

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”



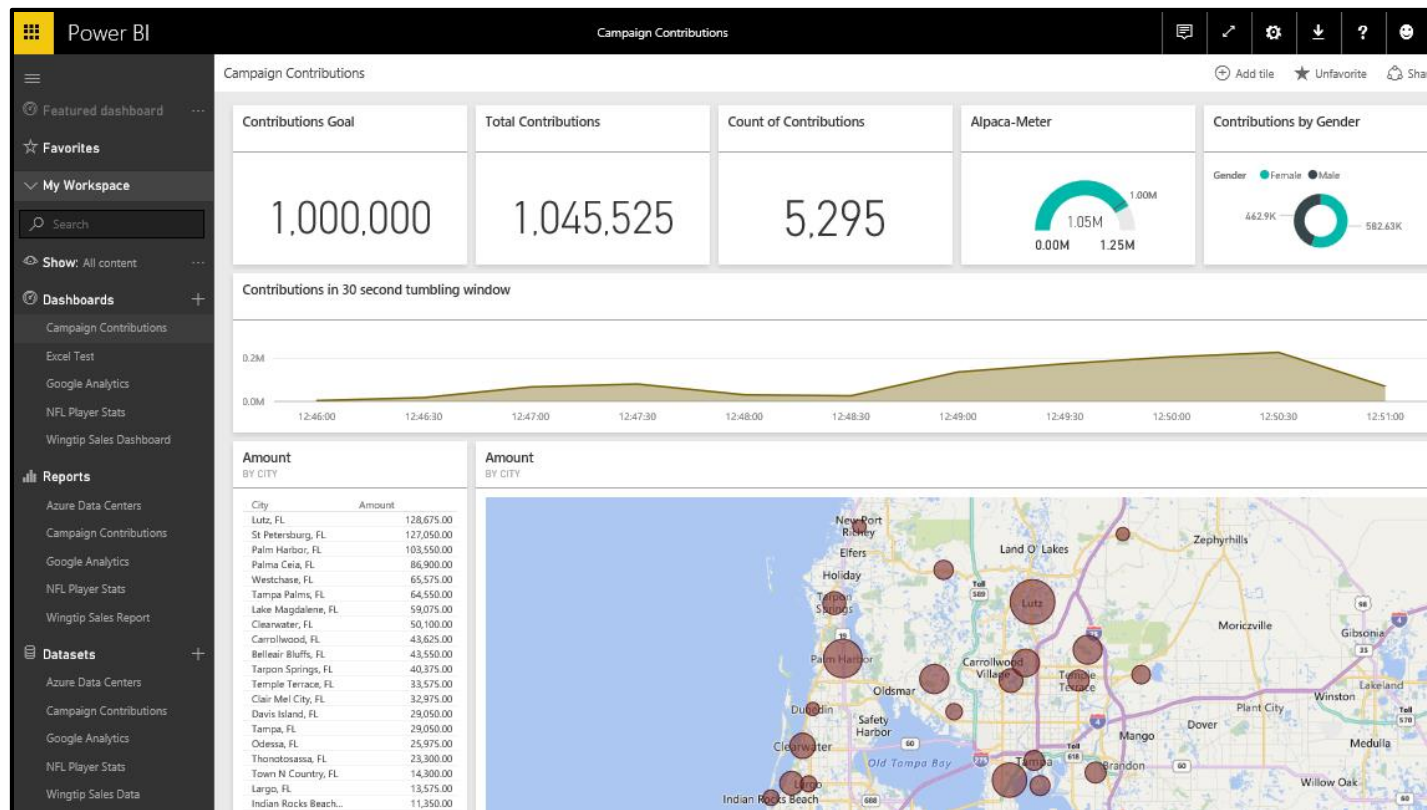
What is Power BI?

