Consuming Azure Data Lake Datasets using SQLDW and PowerBI

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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
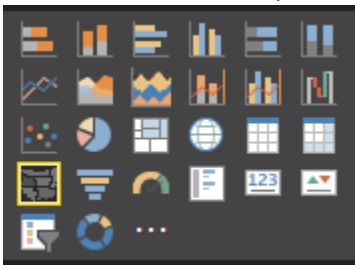- Access to PowerBI https://powerbi.microsoft.com

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:

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- 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.