

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”



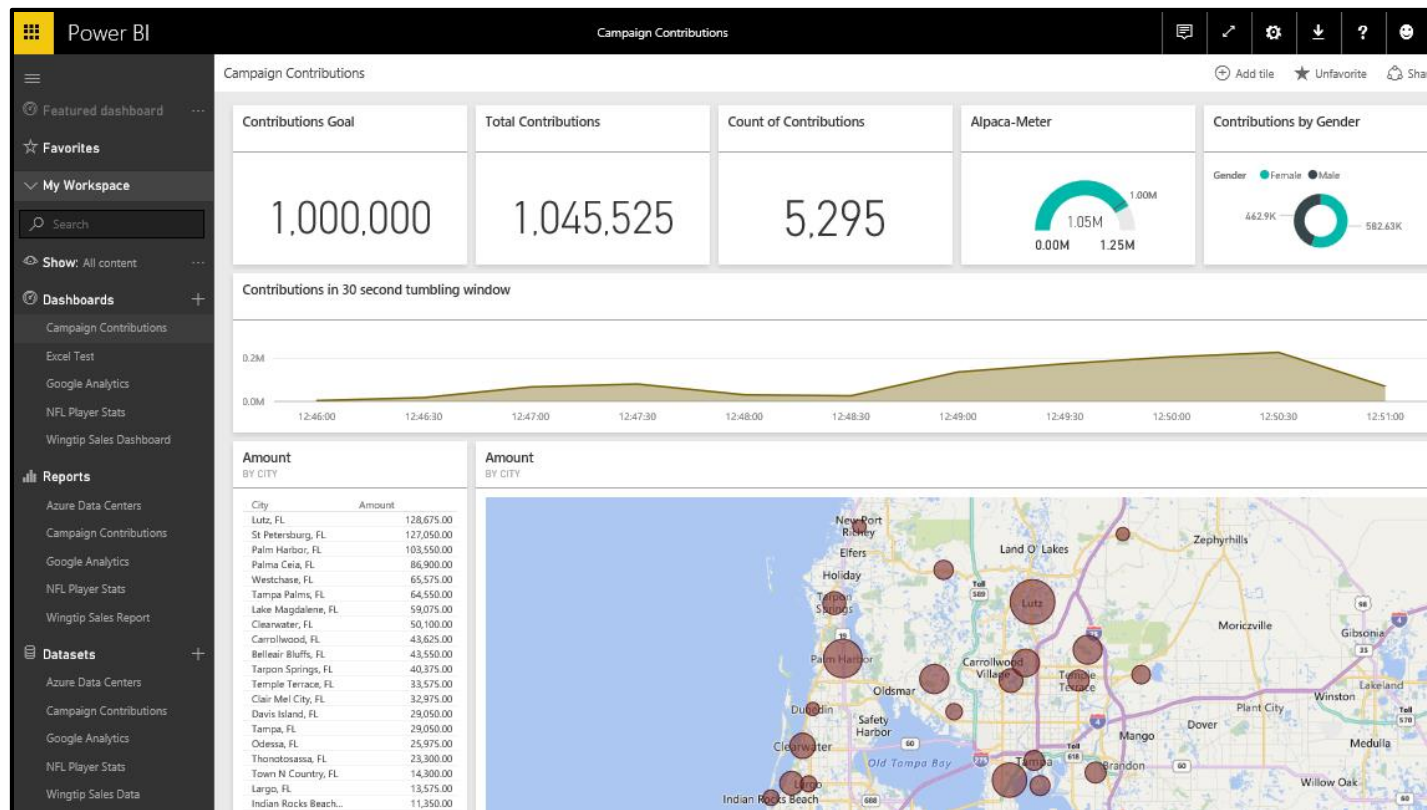
What is Power BI?

