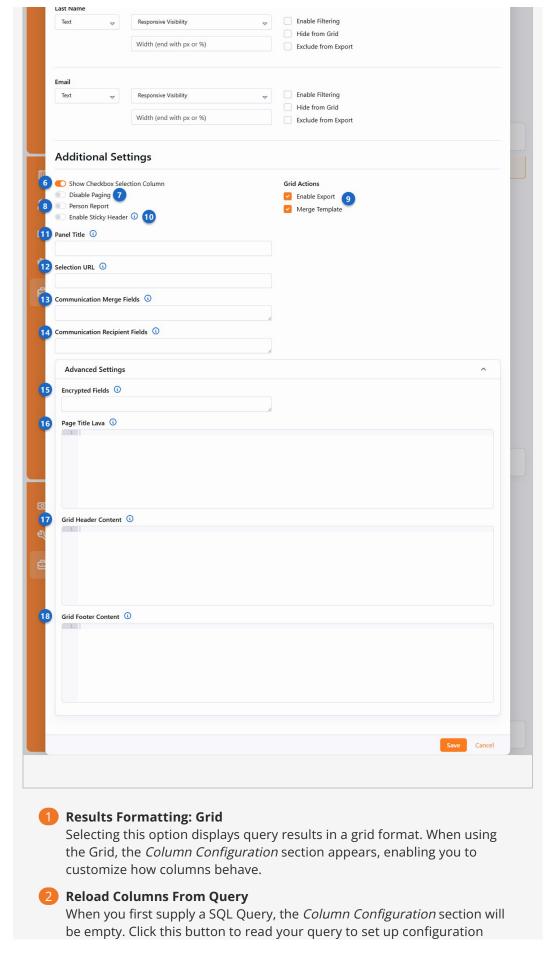
5 Timeout Length

As a safeguard against queries that take too long to run, you can specify a timeout period (in seconds). If the query exceeds this limit, it will stop

Results Formatting: Lava Template
By default, the query will be shown as a grid on the page. If you'd prefer, you can select Lava Template and provide a template that will be used to transform the query results into your own custom layout. This is incredibly powerful because you can start to create your own miniapplications using these dynamic data blocks for displaying data. The Column Configuration section will only display if Grid is selected. Grid is covered in the next example.
Lava Template
This is where you put your custom Lava template that will be used to format the query results output.

This version of the Dynamic Data block makes it easy to tap into the power of Rock's new grid system, allowing you to create a great viewing experience when using the *Grid* Results Formatting option.





options for each column. Use this button again whenever you modify the SELECT columns in your query to refresh the available configuration settings.

Column Type

This setting controls how each column in your SQL query is displayed and behaves. Think of it as a way to tell Rock what kind of data is in each column — like numbers, dates, or text — so it can properly format the data and make it easier to work with.

- Text: Displays values as plain text, perfect for names, descriptions, or labels.
- Boolean: Shows values as "True" or "False," useful for yes/no or on/off data.
- **Currency**: Formats values as monetary amounts, adding the appropriate currency symbol and decimal places.
- **Date**: Displays only the date, such as "01/03/2025," for when the time portion does not exist or is unimportant.
- **DateTime**: Displays both the date and time, such as "01/03/2025 2:30 PM," for more precise records.
- **HTML**: Supports custom HTML formatting, ideal for rich text, links, or content you've styled in your **SELECT**.
- **Number**: Formats values as numbers, making them sortable and usable for calculations.
- **Person**: Beautifully formats the value as a person record, making it easy for you to 'wow' your staff members.

4 Response Visibility

This field controls whether a column is shown or hidden based on the size of the viewer's web browser window. It allows you to optimize reports for different screen sizes, ensuring that important information is always visible, while less critical details appear only on larger screens.

- **Extra-Small**: Always visible, even on very small screens, such as mobile devices.
- **Small**: Shown on slightly larger screens, like small tablets.
- Medium: Displays on medium-sized screens, such as larger tablets or small desktops.
- Large: Visible only on larger screens, like standard desktops or laptops.
- **Extra-Large**: Shown on very wide screens, such as large monitors.

Width: For even more control, you can specify a custom width for a column using either pixels (px) or percentages (%). For example, use 200px for a fixed width of 200 pixels, or 50% to make the column take up half the available space.

6 Column Options

These dynamic options depend on the Column Type selected earlier. The most common options are:

- **Enable Filtering**: Controls whether or not the column should include an appropriate filter.
- Hide from Grid: By default, all the columns returned by the SQL query or stored procedure will be displayed. This is helpful if your SQL defines columns that you want to be displayed when exporting to Excel or CSV, but not displayed on the page.
- Exclude from Export: Prevents the column from being included in

exports.

6 Show Checkbox Selection Column

Adds a checkbox to each row for use with Grid Actions, such as exporting or launching workflows for a subset of results.

Disable Paging

By default, the grid shows the first 50 results and provides paging options to view more. Enable this option to turn off paging and display all results at once. The choice is yours.

8 Person Report

If your query returns a list of people, you'll want to enable this option. This will add several feature options that are specific to listing individuals. Be sure that your query returns the *Id* field so that these features will work as planned.

Grid Actions

Lets you pick which grid actions are available on the dynamic report. You'll see additional options depending for *Communicate*, *Person Merge*, *Bulk Update* and *Launch Workflow* if the *Person Report* option is enabled.

10 Enable Sticky Header

Enabling this means that the grid's column headers will stay visible on the screen as you scroll down the list of results.

11 Panel Title

Here you can provide the title for the grid's results panel.

12 Selection URL

The URL someone is redirected to when they click on a row in the grid. Any column's value can be used in the URL by including it in braces. For example, if the grid includes an *Id* column that contains *Person Ids*, you can link to the Person view, by specifying a value here of ~/Person/{Id}.

