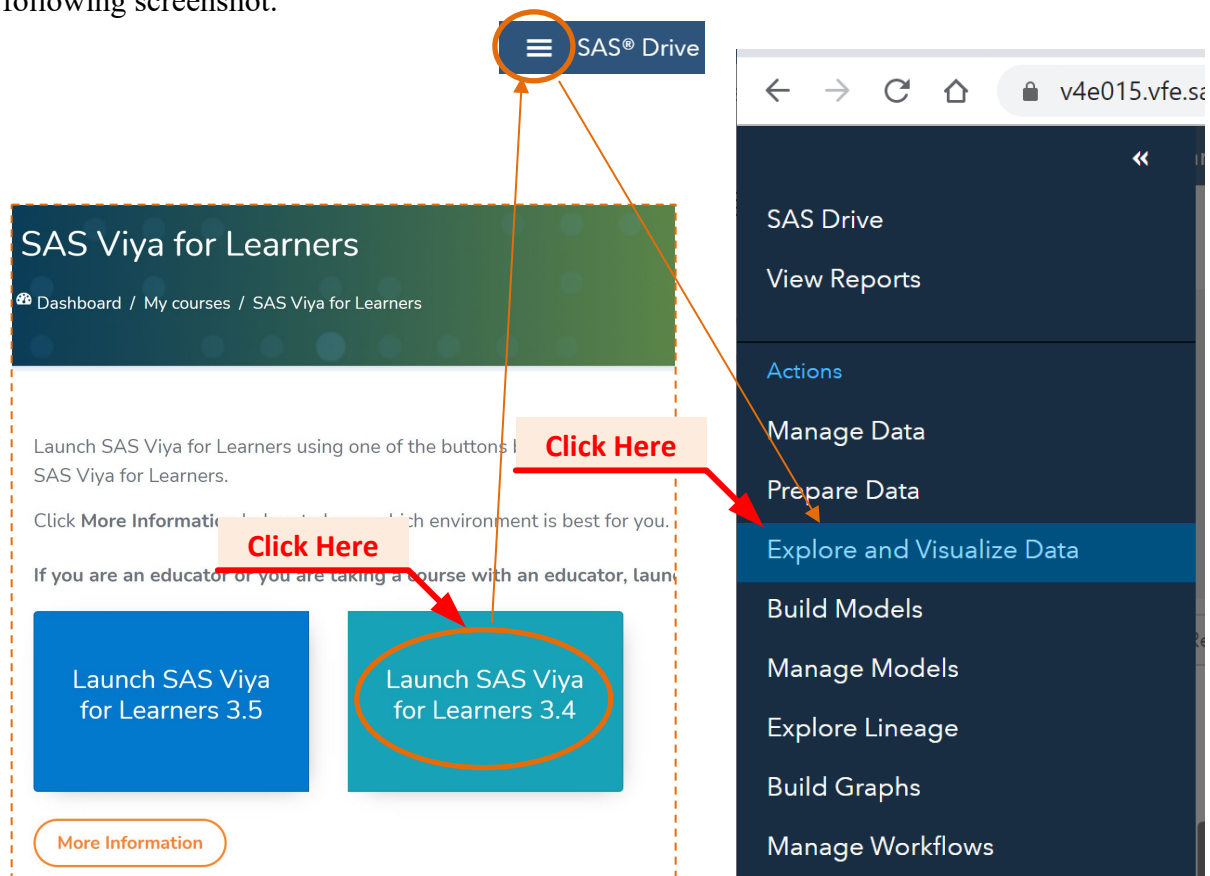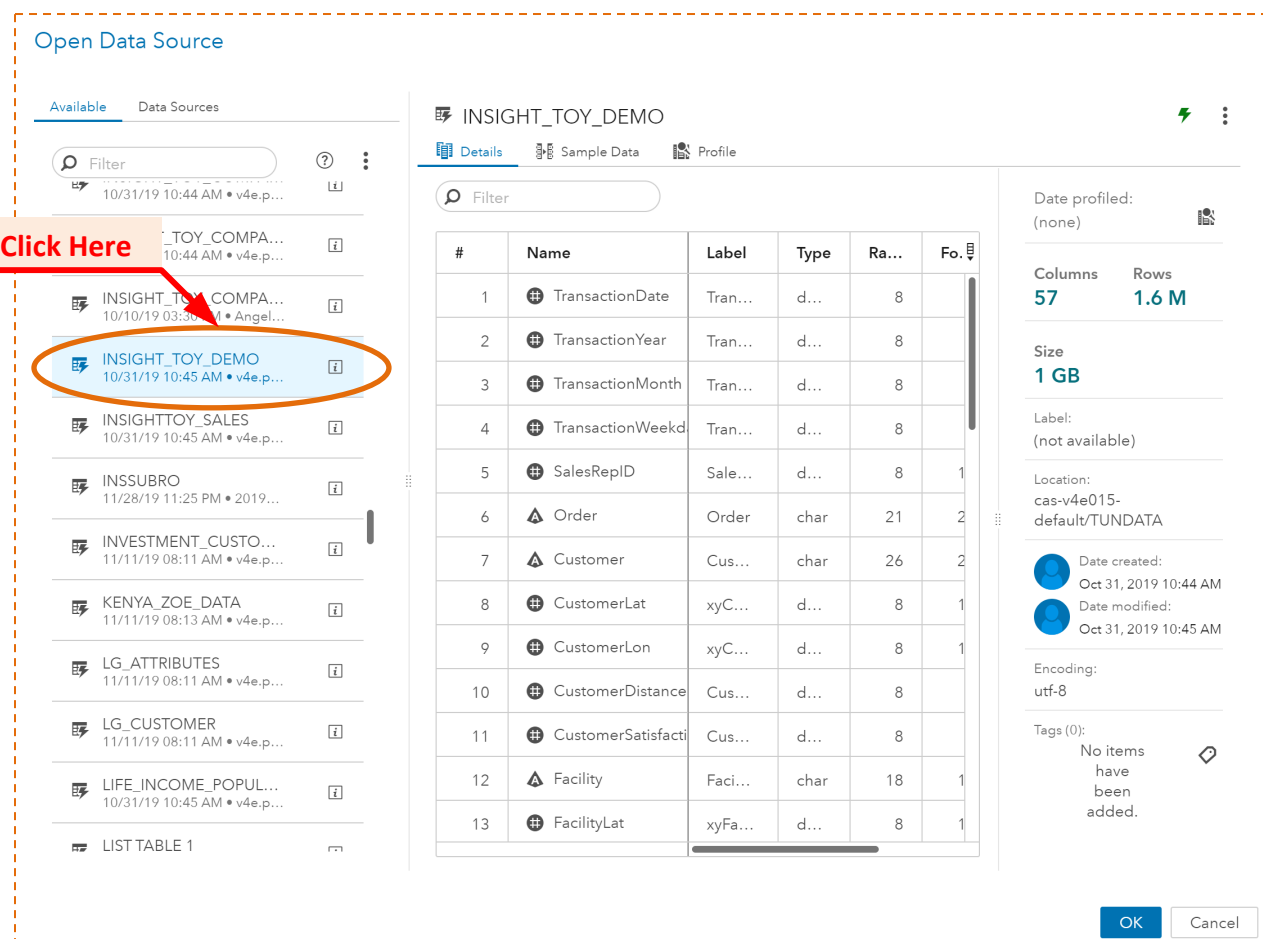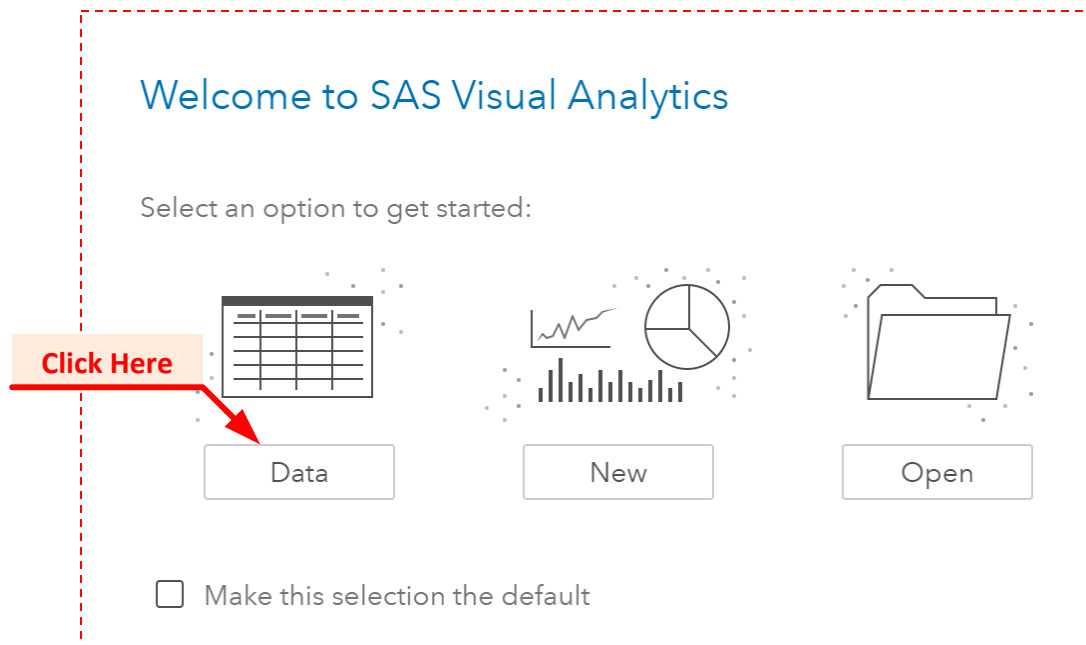# Assignment 1: Intro to SAS Visual Analytics on Viya