- 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>

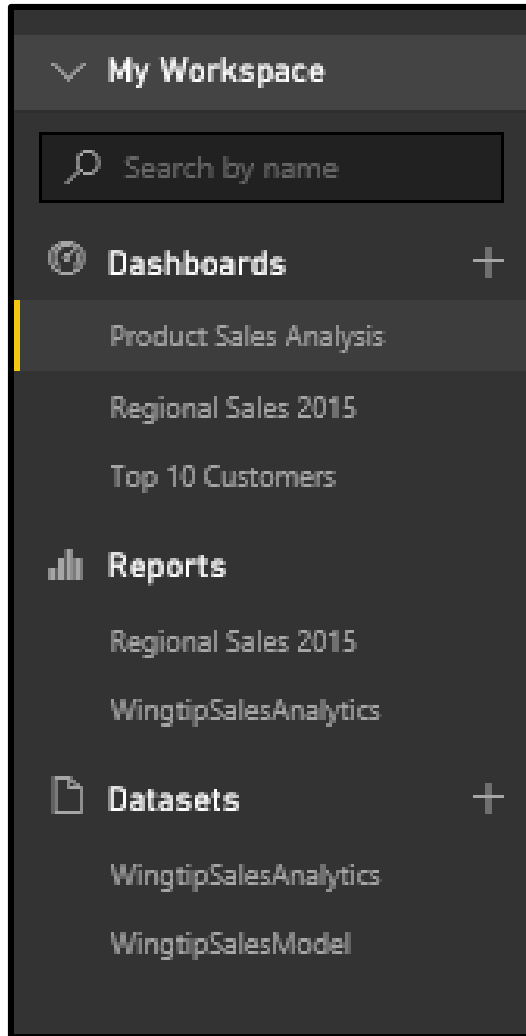


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Central Power BI Concepts

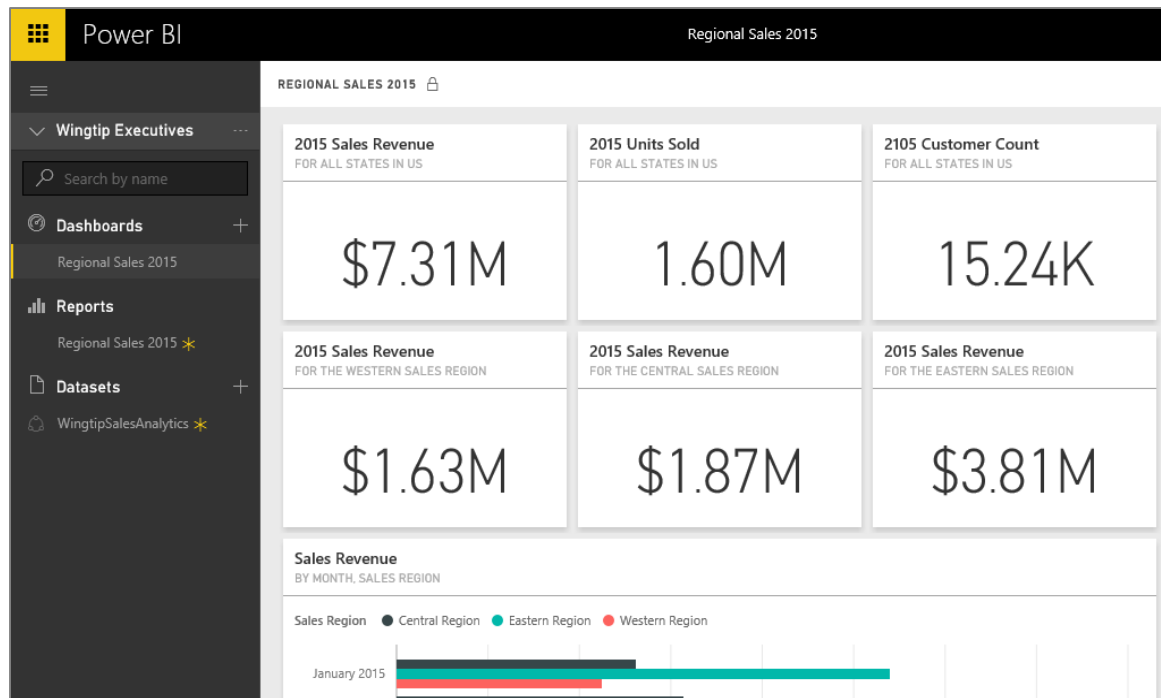


- **Workspace**
 - Provides user context and asset container
 - Every user has personal workspace
 - Team development requires group workspaces
- **Dashboard**
 - Consolidated view into reports and datasets
 - Custom solution entry point for mobile users
- **Report**
 - Collection of pages with tables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