- 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>

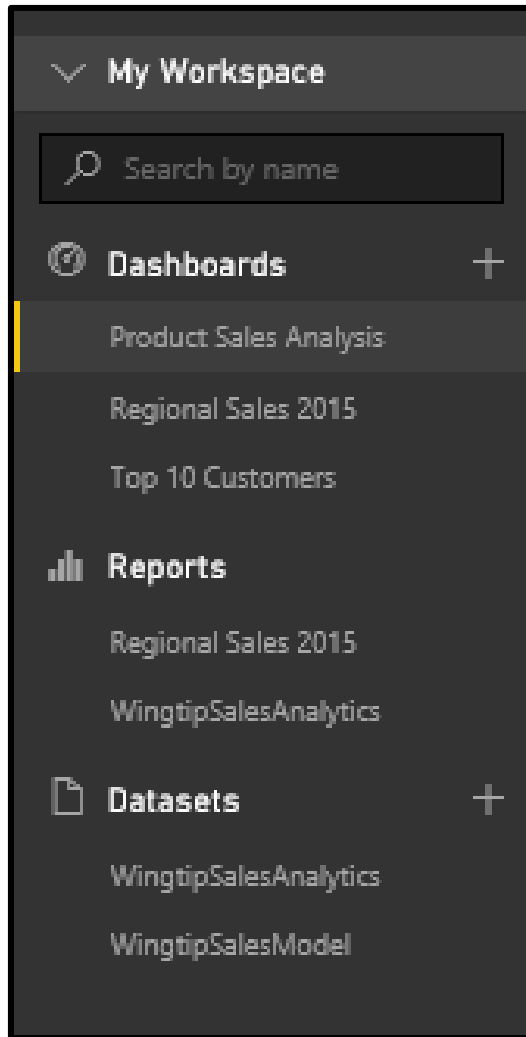


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Central Power BI Concepts

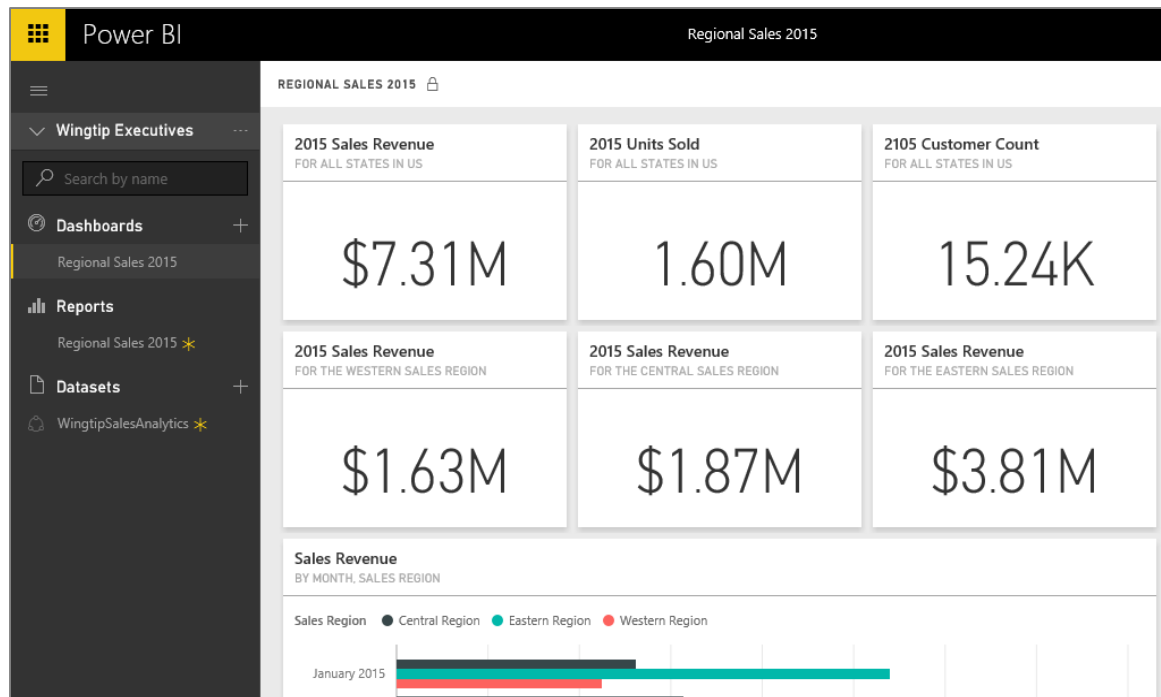


- **Workspace**
 - Provides user context and asset container
 - Every user has personal workspace
 - Team development requires group workspaces
- **Dashboard**
 - Consolidated view into reports and datasets
 - Custom solution entry point for mobile users
- **Report**
 - Collection of pages with tables & visualizations
 - Provides interactive control of filtering
- **Dataset**
 - Data model containing one or more tables
 - Can be very simple or very complex



