Getting Started with

Samurai

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1 Introduction

Samurai is a web-based tool that allows you to generate line charts, reports, and totals for the predefined tables.

This document helps you getting familiarized with the Samurai interface and provides detailed instructions to perform various tasks in Samurai.

1.1 Document Revision History

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Version Number	Revision Date	Description
1.0	12th July 2017	First Draft

1.2 Understanding the Terminology

This section serves as a glossary, where all the terms used in Samurai are explained.

Term	Description
Namespace	Indicates the name of the data source that lists all the tables available to generate a report.
Tables	Holds the dimensions that are used as filters to generate reports.
Dimensions	Provides a list of all the columns that are available in the selected table. You can drag and drop the required dimension to view data in Samurai. A dimension can be added to the following fields: • Filters • Rows • Columns • Split

Term	Description
Measures	Provides a list of measures (calculated values) that you can add to your report. In addition, Samurai allows you to use the available measures and create a new measure.
Filters	Allows you to add filters to your report. By default, the Date filter is applied to all the reports. You can add dimensions as filters in your report.
Rows	Appears in the Total and Table view, this field allows you to add rows (dimensions) to your tabular format report.
Columns	Appears in the Total and Table view, this field allows you to add columns (dimensions) to your tabular format report.
Split	Appears in the Line Chart view, this field allows you to add dimensions for your chart to split. By default, the Time split is added to the report.
Values	Allows you to add measures and customer measure for your report.

2 Understanding the Graphical User Interface

This section provides information about accessing the Samurai interface and familiarizes you with the different views available to you for generating data. Following are the topics covered in this section:

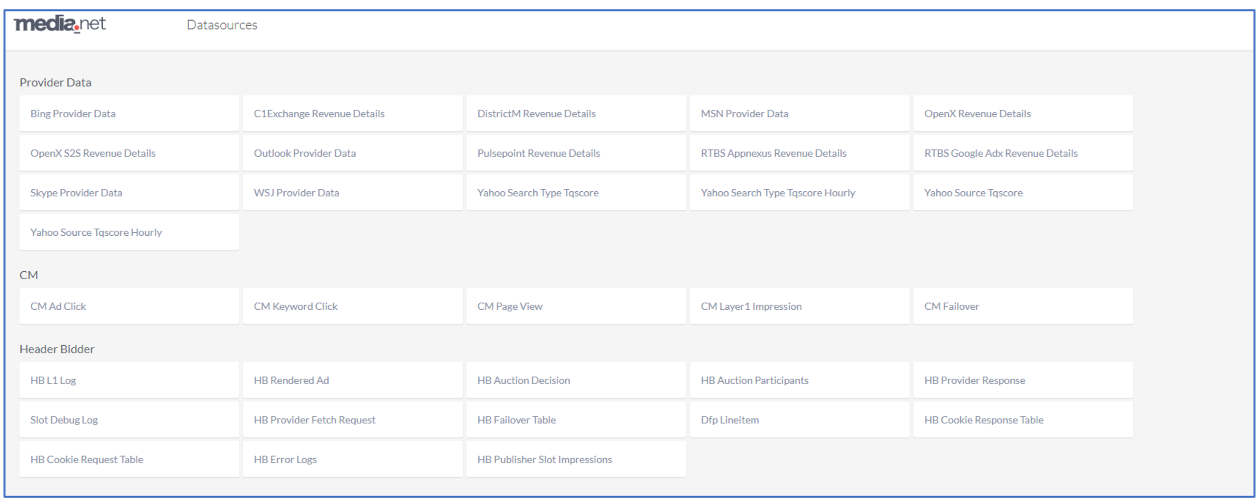
- Accessing the Samurai Interface
- Identifying the Different Views
- Using the Search Feature

2.1 Accessing the Samurai Interface

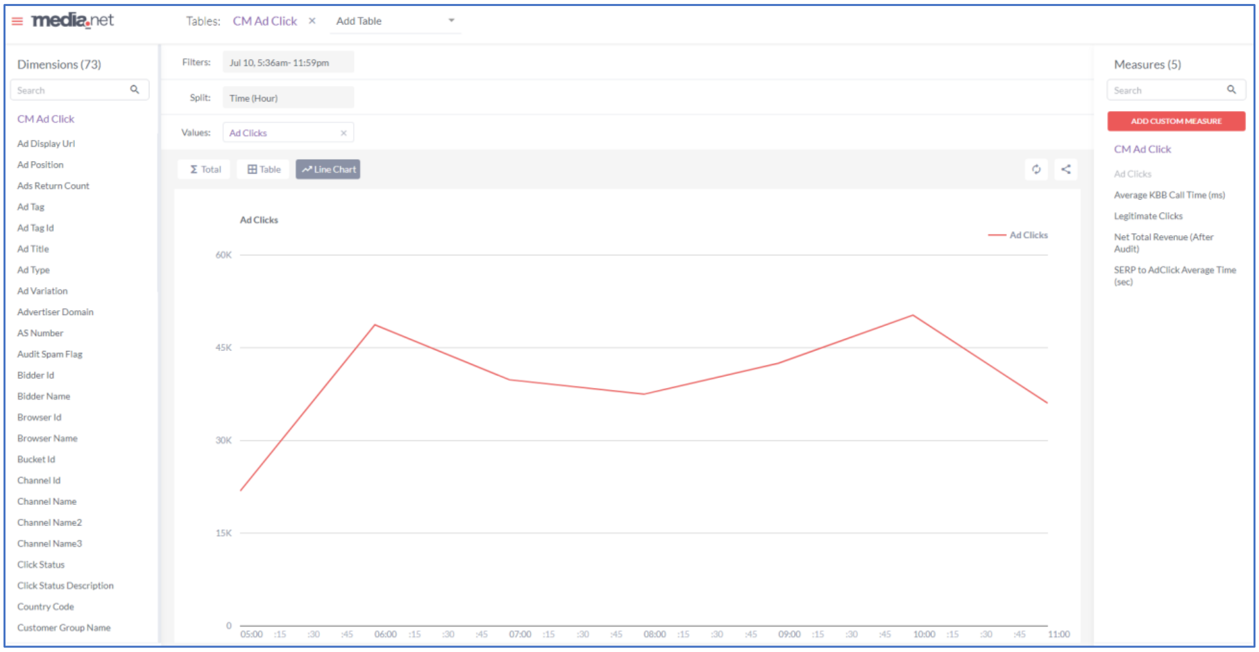
Samurai is a web-based reporting tool, which you can access via Google Chrome or Mozilla Firefox. It provides a drag-and-drop functionality that helps in generating quick reports.

Perform the following steps to access Samurai:

1. Open an internet browser, for example, Google Chrome.
2. In the address bar, type https://samurai.reports.mn.
3. Press ENTER. The Samurai page appears listing all the available data sources.



4. From the list of namespaces, select the namespace using which you want to generate a report. In this example, we will select the **CM Ad Click** table under the **CM** namespace. The Samurai dashboard appears with pre-populated filters and splits.



On the Samurai interface, you can use the different views, dimensions, and filter parameters to generate your report.