This assignment includes several basic tasks of data exploration within SAS Visual Analytics (SAS VA) on SAS Viya environment. The purpose is to get you started with SAS VA and provide you a basic familiarity of how data visualization in SAS VA works.

Specific Instructions

Once you log into SAS Viya for Learners using your SAS Profile credentials, you will execute the following simple steps. Open the SAS VA Explore and Visualize Data as outlined in the following screenshot:

Then select the data source as follows:

Welcome to SAS Visual Analytics

Select an option to get started:

Click Here

Data   New   Open

☐ Make this selection the default

Open Data Source

Available   Data Sources

🔍 Filter   ⓘ ⋮

10/31/19 10:44 AM • v4e.p...

Click Here

_TOY_COMPA...
10:44 AM • v4e.p...

INSIGHT_TO...COMPA...
10/10/19 03:30 M • Angel...

INSIGHT_TOY_DEMO
10/31/19 10:45 AM • v4e.p...

INSIGHTTOY_SALES
10/31/19 10:45 AM • v4e.p...

INSSUBRO
11/28/19 11:25 PM • 2019...

INVESTMENT_CUSTO...
11/11/19 08:11 AM • v4e.p...

KENYA_ZOE_DATA
11/11/19 08:13 AM • v4e.p...

LG_ATTRIBUTES
11/11/19 08:11 AM • v4e.p...

LG_CUSTOMER
11/11/19 08:11 AM • v4e.p...

LIFE_INCOME_POPUL...
10/31/19 10:45 AM • v4e.p...

