Getting Data in Power BI

Content Packs and Direct Query

Theresa Palmer

Agenda

- Get Data
- Content packs
  - Overview
  - Future Improvements
  - Demo
- Direct query
  - Overview
  - Future Improvements
  - Demo
- Summary

Get Data

Need more guidance? Try this tutorial

Content Pack Library

My Organization

Browse content packs that other people in your organization have published.

Get

Services

Choose content packs from online services that you use.

Get

Import or Connect to Data

Files

Bring in your reports, workbooks, or data from Excel, Power BI Desktop or CSV files.

Get

Databases

Connect to live data in Azure SQL Database and more.

Get

Samples

Get Data

First experience when a user connects to Power BI

Users can import data in a variety of ways

Content Packs allows users to easily connect without modelling

Direct query allows users to send dynamic queries

What is a Content Pack

A content pack is a set of out-of-box content, allowing users to immediately gain insights into data from a specific source(s)

A content pack includes the following components:

- Dashboard
- Report
- Data model
- Optimization for natural language query

What is a Content Pack

Provides instant insights for a role, domain, or workflow of your service

- Adds monitoring, analytics, exploration, and sharing of insights
- Visible to any user of Power BI
- Offers reporting in addition to what’s offered by the service
- Enforces authentication/authorization to the service’s data

SaaS Content Packs

Power BI

My Workspace

Content Pack Library

My Organization

Services

Samples

Import or Connect to Data

Files

Databases & More

Add Your Content

Find a Partner

Submit an Idea

Get Data > Services

Acumatica

Adobe Analytics

appFigures

Azure Mobile Engagement

Circuit ID

GitHub

Google Analytics

MailChimp

Mandrill

Marketo

Microsoft Dynamics CRM

Microsoft Dynamics Marketing

QuickBooks Online

Salesforce

SendGrid

SQL Database Auditing

SQL Sentry

SweetIQ

Twilio

UserVoice

Visual Studio Online

Power BI

My Workspace

Content Pack Library

My Organization

Services

Samples

Import or Connect to Data

Files

Databases & More

Add Your Content

Find a Partner

Submit an Idea

Get Data > Services > GitHub

Acumatica

Adobe Analytics

appFigures

Azure Mobile Engagement

Circuit ID

GitHub

Google Analytics

GitHub

Visualize different types of repository activity in Power BI by connecting to your GitHub data. With the GitHub content pack, you get a Power BI dashboard and reports with insights about how many commits, who contributes most, and at what time of day. Use the dashboard and reports as provided, or customize them to highlight the information you care about most.

The data in Power BI is updated daily from GitHub according to a schedule that you control.

Connect

Learn More

MailChimp

Mandrill

Marketo

Microsoft Dynamics CRM

Microsoft Dynamics Marketing

QuickBooks Online

Salesforce

Power BI

My Workspace

Get Data > Services > GitHub

Content Pack Library

My Organization

Services

Samples

Import or Connect to Data

Files

Databases & More

Add Your Content

Find a Partner

Submit an Idea

Acumatica

Adobe Analytics

GitHub

Google Analytics

MailChimp

Mandrill

QuickBooks Online

Salesforce

SendGrid

SQL Database Auditing

SQL Sentry

SweetIQ

Twilio

UserVoice

Visual Studio Online

Connect to GitHub

To start using your GitHub data in Power BI, follow the prompts below.

Need help connecting? Learn More

Repository Owner
Owner or organization of the GitHub repository

Microsoft

Repository
GitHub repository name

dotnet

Next

Cancel

Power BI

My Workspace

Get Data > Services > GitHub

Content Pack Library

My Organization

Services

Samples

Import or Connect to Data

Files

Databases & More

Add Your Content

Find a Partner

Submit an Idea

Acumatica

Acumatica

Ad

GitHub

Google Analytics

MailChimp

Ma

QuickBooks Online

Salesforce

SendGrid

SQL Database Auditing

SQL Sentry

SweetIQ

Twilio

UserVoice

Visual Studio Online

Sign in · GitHub - Google Chrome

GitHub, Inc. [US] https://github.com/login?return_to=%2Flogin%2Foauth%2Fauthorize%3Fclient_id%3D1dc3693fc0e3e8839dee%26redire

GitHub Search GitHub Explore Features Enterprise Pricing Sign up Sign in

Sign in

Username or Email

Password (forgot password)

