**MicroStrategy Software Project**

MicroStrategy is a major vendor of Business Intelligence Software.  For this project, you will work with the desktop version of the software.  You will learn to use the software’s visualization and analysis capabilities.  The MicroStrategy software is accessed through the Teradata University Network.

In class, you will learn how to access the software and its basic capabilities.  You will begin by registering and installing the desktop version. Once you open the desktop app, it will direct you to step by step tutorial videos.

Tutorial videos can also be found at the following link along with a host of dashboard and visualization ideas:

<https://www.microstrategy.com/us/desktop/help#tutorial-videos>

After going through the tutorial videos, you are expected to explore data for the Airline industry. On-time and delayed flights for airlines operating in the three main Washington, DC-area airports (see below). The dataset can be accessed through the desktop software using the following path:

* Add Data
  + New data
    - Sample files
      * Airline Sample.

As your work product, turn in a **hard copy** of your submission that captures only the visualization outputs to all four questions in the project.

**The problem**

Airport Authority is interested in understanding the airlines operations at three main Washington, DC-area airports. The Airport Authority supervisor has asked his team to answer a few questions by analyzing the Airlines data. Given the easy interpretation of graphically represented data, the team has decided to prepare a dashboard of their findings using MicroStrategy desktop software.

Answer the below questions and present your observations using various visualization options available in MicroStrategy Desktop.

**1. Calculate and graph the total number of flights from each of the three main Washington, DC area airports between years 2009 - 2011, and identify the busiest airport among the three.**

**2. Calculate and graph the best hour for departure from the Baltimore Washington International (BWI) airport. Think about the on-time flights as a proportion of total number of flights.**

**3. Calculate and graph the busiest month for Southwest Airlines in 2010 for all the three airports combined.**

**4. For each airline, calculate and graph delays at each of the three airports and identify the one with the least average delay. (Hint: The graph will look like airlines on the Y-axis and the delay on the X-axis).**