LIST TABLE 1

INSIGHT_TOY_DEMO   ⚡ ⋮

🖿 Details   Sample Data   Profile

🔍 Filter

#	Name	Label	Type	Ra...	Fo...
1	⊕ TransactionDate	Tran...	d...	8	
2	⊕ TransactionYear	Tran...	d...	8	
3	⊕ TransactionMonth	Tran...	d...	8	
4	⊕ TransactionWeekd	Tran...	d...	8	
5	⊕ SalesRepID	Sale...	d...	8	1
6	△ Order	Order	char	21	2
7	△ Customer	Cus...	char	26	2
8	⊕ CustomerLat	xyC...	d...	8	1
9	⊕ CustomerLon	xyC...	d...	8	1
10	⊕ CustomerDistance	Cus...	d...	8	
11	⊕ CustomerSatisfacti	Cus...	d...	8	
12	△ Facility	Faci...	char	18	1
13	⊕ FacilityLat	xyFa...	d...	8	1

Date profiled:
(none)

Columns   Rows
57   1.6 M

Size
1 GB

Label:
(not available)

Location:
cas-v4e015-
default/TUNDATA

Date created:
Oct 31, 2019 10:44 AM
Date modified:
Oct 31, 2019 10:45 AM

Encoding:
utf-8

Tags (0):
No items
have
been
added.

OK   Cancel

Once you arrive the SAS Visual Analytics interface, perform the following visualization tasks using the above mentioned/selected data source:

1. Create an automatic chart that shows the Product Cost of Sale by Facility Continent. Make sure that columns are vertical, sorted, and has numerical values on the top. You should get a chart similar to the following
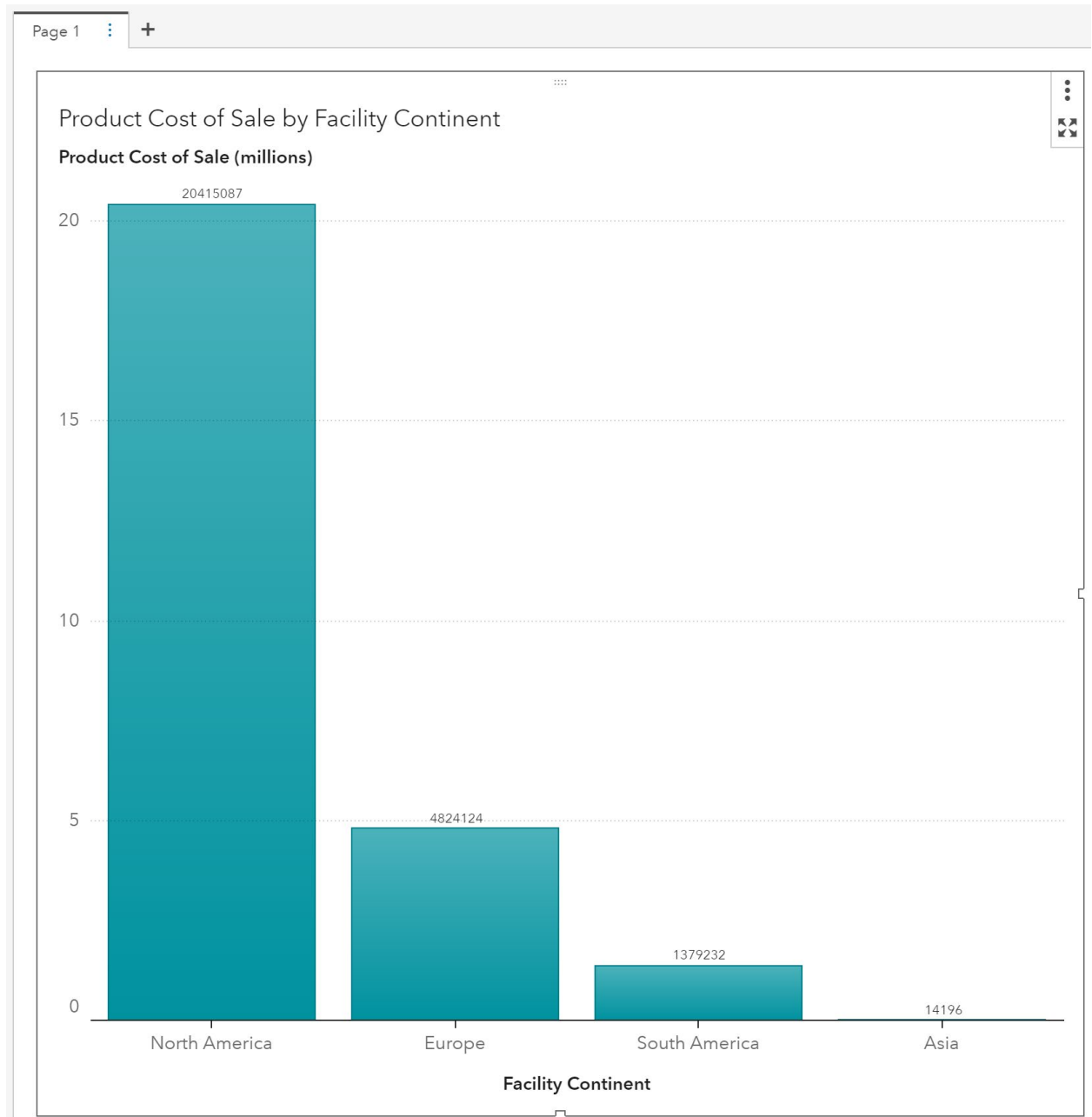
2. Create a box plot that shows the Product Cost of Sale by Product Line. After you are done, you should have a chart similar to the following:
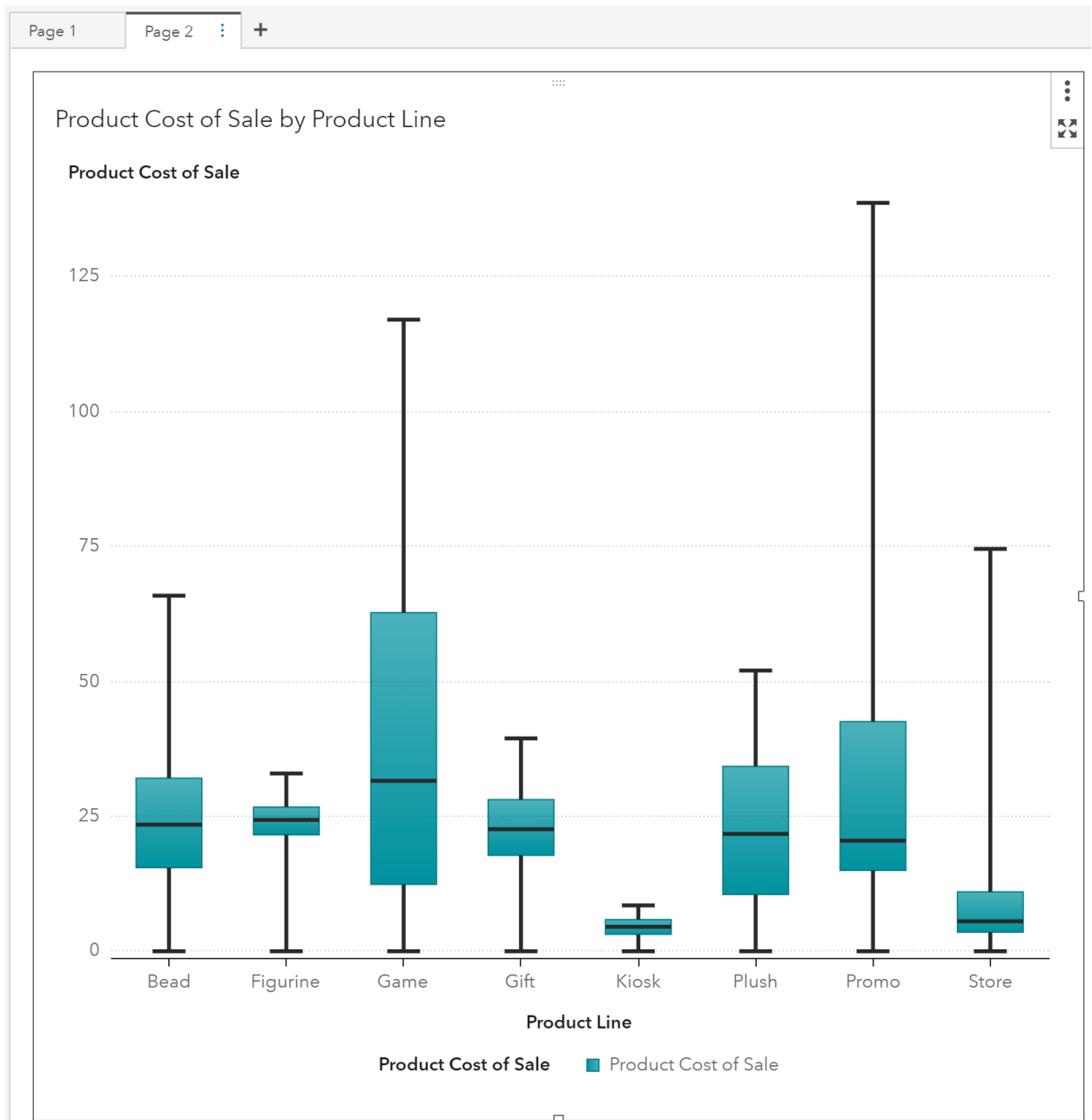
3. Create a time-series forecasting chart that shows the Unit Capacity by Transaction Month. Make sure to include one-year forecast at the end. You will need to remove the last two months (August and September 2005) using a filter for a cleaner looking time-series data with the forecast. After you are done, you should have a chart similar to the following.
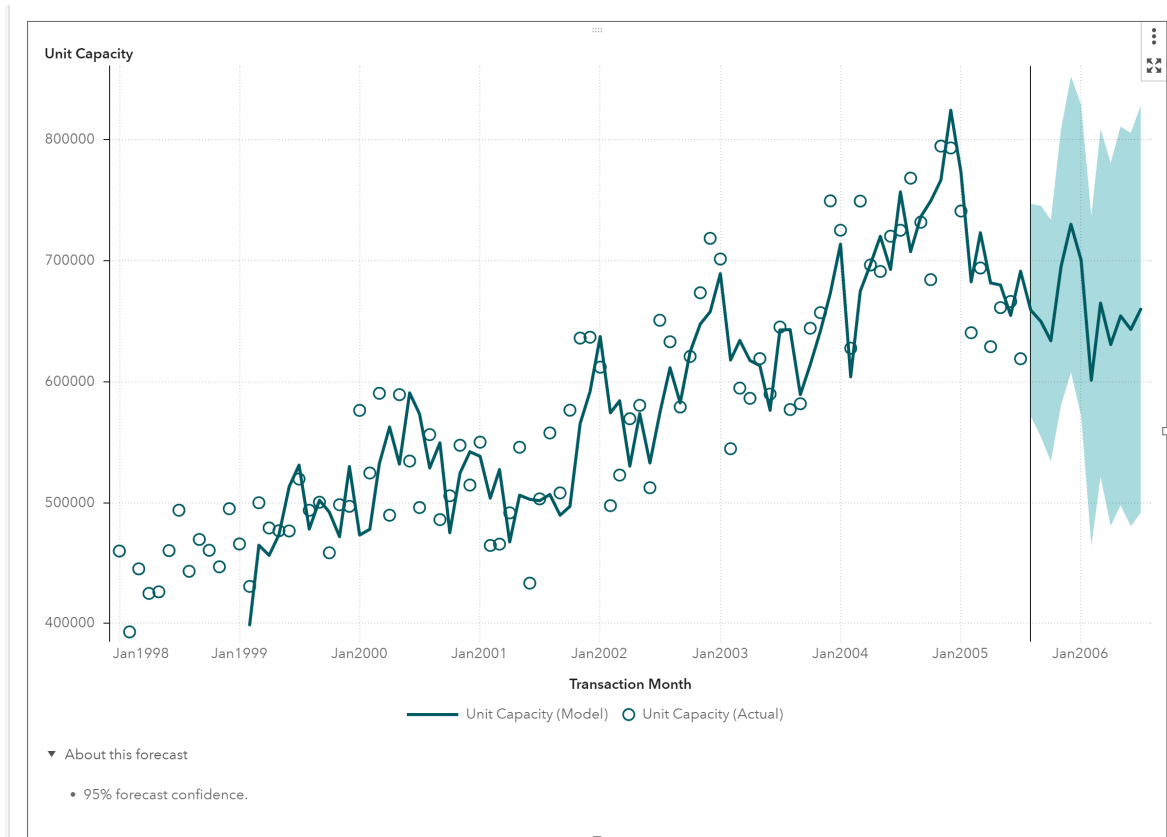
4. Create a Tree Map visualization that shows Product Sale by Facility Country. Then select Product Cost of Sale as Color definer. After you are done, you should have a visualization that looks similar to the following.
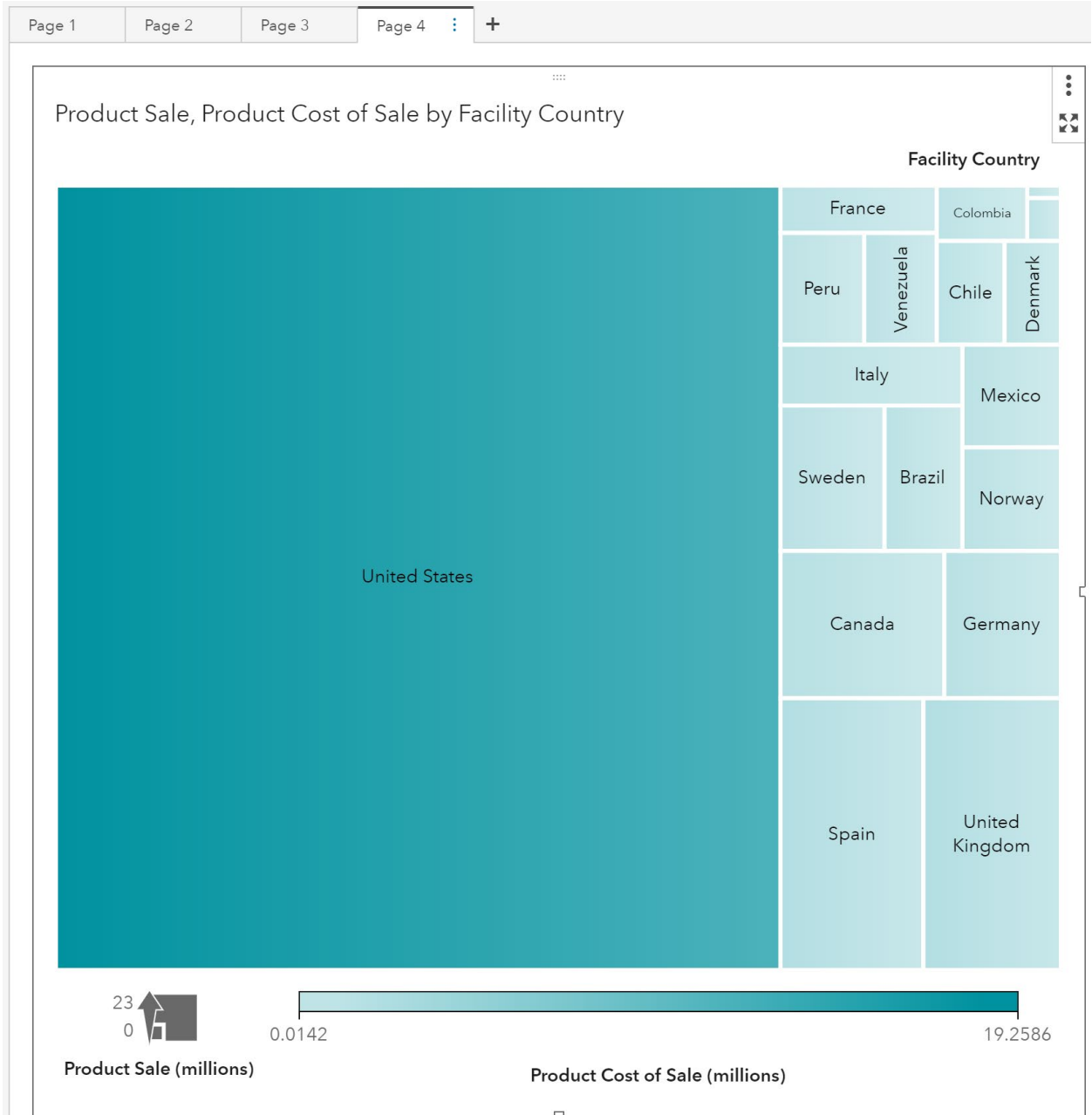

