SAS Studio Exercise 01

Logging Into the System

(7/22/2020)

**Sources**

Steve Nolan, Ron Freeze, Elizabeth Keiffer, Michael Gibbs, Jorge Moreda

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

SAS® Studio. Release 5.2

SAS® VIYA® release V.03.05

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 – Logging into the system

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.

Our first step in the process of analyzing and assisting Razorback Stores is signing into the VIYA system. This will give us access to a wide variety of tools and methodologies we can use to analyze the data provided.

## Step 1: Signing into VIYA

1. A screenshot of a cell phone

   Description automatically generatedUse the following link below to sign in: <https://viya.walton.uark.edu/SASDrive>

This link will take you to the main VIYA platform hosted by the University of Arkansas.

Once you have clicked on the link,

1. Login with your **University credentials**

A screenshot of a social media post

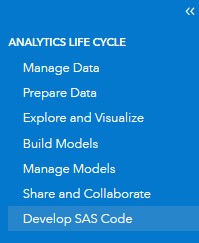
Description automatically generatedOnce you have logged in, you will be presented with the main user interface which is also called your **SAS Drive**. From here, you have access to the system.

*Please note that your screen may look slightly different depending on the projects and reports that you have worked on.*

## Step 2: SAS Viya Actions

For this tutorial, we want you to be comfortable in navigating back and forth between two SAS Viya Actions: **Manage Data** and **Develop SAS Code.**

In the top left of your current screen (**SAS Drive** screen or main user interface screen),



1. Click on the three parallel horizontal lines to the left of **SAS Drive –Share and Collaborate**

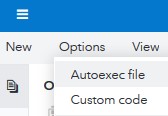
A drop-down menu will showcase the applications menu. Here you can find the two actions of interest to us for this tutorial: **Manage Data** and **Develop SAS Code.**

## Step 3: Develop SAS Code

When accessing **Develop SAS Code** you will be taken to the main user interface for **SAS Studio** which looks like the following:

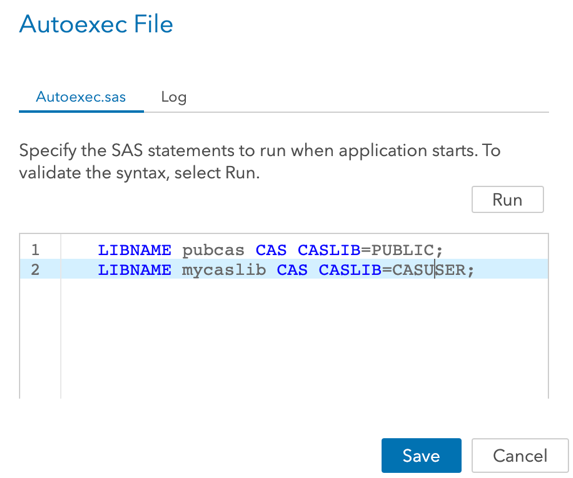
Next, we need to activate a CAS session in order to access our data.

1. Click on **Options** in the top menu and,



1. Go to **Autoexec file**

You should then be presented with a code area.

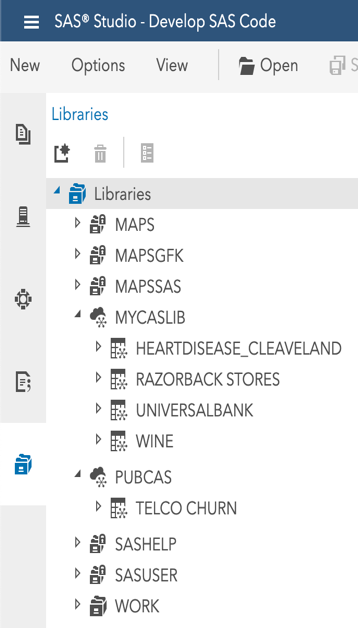
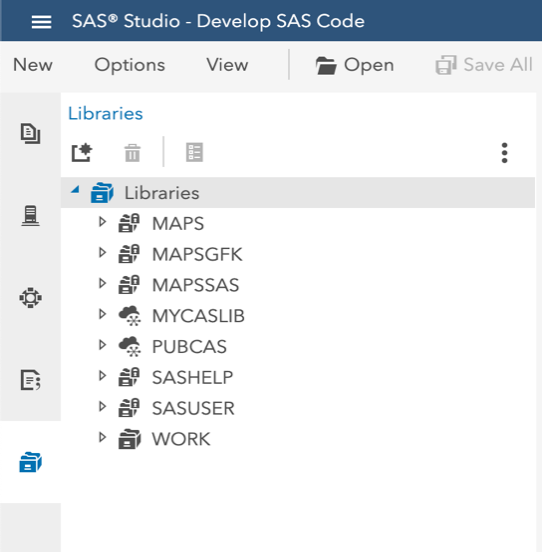