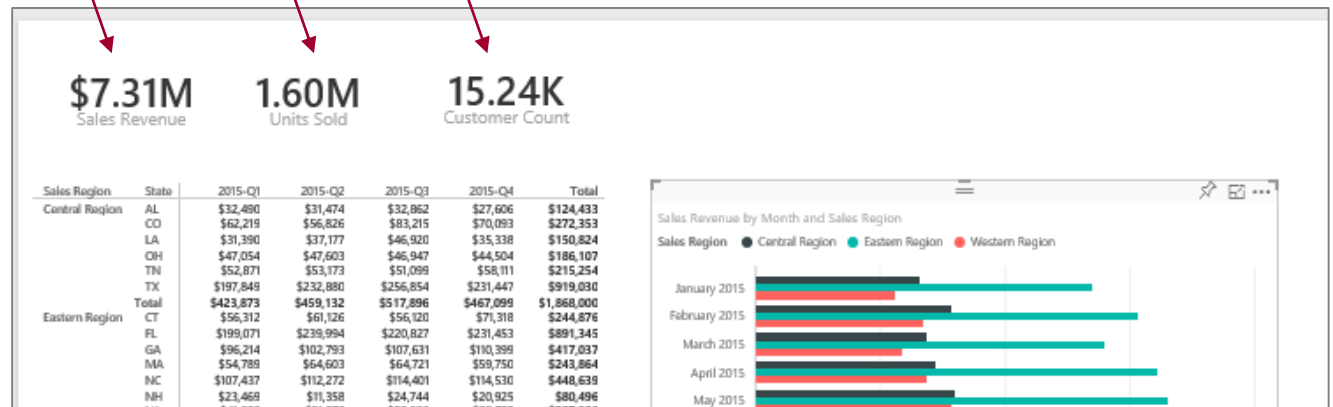
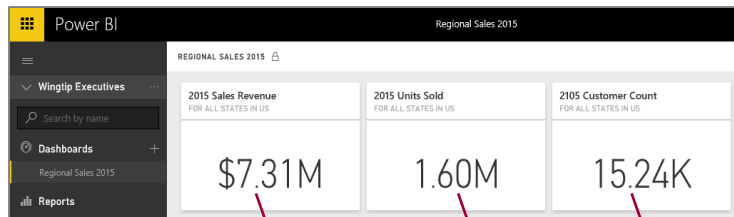
Dashboards and Tiles

