

# Applying Layers to a Chart

Last Modified on 11/24/2023 2:22 pm EST

Our new Dashboard feature is available upon request for the initial launch phase. Please contact your Customer Success Manager if you'd like to schedule implementation with our Services team.

## Overview

The Layers function on the Chart screen is available for most Chart Types. The Layers function allows users to set up Trends and Reference Lines over top of a Chart which helps predict future trends.



**Note:**

*Pie, Table, Extended Tables, Crosstabs, Maps, Box & Whiskers, and Word Cloud Chart types do not support the Layers function.*

## User Account Requirements

The user account you use to log into Resolver must have Administrator permission to use the Dashboard Builder.

## Related Information/Setup

To add styles to your Chart, please see the link below:

- [Adding Styles to a Chart](#)

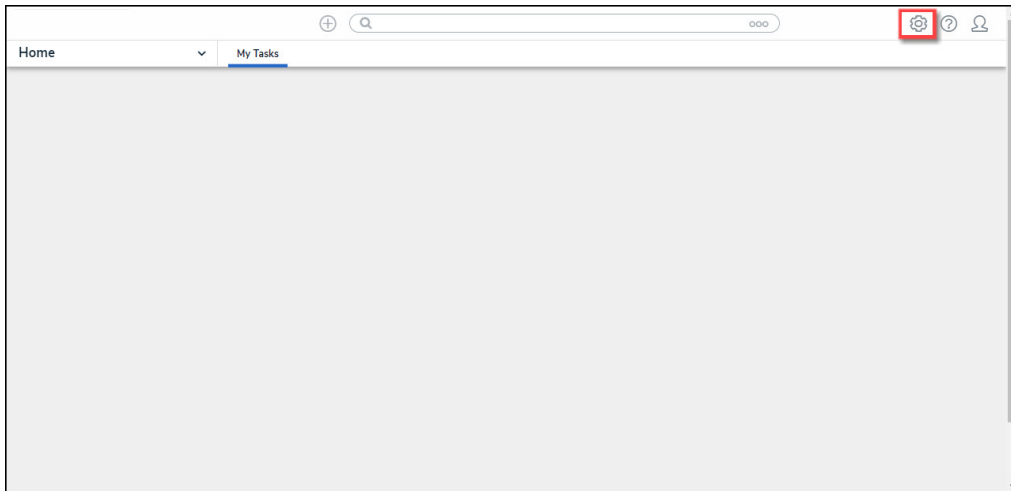
Please see the corresponding articles below for Information on Adding a Chart Type not covered by these instructions.

- [Adding a Chart to a Dashboard](#)
- [Adding a Multi-Series Chart to a Dashboard](#)
- [Adding a Combo Chart to a Dashboard](#)
- [Adding a Table to a Dashboard](#)
- [Adding a Crosstab to a Dashboard](#)
- [Adding a Heatmap to a Dashboard](#)
- [Adding a Map to a Dashboard](#)