13 Communication Merge Fields

List any field you want to be available on the communications page as merge fields.

14 Communication Recipient Fields

This is where you can specify which column(s) contain a Person Id field, to use as the recipient for a communication. You don't need to use this if your query has a Person Id column named "Id".

15 Encrypted Fields

This option allows a report to decrypt any fields that are returned from the query as encrypted values. For example, if you create a report that displays Social Security Numbers and those numbers are stored in a person attribute with the SSN field type, the values in the report will be encrypted. Adding the SSN value to the *Encrypted Fields* will result in the values being decrypted before being displayed in the report. (Note: a Decrypt filter is available in the *Text Filters* section of the Lava manual.

16 Page Title Lava

This allows you to set the page's title with Lava. You can also use data from the result set(s).

17 Grid Header Content

This allows you to set the grid's header content with Lava. Just like the Page Title Lava, you can use data from the result set(s).

18 Grid Footer Content

This allows you to set the grid's footer content with Lava. Just like the Page Title Lava, you can use data from the result set(s).

Source From the Example

Below is an example like the one above.

SQL

```
SELECT
  [Id]
  , [NickName]
  , [LastName]
  , [Email]
FROM
  [Person]
WHERE
  [BirthMonth] = MONTH(GETDATE())
  AND [BirthDay] = DAY(GETDATE())
  AND [RecordStatusValueId] = 3
```

Lava

```
Today's Birthdays

{% for row in rows %}

•

{{ row.NickName }}

{{ row.LastName }}
```

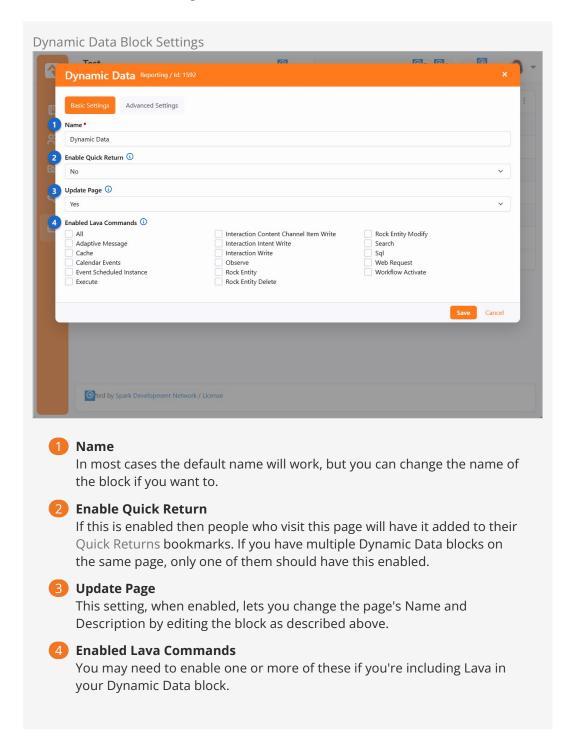
Important! When writing your query, it is important the [Id] field for the person starts with a capital 'I'. If not, links to send communications will not work.

That Figure Is More Than an Example...

The settings for the example above will list out all the people in the database whose birthday is the current date as a bulleted list linked to send an email. Throw that on your internal homepage and go buy yourself a coffee!

Now that you're familiar with how to set up the Dynamic Data block, you might want to

know about the block settings that are available.



Extra Power from Stored Procedures

OK, we're going to geek out here for a second... By using SQL Server Stored Procedures, it can get even more powerful. When calling a stored procedure, you can pass the procedure any of the query string parameters from the URL. For instance, if the page the block is placed on is accessed from the URL:

https://<your server>/page/123?GroupId=12

You can pass the value of the Groupld to your stored procedure as a parameter. The

stored procedure can then use this value to help return relevant data (say group members for the group).

You can also pass in the current person's person Id field. This allows you to further personalize the data to the person requesting the page. Just think of all the fun you can have with this block!

In order to make this all work, you'll need to define each of the parameters you want passed to your stored procedure in the *Parameters* field discussed above. Rock will look for each of these parameters in the URL's query string and, if found, pass in the value to the procedure. If you would like the current person's ld to pass in, you'll likewise need to add in the parameter *CurrentPersonId*.

Inception Time

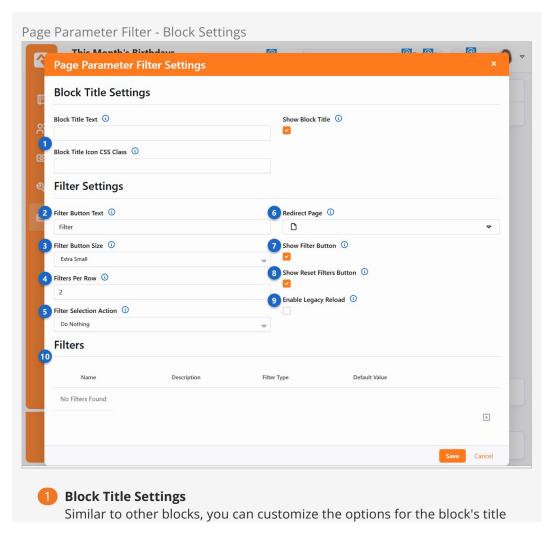
This functionality gets truly powerful when you have dynamic data blocks calling dynamic data blocks. So, you might have one dynamic data block that lists every serving group in your database. Then it links to a different page passing the selected group id, with a dynamic data block that shows the group members. Using the Lava template option, all of this can be designed to make the pages look like custom application logic. BAM!