1. Insert the following code in line 1:  
   LIBNAME pubcas CAS CASLIB=PUBLIC;
2. Press Enter in your keyboard
3. Insert the following code in line 2:  
   LIBNAME mycaslib CAS CASLIB=CASUSER;

These are the code to access the public folders as well as your user folders. Once you have the code in place,

1. Click the **Run** button at the top,
2. Then click on **Save**

Once you have run and saved the code lines in the previous step, you should have access to the data that is currently **in-memory** either in the **PUBLIC** folder or in your **USER** folder. To look at these folders do the following:



1. On the left-pane, click on **Libraries**

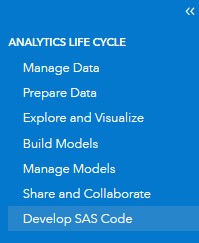
If you inserted the code lines above correctly, these folders should have the names **PUBCAS** and **MYCASLIB** like in the picture alongside.

1. Expand these folders to see if there are any datasets in-memory

If you have datasets similar to the picture alongside, it means that you currently have datasets loaded **into memory** in both the **PUBLIC** and your personal **USER** folders.

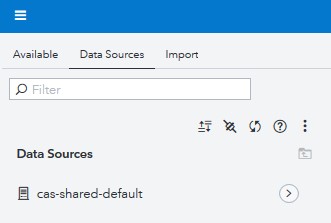
In case you **DON’T HAVE ANY DATASETS** in either of these two folders, follow **Step 4: Manage Data** below, else, proceed to **Step 5: SAS Studio Tasks**.

## Step 4: Manage Data



In order to load data sets into memory,

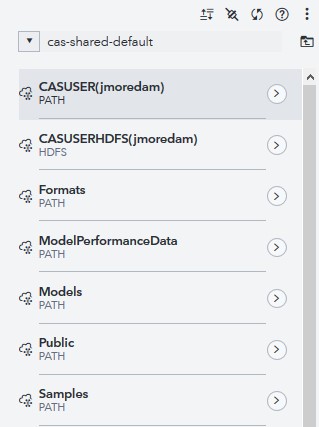
1. Click on the three parallel horizontal lines at the top left of your current screen and,
2. Click on **Manage Data**



1. Click on the **Data Sources** tab
2. Click the right arrow to the left of **cas-shared-default**

You will then find several options to choose from. We are interested in two in particular: **CASUSER(username)** and **Public.**

(These two represent the two libraries we talked about in **Step 3:** **Develop SAS Code**.)

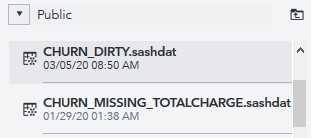


We will now showcase how to load data into memory from the **Public** library into your **CASUSER(username)** library.

1. Click on the right arrow to the left of **Public**

Inside you will find all the datasets available in the **Public** environment. The way to distinguish if they are in-memory or not is by the “Asterisk” sign next to the table icon on each dataset.

1. Scroll down and click on any dataset you wish to load into memory, for this example we will load **CHURN\_DIRTY** dataset



Your right-pane will populate with information about the dataset selected.