- Adding a Box and Whiskers Chart to a Dashboard

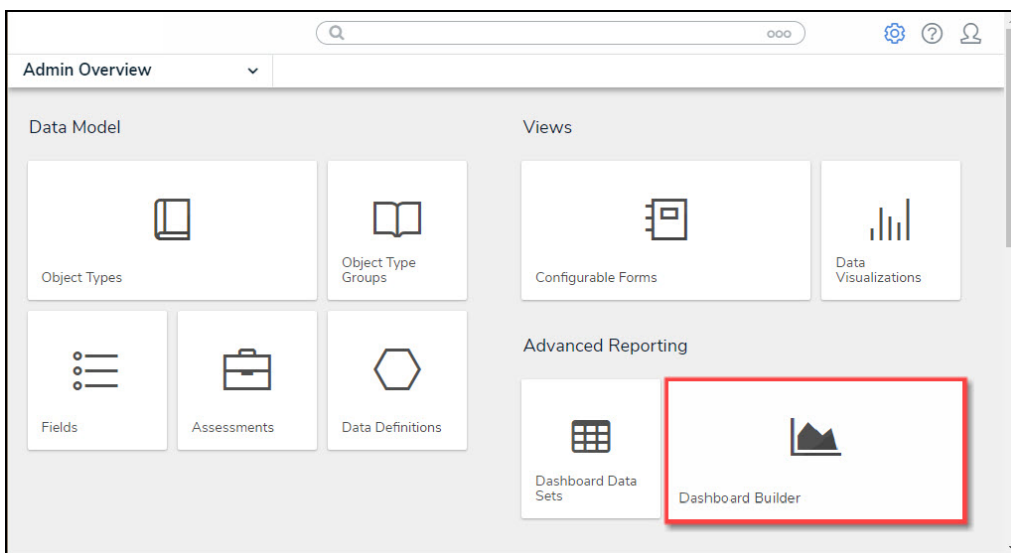
## Navigation

1. From the **Home** screen, click the **System** icon.



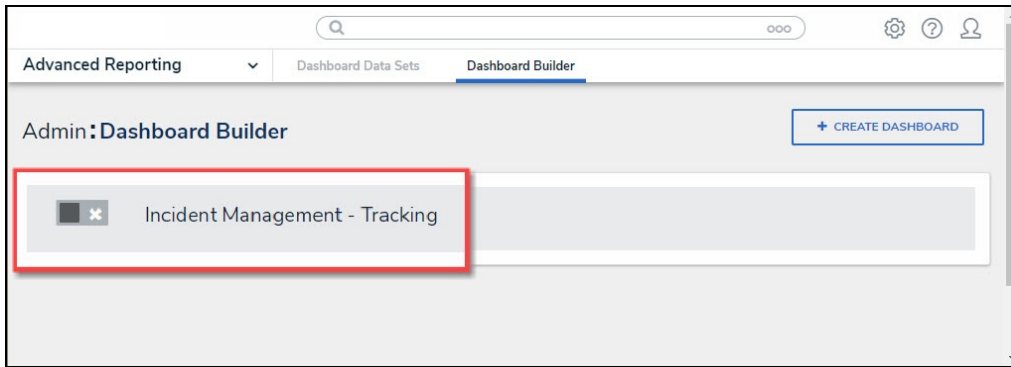
*System Icon*

2. From the **Admin Overview** screen, click the **Dashboard Builder** tile under the **Advanced Reporting** section.



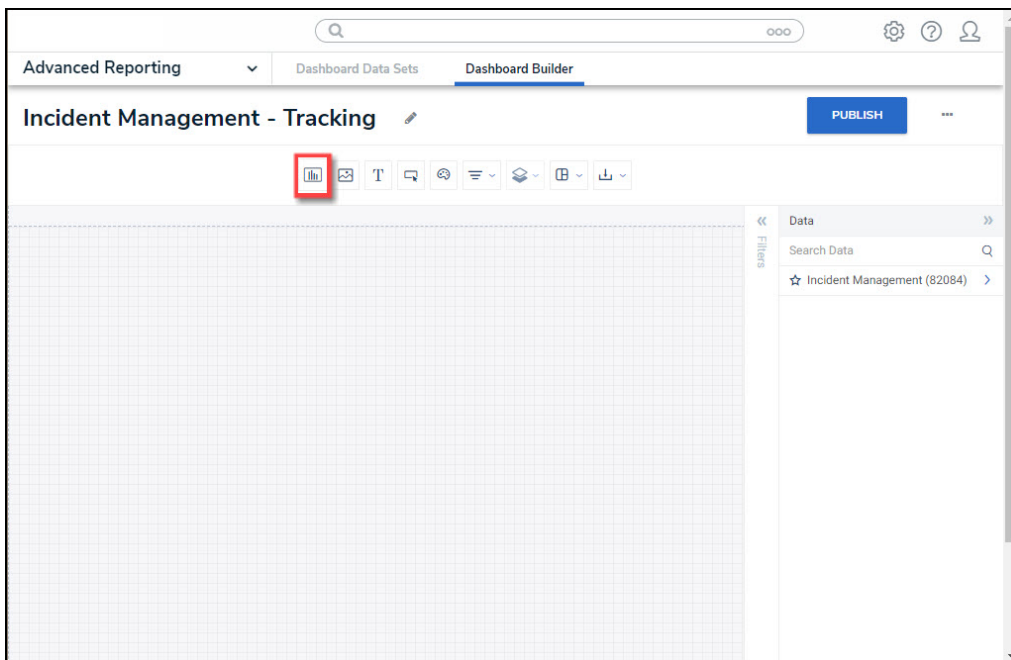
*Dashboard Data Sets Tile*

3. From the **Dashboard Builder** screen, click a **Dashboard Name**.



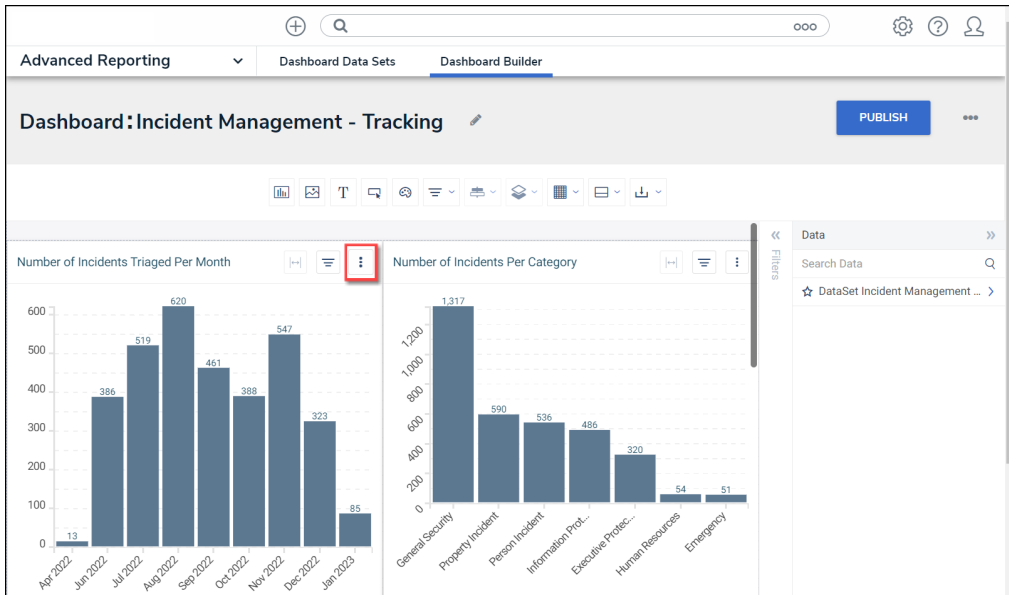
*Dashboard Name*

4. From the **Dashboard** screen, to access the **Chart** screen, click on the **Add Chart** button.