- 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

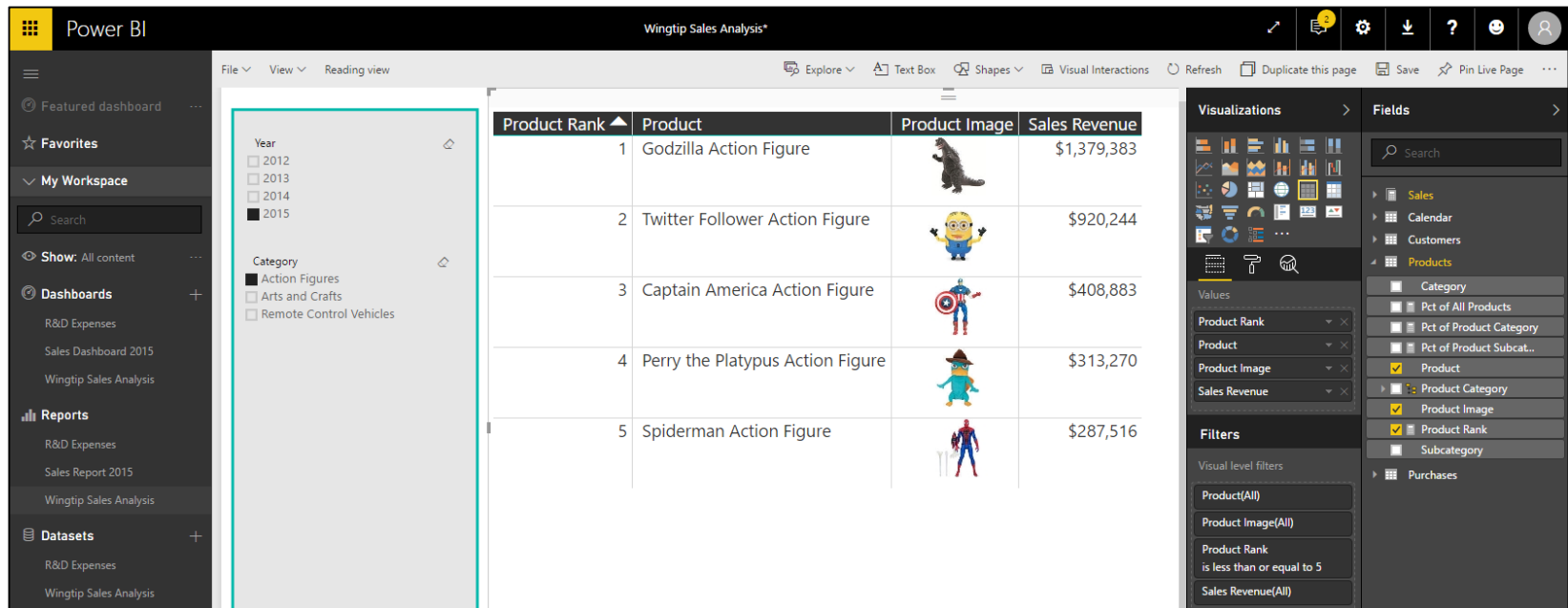







Report Authoring

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



- Report design tools appear on right side of page

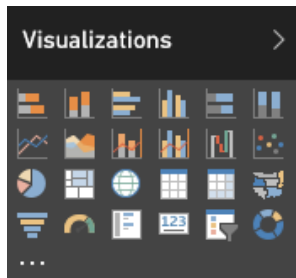
A screenshot of the Power BI report in edit mode. The report is titled 'Wingtip Sales Analysis' and is displayed in 'Reading view'. The report content is a table with the following data:

Product Rank	Product	Product Image	Sales Revenue
1	Godzilla Action Figure		\$1,379,383
2	Twitter Follower Action Figure		\$920,244
3	Captain America Action Figure		\$408,883
4	Perry the Platypus Action Figure		\$313,270
5	Spiderman Action Figure		\$287,516

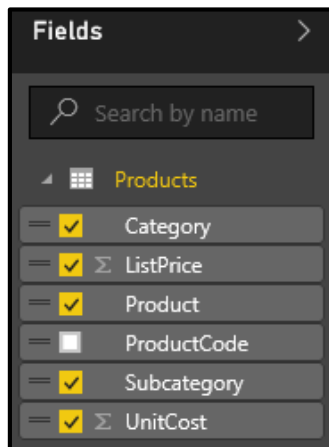
The right side of the page shows the 'Visualizations' and 'Fields' panes. The 'Visualizations' pane contains a list of visual types. The 'Fields' pane contains a list of fields, including 'Category', 'Product', 'Product Rank', and 'Sales Revenue'. The 'Filters' pane is also visible, showing filters for 'Product Rank' and 'Sales Revenue'.

Visuals (aka Visualizations)

- Reports are designed using visual (aka visualizations)
 - Each visual is based on an underlying visualization type
 - Visualization type can be changed using **Visualizations** pane

