Introducing the Power BI Platform

Agenda

- Understanding the Power BI Platform
- Creating Datasets, Reports and Dashboards
- Staying in Sync with Monthly Updates

What is Business Intelligence?

- BI focuses on business health and performance
  - Gather insights into health of business processes
  - Take corrective actions in a timely fashion

- BI projects typically involve the following…
  - Integrate data from multiple sources
  - Perform data transformation and complex calculations
  - Analyze large data sets with rapid query response
  - Create insightful reports and visualizations
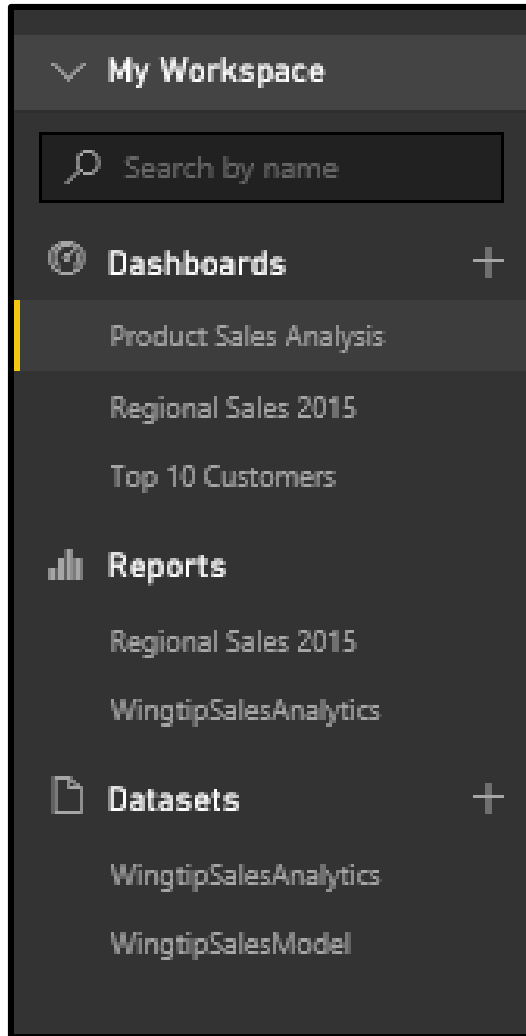 - Provide insights that are "actionable"

What is Power BI?

- What is Power BI?
    - Cloud-based subscription service
    - Environment which promotes self-service BI *to the end user*
    - BI Platform to assists with data import, analysis and visualization

- Power BI benefits from being a cloud-based service
    - It takes only 5 seconds to subscribe to the Power BI service
    - New users can create something significant in 5 minutes or less

The Power BI Service

- ## The Power BI Service
  - Provides cloud-based foundation for Power BI platform
  - Accessible through browser at https://app.powerbi.com
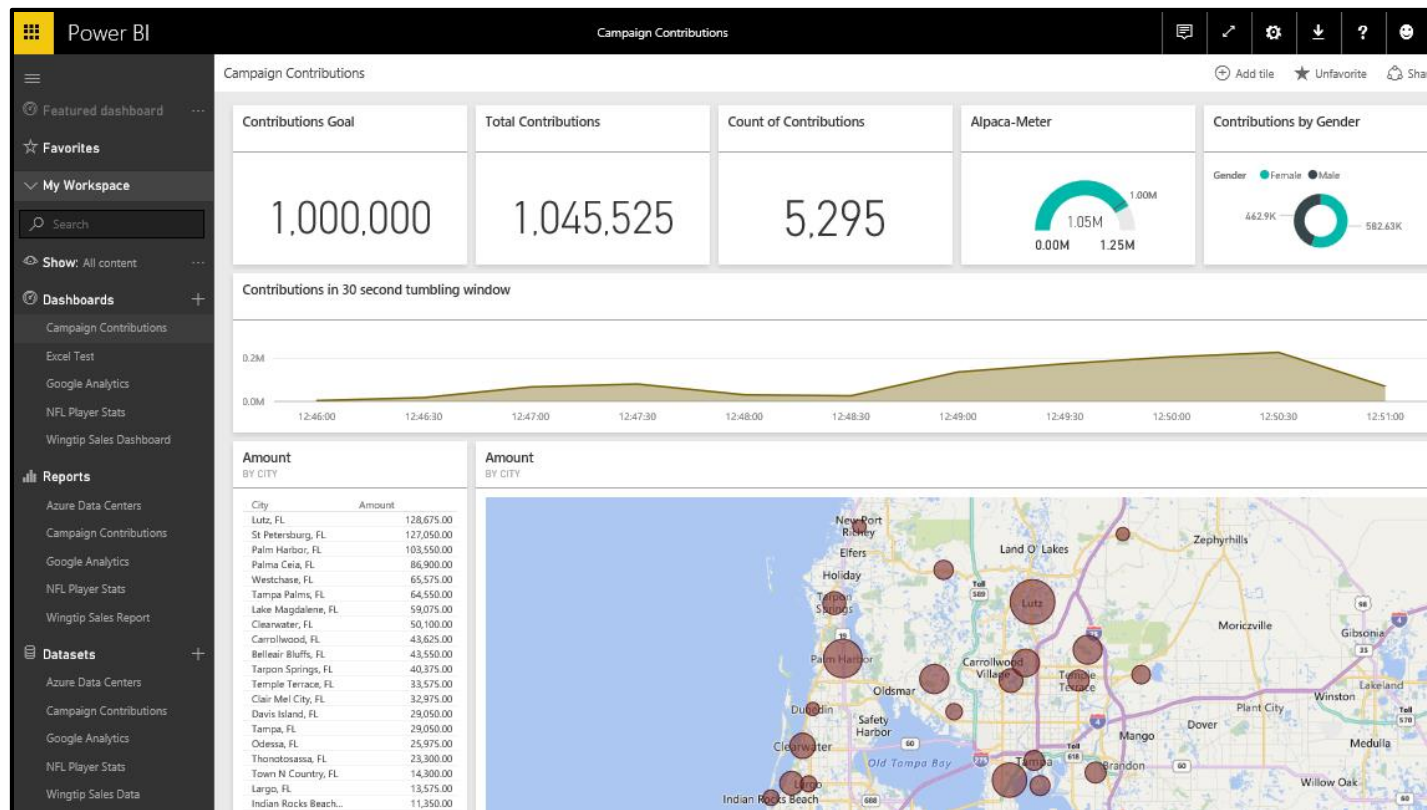
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Central Power BI Concepts