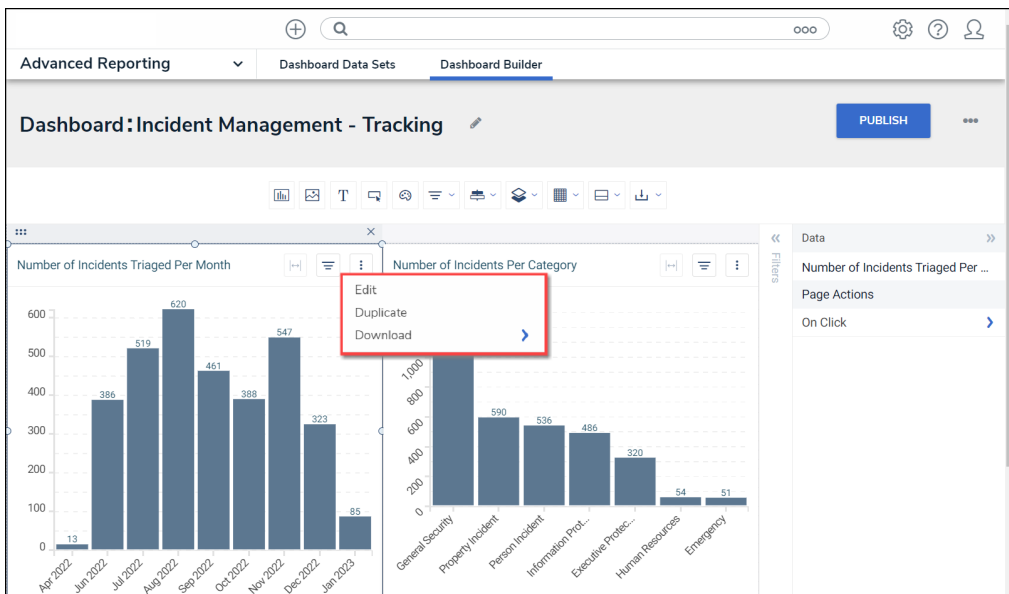
*Add Chart Button*

5. Or click the **More Options** icon on an existing **Chart View**.



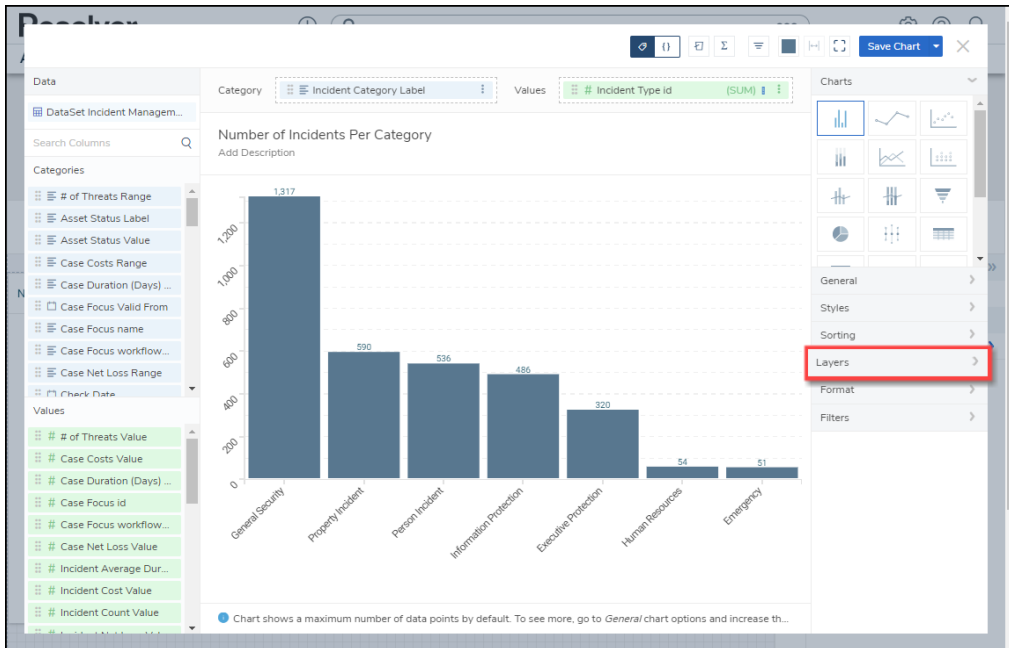
*More Options Icon*

6. Click the **Edit** option from the **More Options** dropdown menu.



*Edit Option*

7. From the **Chart** screen, click the **Layers** panel from the **Configuration** panel.

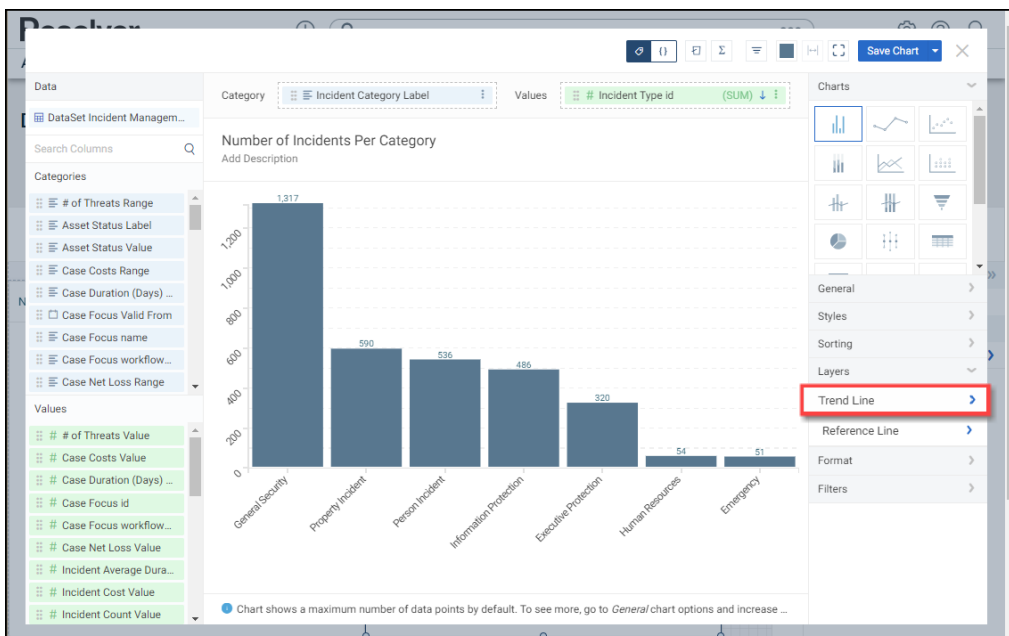


*Layers Panel*

## Applying a Trend Line to a Chart

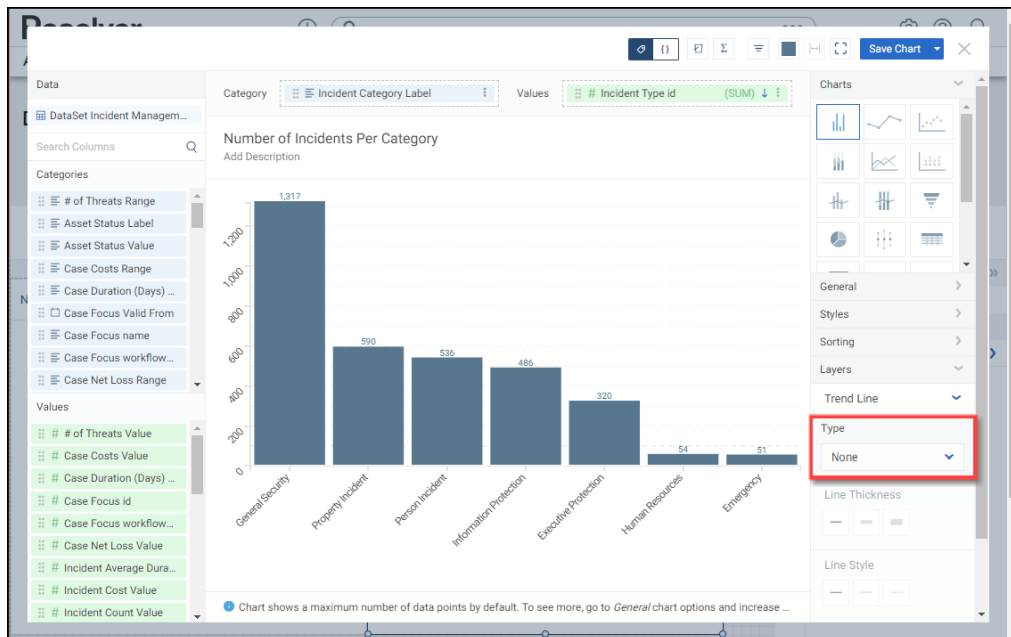
A Trend Line shows the data direction in a Chart and helps to identify patterns to allow for accurate predictions.