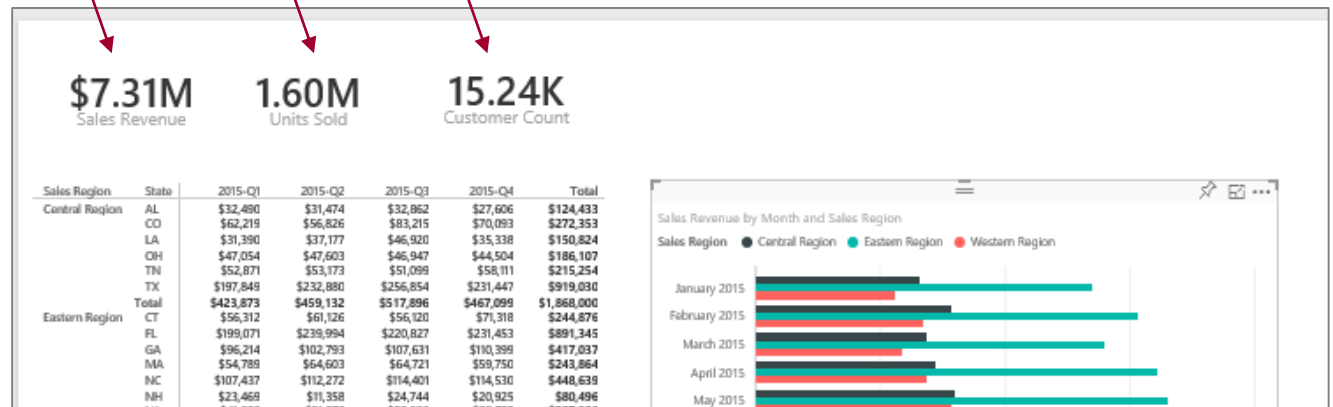
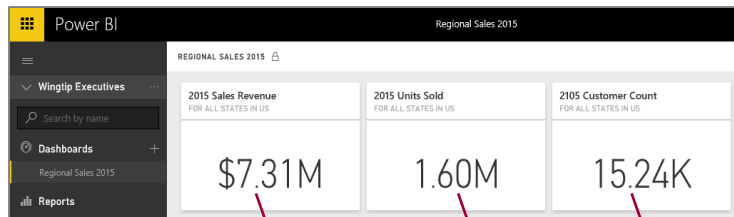
Dashboards and Tiles

- 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

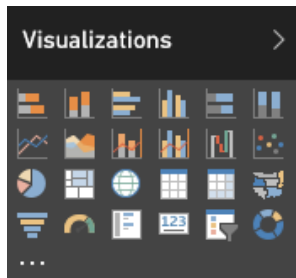
The screenshot shows the Power BI report authoring interface in edit mode. The main area displays a table of product sales data. On the left, there are filters for 'Year' and 'Category'. On the right, there are panels for 'Visualizations' and 'Fields'.

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

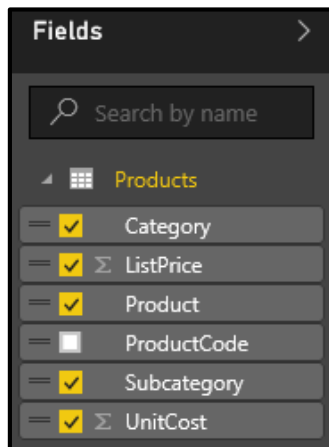
The 'Visualizations' panel on the right shows a list of visual types. The 'Fields' panel shows a list of fields, including 'Category', 'Product', 'Product Rank', and 'Sales Revenue'. The 'Filters' panel shows a list of filters, including 'Product Rank is less than or equal to 5' and 'Sales Revenue(All)'.