My Workspace

Search by name

Dashboards +
- Product Sales Analysis
- Regional Sales 2015
- Top 10 Customers

Reports
- Regional Sales 2015
- WingtipSalesAnalytics

Datasets +
- WingtipSalesAnalytics
- WingtipSalesModel

- Workspace
  - Provides user context and asset container
  - Every user has personal workspace
  - Team development requires group workspaces

- Dashboard
  - Consolidated view into reports and datasets
  - Custom solution entry point for mobile users

- Report
  - Collection of pages with tables & visualizations
  - Provides interactive control of filtering

- Dataset
  - Data model containing one or more tables
  - Can be very simple or very complex

Dashboards and Tiles

- ## Dashboard is a collection of tiles
  - ### Tile can be created by pinning visual from a report
  - ### Tile can be created by pinning query result from dataset
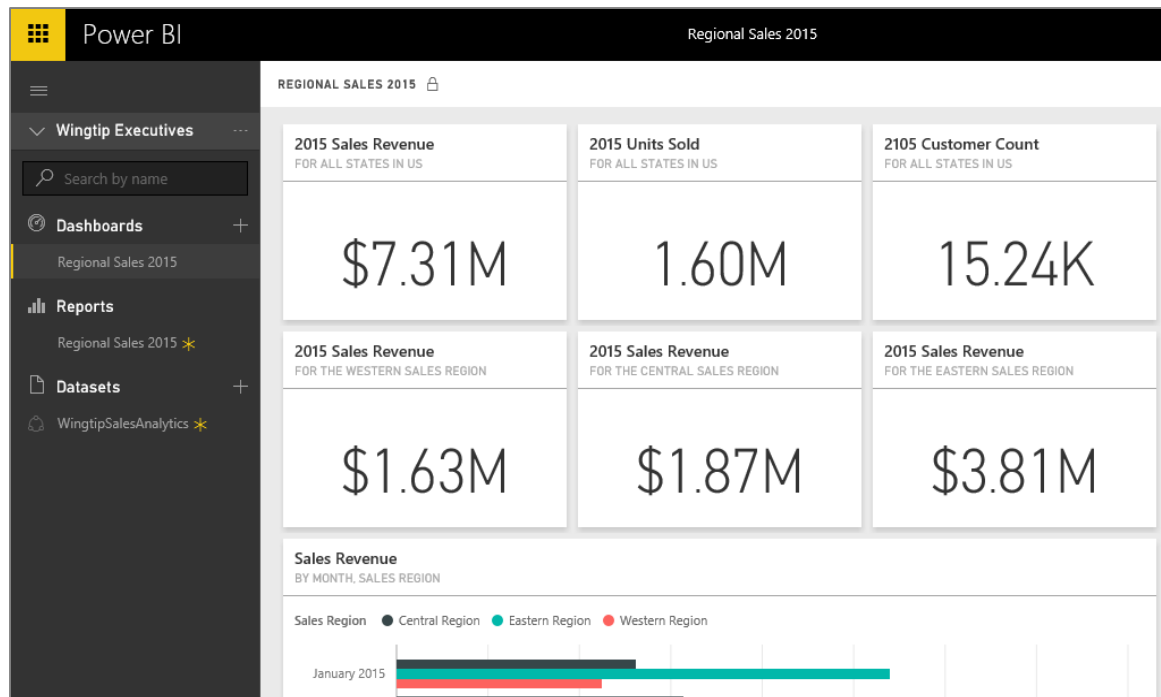
Dashboards and Reports