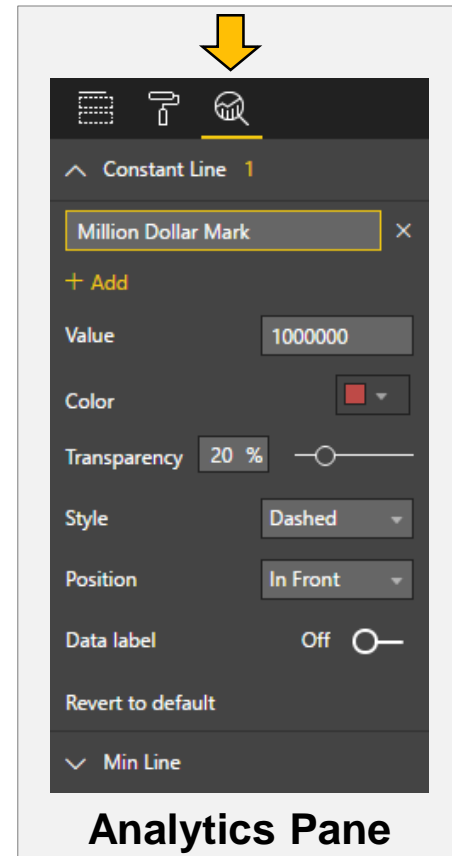
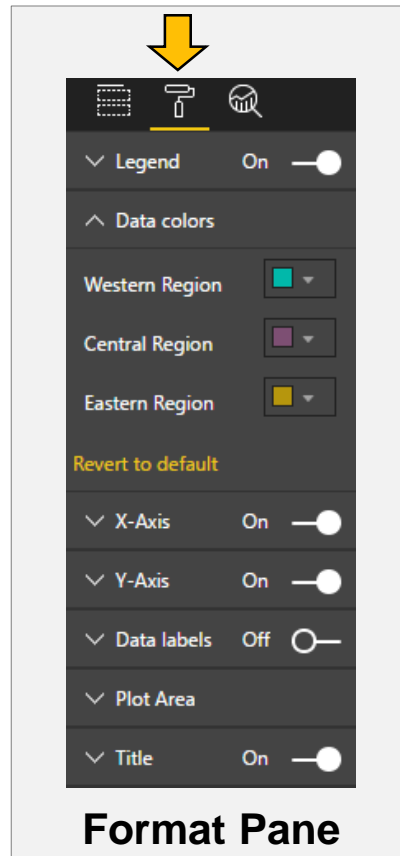
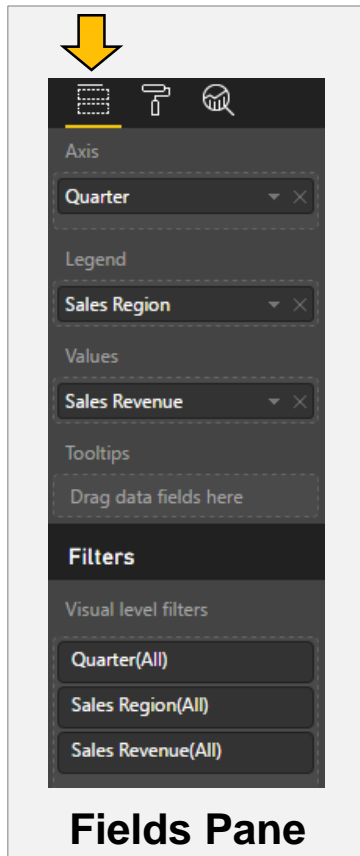


- Visuals creating by using fields from tables inside **Fields** list



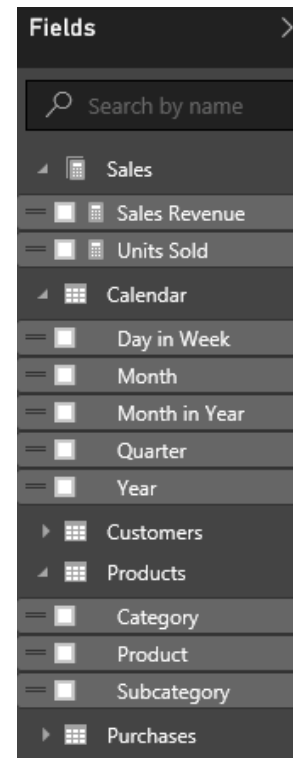
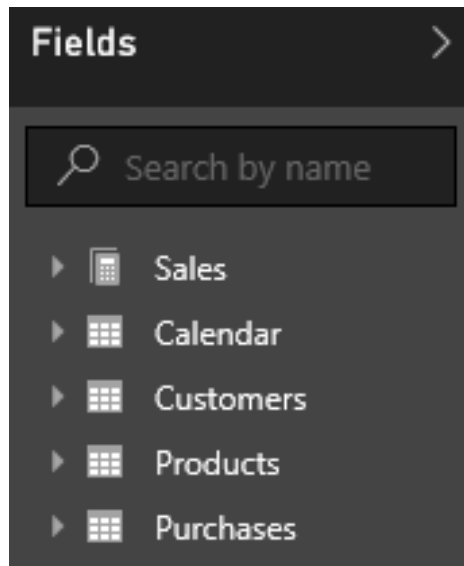
Editing Visual Properties