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

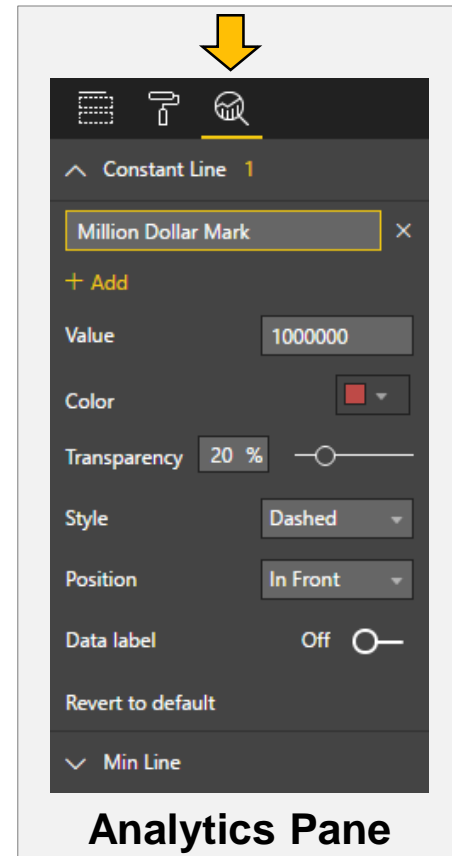
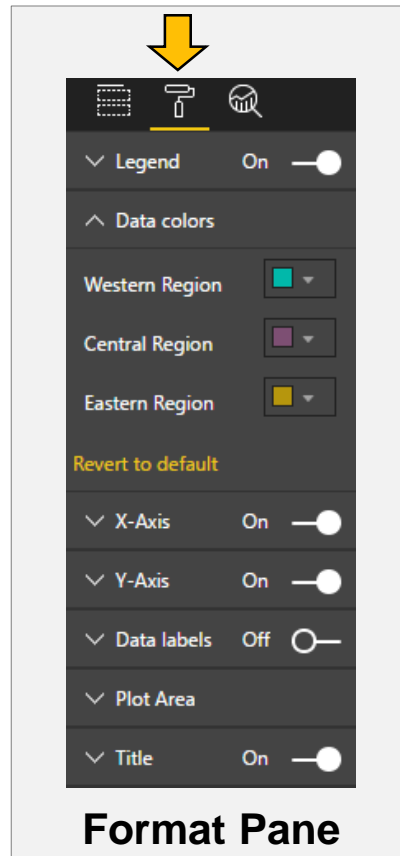
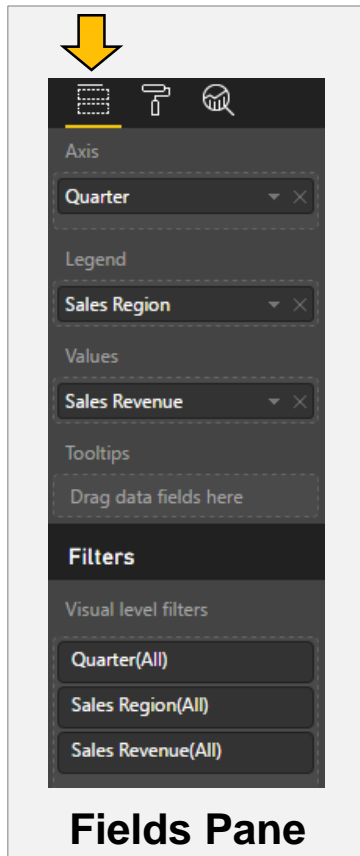


