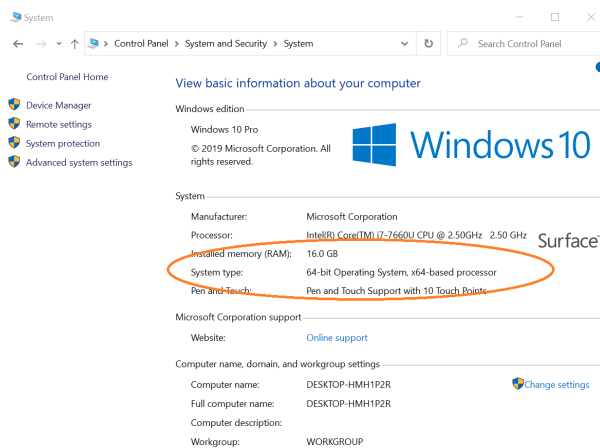


Prerequisites

The following prerequisites and setup must be done for successful follow along of the pre-conference demo:

- You must be connected to the internet.
- You must have, at minimum, a computer with 2-cores and 4GB RAM running Windows 8, Windows Server 2008 R2, or later.
- You will need to have Microsoft Edge.
- You must verify if you have a 32-bit or a 64-bit operating system so you can install 32-bit or 64-bit applications. To check your operating system type:
 - Open Control Panel, click System and Security, and then click System.
 - You will be able to identify if your operating system is 32-bit or 64-bit based on the System type field as shown in the screenshot below.



- You must download the Power BI Content: Create a folder called **APHLPC** on the C drive of your local computer. Copy all contents from the Persuasive Data Storytelling folder to the **APHLPC** folder you just created (**C:\APHLPC**). The following bulletin illustrates the file structure.
 - Solution
 - Part 1 - Power Query
 - Part 2 - Final Report
 - Dataset
 - Excel - NC Regional Lab_CSs_5.1.2022
 - Folder - COVID TAT Nov and Dec 2021
 - Excel - COVID TAT_Sep 21_5.1.2022
 - CSV - COVID TAT_Oct 21_5.1.2022
 - Recourses and Cheat-sheet
 - Power BI Learning Resource.pdf
 - DAX Function - Cheetsheet.xlsx
 - Visual vocabulary.pdf
- You must download and install Power BI Desktop using any one of the options listed below:

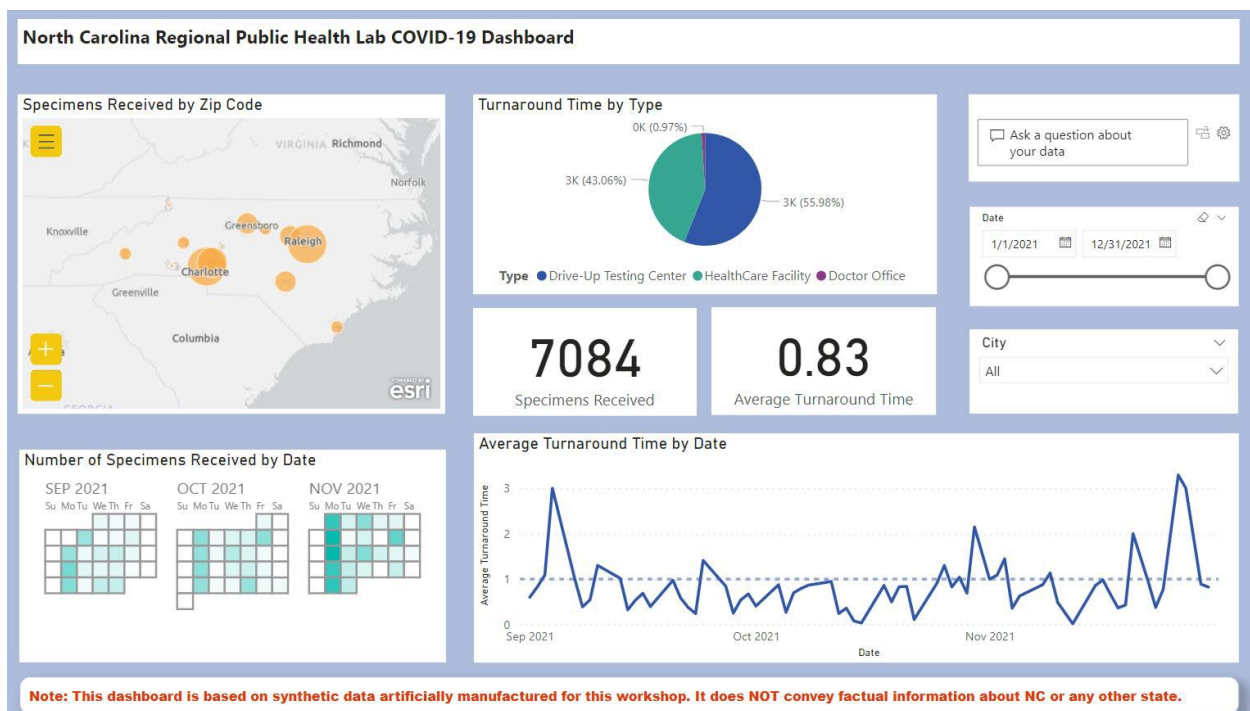
- If you have Windows 10, use Microsoft App Store to download and install the Power BI Desktop app.
 - Download and install the Microsoft Power BI Desktop from <http://www.microsoft.com/en-us/download/details.aspx?id=45331>
 - If you already have the Power BI Desktop installed, ensure you have the latest version downloaded.

Document Structure and Dataset

The dataset you will use today is NC Regional Lab COVID-19 TAT data. This type of analysis is very common for PHL technical staff and the leadership. The TAT visualization will help identify internal performance (how well we are doing TAT wise) and externally, which sample collection site is delayed or has more samples, what day of the week, and compare that with our set TAT benchmark.

The NC Regional Public Health Laboratory is an imaginary regional lab for this conference.

- **Please note:** there are intentional errors with some of the excel data; this is by design so that users can learn how to shape data.
- By the end of the class, you will build a report like the screenshot below. The Lab Staff or Leadership can use this report to analyze NC Regional Lab COVID-19 TAT performance.



The solutions provided for each step are a final product to reference. The solutions are not meant to be the starting point for each part.