At the top right corner,



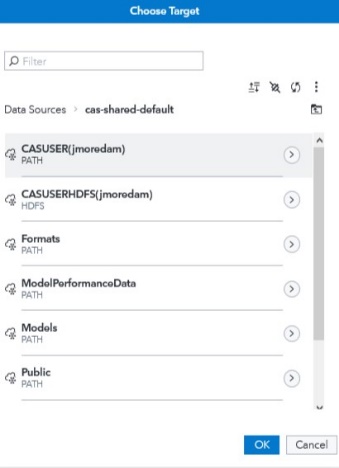
1. Click on the “Add to import” icon

In the new window that appears,

1. Check **Target location** to ensure that **CASUSER(username)** is selected



1. If not, click on the “library” icon



A new window titled **Choose Target** will appear.

1. Click **CASUSER(username)** to select it

It will show a light grey shadow.

1. Click **OK**

The **Target Location** should now show the path to your **CASUSER(username)** folder.

1. Click **Import Item** at the upper-right corner of the screen



A notification will appear stating that the table was successfully imported.

You can now return to SAS Studio by,

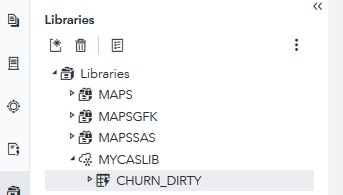
1. Clicking the three parallel horizontal lines at the top left of your current screen, and



1. Selecting **Develop SAS Code**

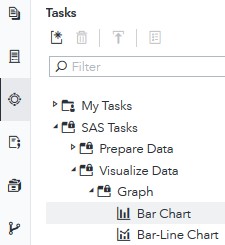
## Step 5: SAS Studio Tasks

We will select the **CHURN\_DIRTY** dataset we loaded in the previous step.



1. Expand the **MYCASLIB** folder
2. Double-click on **CHURN\_DIRTY**

You will have a preview of this dataset in the working space to the right.



In order to double-check that your data was successfully loaded into memory we want to showcase that you can find the data if you decide to perform a **task** such as graphing a **Bar Chart.**

1. On the left-panel, click on **Tasks**
2. Expand the **SAS Tasks** folder
3. Expand the **Visualize Data** subfolder
4. Expand the **Graph** subfolder
5. Double-Click on **Bar Chart**

A new tab will open on the working space to the right.



1. Under **DATA**, click the folder icon

A new window will appear. Under **Libraries**,



1. Click on **MYCASLIB** and,
2. Click on **CHURN\_DIRTY**
3. Click **OK**

A notification is still present in red that needs resolved.

So, next, under **ROLES**,

1. Click **+** (Select columns) to the right of **Category:**



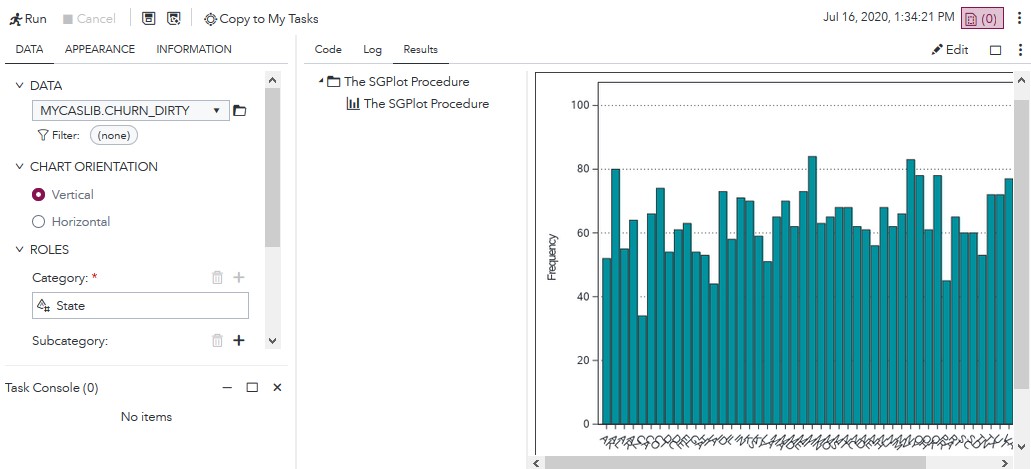
A new window titled **Column Selection** will appear.



1. Click on **State**
2. Click **OK**

The code required to create this Bar Chart visual is now populated in the code window.

1. Click **Run**



The generated Bar Chart will appear on the right, under the **Results** tab.

Congratulations, you have logged into SAS Studio!