Once the chart is created, because of the Auto charting, it would not look like the Tree Map. No worries; follow the instruction below to change the Chart Type from Bar Chart to a Tree Map.
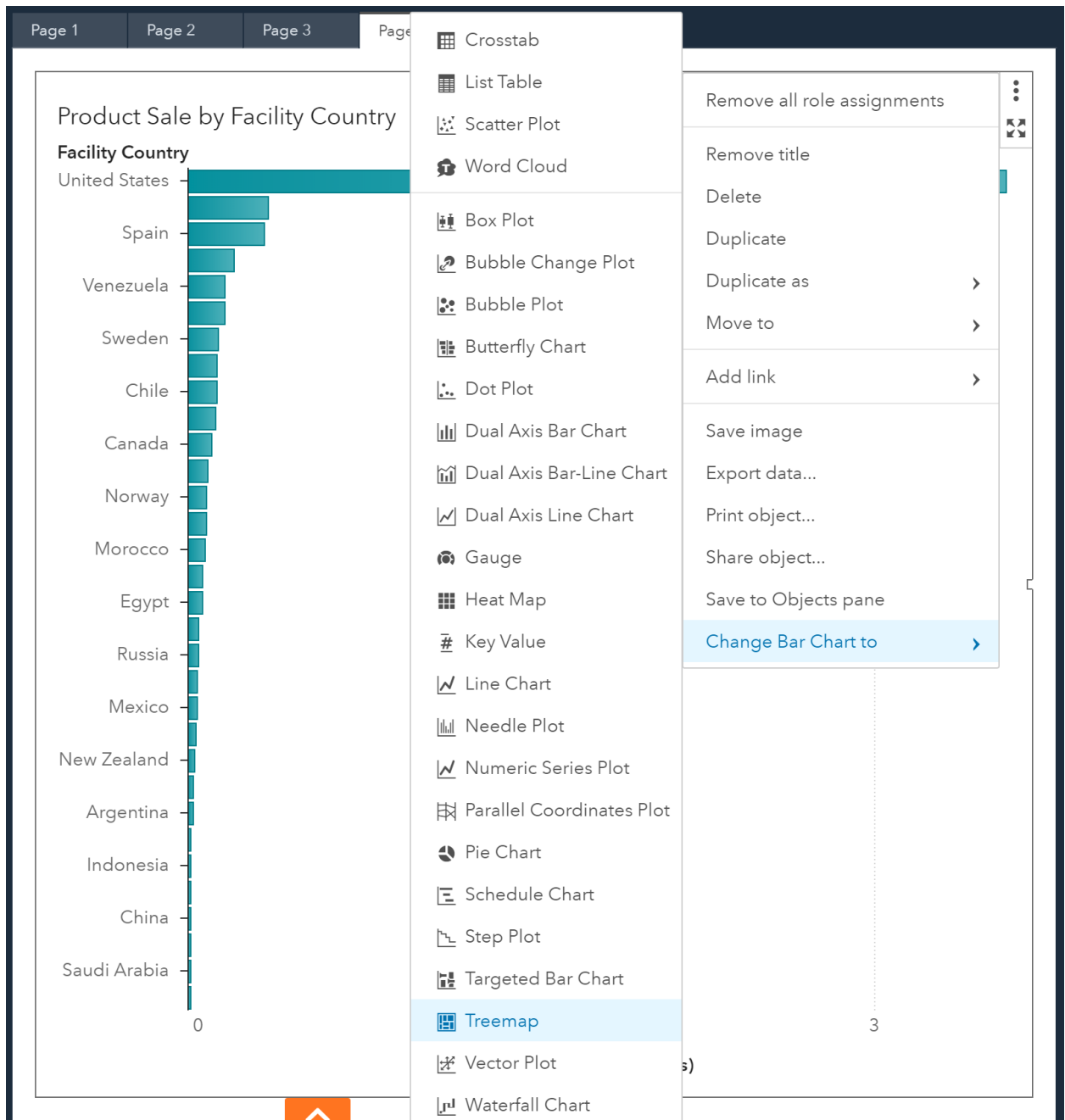
Once you are done, from the menu at the top right corner (shown as stacked three dots that looks like a snowman), choose Save as, and save your report as Homework Assignment 1.