Page Parameter Filter Block

The Page Parameter Filter block is an easy way to add some powerful functionality to your pages. In short, it works by adding page parameters to a URL according to selections made within the block itself. For instance, if the block is used to select a Connection Opportunity, then the URL will be updated with a page parameter that holds the GUID of the selected Opportunity. With the GUID present in the URL, it can now be referenced by other blocks or features.

Configure Block Settings

When the block is first added to a page it won't have any functionality until it's configured. The block settings you'll use to do this are described below.



area using the fields provided.

Filter Button Text

By default, the button to apply the filter is labeled as "Filter" but can be customized to your liking.

3 Filter Button Size

The size of the Filter and Reset Filters buttons can be changed here. The default value is "Extra Small", but you can also select "Small" or "Normal" to make the buttons slightly larger.

4 Filters Per Row

This setting controls how many filters are displayed in a single row within the block. This doesn't impact anything if you have only one filter.

Filter Selection Action

This setting determines what happens when a *non-textbox* filter is selected:

- **Do Nothing**: No changes occur automatically. The viewer must manually click the filter button to apply their selections.
- **Update Filters**: Filters whose available values depend on the selected values of other filters will update automatically, but the viewer must still click the filter button to apply them. This is useful when filters rely on virtual page parameters This is useful when filters rely on selected values from other filter (via virtual page parameters). If *Enable Legacy Reload* is enabled, page parameter changes will appear in the query string instead of being virtual (i.e., invisible).
- **Apply Filters**: All filters are applied instantly, without the need to click the filter button.

6 Redirect Page

If you provide a page here, the person will be redirected to that page as soon as they click the <code>Filter</code> button. The URL for the target page will include page parameters for the selected filters (see next section for details).

Show Filter Button

If enabled, the Filter button will be visible. Typically, you'll only want to hide the button if the *Selection Action* (see below) is set to *Update Page*.

8 Show Reset Filters Button

You can choose to hide the Reset Filters button if needed. This will keep the filter's information in the URL after it has been applied.

9 Enable Legacy Reload

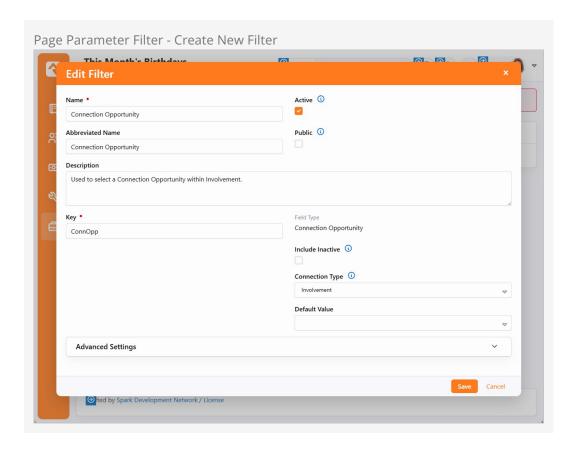
If enabled, a full page reload will be triggered to apply the filter selections (helpful when using this block to drive the behavior of non-Obsidian/legacy blocks on the page). If disabled, the filter selections will be communicated directly to any Obsidian blocks listening for these filters, so they can respond accordingly.

10 Filters

This is where you'll add the filters that should be available for selection in the block. Adding filters to this block is like adding attributes to an entity. We'll look more closely at an example in the next section below.

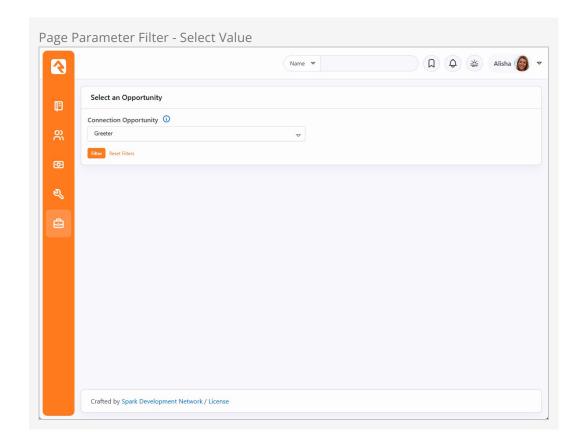
Adding and Using Filters

If you've ever added an attribute to a person, group or other entity, then you're already familiar with adding filters to this block. As pictured below, these filters use many of the same fields as attributes.



The *Key* value you choose for the filter will appear as the name of the parameter in the URL after the filter is applied. You'll need to reference this value later, so try to pick something unique and descriptive.

In the example pictured above we've added a filter with a field type of "Connection Opportunity". As a result, a person accessing the page will be prompted to select a specific opportunity. We're only using a single filter here, but you can add as many filters as you need. Each filter functions independently from the others, so you can use a variety of different field types.



Now that a value has been selected the person should click the <code>Filter</code> button to apply it. Depending on your setup, the <code>Filter</code> button will do different things. It might redirect the person to a new page, or it could cause data to change in another block on the same page. In any case, it will update the URL with the filter's <code>Key</code> and the value of the person's selection.

