**SAS VIYA Exercise 03**

**Running Descriptive Statistics**

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**Sources**

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SAS® Visual Analytics. Release 8.5

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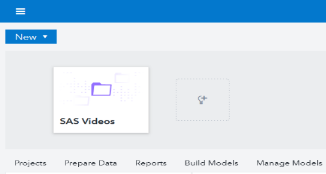
# Use Case – Descriptive Statistics

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.

Razorback Stores is interested in learning some general descriptive information about their data.

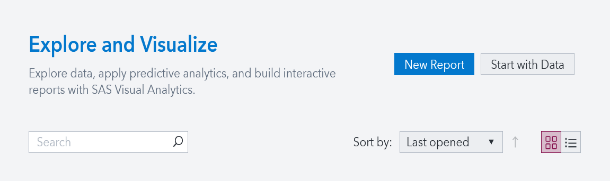


## Step 1: New Report



Once you are logged into the VIYA system,

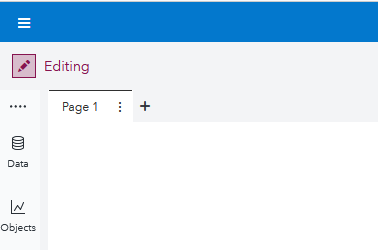
1. **Click:** the three parallel lines
2. **Click:** Explore and Visualize



1. **Click:** New Report

## Step 2: Data

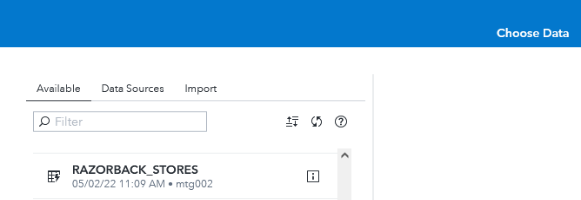
You will be now be on the report window. From here, you can choose a new data source, create a new object, or view the outline.



1. **Click:** the Data icon

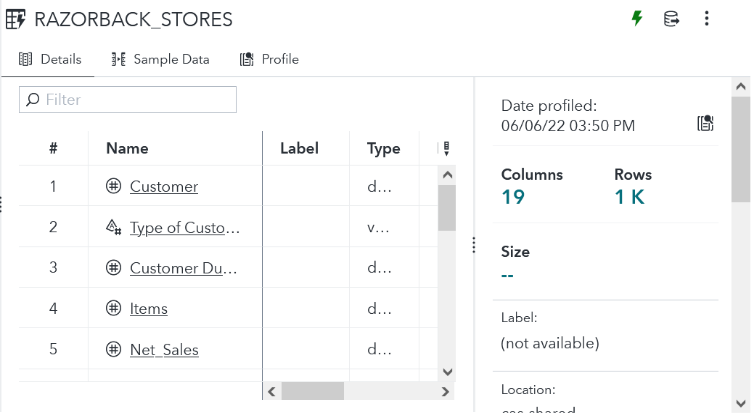
## Step 3: Available Data

Once you have clicked on the data, you will be presented with the **Choose Data** pop-up.



1. **Select:** the Available tab,
2. **Click:** your chosen dataset (for this exercise **RAZORBACK STORES**)

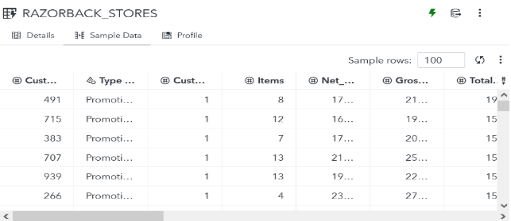
If no dataset is available, please see our tutorial 02a: Importing data.



## Step 4: Details

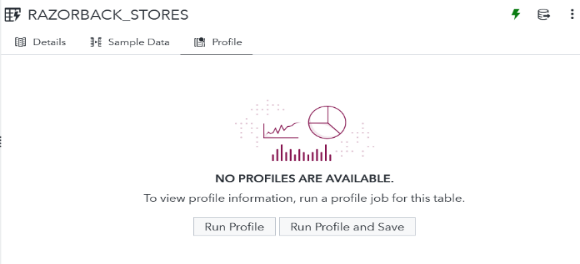
Once you have chosen a dataset, in our case the **RAZORBACK STORES** dataset, the right-hand pane will display a listing of variables from the dataset with corresponding datatypes under the **Details** tab. This will show you the various variables from your dataset and the datatypes that have been denoted by the system:

## Step 5: Sample Data



1. **Select:** the Sample Data tab to get a snapshot of the data:

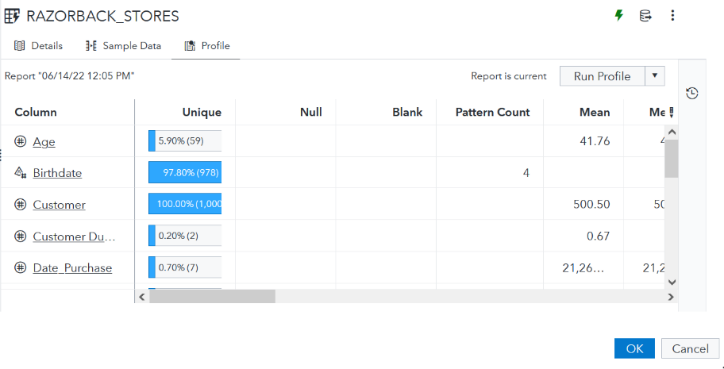
## Step 6: Profile



1. **Select**: the Profile tab
2. **Click**: on Run Profile

## Step 7: Statistics

The outputed report will provide you basic descriptive statistics such as mean, median, and mode.

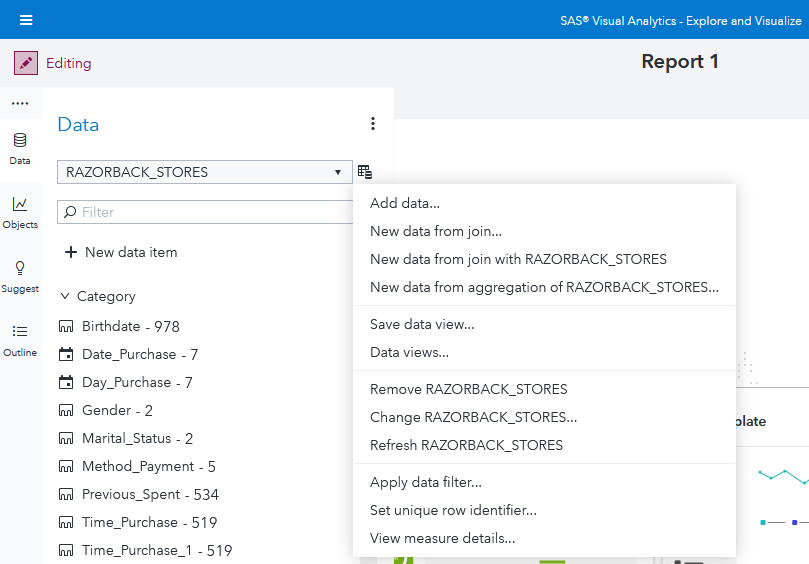


It will also give you unique counts and other useful descriptive statistics.

1. **Click:** OK to create the report

## Step 8: View Measure Details

If at any point in time you wish to re-run or forgot to run descriptive statistics, you can always:



1. **Click:** on the Data icon
2. **Click:** on the Actions icon located to the right of RAZORBACK STORES
3. **Click**: View measure details…

Congratulations, you have learned how to run descriptive statistics in VIYA!