Add a Table of Content Page

Go to Objects, find Text, drag and drop it on a new Page. Resize the Text object, double click and add textual content. One thing that works well is to create the content in Word, and then copy and paste it in. If necessary, you can also format the textual content in the Text object.
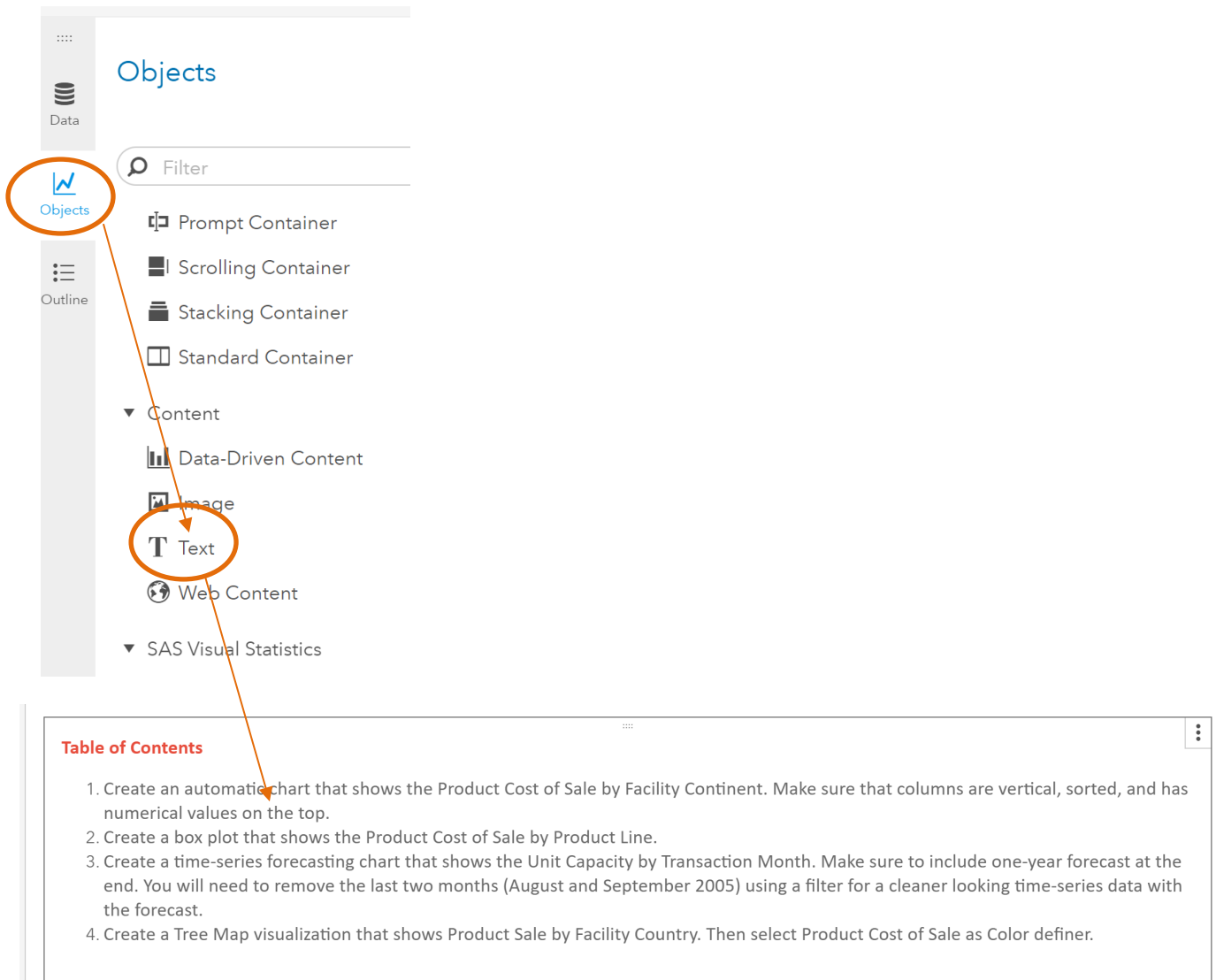
Create and Submit Your Homework Assignment