Using our connection opportunity example, you can see below how the *Key* ("ConnOpp") and the GUID (of the "Greeter" opportunity) have been added to the URL.

```
Before:
https://rocksolidchurchdemo.com/page/123

After:
https://rocksolidchurchdemo.com/page/123?ConnOpp=6A7935B2-A97D-4F9D-82B3-4F835533325F
```

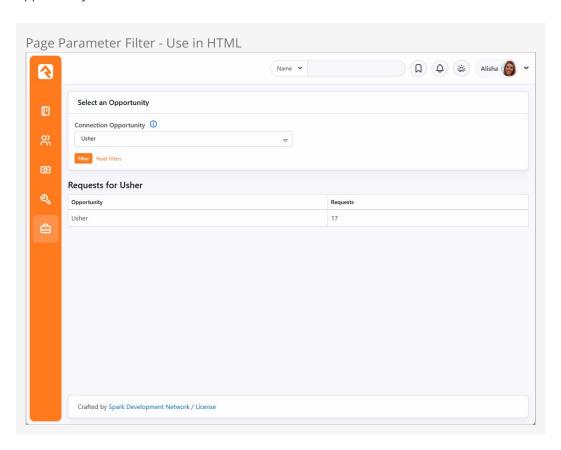
If you configured the block to redirect people to a different page, then the filter information will be appended to the URL of the target page in the same way. This can be very useful if the target page has a block that expects this information to already be in the URL, which won't happen until after the person clicks the Filter button.

Page Parameters and Lava

When combined with Lava, this block becomes a powerful tool that can be used in a variety of ways. All you need to do is add {{ 'Global' | PageParameter: 'ConnOpp' }} to a workflow, report or anywhere else Lava is used. Just replace "ConnOpp" with the *Key* for your filter, and the doors are open.

Some blocks, like the HTML Content block, will need to have the RockEntity command enabled for this Lava to work. Pictured below is a basic example of an HTML block using

the GUID of a connection opportunity to display the number of requests in the opportunity.



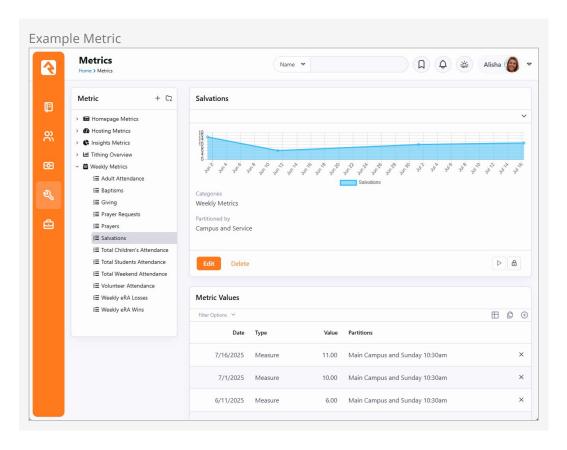
See our Lava documentation for more information.

Metrics

- "What's measured improves."
- -Peter Drucker

Using metrics can help provide your organization with a framework for improvement by tracking key performance indicators. Metrics describe what's going on under the hood of your organization.

Rock includes a full set of features for tracking and displaying metrics. First let's walk through how we define metrics and then we'll look briefly at how we can present metrics in some useful ways.

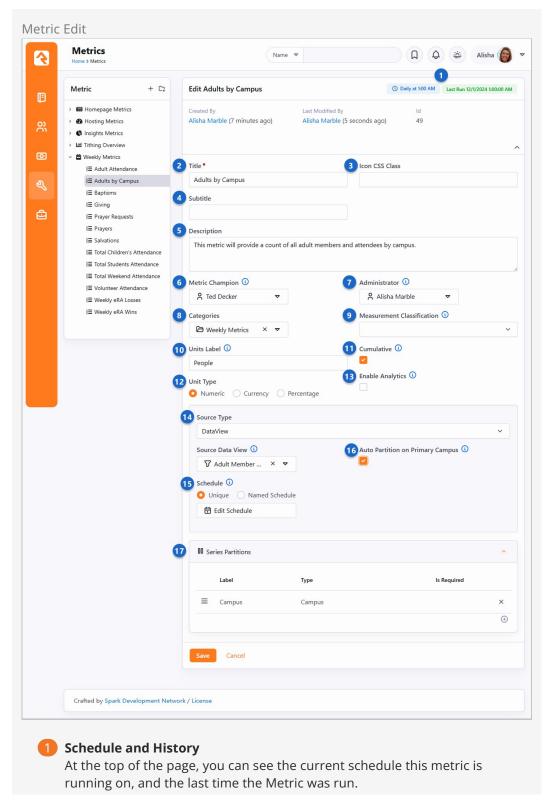


Anatomy of a Metric

Metrics are defined with categories, very similar to data views and reports. This allows you to organize them in a way that makes sense for your organization. One thing that is

unique about metrics is that they can be linked to more than one category. This allows you to re-use them in several areas of your metric hierarchy.

So how do we create a new metric? Administrating metrics is done under Tools > Metrics. For our example we'll create a new metric that displays the number of adult members and attendees we've had each week. Here are the details of the completed metric with callouts for each field.



2 Title

Be sure to provide detailed titles for your metrics that not only make sense to you, but also to those who will be using these metrics in the future.

3 Icon CSS Class

The CSS class of the icon you wish to associate with the metric. This is used in the display of the metric. Rock uses the Font Awesome icon set by default, but any CSS based icon set can be used if properly configured.

4 Subtitle

The subtitle will be shown on graphs and charts.

5 Description

You'll be tempted to just skip right over this field, but you'll regret that in the future. No matter how obvious you feel this metric is, future you is screaming for you to add details about what is being measured, how it's calculated, any filter specifics (like only members), etc. Be kind to future you and document as much as you can. When you're done, go ahead and thank yourself ahead of time.

6 Metric Champion

One of the keys to good metrics is good documentation. In that regard we've worked hard to be sure that metrics become self-documenting. The metric champion allows you to note the person in your organization who is responsible for confirming that this metric is meeting its goals.

Metric Administrator

The metric administrator is the individual in your organization who is responsible for ensuring that the metric data is entered correctly and is valid.

8 Categories

This field allows you to link your metric to one or more categories.