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



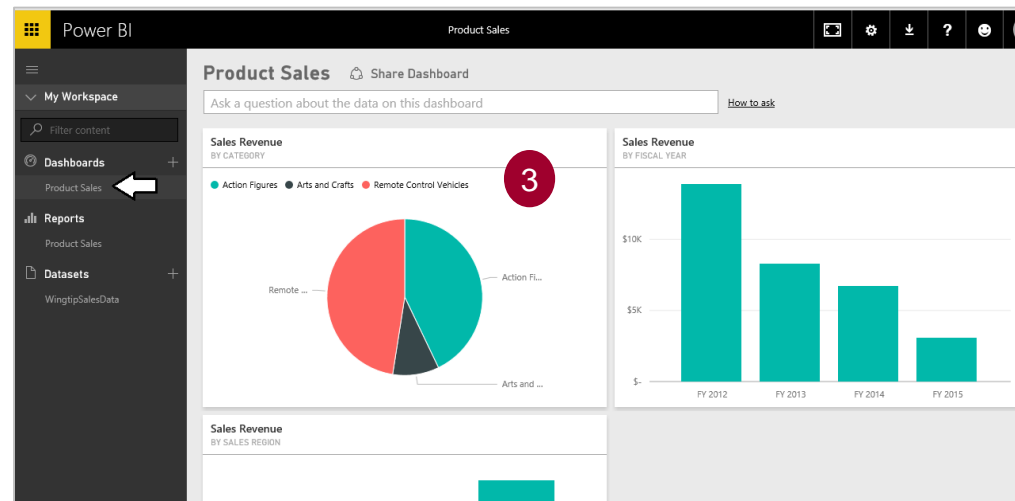
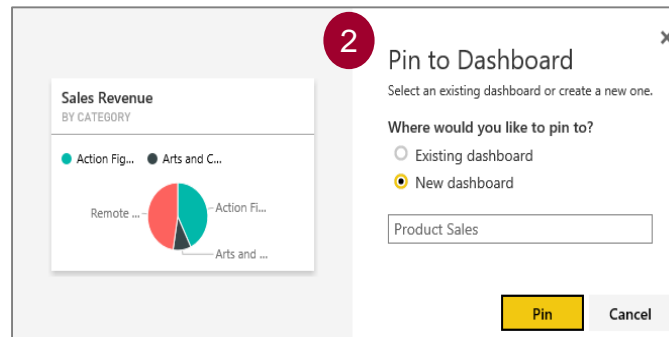
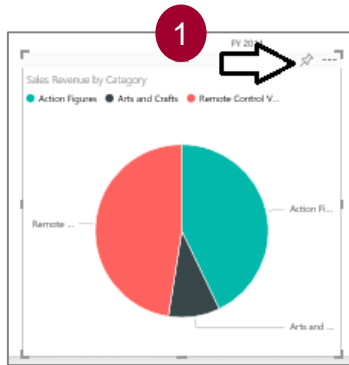
Report and Datasets