1. Click the **Trend Line** panel.



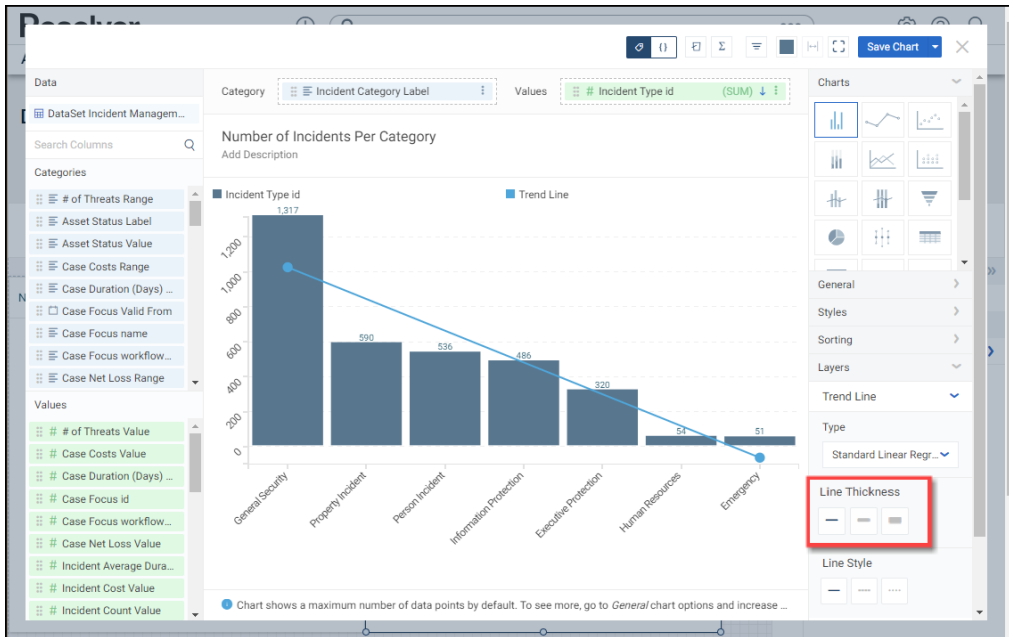
*Trend Line Panel*

2. Click the **Type** dropdown and select a **Trend Line Type**:



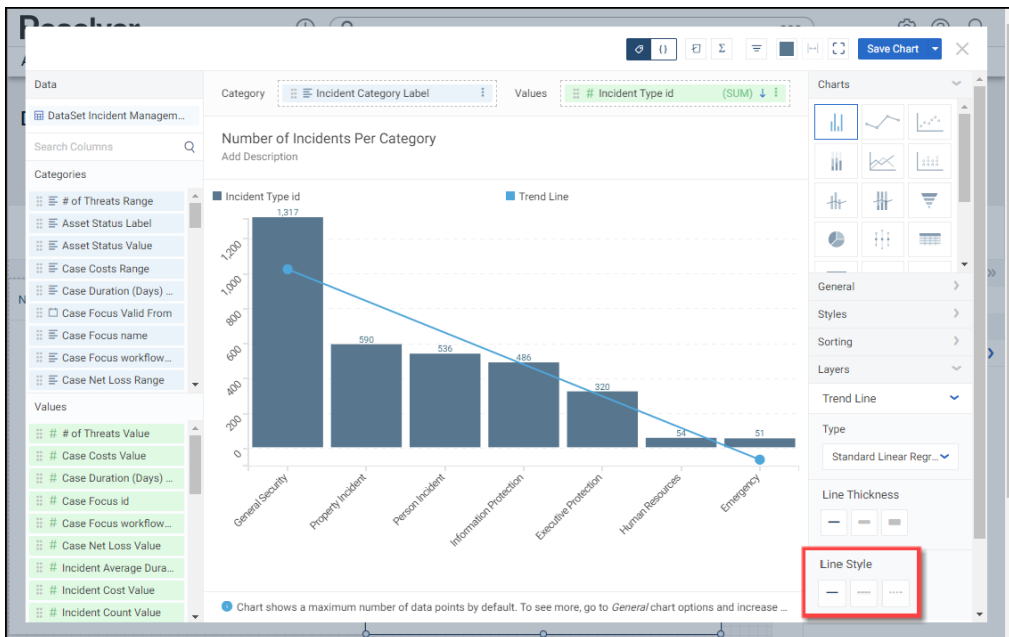
### *Type Dropdown*

- **None:** No Trend Line is applied to the Chart.
  - **Standard Linear Regression:** A **Standard Linear Regression** displays whether the data values increasing or decreasing using a straight line to represent the trend (e.g., sales).
  - **Exponential:** An **Exponential** type is best when the data values increase or decrease at elevating higher values. You cannot use the Exponential type if the Data Set has negative or 0 values.
  - **Logarithmic:** A **Logarithmic** type is best when the data values sharply increase or decrease and level out to a plateau. You can use the Logarithmic type with negative and positive data values (e.g., growth)
  - **Moving Average Trend:** The **Moving Average Trend** type displays data value trends more clearly when data values have multiple increases and decreases.
  - **Polynomial:** A **Polynomial** type is best to use when the data values fluctuate (e.g., gains and losses).
3. Select a **Line Thickness** by clicking one of the corresponding buttons (Thin, Normal, or Bold).