Upon completing all four tasks, print your assignment into PDF format as described below:
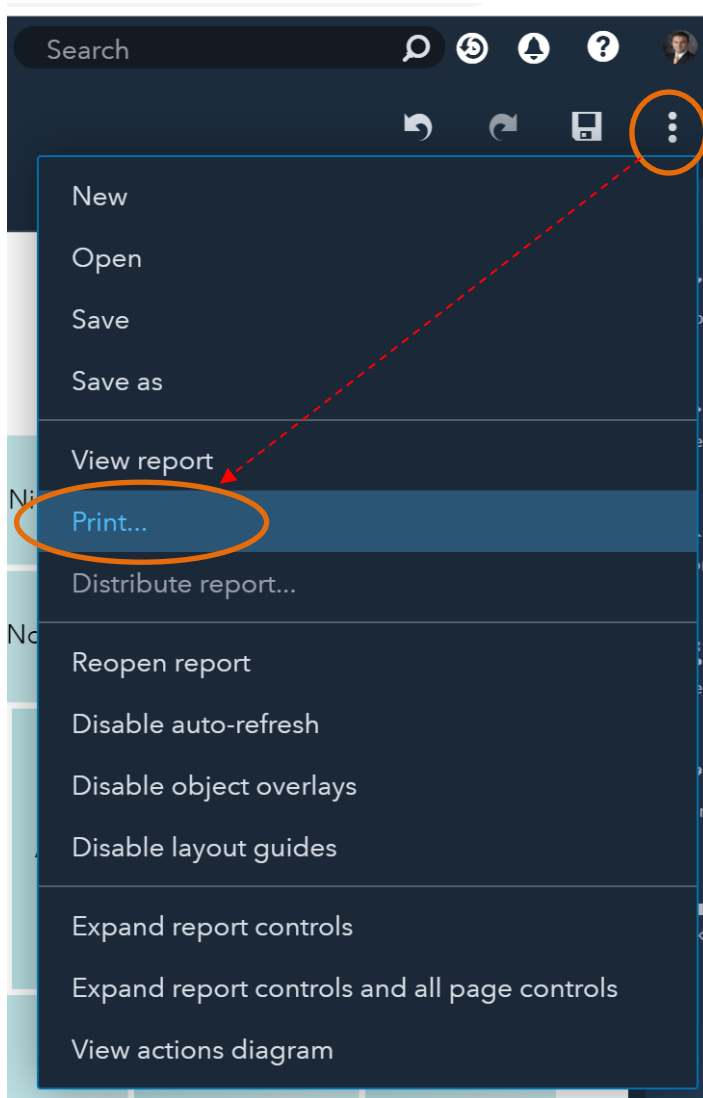
Print to PDF

Document Setup   Select Objects

Page Setup

Paper size:

| Letter ▼ |

Orientation:

○ Portrait
● Landscape

Margins

Units:

| Inches ▼ |

Top: Right:

| 0.25 | | 0.25 |

Left: Bottom:

| 0.25 | | 0.25 |

Options

Show page numbers: (on)

Show empty rows and columns in table: (off)

Include printed Table of Contents: (off)

Include appendix information: (on)

Include comments: (off)

Include supplemental tables: (off)

Expand clipped and non-visible content: (off)

Include cover page: (on)

Cover page text:

Following four visualization tasks are performed:

1. Create an automatic chart that shows the Product Cost of Sale by Facility Continent.

Print   Cancel

Notice that you can add any type of explanatory text in this field to make your report more descriptive. Since you have created a separate Table of Content page, you can also leave this section blank.

On Print dialog box, select the pages you want to export/print, as shown below.

Print to PDF

Document Setup | **Select Objects**

Choose visual elements:

○ Print all items   ● Print selected items
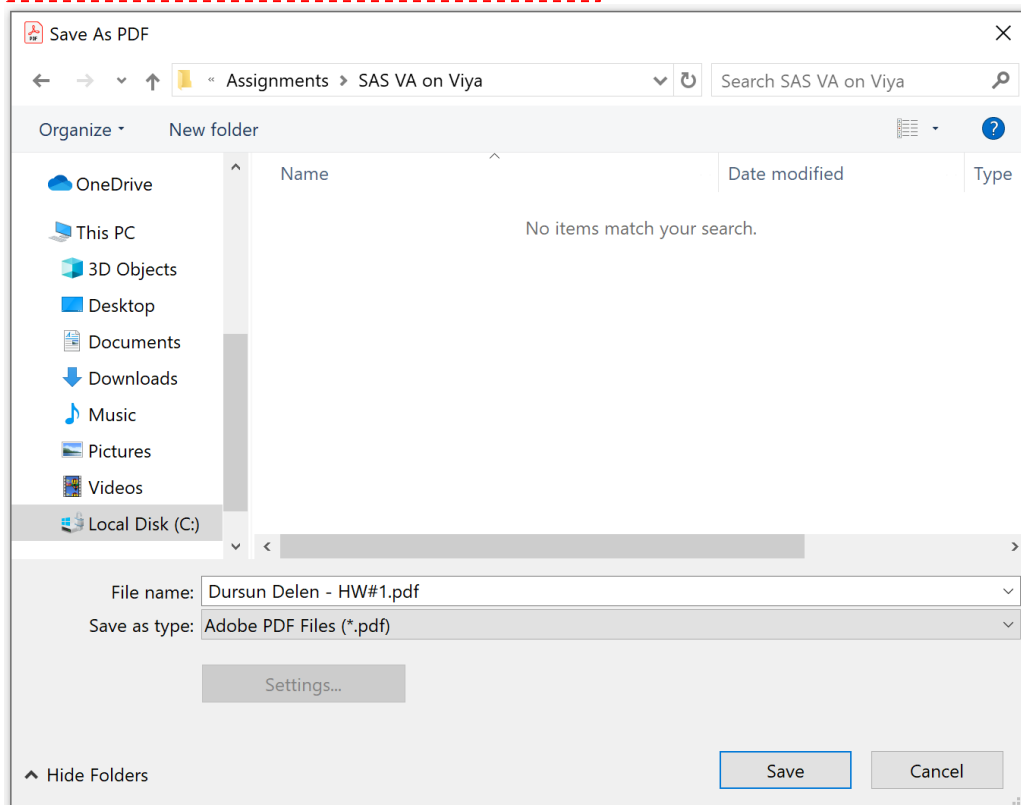
Objects:

☑ Select

▷ ☑ Page 1

▷ ☑ Page 2

▷ ☑ Page 3

▷ ☑ Page 4

Note: Your report will have five pages (including the table of contents page).

Make sure the pages are sequenced as listed on the Table of Contents page. You can rearrange the sequence of pages before initiating the Print dialog box.

Then click on Print.

Save As PDF   ✕

← → ∨ ↑ 📁 « Assignments › SAS VA on Viya   ∨ ↻   Search SAS VA on Viya   🔍

Organize ▾   New folder   ▤ ▾   ❓

OneDrive
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)

Name	Date modified	Type
No items match your search.		

File name: Dursun Delen - HW#1.pdf

Save as type: Adobe PDF Files (*.pdf)

Settings...

△ Hide Folders   Save   Cancel

Save the file with an appropriate name (as instructed by your professor).

Once completed you will have a PDF file similar to the following:
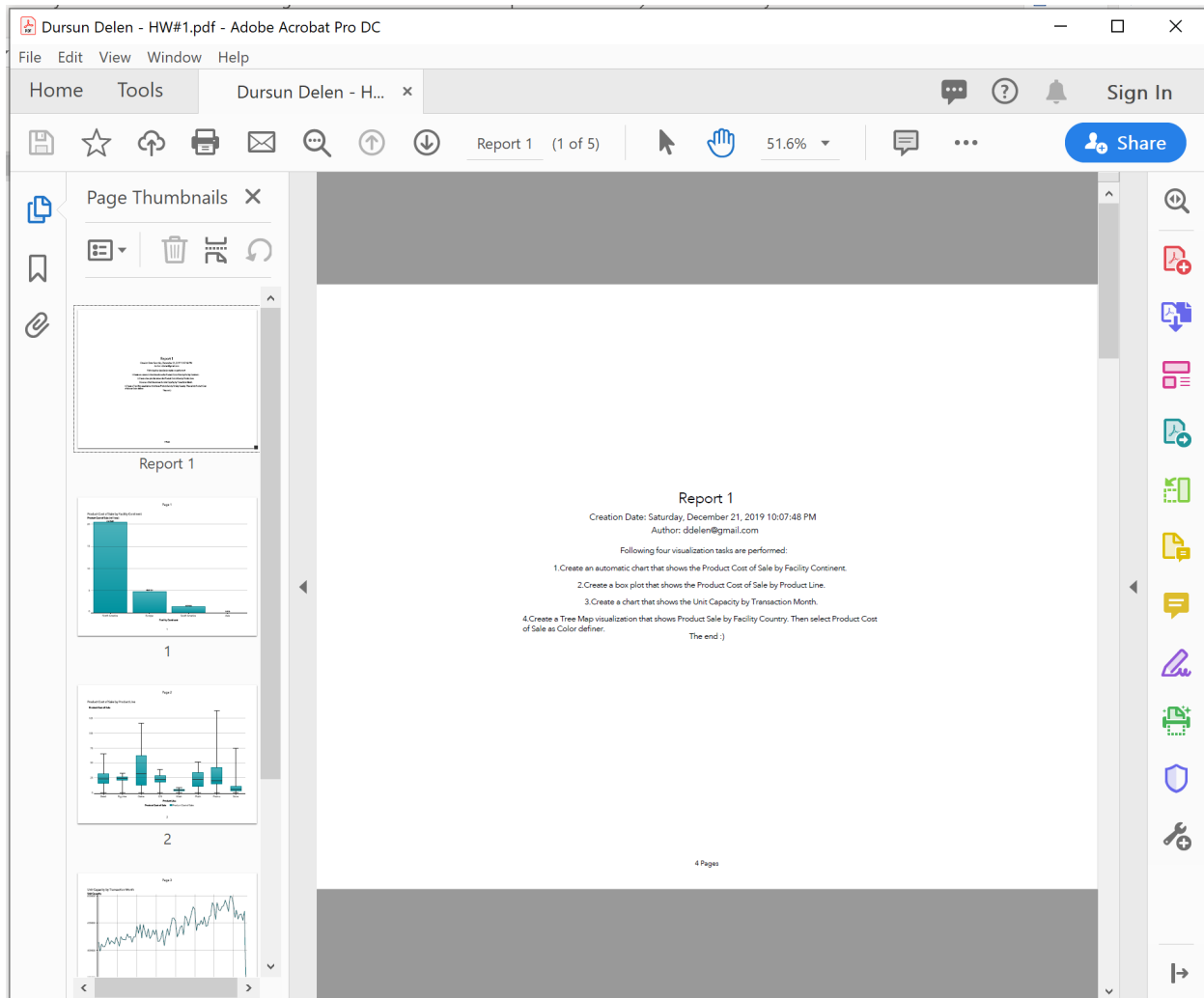
Your first assignment is now completed. Submit the PDF file to your instructor using the LMS upload.