2.2 Identifying the Different Views

The Samurai interface provides multiple views that –

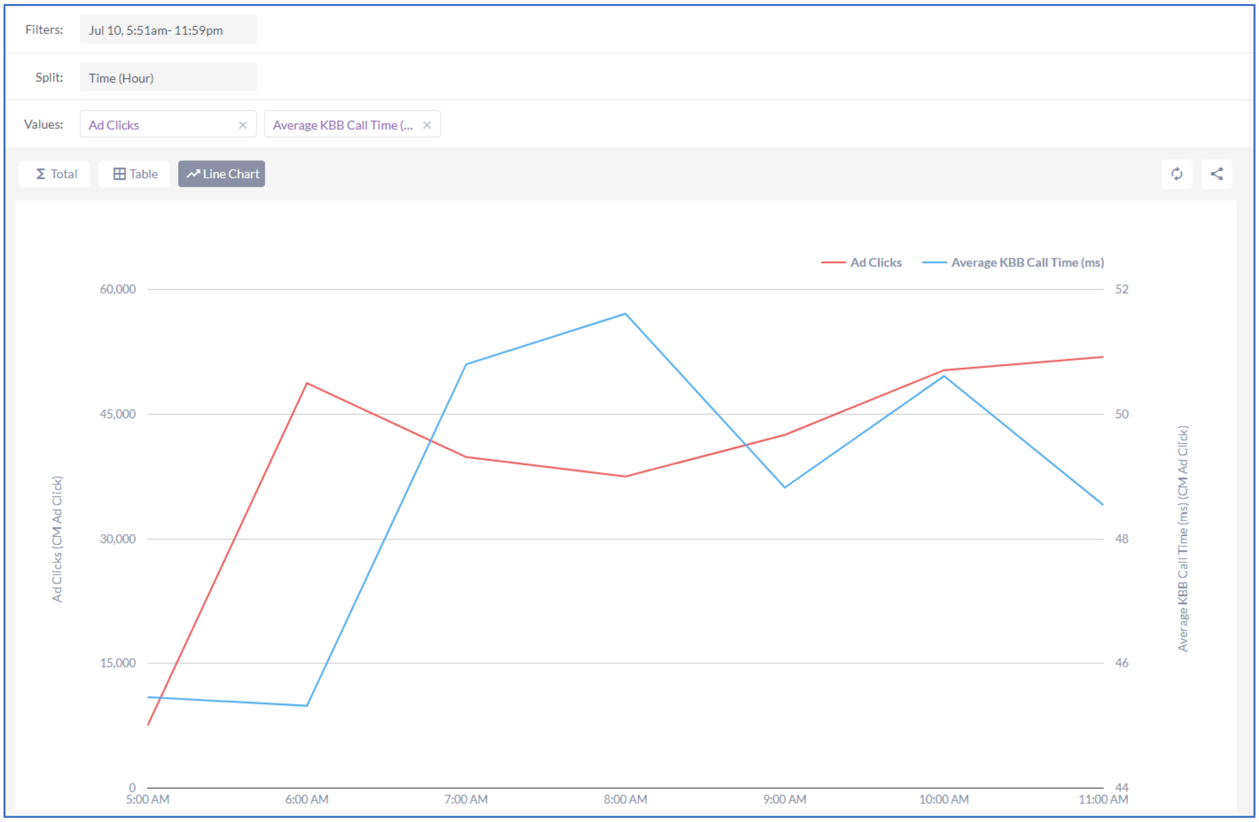
- Displays a grand total of the selected values
- Provides a tabular view of the selected dimensions in rows and columns
- Highlights the data in a line chart

2.2.1 Line Chart View

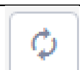
The Line Chart view is the default view of Samurai. Whenever you log into Samurai, it displays the Line Chart view of the selected table, with some pre-defined filters and parameters applied to the report.

The line chart displays the values of the selected measure, for the period specified in the Date filter. In addition, it splits the data in the default Time (Hour) parameter. You can further add dimensions to the Filters and the Split fields to customize your data.

Following is an example of the Line Chart view that highlights the measures (Ad Click and Average KBB Call Time) on the line chart for the specified filter and split.



Apart from the line chart, it also provides the following options to refresh or share the report.

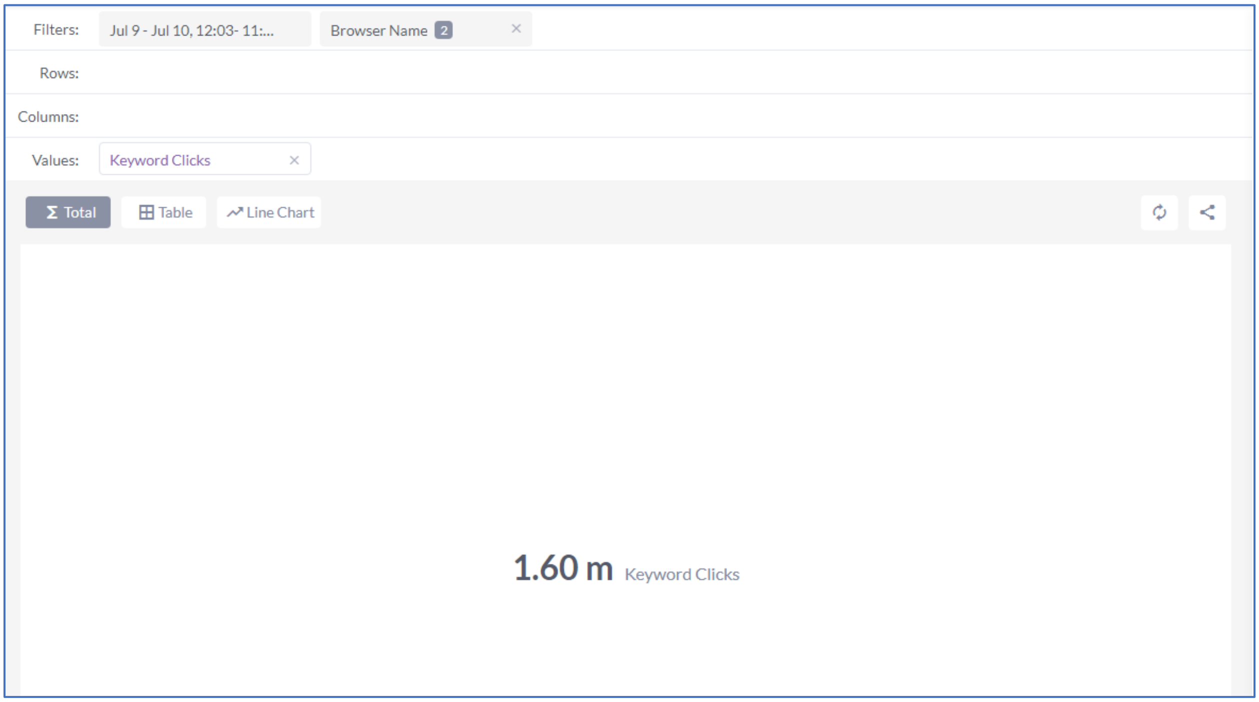
Label	**Icon**	**Description**
Auto-update		Allows you to configure auto refresh for the data. If configured, the data automatically refreshes and updates the line chart. You can select the required seconds in which you want to refresh.
Share		Allows you to share the line chart with other users. Click the icon and copy the URL by clicking the  icon.
Full screen		Displays the table in a full screen view. Press the ESC key on the keyboard to exit the full screen mode.

2.2.2 Total View

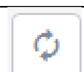
The Total view provides a summed-up value of selected measure. You can add multiple measures in the Values field, and the system will display the total of all the measures.

Keep the Rows and Columns fields blank in the Total view, as the total is shown only for the parameters you add and configure in the Filters field.

For example, you can specify the period in the Date parameter and then add the required dimension to view the total, as shown in the following image.

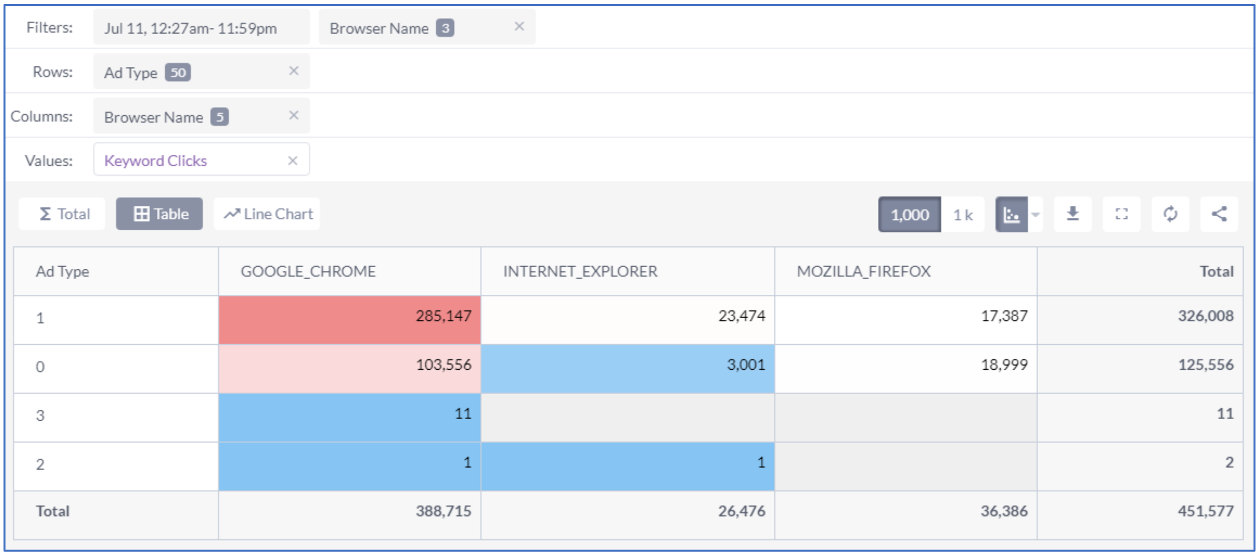


Apart from the total values, it also provides the following options to refresh or share the report.

