Consuming Azure Data Lake Datasets using SQLDW and PowerBI

Updated on: 1/5/2017

# Introduction

In this lab you will learn how to quickly connect to a SQL DW containing your data and use it to generate visualizations.

# Prerequisites

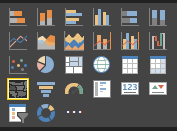
* An Azure SQL DW instance
* Access to PowerBI <https://powerbi.microsoft.com>

# Connecting PowerBI to Azure SQL DW

* Go to PowerBI
* Click **Get Data**
* Click **Azure SQL Data Warehouse**
* Click **Connect**
* Type in the information for your Azure SQL DW instance
* Click on the Azure SQL DW tile that opens up in your dashboard
* Expand the UsersPerProject node

# Visualize

## Map the location of project contributors

* Drag CountryCode onto the canvas
* This will create a “Map” visualization
* Switch this to a “Filled Map” visualization by clicking on the button for it in the Visualization section:
* 
* Drag NumberOfUsers to the “Color Saturation” field

## The number of users contributing to a project

* Let’s first create a table with all the project values
  + Drag “ProjectName” onto a blank area of the canvas
* Next let’s sort these Projects by the number of contributors it has
* Drag ‘NumberofUsers” onto the ProjectName table on the canvas
* Click on the header in the table for NumberOfusers to sort by this column

## The Worldwide distribution of GitHub Users

* Click on the Pie chart visualization
* Drag CountryCode onto the pie chart
* Drag NumberOfUsers onto the pie chart
* Filter out the empty country information
  + Drag CountryCode into the “Report Level Filter” section on the right
  + Filter out the empty country code.