- 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

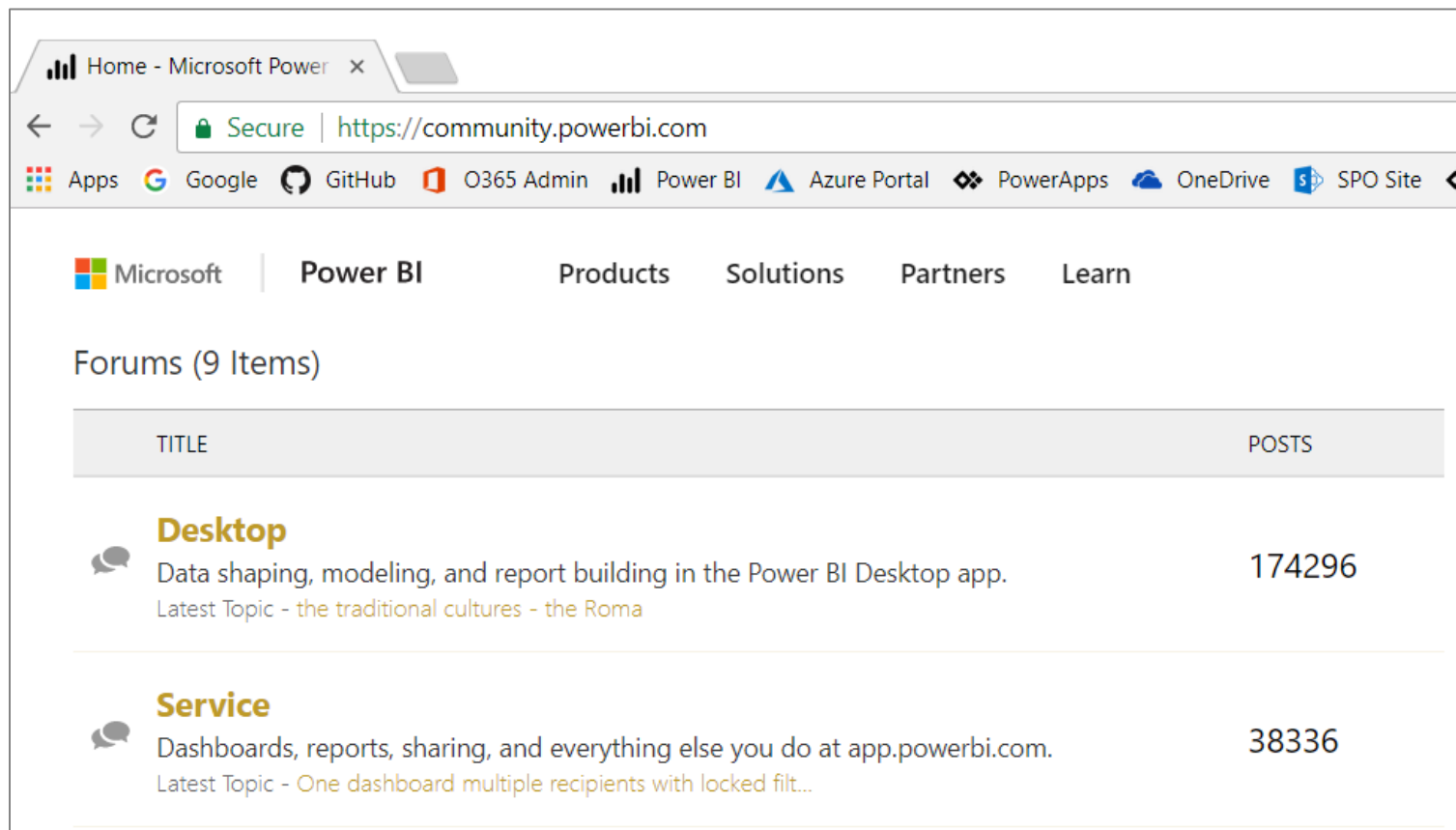
This month, on top of our normal of visual & data connector improvements, we have two exciting features that lets report consumers interact with reports in a new way. The Q&A Explorer enables report consumers to ask their own questions about the data, and buttons let you add interactive elements on your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

» Read more



Power BI Community Forums

- Located at <https://community.powerbi.com/>
 - Great place to get answers to tough questions