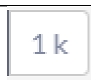
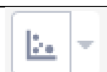
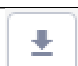
Label	**Icon**	**Description**
Auto-update		Allows you to configure auto refresh for the data. If configured, the data automatically refreshes and updates the total. You can select the required seconds in which you want to refresh.
Share		Allows you to share the line chart with other users. Click the icon and copy the URL by clicking the  icon.

2.2.3 Table View

The Table view displays the data in a tabular format for the selected rows and columns. It allows you to add dimensions in the Filters, Rows, and Columns fields and then displays the values for the selected measure. You can add multiple rows, columns, and other parameters to customize and generate the report.



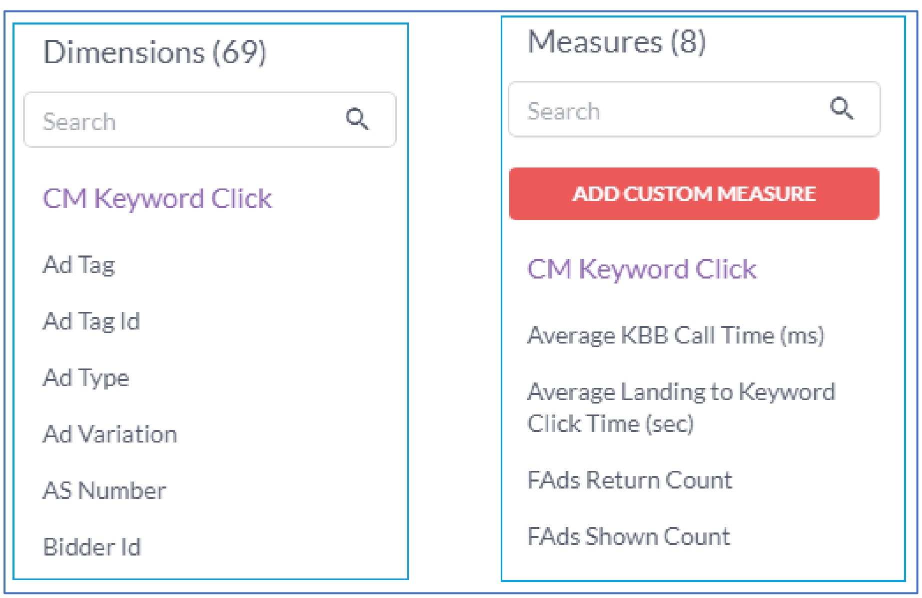
Apart from the tabular data, the Table view provides the following options on the interface.

Label	Icon	Description
1000		Displays the data in thousand. This is the default setting.
1k		Converts and displays the data in k.
Heat map		Allows you to apply heat map on the table. You can apply heat map on all the rows and columns, only to rows, or only to columns. The available options are – • Off • On all data • Row-wise • Column-wise
Download		Allows you to download the current tabular view in an XLS or a CSV file format. It provides the following options – • Download – Downloads the data in an XLS file format. • Download Raw (CSV) – Downloads the data in a CSV file format. • Save to Drive – Saves the XLS file to a drive. • Save Raw to Drive – Saves the CSV file to a drive.
Full screen		Displays the table in a full screen view. Press the ESC key on the keyboard to exit the full screen mode.

Label	Icon	Description
Auto-update		Allows you to configure auto refresh for the data. If configured, the data automatically refreshes and updates the total. You can select the required seconds in which you want to refresh.
Share		Allows you to share the line chart with other users. Click the icon and copy the URL by clicking the icon.
Total		Displays the total of the values.

2.3 Using the Search Feature

The Search feature is available for dimensions and measures. You can perform a free-text search to find the required dimension or measure. The search text box is available in the Dimensions and Measures sections.



3 Using Samurai to Generate Reports

This section provides information about performing certain tasks and using Samurai to generate report. The following topics are covered –

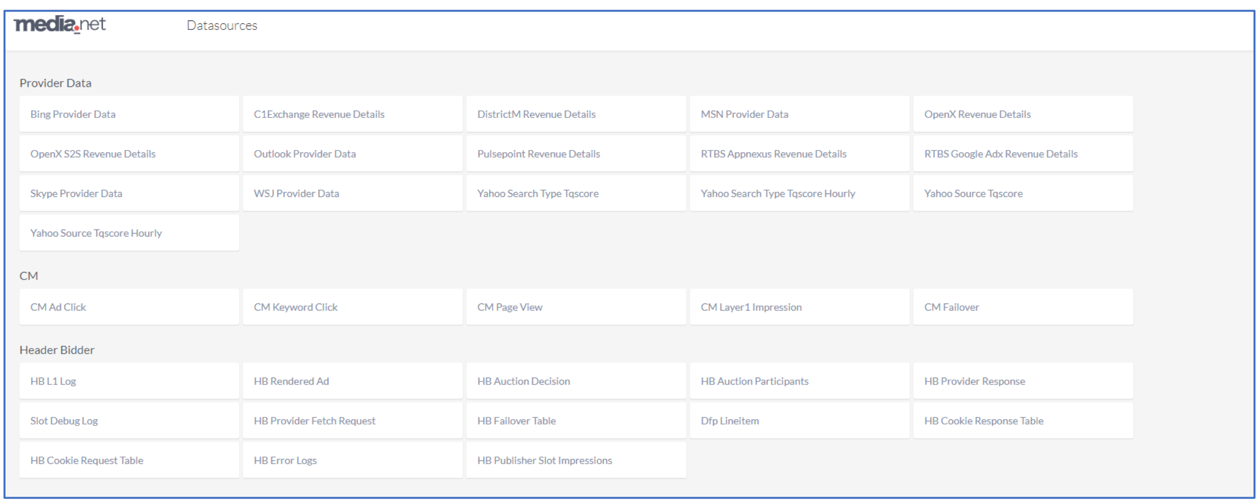
- Selecting a Table from Namespace
- Applying Filters
- Adding Rows and Columns
- Adding a Split
- Adding Measures in the Values Field
- Joining Tables

3.1 Selecting a Table from Namespace

Namespace is the data source that lists all the available tables. You can select a table from the list and then customize the report based on the dimensions and measures available for the selected table.

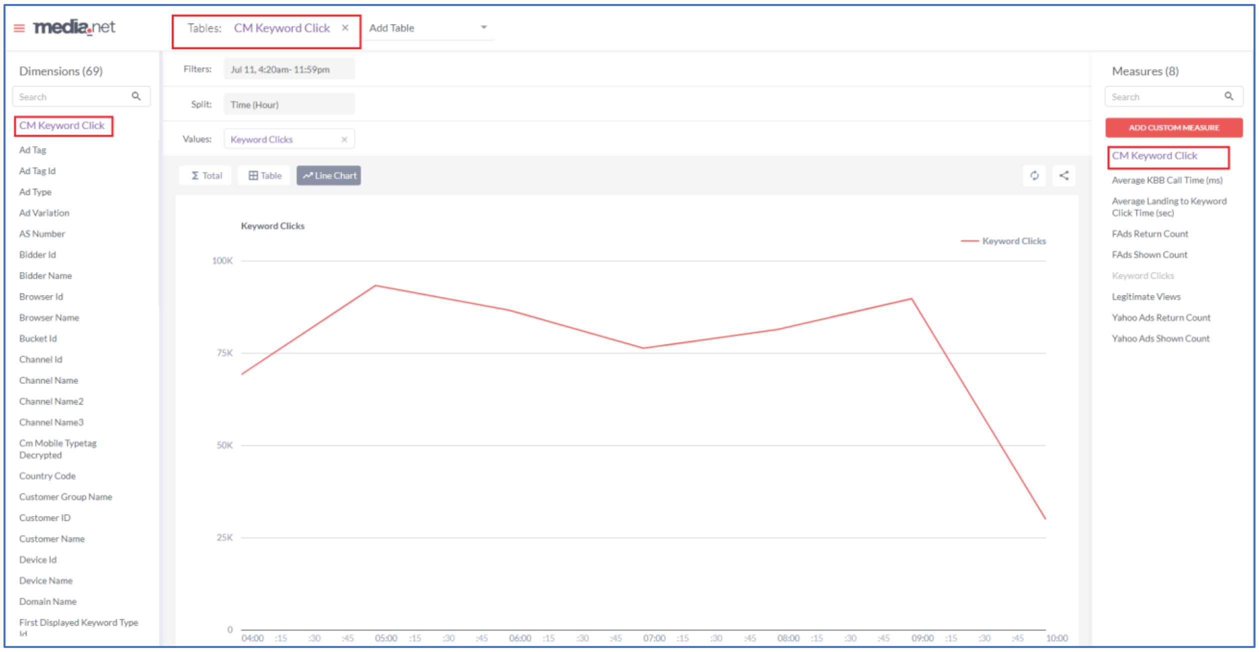
Perform the following steps to select a table from a namespace.