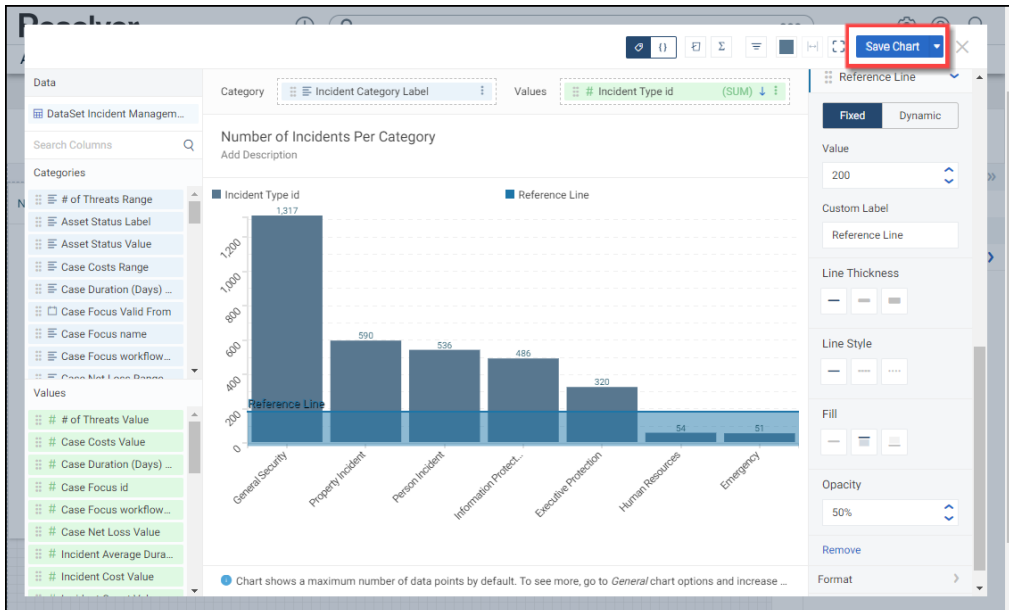
*Line Thickness*

4. Select a **Line Style** by clicking one of the corresponding buttons (Solid, Dashed, or Dotted).



*Line Style*

5. Click the **Save Chart** button to save changes to the Chart.

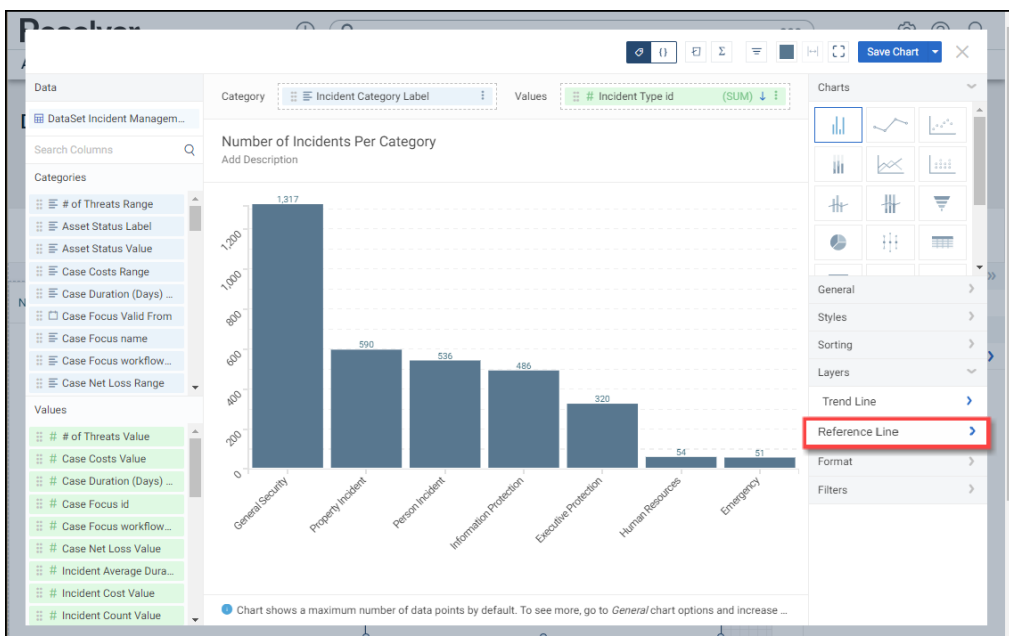


*Save Chart Button*

## Applying a Reference Line to a Chart

A **Reference Line** allows a user to create a line of reference on the Chart to measure, compare, or reference the data values. You can add multiple Reference Lines on a Chart.

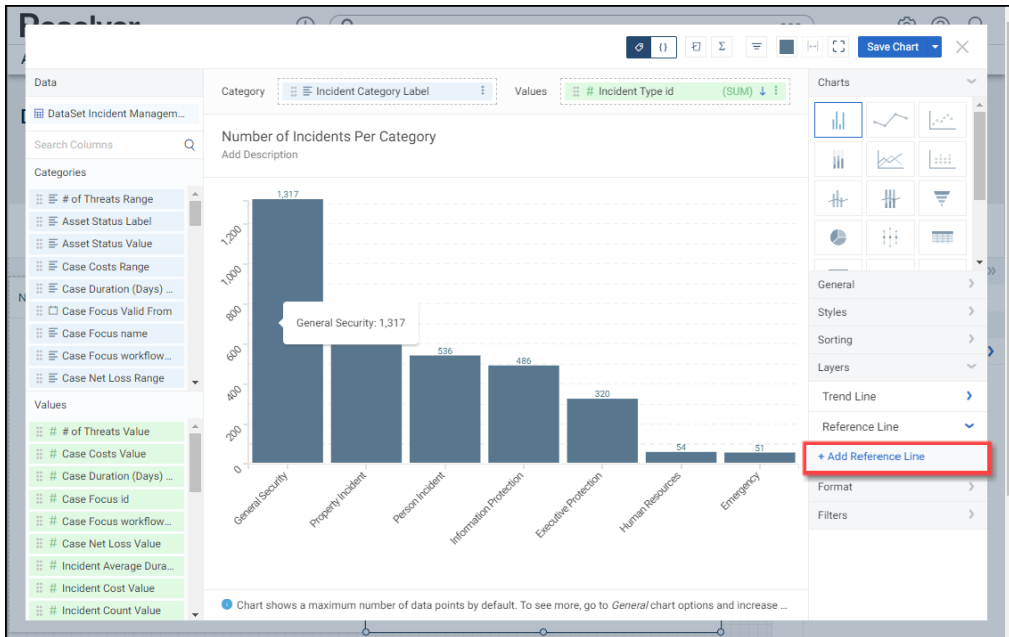
1. Click the **Reference Line** panel.



*Reference Line Panel*

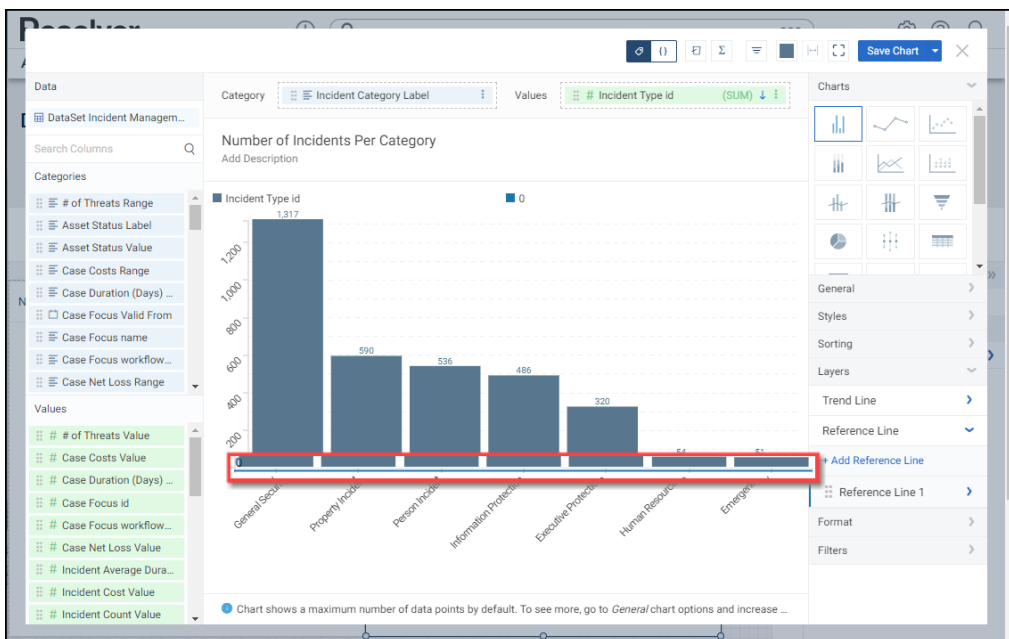
2. Click the **+ Add Reference Line** link.





