Hands on Exercise for Data Visualization and Reporting – Part 2

Log on to elab using <u>your eID credentials.</u>

Use Power BI Desktop to complete the following "Learn by Doing" modules from Larson's Delivering BI book:

1. **Creating the Max Min Sales Data Model in Power BI (Chapter 15; Pages: 630-638)**

<u>Notes:</u>

- **Steps to Bring the MaxMinSalesDM into a Power BI Model (Page: 630)**
  - Step 5 - For Server, type buscissql\cisbi.
  - Step 6 – For Database, type MaxMinSalesDM2016.
  - Step 10- As directed, select the seven data tables. Ignore sysdiagrams and fn_diagramobjects
- **Steps to Visualize Data in a Power BI Model (Page: 634)**
  - Step 2 – You will not see Sales_Tax and Shipping as shown in Figure 15-9.
  - Step 13 – The sales amounts shown in Figure 15-12 will be different from those in your chart.
  - Step 18 - You should already have a folder called **PowerBI** (you created it in Part 1).

2. **Completing the Max Min Sales Information Data Model (Chapter 16; Pages: 696-701)**

<u>Notes:</u>

- **Steps to Clean Up the Customer Table (Page: 696)**
  - Step 2 - If you do not see the "Max Min Sales Information.pbix" filename listed on the left side of the dialog box, select File→Open to locate (in your PowerBI folder) and open this file.
- **Steps to Clean Up the Sales_Information Table (Page: 700)**
  - Ignore steps 10-13.

3. **Adding Hierarchies to the Max Min Sales Information Data Model (Chapter 16; Pages: 702-704)**

4. **Using Table and Matrix Visualizations (Chapter 16; Pages: 704-706)**

<u>Notes:</u>

- **Steps to Create the Table and Matrix Visualizations (Page: 706)**
  - Step 13 - The sales amounts shown in Figure 16-11 will be different from those in your chart.

5. **Using Card and Multi-row Card Visualizations (Chapter 16; Pages: 707-709)**

6. **Using Pie and Donut Charts (Chapter 16: Pages: 709-710)**

<u>Notes:</u>

- **Steps to Create the Pie Chart and Donut Chart Visualizations (Page: 709)**
  - Step 14 - The sizes of the slices shown in Figure 16-14 will be different from those in your chart.

7. Creating a Gauge (Chapter 16: Pages: 710-712)

Notes:

- **Steps to Create the Gauge Visualizations (Page: 711)**
  - Step 17 – For Min, type **100000**
  - Step 18 – For Max, type **200000**
  - Step 19 – For Target, type **160000**
  - Step 28 – The chart shown in Figure 16-15 will be different from yours.

8. Creating a Calculated Column (Chapter 16: Pages: 723-724)

Notes:

- **Steps to Create a Calculated Column (Page: 723)**
  - Step 8 - The numbers shown in Figure 16-23 will be different from yours.

9. Creating Measures with Time Analytics (Chapter 16: Page: 724-728)

Notes:

- **Steps to Create the YOY Comparison Report (Page: 725)**
  - Step 12 - The chart shown in Figure 16-24 will be different from yours.
- **Steps to Create the YTD KPI Report (Page: 726)**
  - Step 10 – Your KPI will show "We are -0.96% behind last year."
  - Step 15 – The numbers shown in Figure 16-25 will be different from the ones in your chart.

10. Creating a Measure to Override Context (Chapter 16: Page: 728-729)

Notes:

- **Steps to Create the Percent of Sales Report (Page: 728)**
  - Step 11 - The numbers shown in Figure 16-26 will be different from yours.

Include your name in each chart. Use screen capture to prepare a document with images of the eight charts/reports (see attached sample document). Submit this document and indicate that you have completed the exercise.