1. Access the Samurai interface using https://samurai.reports.mn. The Datasources page appears.



2. From the available data sources, select the table that you want to use to generate your report. For example, in this case, we will consider the CM Keyword Click table in the CM namespace.

By default, the Line Chart view appears with the predefined filters, split and values applied as shown in the following figure.



The current table name appears at the top of the page. Whenever you add a table, it comes with a color assigned to it. All the dimensions, measures, and values will be of the same color as the table color for quick identification.

If you want to change the table, click the hamburger icon on the top-left of the screen. A list of all the namespaces and tables appear. Expand the namespace and select the required table. The table details are populated on the screen.

3.2 Applying Filters

Using Filters in Samurai allows you to view or hide data for specific conditions. For example, consider a scenario where you want to view data of specific internet browsers. To do this, you need to add the internet browser parameter from the required table and include/exclude the required browsers.

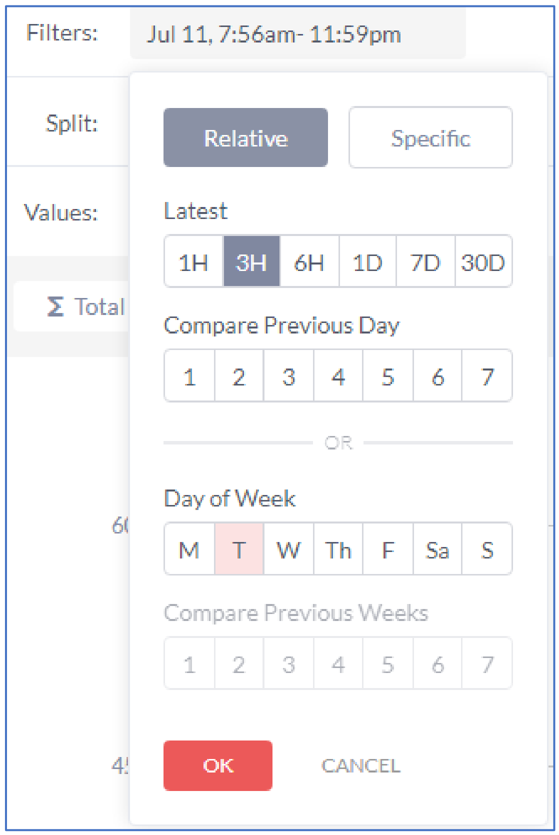
By default, the Date filter is applied to the report. You cannot delete the Date filter from the Filters field. However, you can add multiple dimensions as per your report requirements.

3.2.1 Customizing Date Filter

The Date filter is the default filter applied to all the reports you generate using Samurai. It allows you to specify a relative or specific date.

3.2.1.1 Relative Date

The Relative tab allows you to select relative values for your date range. It provides two sub-sections, Latest and Day of Week.



The **Latest** section allows you to specify the view report for the time –

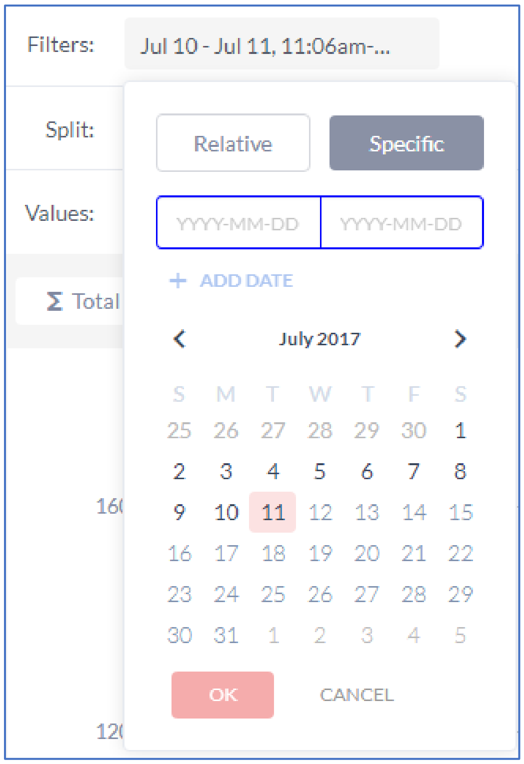
- Last one hour
- Last three hours
- Last six hours
- One day
- Last seven days
- Last thirty days

When you select any of the above options, it takes the current system date as the value and displays the required data. You can also compare the selected hour/day with the previous one to seven days.

The **Day of Week** section allows you to select the day of the current week of which you want to view the data. The current day is highlighted in pink. You can select the required day of the week and can compare it with the same day in any of the seven previous weeks.

3.2.1.2 Specific Date

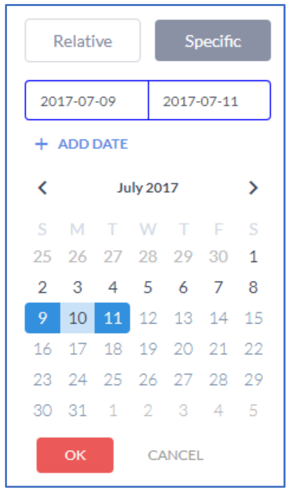
The Specific tab allows you to select custom date range for the period you want to view the data.



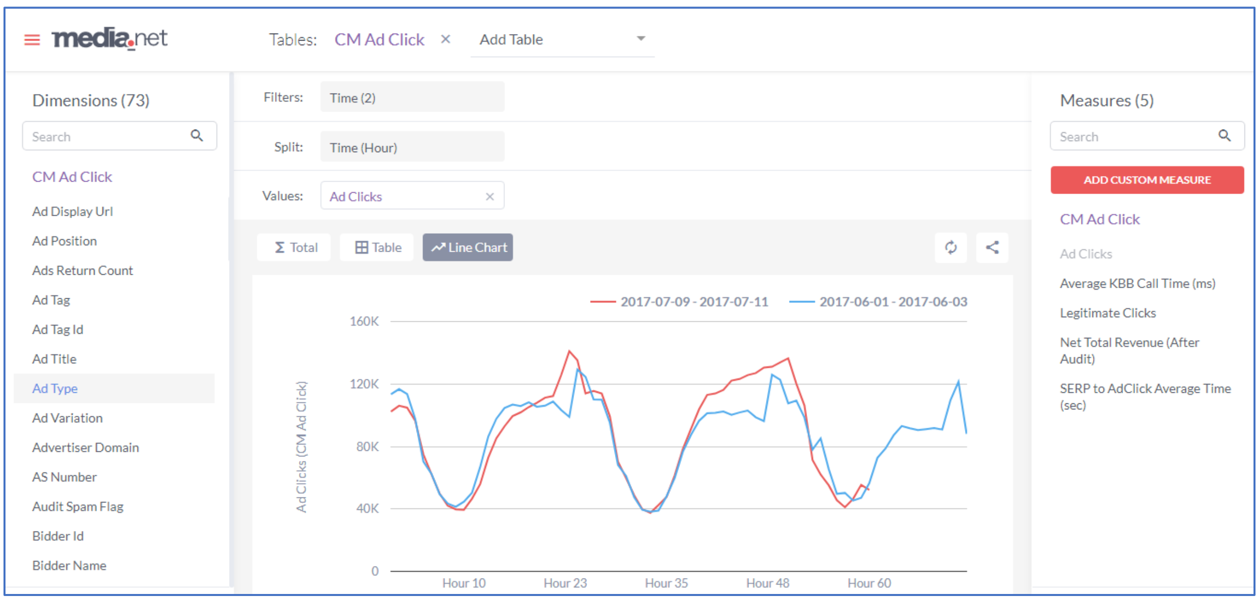
Specific tab also allows you to add multiple date ranges to compare the data. However, if you have selected three days while adding the first date range, then in that case, the other dates should be of the same days.