Measurement Classification

Classifies the metric, to ensure it's known what the metric is measuring. For instance, the Total Weekend Attendance classification would be tied to the single metric that's used for tracking total weekend attendance. This enables the system to utilize these metrics for analytics. See below for additional details.

10 Units Label

The y-axis label describes the units of what is being measured (people, groups, money, etc.)

11 Cumulative

Some metrics make sense to compare year-to-date, others - not so much. For instance, it's often helpful to look at year-to-date values for adult members and attendees. But a metric that tracks attendance for a service or event often does not make sense to evaluate the same way. This field allows Rock to know if cumulative comparisons make sense for this specific value.

12 Unit Type

Metrics can track different types of data, so you can use the *Unit Type* setting to tell Rock you're working with numbers, currency or percentages.

What you choose here will determine how the metric values appear in different areas, like on the metric's chart. For instance, if you select *Percentage* then the y-axis on the chart will show 10%, 20%, etc.

13 Enable Analytics

Check this box if you want the metrics to be made available for use by analytic tools such as Power BI.

14 Source Type

The source type defines how the metrics will be entered into the system. The options are:

- Manual: Metric values will be entered in manually.
- **SQL:** A SQL statement will be run to populate the values. Once you select this option a SQL entry input will be displayed. The help menu for the SQL field provides in-depth information on how your SQL should be formatted.
- **Data View:** A data view will be executed, and the count of its values will be added to the metric with the date it was run. The help field here also displays information on configuring your data view.
- Lava: Lava will be used to generate the values. When you select this option, a Source Lava field will be displayed. This is where you add your Lava code. The help menu offers examples of Lava that could be used for metrics. To learn more about Lava, go to https://community.rockrms.com/lava.

15 Schedule

The metric schedule helps determine how often this metric is calculated. When used with the SQL, Lava and Data View source types, this field will actually tell Rock when to automate the harvesting of metric values.

16 Auto Partition on Primary Campus

Data View source types don't support partitions, with one exception. If your data view returns people, and if you only have a single Partition of type Campus, you can select this option to have the metric return people by campus.

17 Series Partitions

For simple metrics you're done, you can skip this section. Often times though you want to break your metrics down by campus, or maybe campus then service time. Setting up series partitions allows you to do just that. You always get the date partition (that's free), but you can set up as many partitions as you feel necessary (but more than two can get a bit complex).

Supercharge Your Metrics with Lava

Using Lava as the data source for your metrics is powerful. With Lava entity commands you can now access data from external systems and include it in your reporting. For example, you can use the web request command to make remote API calls and pull bank account balances from your accounting system, data from Planning Center, or info from Church Metrics. When it comes to Lava and reporting, the sky is the limit! To learn more about Lava, go to https://community.rockrms.com/lava.

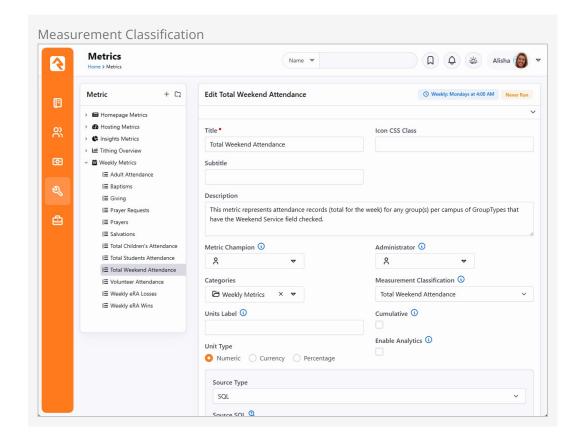
Measurement Classifications

Measurement Classifications help Rock unlock deeper insights from your metrics by adding meaning and context to the data they capture. Each metric in Rock can be assigned a specific classification that indicates exactly what that metric measures. For example, you might classify a metric as "Total Weekend Attendance" to give Rock a clear, consistent understanding of that data point across all systems.

The Measurement Classifications that ship with Rock are listed below:

- **Total Weekend Attendance:** This metric measures the total weekend attendance for the organization, partitioned by campus and schedule.
- **Volunteer Attendance:** Measures the number of volunteers that served for the given week. Partitioned by campus and schedule.
- **Prayer Requests:** The number of active prayer requests for the given week. This metric should be partitioned by campus.
- **Prayers:** The number of prayers for the given week. This metric should be partitioned by campus.
- **Active Families:** The number of active families in the given week. This metric should be partitioned by campus.
- **Baptisms:** The number of baptisms in a given month. This metric should be partitioned by campus.
- **Giving:** This metric represents weekly giving. It's up to you to define the financial accounts that make up this metric. This metric should be partitioned by the campus of the financial account. Review the account list in this metric to decide if you want to modify the <code>@Accounts</code> variable.
- **eRA Weekly Wins:** Tracks the number of individuals who attained eRA status within the current week. This metric should be partitioned by campus.
- **eRA Weekly Losses:** Monitors the number of individuals who exited eRA status in the current week. This metric should be partitioned by campus.