- Visuals created by using fields from tables inside **Fields** list



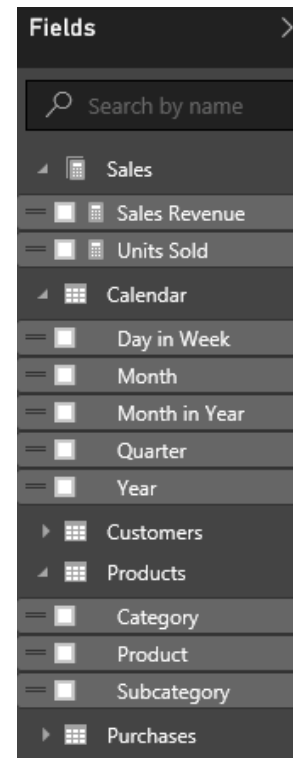
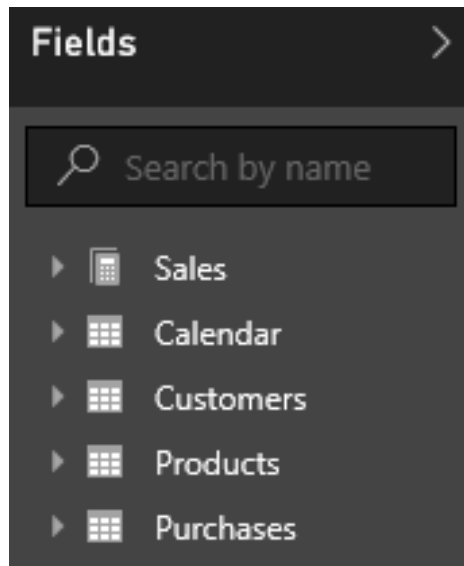
Editing Visual Properties

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



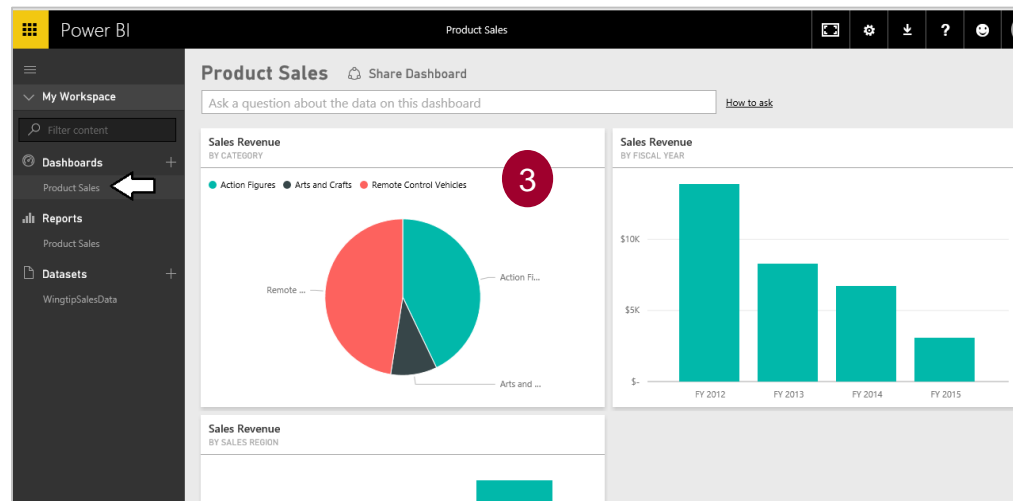
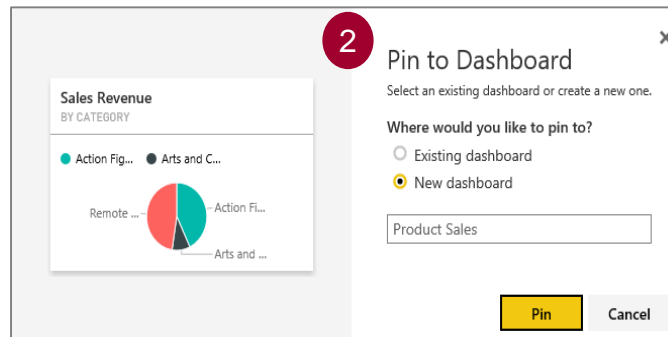
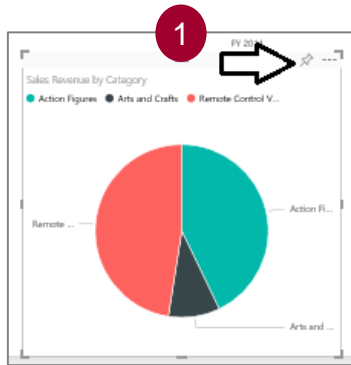
Report and Datasets