- Dashboards link users to reports
  - Dashboard tiles designed to provide high-level view
  - Clicking tiles drills down into report to see more detail
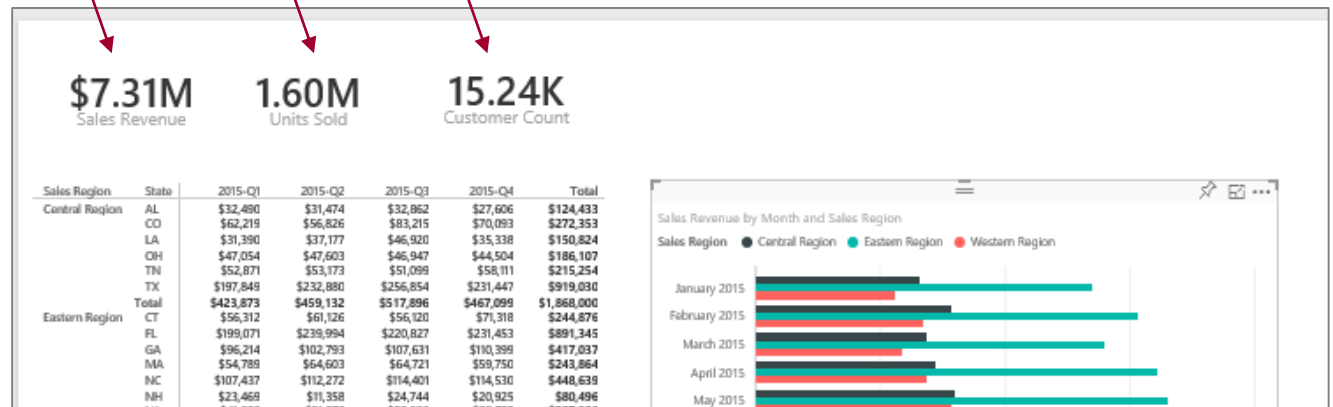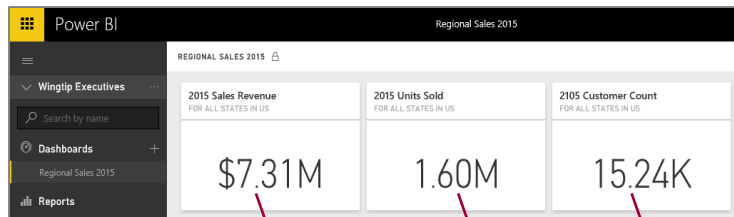
Reports and Pages