For example, if we want to compare data of the 9th July 2017 to 11th July 2017 with the data of 1st June 2017 to 3rd June 2017, we should do the following.

1. In **Filters**, click the **Date** filter. The Date filter drop-down appears.
2. Click the **Specific** tab. The calendar view appears.
3. Select the date range from 9th July 2017 to 11th July 2017.



4. Click **Add Date**. A new empty date range is added.
5. Select the date range from 1st June 2017 to 3rd June 2017.
6. Click **OK**. The comparison of both the dates appear on the interface.



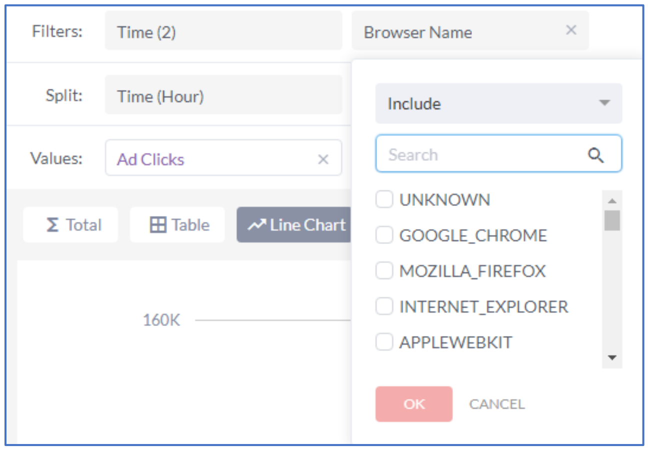
3.2.2 Adding Dimensions to Filters

Samurai allows you to add multiple dimensions to filter your report. You can add dimensions from multiple tables of a single data source.

<u>Perform the following steps to add a dimension to the Filter field.</u>

1. Access the Samurai interface, and select the required table from the namespace.
2. On the dashboard, customize the date filter as required.

3. From the Dimensions pane, search and drag the required dimension, and drop it in the Filter field. Alternatively, in the Dimensions pane, you can left-click the dimension, and then select Filters to add the dimension to the filter.
4. When you add the dimension, it allows you to include or exclude the data as per your requirement.



5. To include certain data, select the **Include** option from the drop-down, and then select the required data that you want to include.
6. To exclude certain data, select the **Enclude** option from the drop-down, and then select the required data that you want to exclude.
7. Click **OK**. The report is updated with the new filters applied.

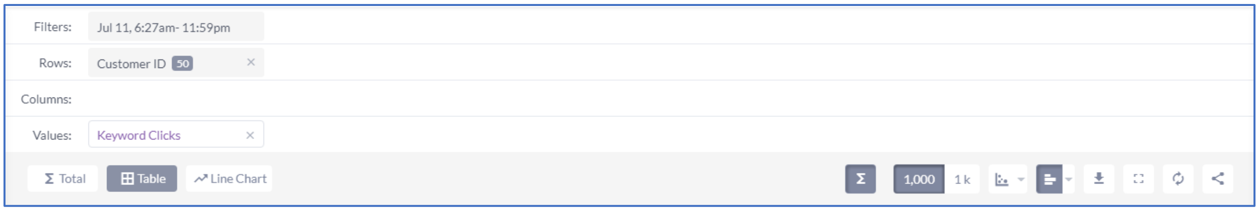
NOTE: For a single dimension, you can apply filter either for include or exclude. You cannot have the same dimension multiple times in the Filter field.

3.3 Adding Rows and Columns

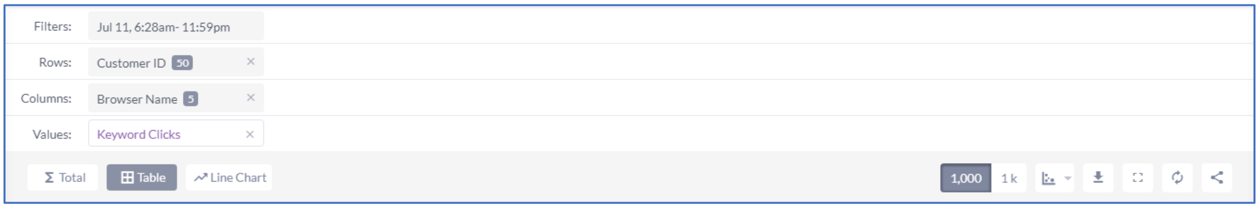
You can add rows and columns in the Table view to view your data in a tabular format. The rows will display the measures that you add in the Values field.

Perform the following steps to add rows and columns to a report.

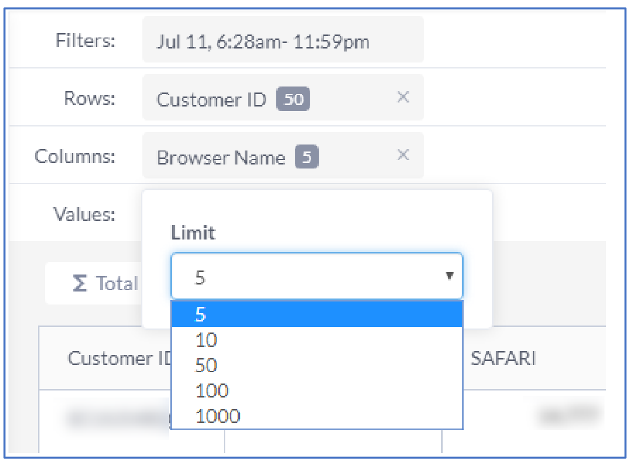
1. Access the Samurai interface, and select the required table from the namespace.
2. Click the Table option to view the table options.
3. Customize the date filter and add other filters, as required.
4. To add a dimension in the **Row** field, from the **Dimensions** pane, drag and drop the required dimension in the **Rows** field. Alternatively, in the **Dimensions** pane, you can left-click the dimension, and then select **Rows**.



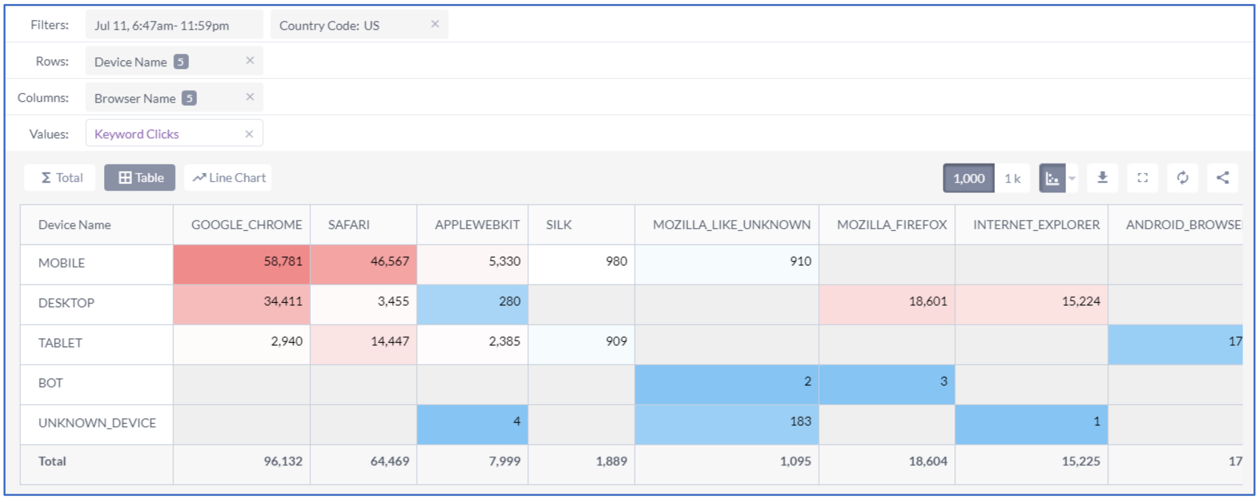
5. To add a dimension in the **Column** field, from the **Dimensions** pane, drag and drop the required dimension in the **Column** field. Alternatively, in the **Dimensions** pane, you can left-click the dimension, and then select **Column**.



6. After you have added the dimension as a row or a column, you can limit the data to the Top 5, 10, 50, 100, and 1000. Click on the dimension in the Row or Columns field to specify the limit.