- 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

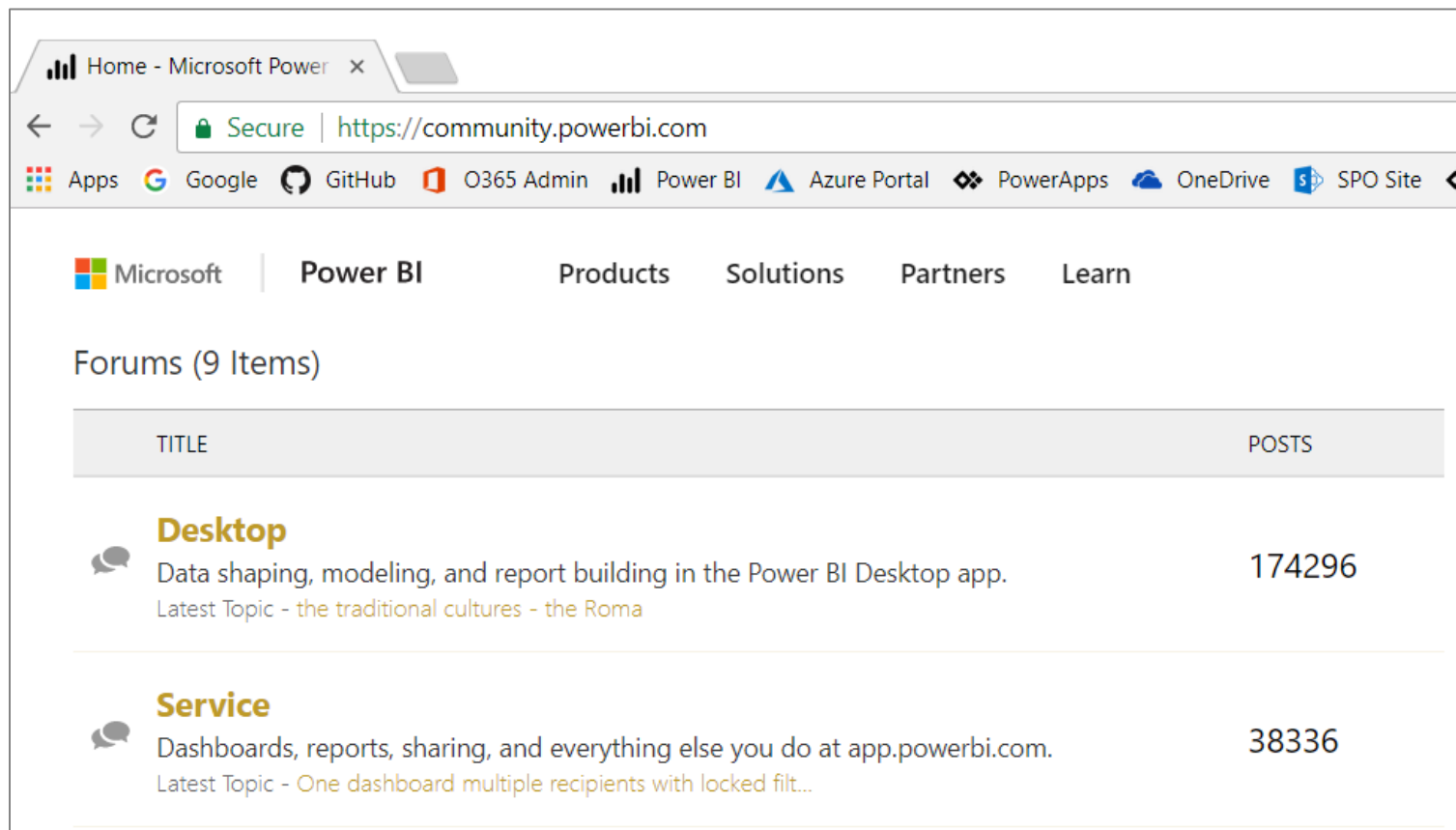
This month, on top of our normal of visual & data connector improvements, we have two exciting features that lets report consumers interact with reports in a new way. The Q&A Explorer enables report consumers to ask their own questions about the data, and buttons let you add interactive elements on your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