- Reports contain one or more pages
  - A report can be designed with a single page
  - A report can be designed with many pages
  - Tabbed navigation located at bottom of report view
  - Each report is associated with exactly one dataset
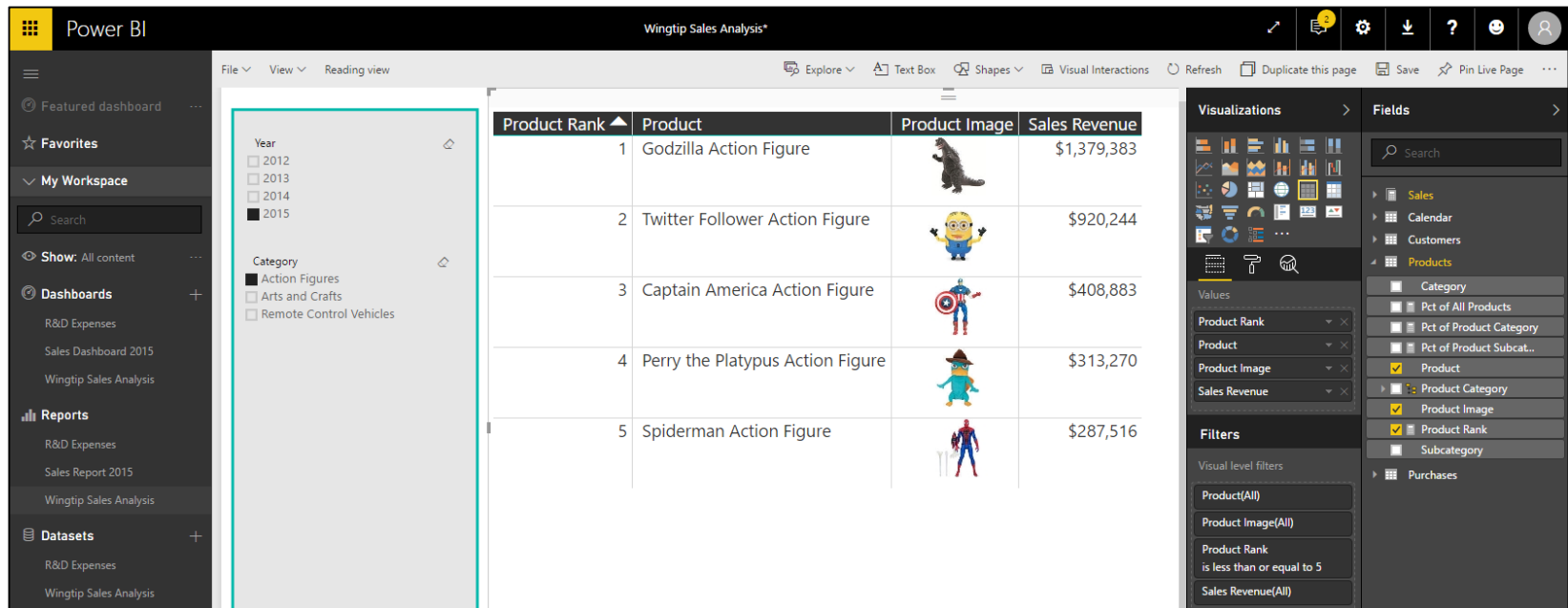
Report Authoring

- Report initially opens in reading view
  - Click Edit report to switch to edit mode

  - Report design tools appear on right side of page

Visuals (aka Visualizations)

- Reports are designed using visual (aka visualizations)
  - Each visuals is based on an underlying visualization type
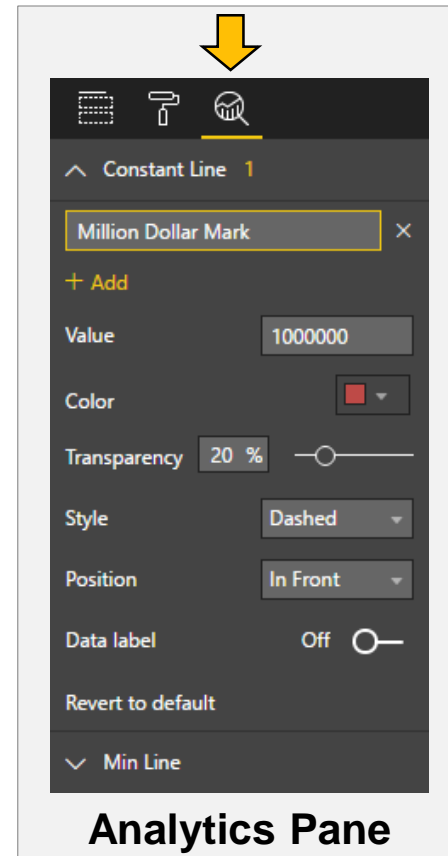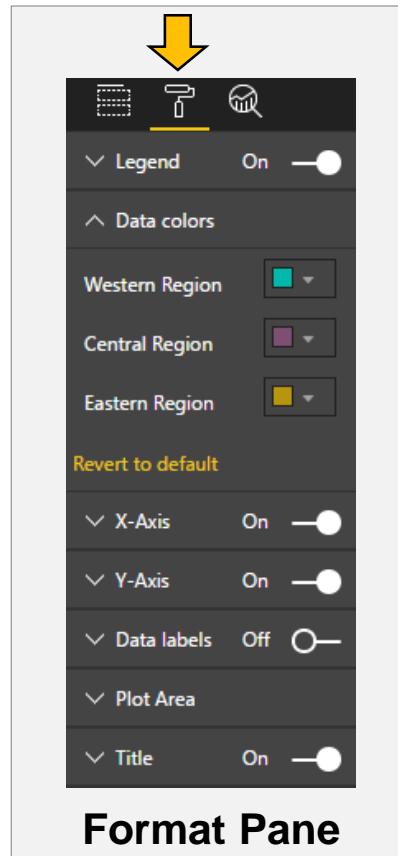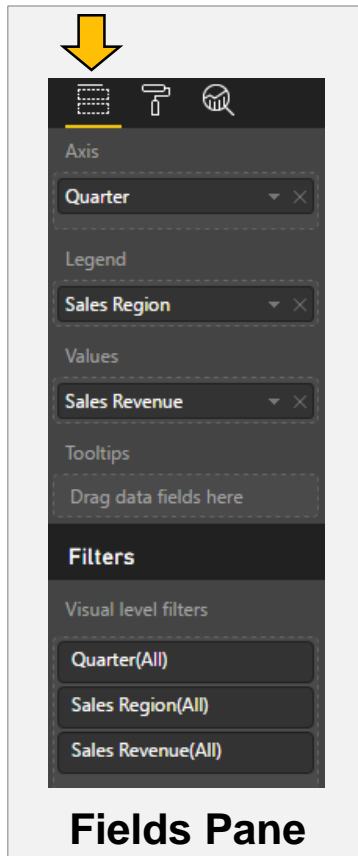 - Visualization type can be changed using **Visualizations** pane
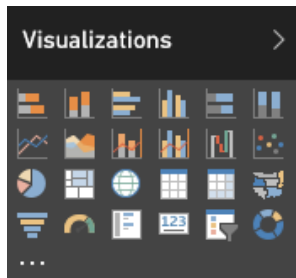
 - Visuals creating by using fields from tables inside **Fields** list
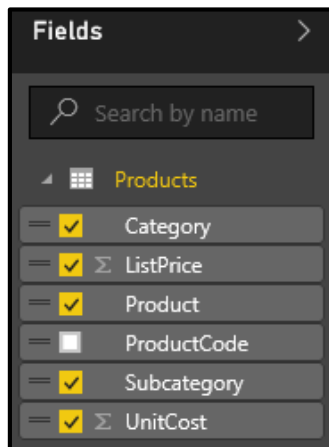
Editing Visual Properties