7. Once you have added the rows and columns, your report is ready. Following is an example of a sample report.



Device Name	GOOGLE_CHROME	SAFARI	APPLEWEBKIT	SILK	MOZILLA_LIKE_UNKNOWN	MOZILLA_FIREFOX	INTERNET_EXPLORER	ANDROID_BROWSE
MOBILE	58,781	46,567	5,330	980	910			
DESKTOP	34,411	3,455	280			18,601	15,224	
TABLET	2,940	14,447	2,385	909				17
BOT					2	3		
UNKNOWN_DEVICE			4		183		1	
Total	96,132	64,469	7,999	1,889	1,095	18,604	15,225	17

3.4 Adding a Split

The Split functionality in Samurai allows you to drill down your line chart on the selected dimensions, measures, and filters. By default, the Time split is added to the line chart. All the line charts will have time as the X axis. You can modify the granularity of the time to the following values-

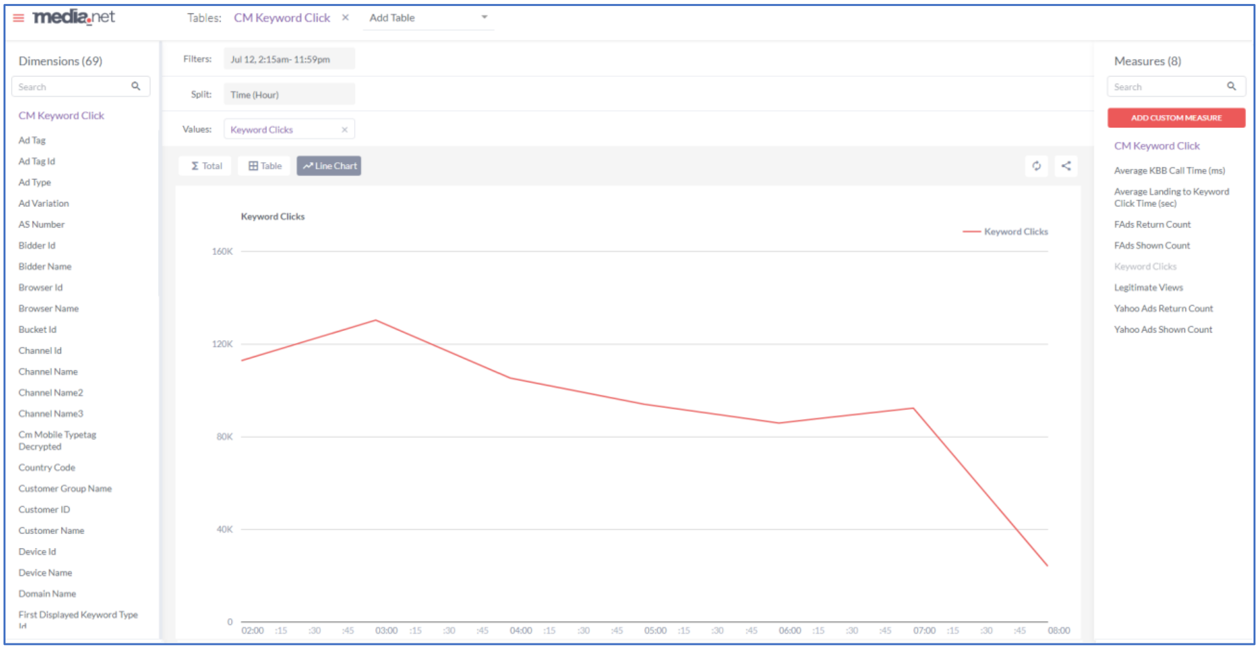
- One minute
- Five minutes
- One hour
- One day
- One week

When adding dimensions to the Split field, there are a few conditions that you should follow. If the conditions are not met, you might get an error on the screen. Following are the conditions:

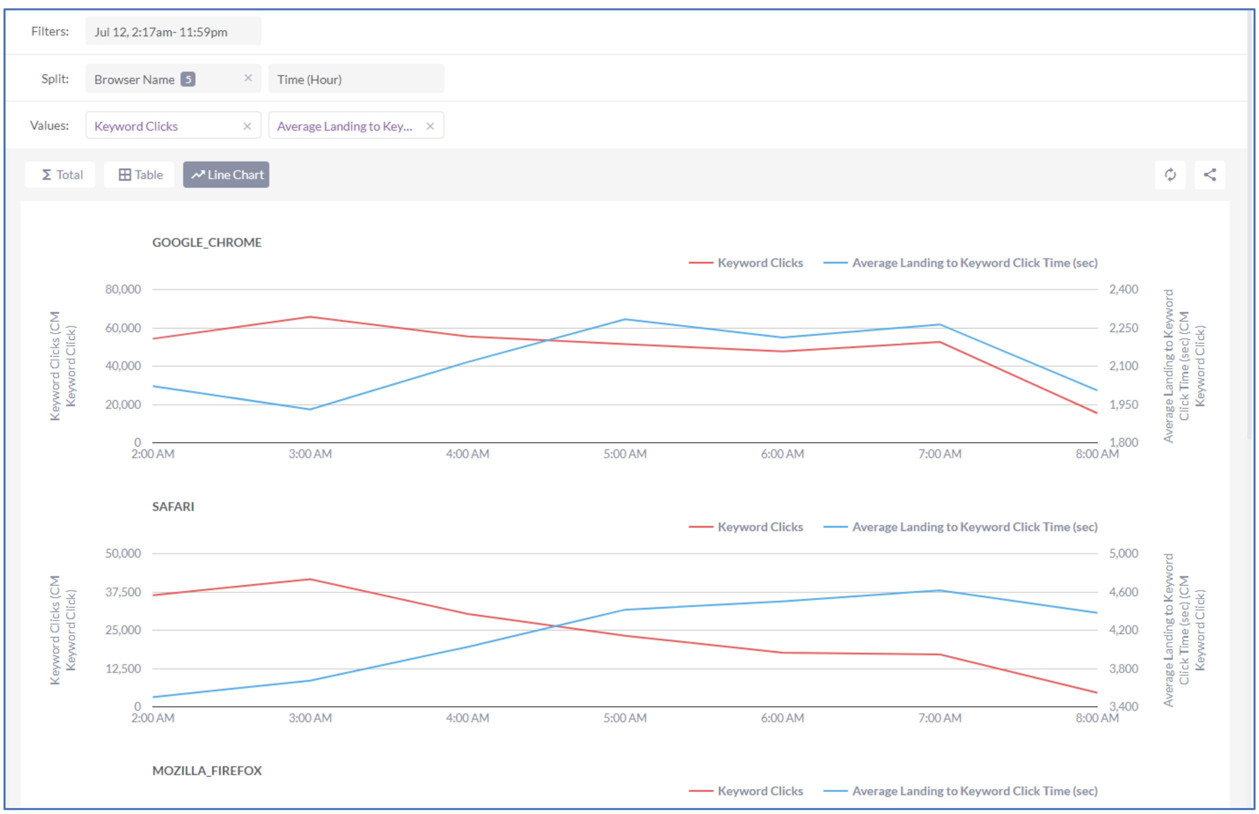
- For a single date range, you can add maximum two dimensions with one single measure.
- For a single date range with one dimension, you can add multiple measures.
- For multiple date ranges, you can add only one dimension and only one measure.

Perform the following steps to add dimensions to the split.