Sign in

© 2015 GitHub, Inc. Terms Privacy Security Contact Help

Status API Training Shop Blog About Pricing

Power BI

GitHub

GitHub

Share Dashboard

Ask a question about the data on this dashboard

My Workspace

github

Dashboards

GitHub

Reports

GitHub

Datasets

GitHub

Commits this week

3

Commits this month

189

Commits this year

1,942

Total commits YoY%

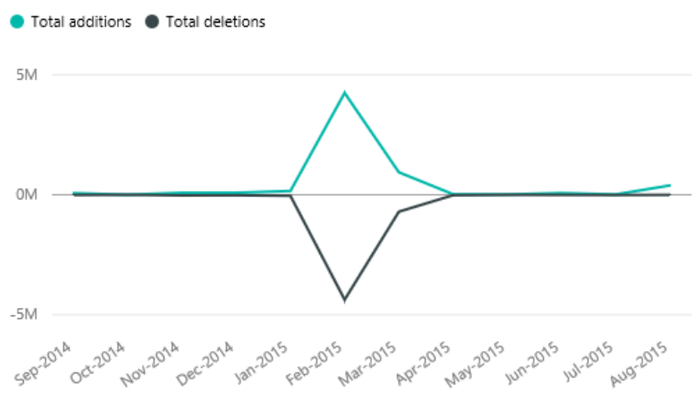
LAST 12 MONTH WINDOW

369.08 %

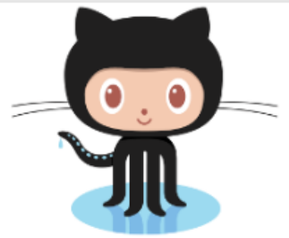
Total users

157

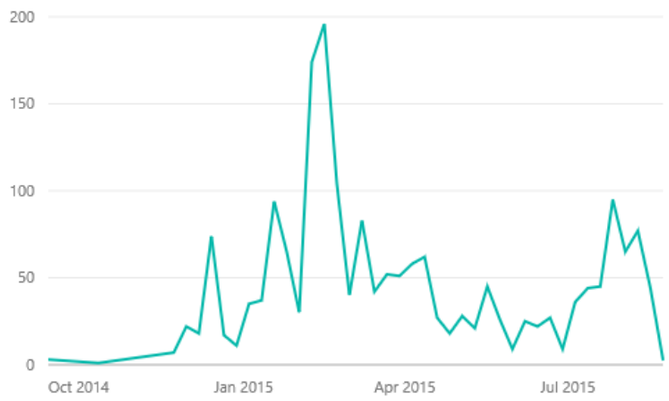
Additions and deletions by month



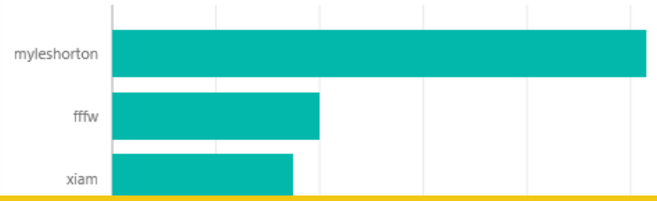
Committers with >2.5% of total



Commits trend



Top 5 users by pull requests last 12 months



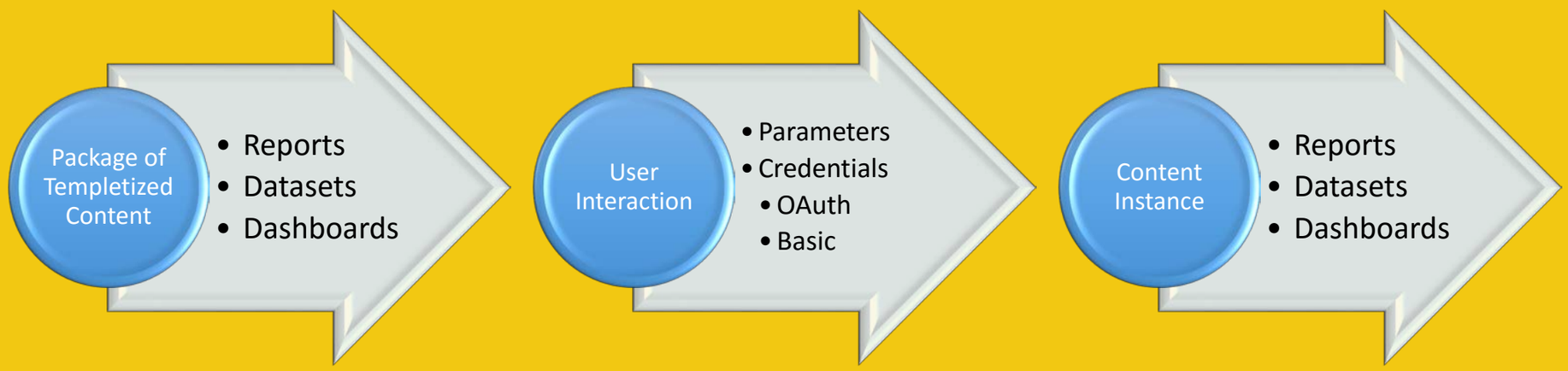
Count of distinct committers by month

Total open issues

351

Issues closed this month

SaaS Content Pack Flow



Content pack improvements

Open ecosystem to other partners

Allow custom schemas, connections…

And more!