- Visual properties modified using three property panes
  - Visual properties vary greatly depending on type of visualization

Fields Pane

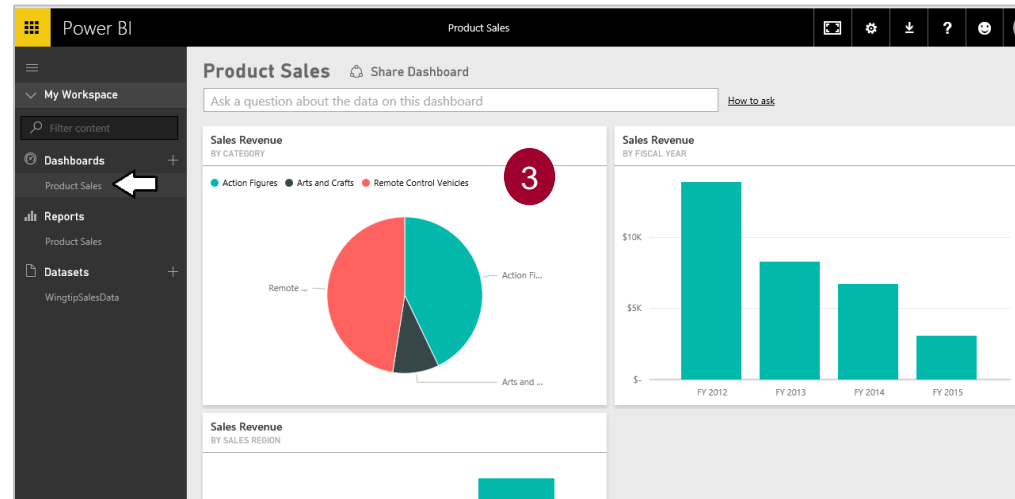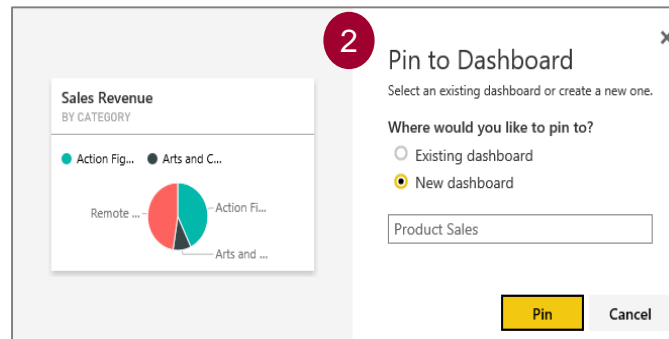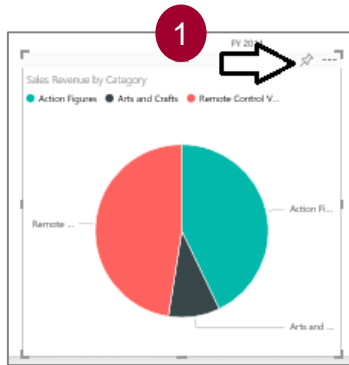**Format Pane**

