SASVIYA Exercise 05

Creating a histogram

(4/13/2020)

**Sources**

Steve Nolan, Ron Freeze, Elizabeth Keiffer, Michael Gibbs, Matias Delay

Enterprise Systems, Sam M. Walton College of Business, University of Arkansas, Fayetteville

SAS® VIYA 8.2 Release V03

Copyright © 2018 *For educational uses only - adapted from sources with permission. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise, without the prior written permission from the author/presenter.*

# Use Case

Razorback Stores is a local department store serving a metropolitan area. As a department store, they offer a wide variety of items and services and track sales through a point of sale system. Over the past several months, Razorback Stores performed a marketing campaign designed to promote and incentivize a loyalty program.

For this exercise, **Razorback Stores** is interested to see what the distribution of their net sales are. This will provide a visualization for management to quickly see how much customers are purchasing that they can use to help make business decisions.

## Step 0:

Following the guide of importing data and import your chosen dataset. See Viya 02 – Importing data for specific steps.

Once your data is imported, you will be presented with the working report screen. The screen is broken out into three key areas:

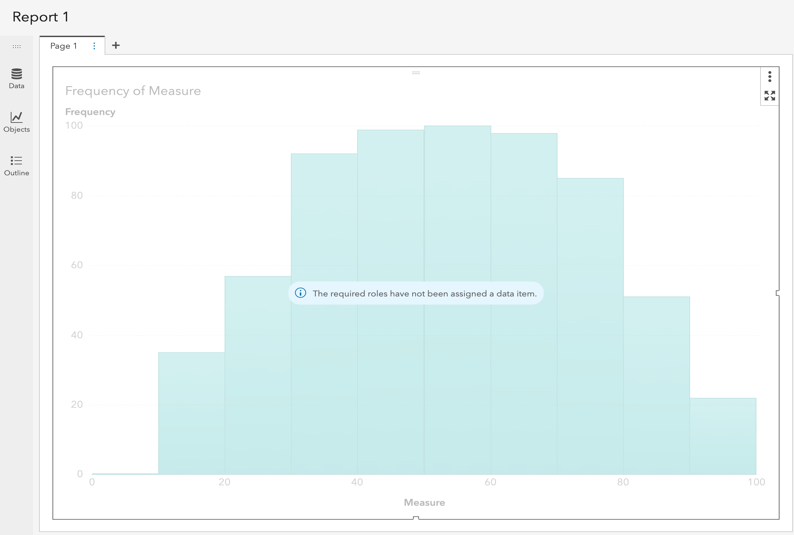
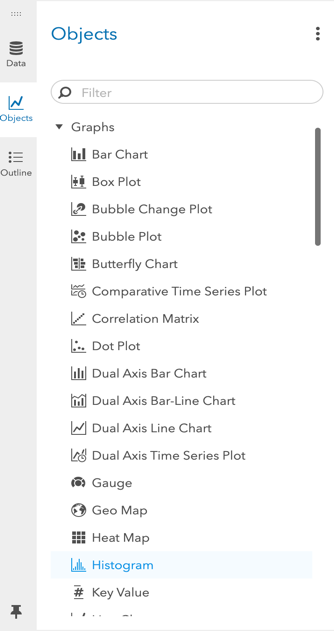
* Left pane (Red) – This is where you can manipulate your data elements, choose objects to work with, and see an outline of the work you are creating.
* Middle pane (Blue) – This is the workspace. This is where you drag objects to and begin to build your visualizations and models
* Right pane (Green) – this is where you set various roles (for data mining) and manipulate and enhance chart features (options). You can also filter pieces of data as well.

A screenshot of a cell phone

Description automatically generated

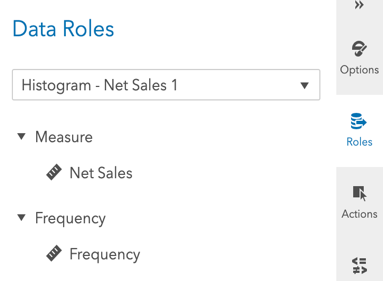
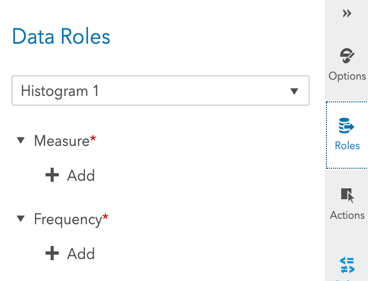
## Step 1:

Under the **Objects** panel on the left-hand side, you can select **Histogram** located under the **Graphs** area of the objects. Click and drag **Histogram** to your workspace in the middle. Your screen will look like the following:



## Step 2:

Once the histogram is in the workspace, you can set a role of net sales for this use case by selecting roles and then net sales as the measure. The chart will update automatically with the data:



Now your screen should look like the following:

A screenshot of a video game

Description automatically generated

## Step 3:

From here, you can go to the options menu and manipulate your visualization to provide even more insight, such as a better-informed title, color, and fixed bin sizes.

A screenshot of a cell phone

Description automatically generated

Congratulations, you have created a histogram in VIYA!