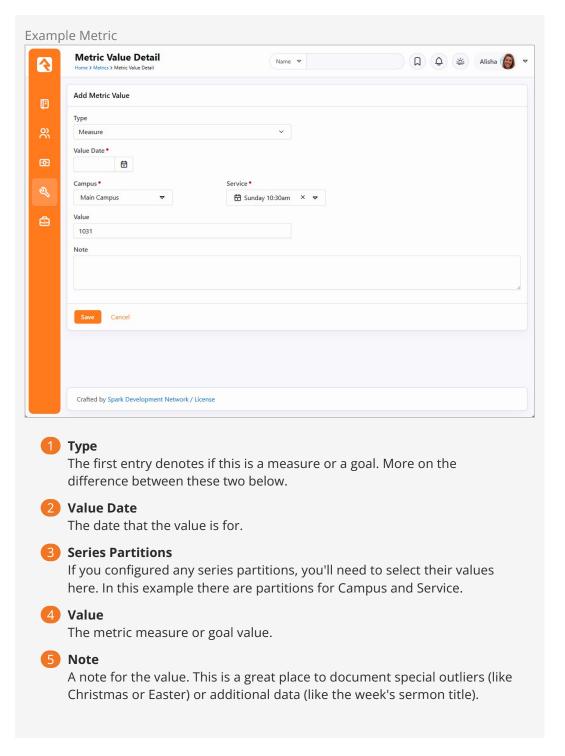
Using one metric for each classification ensures that we have a single, reliable source of truth for critical data like attendance or giving. This accuracy allows Rock to automate tasks, create reports, and even generate future features that draw directly from your specific metrics, tailored to match what each metric represents. Without *Measurement Classifications*, Rock could only see raw data points. Now, it knows what each one means.



To use *Measurement Classifications* effectively, select the correct classification for applicable metrics and be sure to configure your metrics precisely as specified. Each classification is associated with a Defined Value, which outlines essential configuration requirements for that metric. Think of these requirements as a blueprint. They help ensure the data tagged with a classification fits consistently within Rock's framework. If a metric doesn't exactly match these requirements, it shouldn't carry the classification, since even small discrepancies could lead to inaccurate results.

Entering Metric Values

There are two types of metric values you can enter. Each one is discussed in detail below.



Measures

Measures are the actual values for a metric. In most cases they contain a date/time and a value. You also have the option to provide a note. This is helpful to explain outliers or special situations.

Goals

It's often good to track goals for your metrics. This lets you see how well you're actually doing. Goals can be entered with broad date ranges if you want. For instance, if you'd like to set a single goal value for the entire year, you could simply add two goal values.

One for January 1st and the other for December 31st.

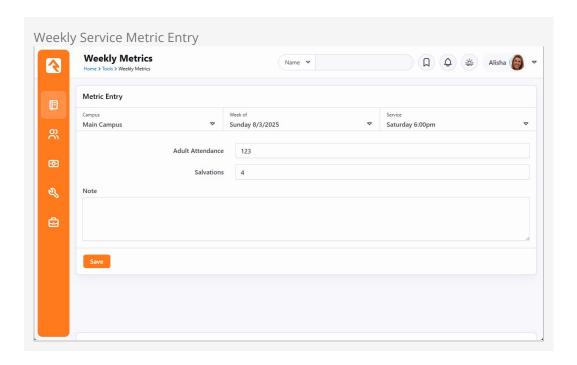
Metric Charts

The easiest way to view metrics values is to look at the charts that appear above the metric definition. This will show you all of the values entered for the metric. You can edit the *Metric Detail* block's settings to change what the chart shows and how it looks.

If you would like to have more options for displaying metrics, take a look at the Metrics Dashboards chapter below.

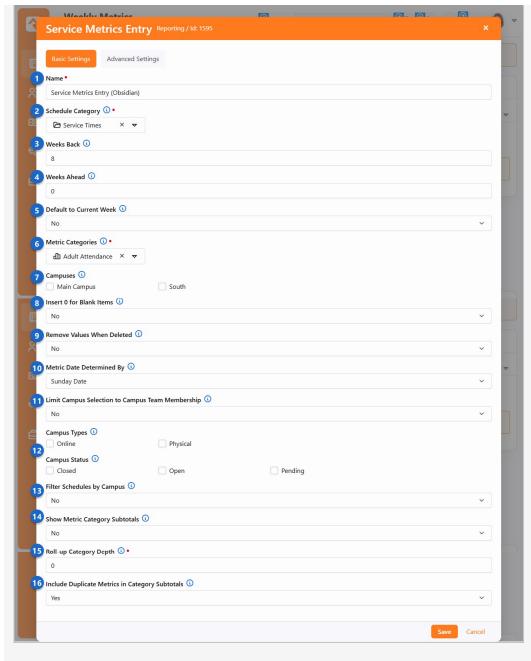
Service Metric Entry

You'll often have the need to enter metrics that follow the partition pattern of "Campus > Sunday Date > Service Time". We've created a simple entry page for you to enter these types of metrics into. You'll find this page under Intranet > Weekly Metrics. Click the drop-down menus along the top of the block to select the service for which you want to add metrics.



Pictured below, there are several block settings that allow you to configure the block, the metrics you wish to enter and how the metric date should be determined. Please note that the image below is an Obsidian block.

Weekly Metrics Entry - Block Settings



1 Name

You probably won't need to change this, but if you want to customize the block's name you can do so here.

2 Schedule Category

This is where you'll identify the schedule category that has your service times.

Weeks Back

For this block, you don't need to scroll through a list of every service you've ever had. Still, it's likely you'll need to add metrics for services in the recent past. This setting lets you control how far back, in weeks, you can enter service metrics.

4 Weeks Ahead

Similar to the above setting, you can control how far ahead metrics can be entered for a service. A value of zero, as shown in the screenshot, won't

let you select any services beyond the current week.

5 Default to Current Week

When enabled, this block will bypass the step to select a week from a list and will instead skip right to the entry page with the current week selected.

6 Metric Categories

This setting determines which metrics will be entered on the page. In this example, the weekly metrics of "Adult Attendance" and "Salvations" have been selected in the block's settings, allowing fields for those metrics to appear on the page for data entry.

Campuses

You can optionally limit this block to one or more campuses. If no campuses are selected, then metrics can be entered for any campus.