Analytics Pane

Report and Datasets

- Each report is based on an underlying dataset
  - **Fields** list in report designer shows tables and fields
  - Report author sees tables & fields as dataset consumer
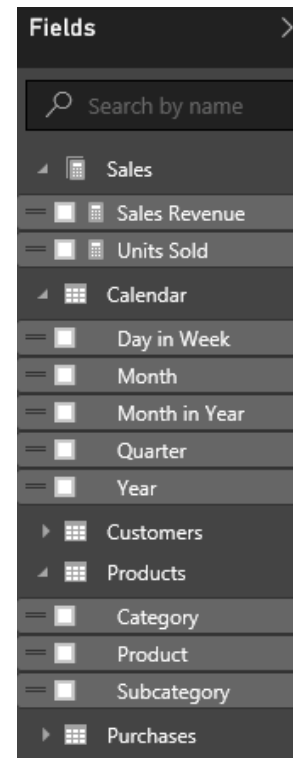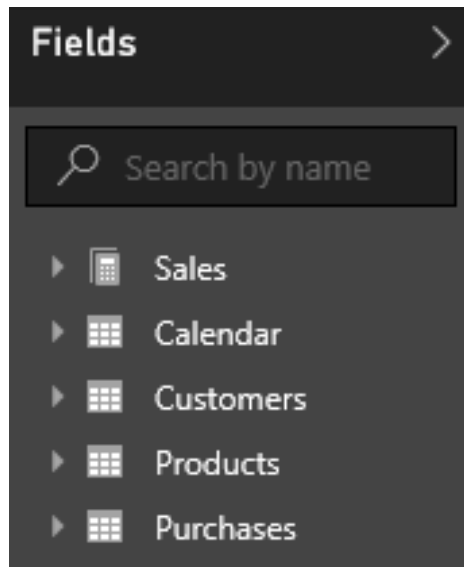
Creating Dashboards