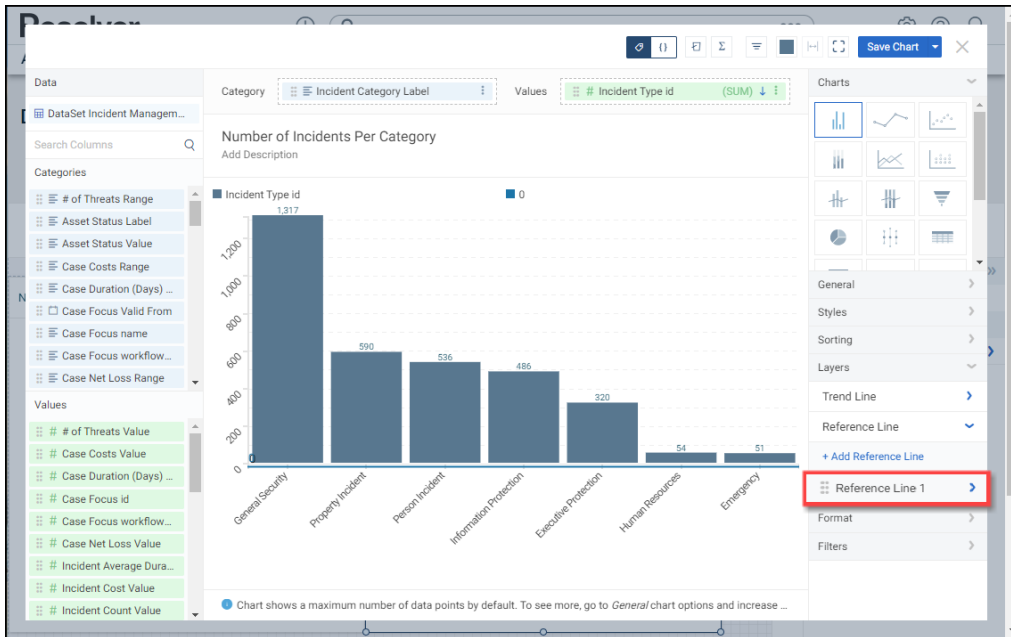
+ Add Reference Line Link

3. A **Reference Line** will be added to the Chart across the 0 y-axis.



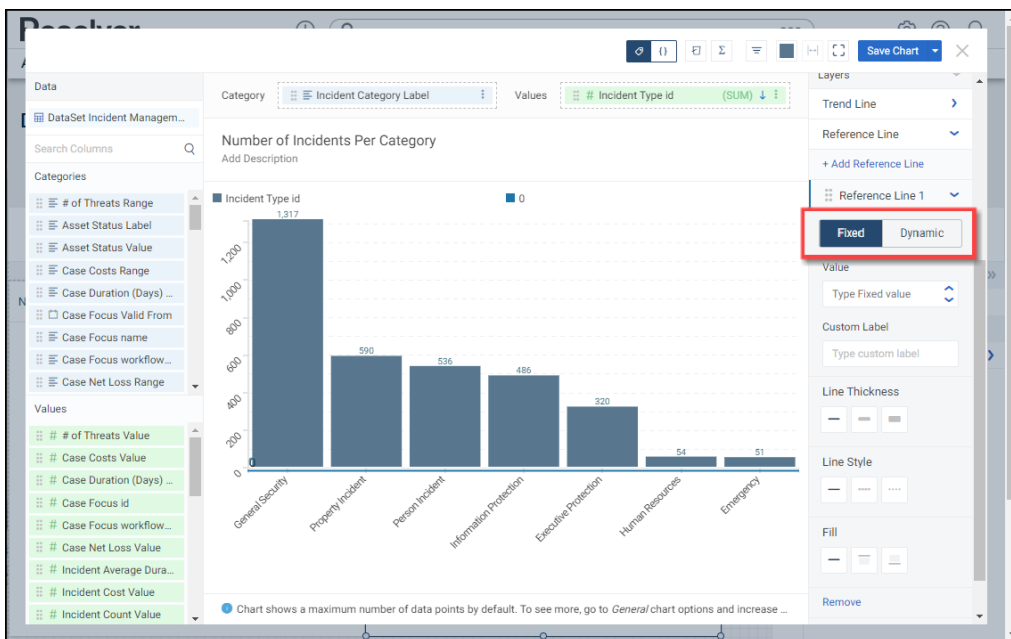
Reference Line

4. Click the **Reference Line 1** panel.



*Reference Line 1 Panel*

5. Select a **Reference Line Type** by clicking on one of the **Reference Line Type** buttons:



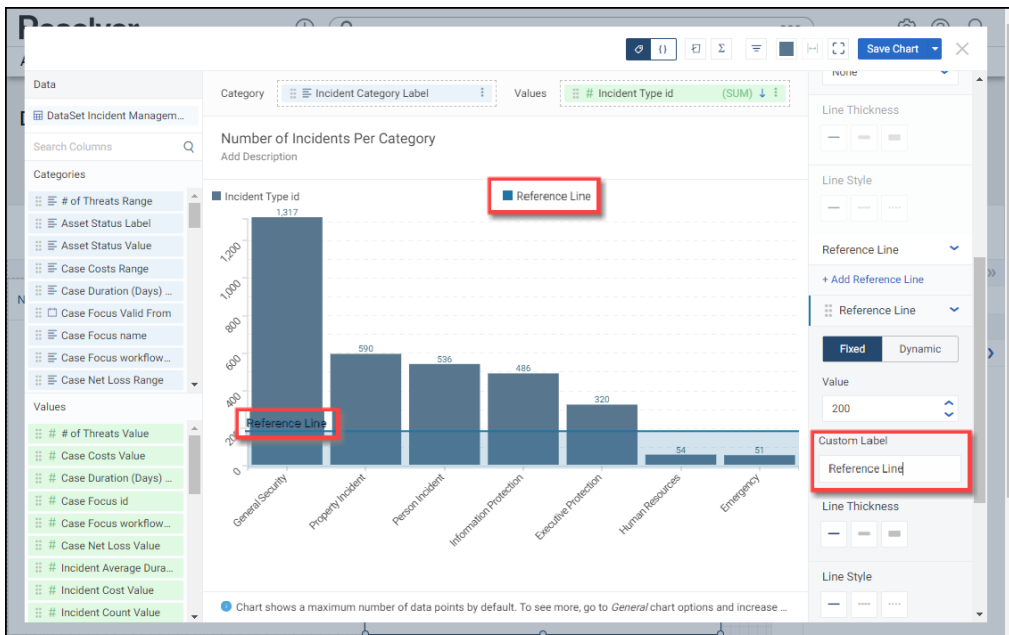
*Reference Line Type*

- **Fixed:** A **Fixed** Reference Line allows a user to enter a fixed value setting the Reference Line on the Chart at the specific value.
  - **Value:** Enter the Value where you want the Reference Line to appear on the Chart in the **Value** field, or use the increase and decrease arrows to set the value. When the **Fixed** button is selected the **Value** field will appear under the Reference Line Type buttons.
- **Dynamic:** A **Dynamic** Reference Line allows a user to apply an aggregate to the data

values on the Chart to calculate the location of the Reference Line on the Chart.

- **Value Aggregate:** Select a Value Aggregate type from the dropdown menu. When the **Dynamic** button is selected the **Value Aggregate** field will appear under the Reference Line Type buttons.
  - **Sum:** The **Sum** type adds values together.