» Read more



Power BI Community Forums

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



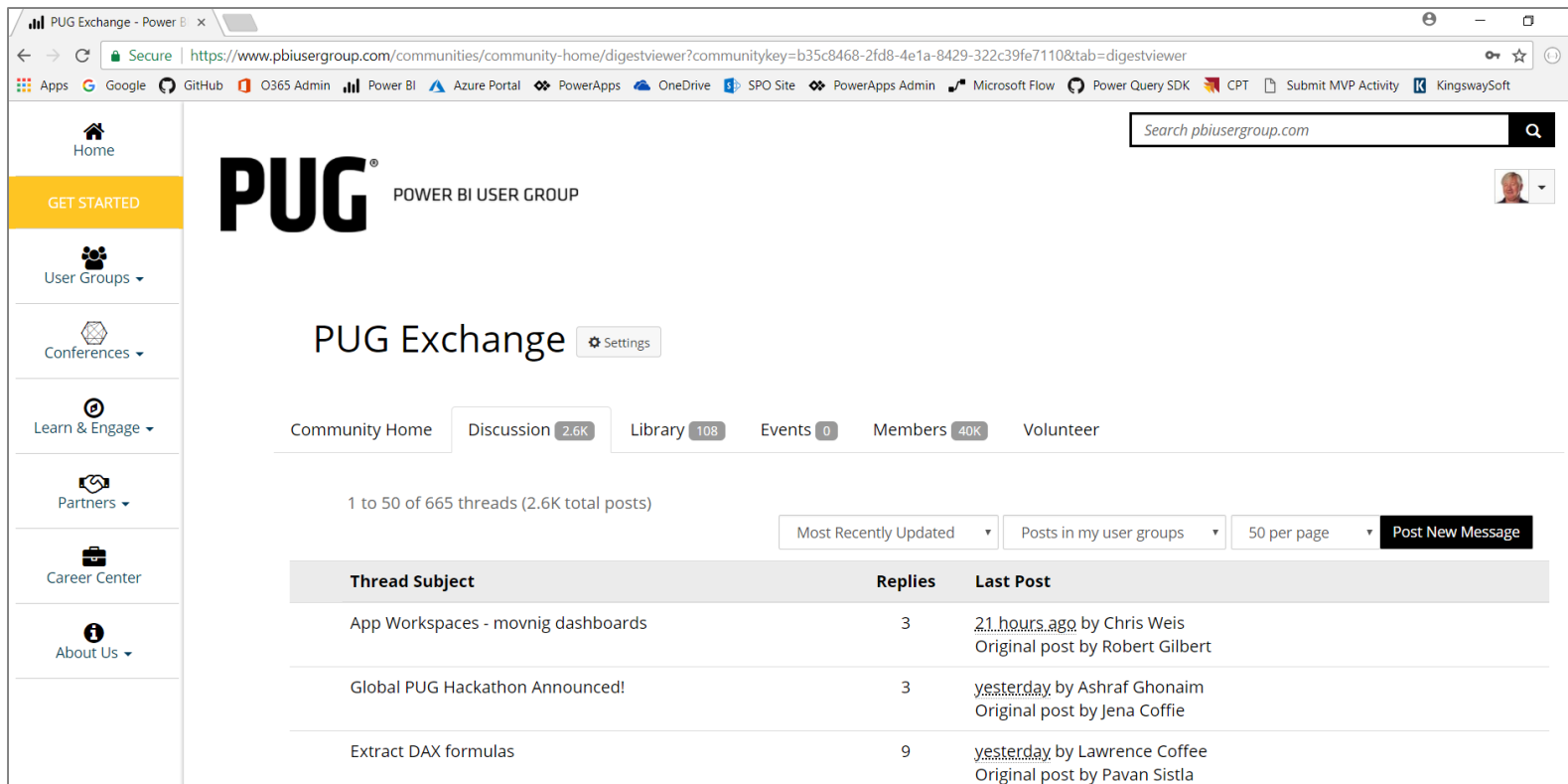
The screenshot shows a web browser window with the URL <https://community.powerbi.com/>. The page features a navigation bar with the Microsoft logo, "Power BI", and links to "Products", "Solutions", "Partners", and "Learn". Below the navigation bar, the text "Forums (9 Items)" is displayed. A table lists the forum categories:

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://pbusergroup.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. 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

Ted Pattison 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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