- Dashboards contain tiles
  - Tiles created from visuals on report pages

DEMO

Getting started with Datasets, Reports and Dashboards

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Power BI Team Blog

- Power BI Team Blog is an Essential Resource

  https://powerbi.microsoft.com/en-us/blog/

- Be on the lookout for monthly updates

  ## Power BI Desktop April Feature Summary

  Announcements   Support   📅 April 4, 2018 by Amanda Cofsky
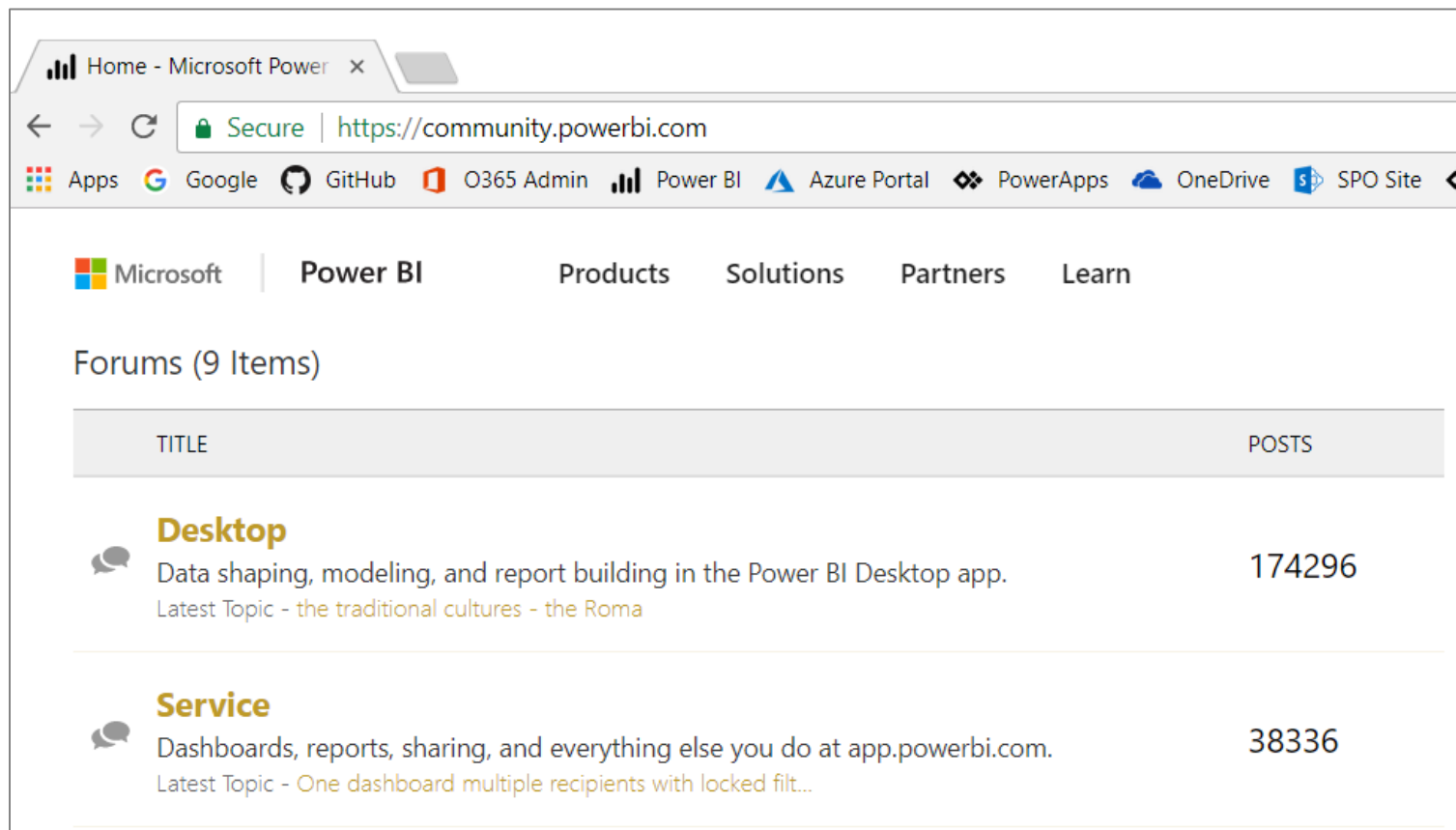
  This month, on top of our normal of visual & data connector improvements, we have two exciting features that lets report consumers interact with reports in a new way. The Q&A Explorer enables report consumers to ask their own questions about the data, and buttons let you add interactive elements on your reports.

  » Read more

Power BI Community Forums

- Located at https://community.powerbi.com/
  - Great place to get answers to tough questions
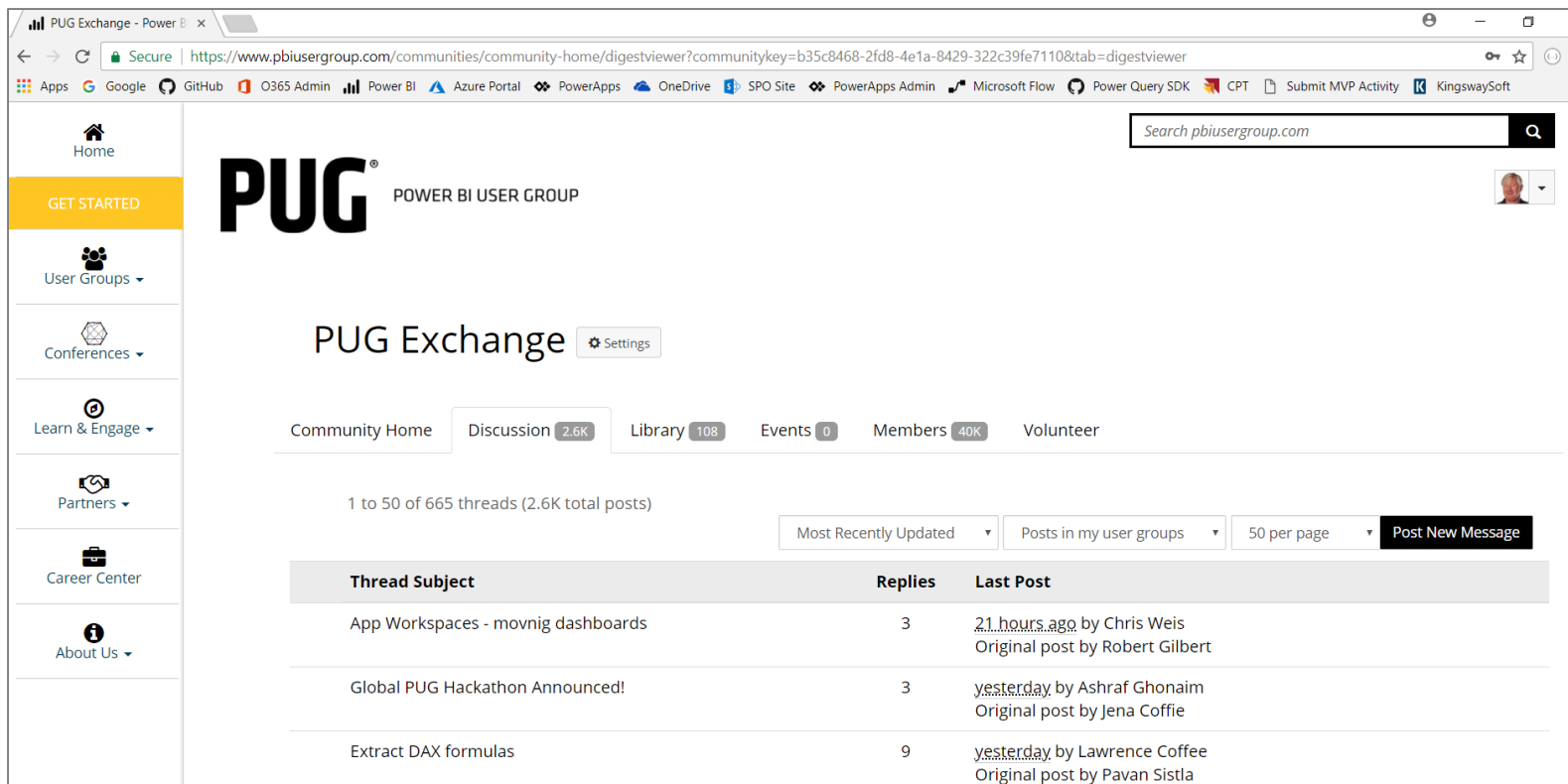
Power BI User Group (PUG)