  - **Average:** The **Average** type is a single value that represents a larger set of values, which is the sum of the numbers divided by the number of digits in the Data Set.
  - **Median:** The **Median** type is the middle value of a Data Set.
  - **Count:** The **Count** type finds the number of values in a finite Date Set.
  - **Distinct Count:** The **Distinct Count** finds specific values within a Data Set.
  - **Minimum:** The **Minimum** type determines the smallest number in the Data Set.
  - **Maximum:** The **Maximum** type determines the largest number in the Data Set.

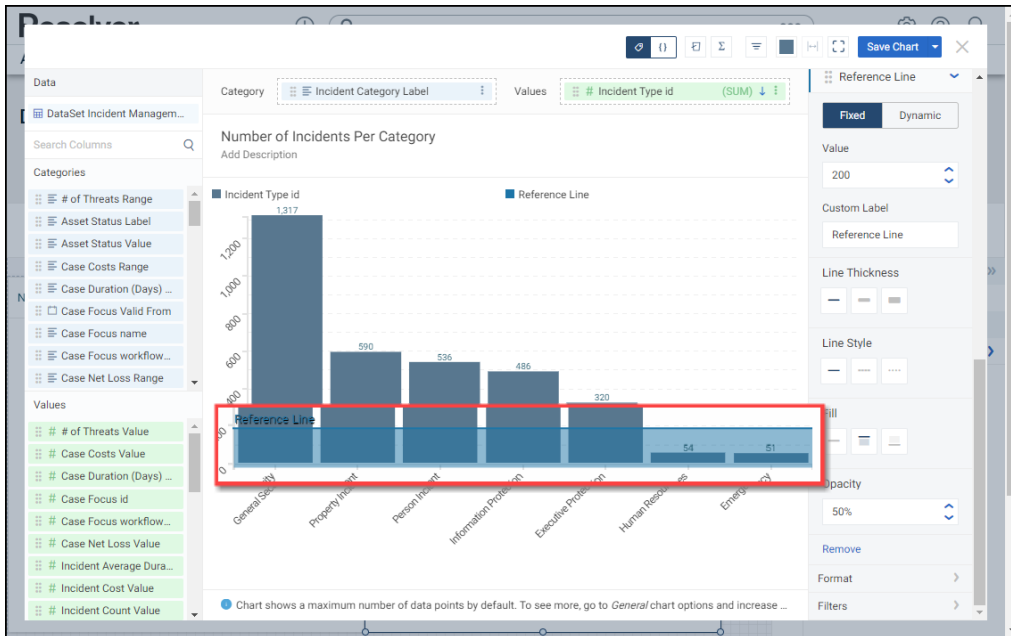
6. Click the **Custom Label** field and enter a label for the Reference Line. Custom Labels will appear above the Reference Line on the Chart and in the Charts legend.



*Custom Label*

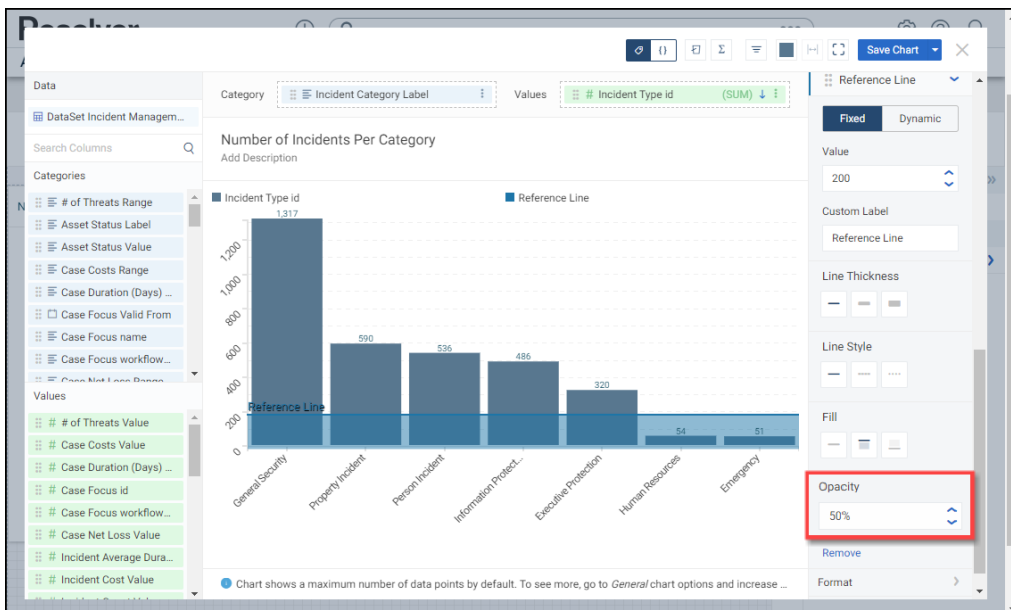
7. Select a **Line Thickness** by clicking one of the corresponding buttons (Thin, Normal, or Bold).
8. Select a **Line Style** by clicking one of the corresponding buttons (Solid, Dashed, or Dotted).
9. Select a **Fill** option by clicking one of the corresponding buttons:

- **None:** No fill is added to the Chart.
- **Before:** The **Before** option adds a fill or tint to the Chart filling the area before the Reference Line.
- **After:** The **After** option adds a fill or tint to the Chart filling the area after the Reference Line.