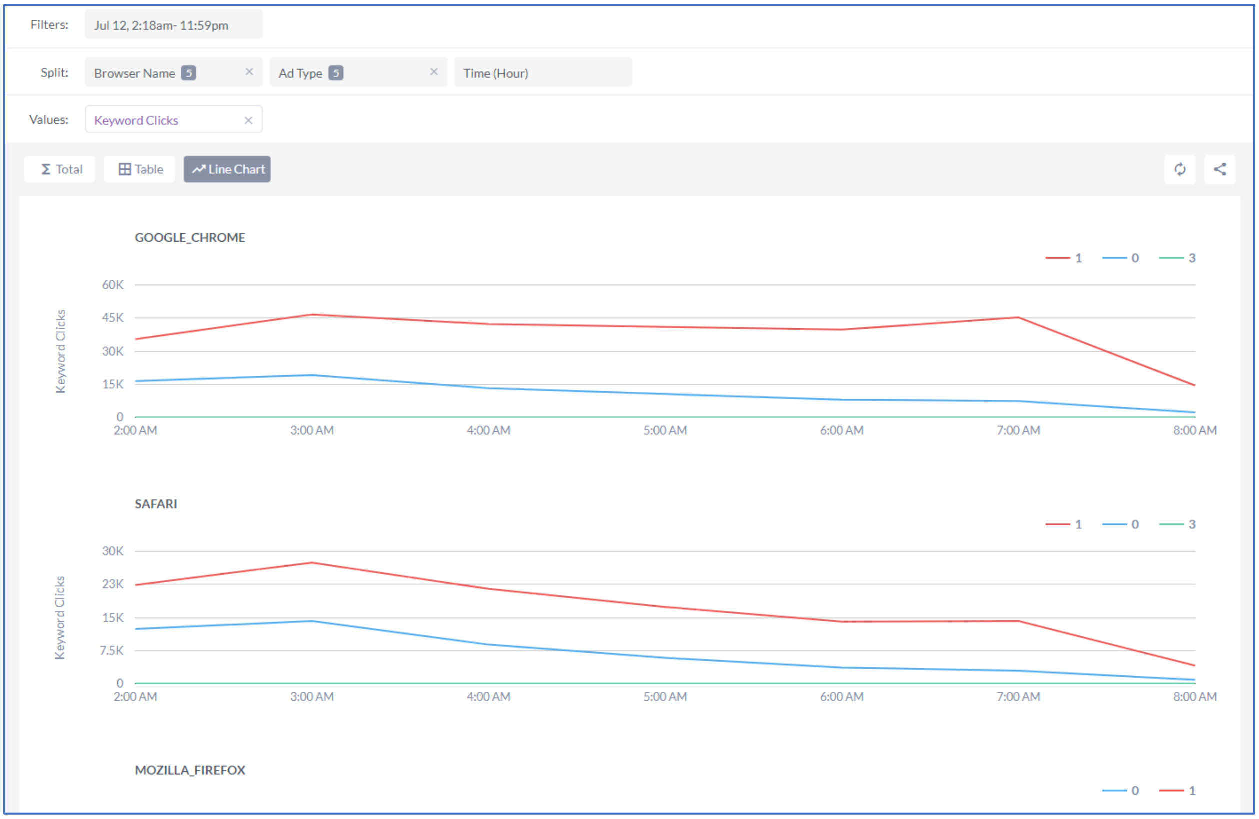
1. Access the Samurai interface, and select the required table from the namespace.
2. Ensure that you are on the Line Chart view.
3. Customize the date filter and add other filters, as required.



4. From the **Dimensions** pane, drag and drop the required dimension in the Split field. Alternatively, you can click the required dimension and select **Split**. The dimension is added.
5. Add the required measures. **In this example**, we have added a single dimension with multiple measures as shown in the following image.



Following is an example where we have added two dimensions with one single measure.



3.5 Adding Measures in the Values Field

This section provides information about the Measures available in Samurai. It provides an overview about the following topic.

- Selecting Predefined Measures
- Creating Custom Measures

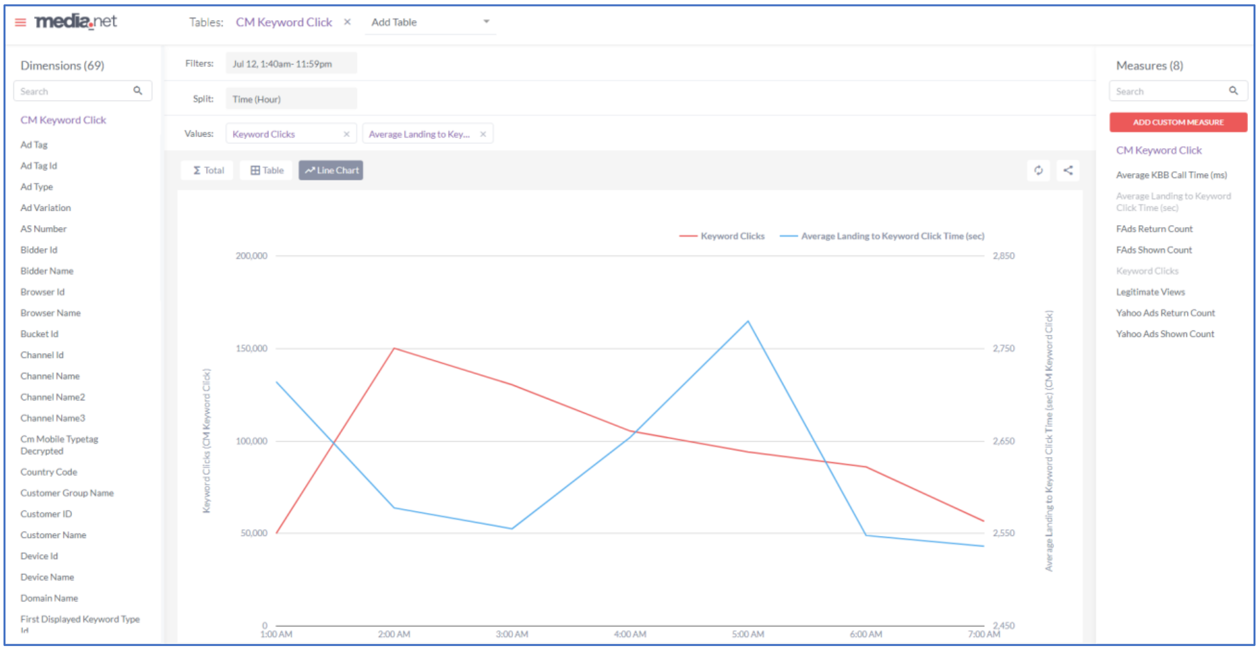
3.5.1 Selecting Predefined Measures

By default, when you select a table, the predefined measures are populated in the Measures pane. These are calculated values that you can add in the Values field. When you generate a report, the corresponding values for the rows, columns, or the split is displayed.

Perform the following steps to add a predefined measure.

1. Access the Samurai interface, and select the required table from the namespace.
2. Select the required view.

3. Customize the date filter and add other filters, as required.
4. Add the required dimensions.
5. On the left, under Measures, find the required measure from the list.
6. Drag and drop the measure from the Measures pane to the Values field. Alternatively, you can double-click the measure to add it to the Values field.



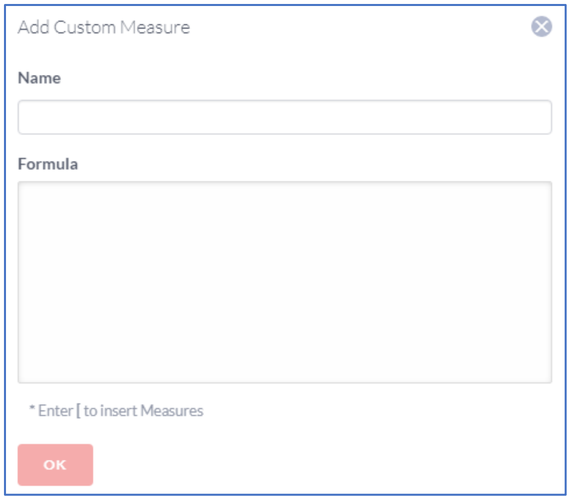
In the above image, you will notice that we have added two measures in the Values field. On the line chart, there are two lines depicting each measure. They are color coded, with legend at the top of the chart, for easy identification.

3.5.2 Creating Custom Measures

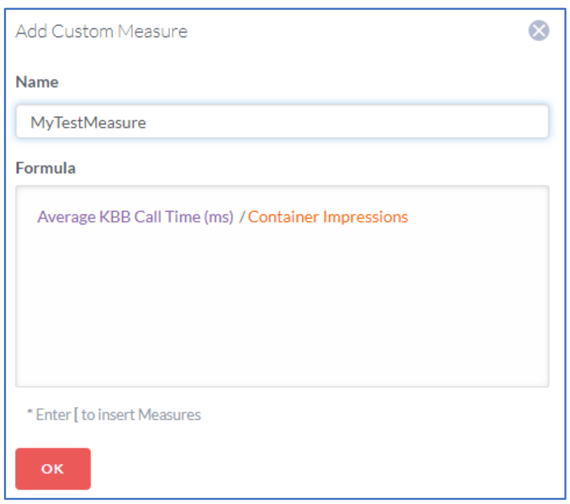
Samurai allows you to create new custom measures by using the existing measures. You can combine measures from a single table or from multiple tables when you have joined two or more tables.

Perform the following steps to create a new custom measure.

1. Access the Samurai interface, and select the required table from the namespace.
2. Specify the required filters, and add the appropriate rows and columns.
3. In the **Measures** pane on the right, click **Add Custom Measure**. The Add Custom Measure dialog box appears.