Home - Microsoft Power

Secure | <https://community.powerbi.com>

Apps Google GitHub O365 Admin Power BI Azure Portal PowerApps OneDrive SPO Site

Microsoft | Power BI Products Solutions Partners Learn

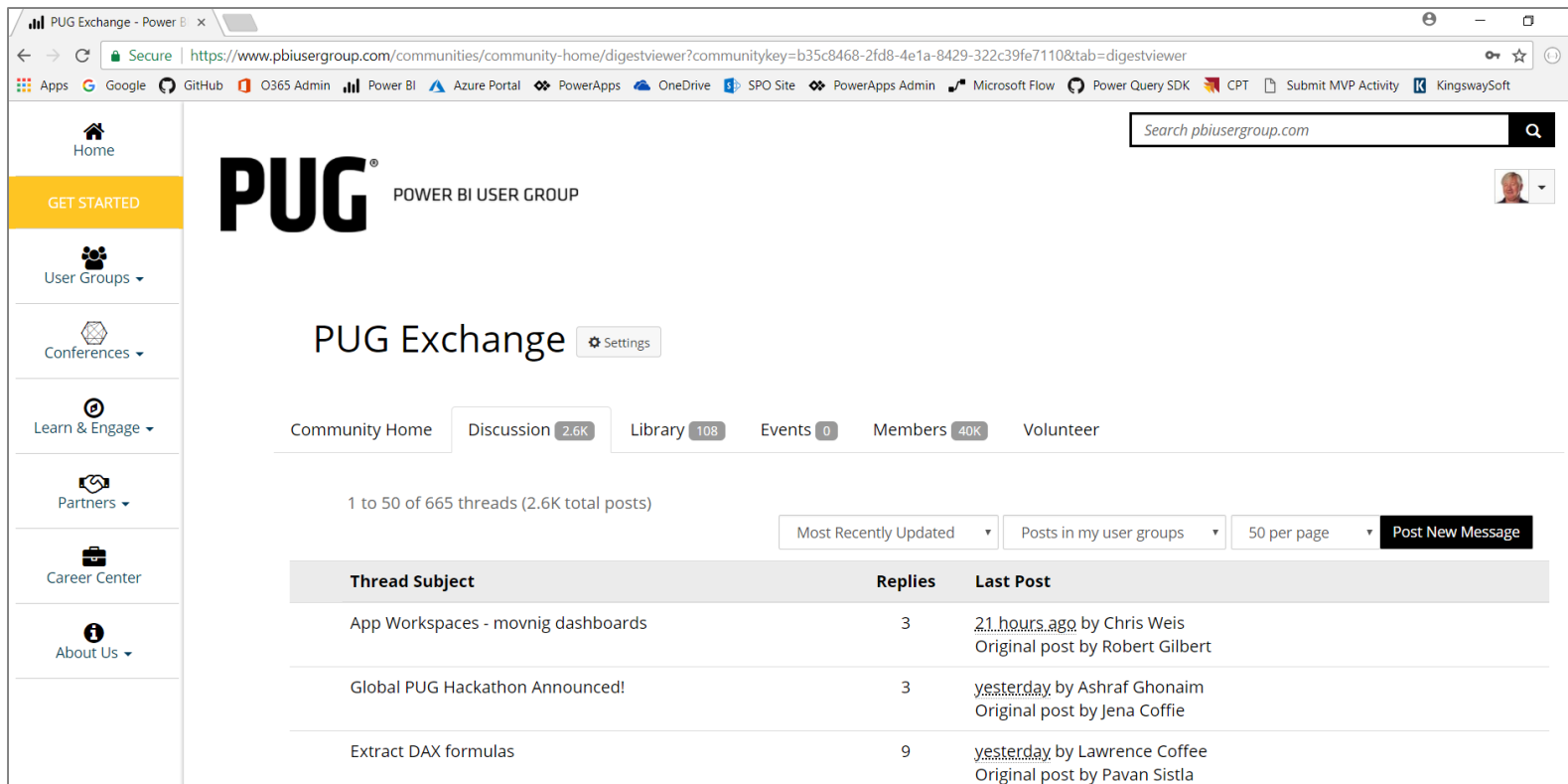
Forums (9 Items)

TITLE	POSTS
Desktop Data shaping, modeling, and report building in the Power BI Desktop app. Latest Topic - the traditional cultures - the Roma	174296
Service Dashboards, reports, sharing, and everything else you do at app.powerbi.com. Latest Topic - One dashboard multiple recipients with locked filt...	38336



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



The screenshot shows the PUG Exchange website interface. The left sidebar contains navigation links: Home, GET STARTED, User Groups, Conferences, Learn & Engage, Partners, Career Center, and About Us. The main header features the PUG logo and the text "POWER BI USER GROUP". Below the header, the "PUG Exchange" section includes a "Settings" button and a navigation bar with links to Community Home, Discussion (2.6K), Library (108), Events (0), Members (40K), and Volunteer. A search bar is located in the top right corner. The main content area displays a list of discussion threads, showing 1 to 50 of 665 threads (2.6K total posts). The threads are sorted by "Most Recently Updated" and show 50 posts per page. A "Post New Message" button is visible in the top right of the thread list.

Thread Subject	Replies	Last Post
App Workspaces - movnig dashboards	3	21 hours ago by Chris Weis Original post by Robert Gilbert
Global PUG Hackathon Announced!	3	yesterday by Ashraf Ghonaim Original post by Jena Coffie
Extract DAX formulas	9	yesterday by Lawrence Coffee Original post by Pavan Sistla



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

GitHub, Inc. [US] <https://github.com/CriticalPathTraining/GSPBI>

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CriticalPathTraining / GSPBI

Watch 4 Star 0 Fork 1

Code Issues 0 Pull requests 0 Projects 0 Insights

Student files for Getting Started with Power BI (GSPBI)

Branch: master New pull request Find file Clone or download

TedPattison Updates		Latest commit 208ff8c on May 21
Student	Updates	a month ago
Support	Updates	a month ago
.gitattributes	Updates	a month ago
LICENSE	Initial commit	a month ago
README.md	Updates	a month ago

GSPBI / Student / Modules /

- 01_IntroToPowerBI
- 02_PowerBIDesktop
- 03_Queries
- 04_DataModeling
- 05_Reports
- 06_Dashboards
- 07_Excel
- 08_AppWorkspaces



Summary

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