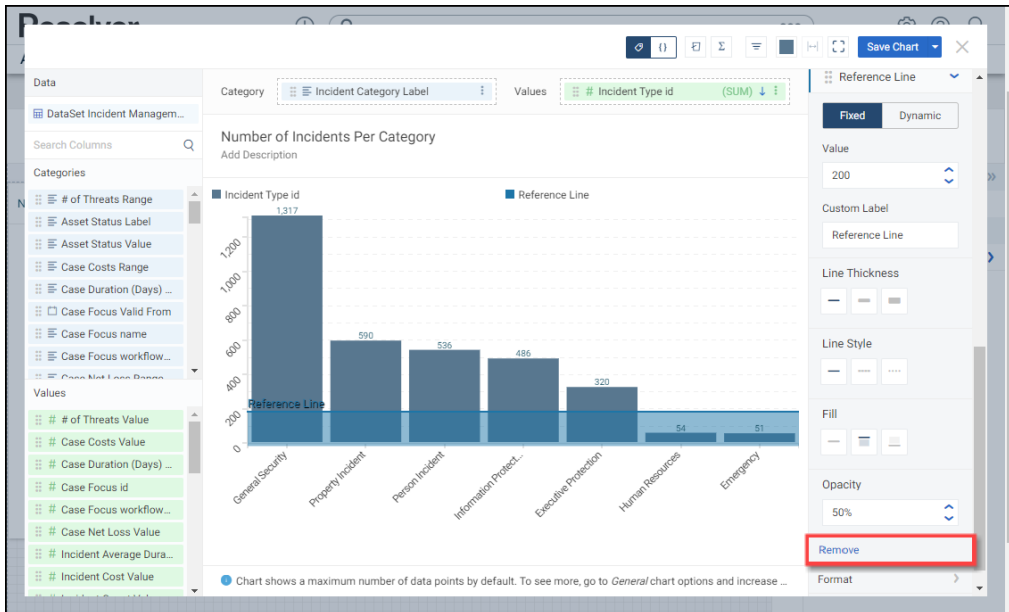
*Fill Before Option*

10. Enter an **Opacity** value in the **Opacity** field to increase or decrease the **Fill** opacity or use the increase and decrease arrows to set the value.



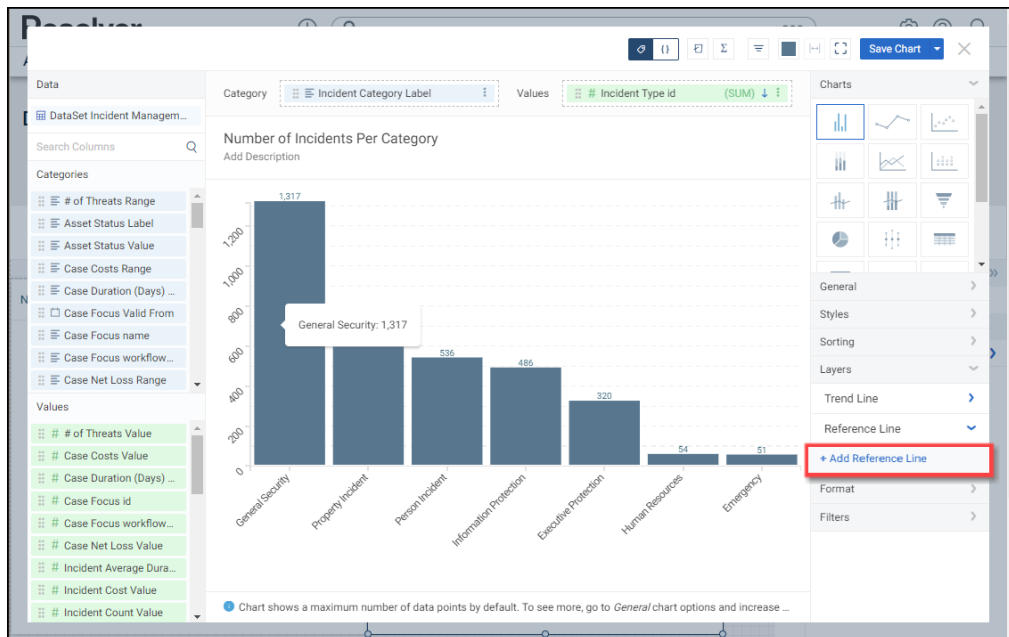
*Opacity Field*

11. Click the **Remove** link to delete the Reference Line from the Chart.



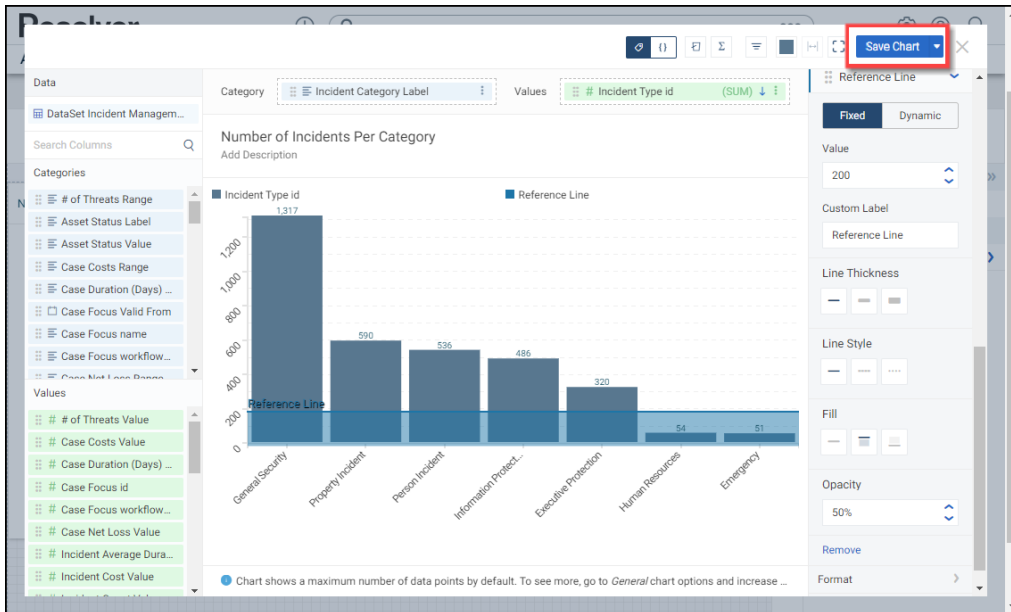
*Remove Link*

12. Click the **+ Add Reference Line** link to add another Reference Line to the Chart.



*+Add Reference Line Link*

13. Click the **Save Chart** button to save changes to the Chart.



*Save Chart Button*