- Located at http://pbiusergroup.com/
  - PUG Exchange is another place to get questions answered
  - Also let's you find and connect with local Power BI User Groups

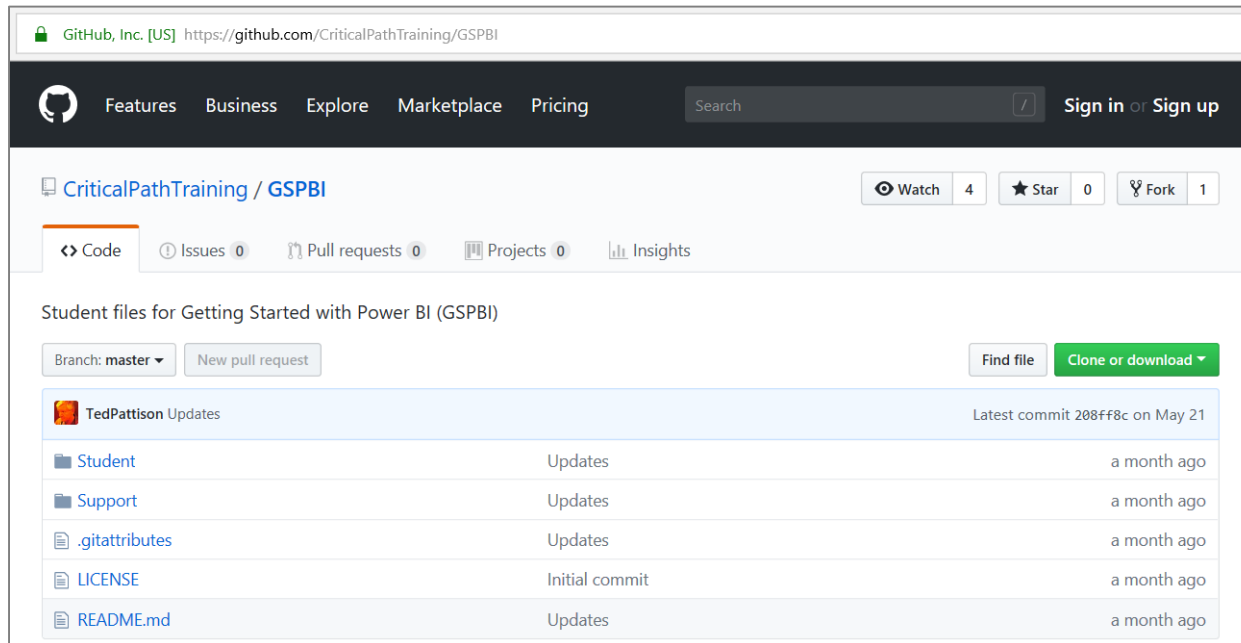# Live Labs for GSPBI

- Student files for this course maintained in GitHub
  - Located at https://github.com/CriticalPathTraining/GSPBI
  - Contains student files used in demos and lab exercises

Summary

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