8 Insert 0 for Blank Items

When it comes to metrics, there can be a pretty big difference between a blank/empty value and an actual zero. If this setting is enabled, any blank values will automatically be replaced with a "0" by Rock when you save.

9 Remove Values When Deleted

If enabled, metrics that already exist will be deleted if you remove the number from the entry page. This would result in a blank value, so the metric will not be deleted if you've enabled the Insert 0 for Blank Items option above.

10 Metric Date Determined By

This setting determines what date to use when adding the metric. 'Sunday Date' will use the selected Sunday date from the page. 'Day from Schedule' will use the first day that's configured from the schedule selected above. When using 'Day from Schedule' remember that Sunday is the last day of the week.

111 Limit Campus Selection to Campus Team Membership

If you have Campus Teams set up then you can enable this setting to narrow down the list of campuses to only the ones where the person is part of the Campus Team.

12 Campus Type and Status

Selecting options here will limit the campuses available for entry according to their Type and Status. For instance, you might only want to show *Physical* campuses that are *Open*.

13 Filter Schedules by Campus

Enabling this will restrict the Schedules available to only those associated with the campus. This only applies if you have Campus Schedules configured.

14 Show Metric Category Subtotals

As pictured below, you can enable this to sum up metric values by category. Higher-level categories would provide a sum of the child categories beneath it.

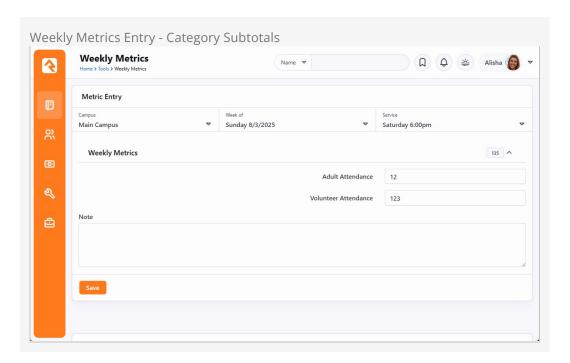
15 Roll-up Category Depth

This setting determines how far up in the category tree you should go (1 = parent, 2 = grandparent, etc.) when entering metrics..

16 Include Duplicate Metrics in Category Subtotals

A single metric can be in more than one category. This setting determines if it should be counted more than once when it appears in multiple categories.

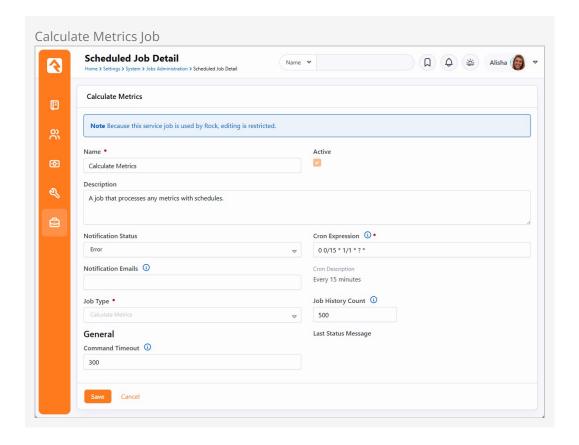
Below, you'll find an alternative view of the *Weekly Metrics* page, showcasing the activation of some of the optional block settings mentioned earlier. Specifically, the options related to the metric categories.



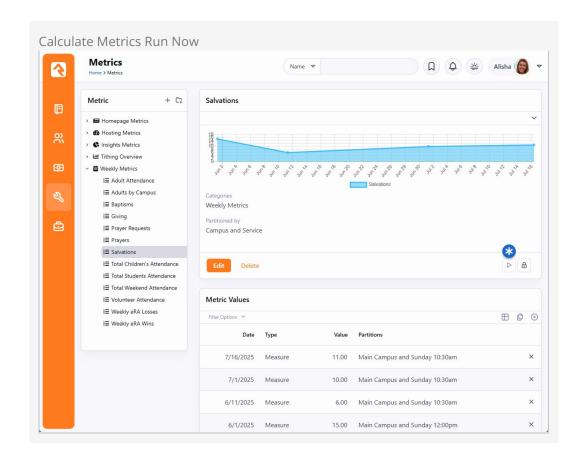
Calculating Metrics

Metric values can be added using the methods described above. However, metrics that use a *Source Type* of SQL, Data View or Lava can be automatically calculated based on a schedule you provide when editing or creating the metric. The calculations are performed when the *Calculate Metrics* job is run. As pictured below, this job runs once every 15 minutes to process any metrics that need to be calculated based on their schedule. If you have a SQL metric that takes a long time to process, you can adjust the *Command Timeout* job setting to allow the calculation to be completed.

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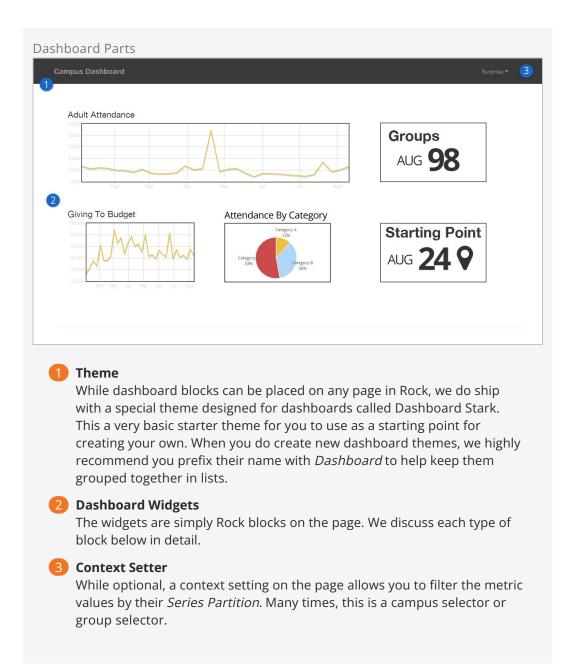
Metrics can also be calculated on demand, rather than waiting for the Calculate Metrics job to calculate the metric based on its schedule. Simply click the button pictured below to calculate any metric that uses SQL, Data View or Lava as its *Source Type*. Manually calculating a metric in this way will not disrupt the schedule on which it normally calculates.