4. In the **Name** field, enter a description name for the measure.
5. In the **Formula** field, enter the formula for the custom measure. To specify a predefined measure, enter [. A list of all measures for the selected table appears.
6. Add the measure with the appropriate mathematical symbols, as displayed in the following image. You can use + - * / and () for calculations.



7. Click **OK**. The new custom measure appears in the Measures pane.

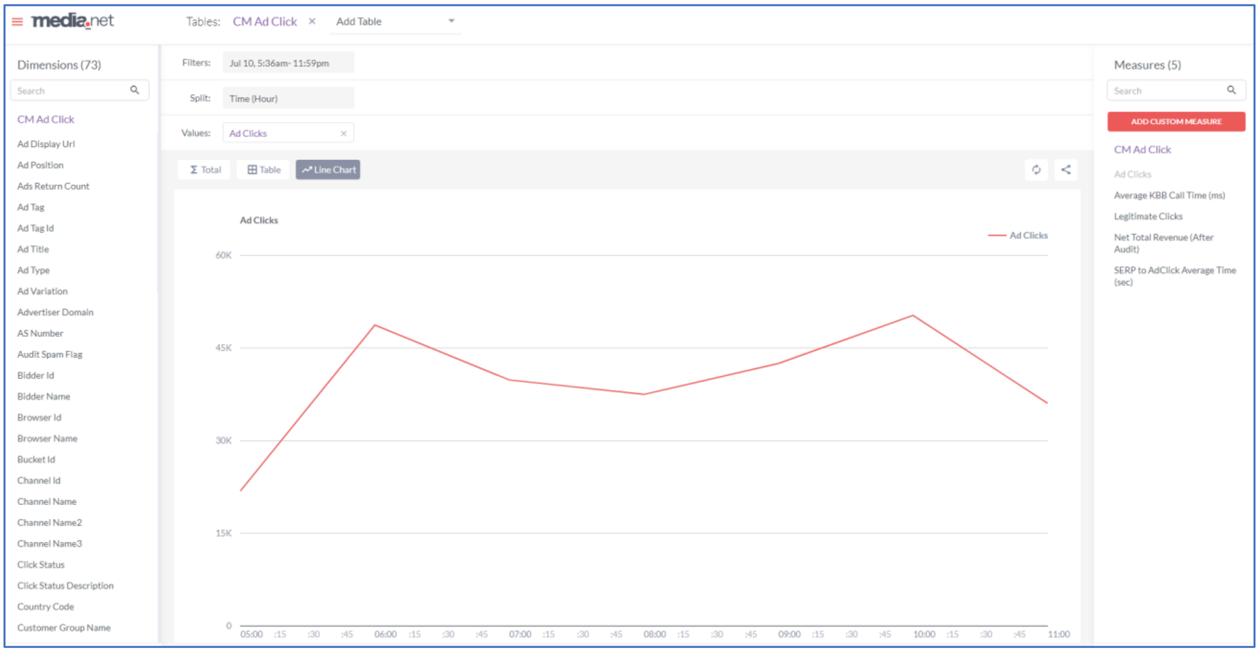
3.6 Joining Tables

Joining multiple table to extract data is one of the powerful feature of Samurai. The join combines the selected tables, and allows you to generate a report using dimensions and measures coming from multiple sources.

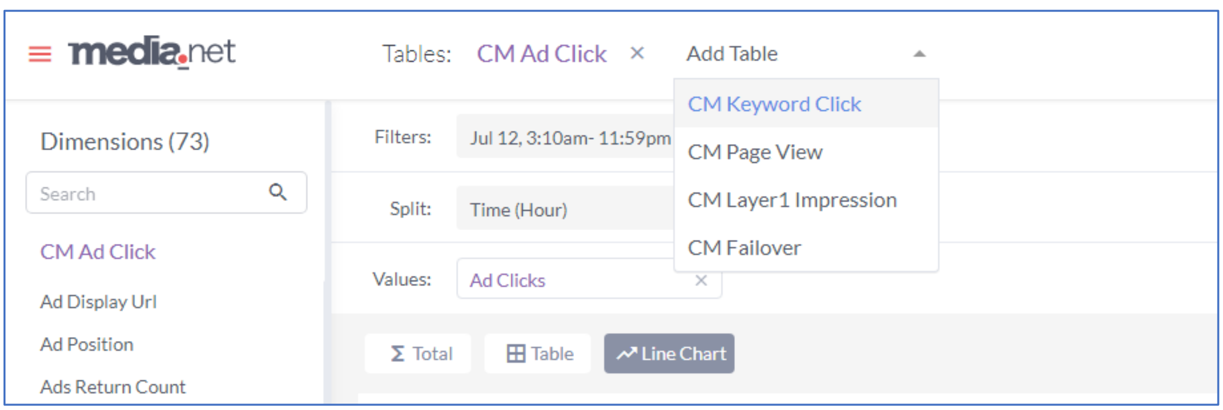
You can join the tables that are available in a single namespace. As of now, Samurai doesn't provide the functionality to join tables from multiple namespaces.

Perform the following steps to join tables.

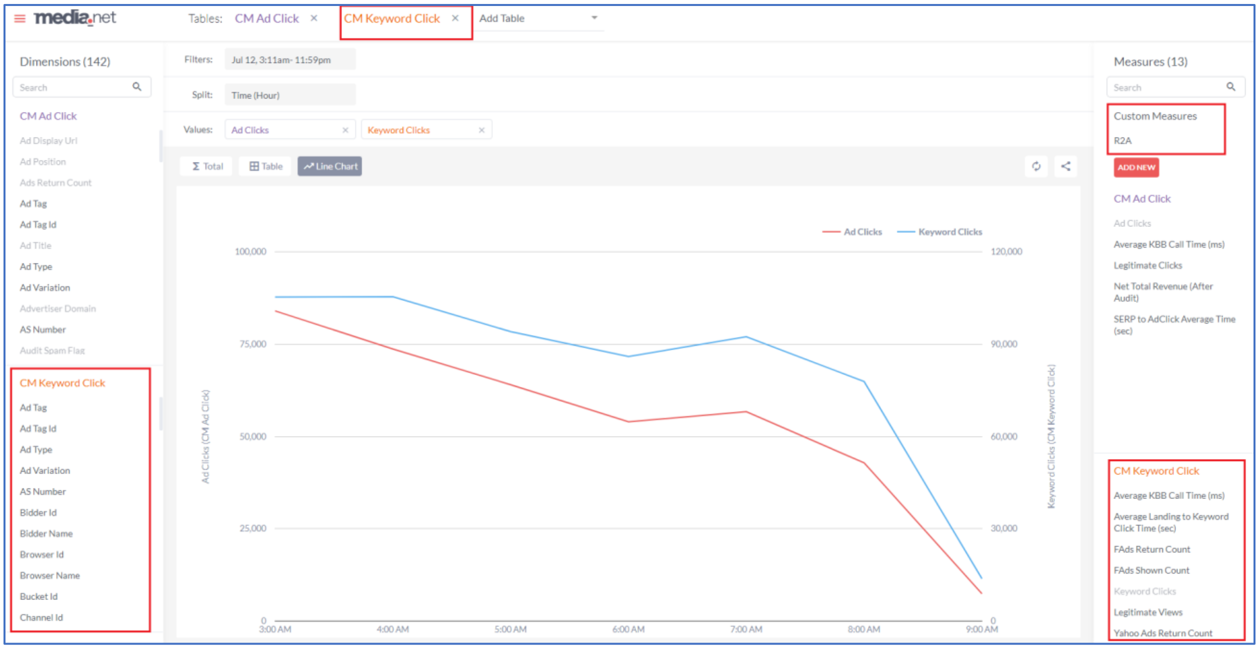
1. Access the Samurai interface, and select the required table from the namespace. For example, select CM Ad Click. The Samurai page appears.



2. To join CM Ad Click with other table, at the top, click the Add Table drop-down list. A list of all the available tables in the current namespace appears.



3. Click the table that you want to join. For example, click CM Keyword Click. The CM Keyword Click table is added, and the dimensions, predefined measures, and custom measure for the table are populated.



By default, the predefined measure is added in the Values field, and the line chart is updated to show the values.

You can also note that the color of the new table is different from the other table name. This is used to easily separate and identify the dimensions and measures of the tables. You can drag and drop the required dimensions and measures from the required table and generate your report.