Metrics Dashboards

We've seen that metrics provide a limited graphing capability for viewing their values. What if you want to create enhanced dashboards for viewing your metrics? Rock ships with several blocks to help you create rich dashboards based off of metrics.

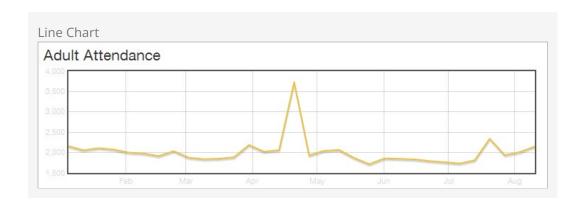
Anatomy of a Dashboard



Dashboard Blocks

Rock ships with several dashboard widget blocks. Each of these blocks is shown below.

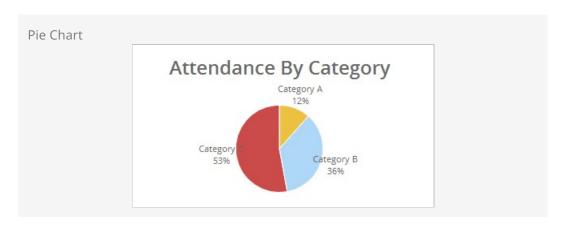
Line Chart



This block displays a line chart for the selected metric. Options include:

Title	Description
Name	This is the block name. It is not displayed anywhere on the output of the block.
Title	The title that is displayed for the metric.
Subtitle	The subtitle for the metric.
Column Width	The number of Bootstrap columns the chart should use for its width. (A Bootstrap row, by default, has 12 columns.)
Chart Style	The chart style to use. These styles are defined under Admin Tools > Settings > Defined Types > Chart Styles.
Metric	The metric to use for the chart.
Partition Filter	Determines how the chart will get the series partition value. It can be either hard coded or determined from the page context.
Date Range	Determines which values are displayed on the graph.
Detail Page	This optional setting will determine which page will be loaded when the graph is clicked.

Pie Chart



This block displays a pie chart for a given metric. Options include:

Title	Description
Name	This is the block name. It is not displayed anywhere on the output of the block.
Title	The title that is displayed for the metric.
Subtitle	The subtitle for the metric.
Column Width	The number of Bootstrap columns the chart should use for its width. (A Bootstrap row, by default, has 12 columns.)
Chart Style	The chart style to use. These styles are defined under Admin Tools > Settings > Defined Types > Chart Styles.
Metric Value Type	Determines what metric value types should be displayed on the chart, goals and/or measures.
Metrics	The metrics to use for the chart. Each metric will represent one slice of the pie chart.
Date Range	Determines which values are displayed on the graph.
Detail Page	This optional setting will determine which page will be loaded when the graph is clicked.

Lava Dashboard Widget



This block renders the metric values using a Lava template. Options include:

Title	Description
Name	This is the block name. It is not displayed anywhere on the output of the block.
Title	The title that is displayed for the metric.
Subtitle	The subtitle for the metric.
Column	The number of Bootstrap columns the chart should use for its width. (A

Title	Description
Width	Bootstrap row, by default, has 12 columns.)
Round Values	Round Y values to the nearest whole number. For example, display 25.00 as 25.
Metric	The metrics to use for the chart.
Lava Template	The Lava template to render the output for display.

See our Lava documentation for more information.

Under Construction

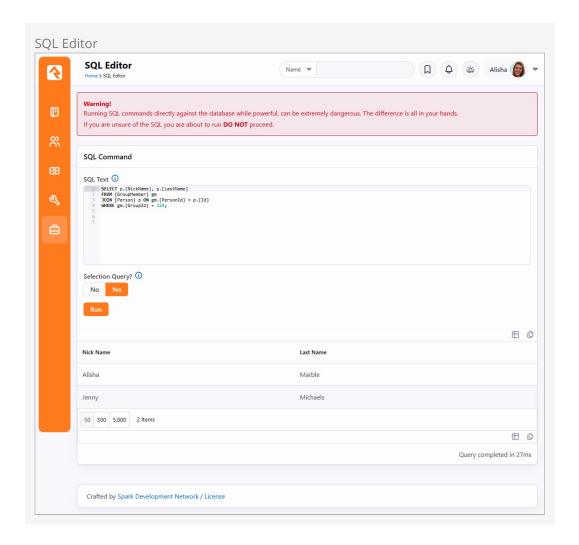
Work is still being done on the metrics dashboard features. Expect changes that may impact configuration settings. Feel free to play with these features but don't roll them out in production just yet.

SQL Editor

While not technically a reporting tool, the SQL Editor page (Admin Tools > SQL Editor) allows you to execute a SQL statement right in the browser. This makes it possible for administrators and developers to perform many tasks without requiring software like SQL Server Management Studio.

Warning

Special Care should be taken with this tool, since it does permit UPDATES to your database. Since it is possible to quickly wipe out swaths of data, access to this page/block should be minimized to people with something to lose in return.



For additional details check out the Rock Admin Hero Guide.

Business Intelligence

Rock's Business Intelligence features are so cool, they deserve their own book!