https://support.powerbi.com

Content pack demo

Direct query connectors

What is direct query

Creates a connection to the source

Detects the schema while the connection is created

Queries are dynamically generated as a user creates visuals

No intermediate data model is required as a cache

Power BI

My Workspace

Content Pack Library

My Organization

Services

Samples

Import or Connect to Data

Files

Databases & More

Get Data > Databases & More

Azure SQL Database

Azure SQL Data Warehouse

SQL Server Analysis Services

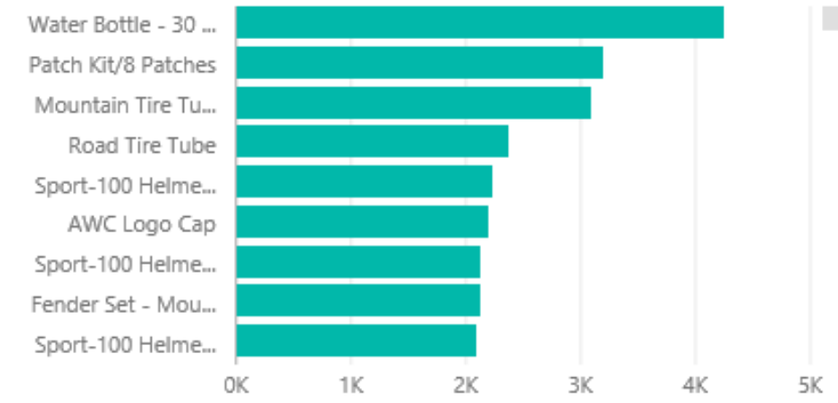
Spark on Azure HDInsight

Power BI

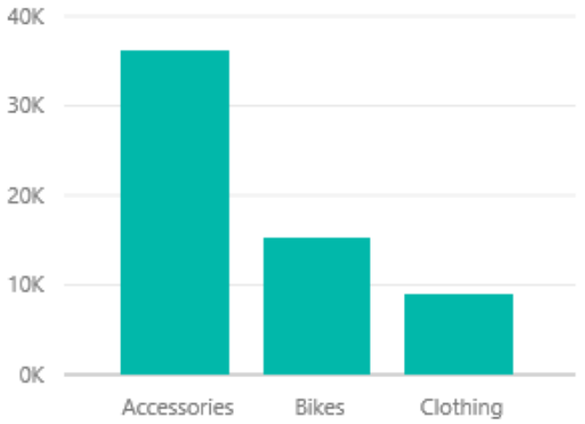
AdventureWorks

FILE SAVE READING VIEW Text Box VIEW

OrderQuantity by EnglishProductName

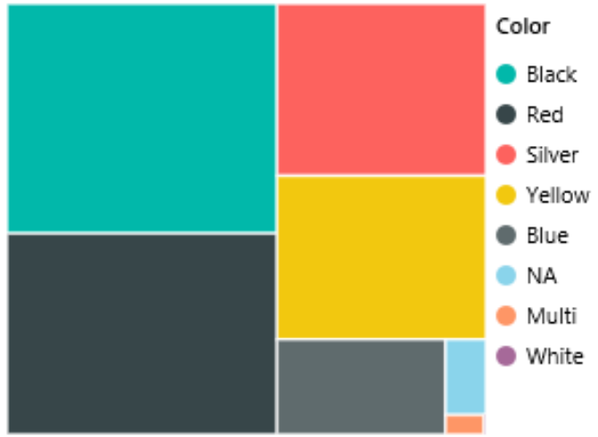


OrderQuantity by EnglishProductCategoryName



SalesAmount by SalesTerritoryCountry

SalesAmount by Color



Visualizations

Filters

Page Level Filters

Drag data fields here

Fields

- AdventureWorksD...
- database_firewall_r...
- DimAccount
- DimCurrency
- DimCustomer
- DimDate
- DimDepartmentGr...
- DimEmployee
- DimGeography
- DimOrganization
- DimProduct
- DimProductCatego...
- DimProductSubcat...
- DimPromotion
- DimReseller
- DimSalesReason
- DimSalesTerritory
- DimScenario
- FactCallCenter
- FactCurrencyRate
- FactFinance
- FactInternetSales
- FactInternetSalesR...
- FactResellerSales

Page 1

Power BI

AdventureWorks

My Workspace

adventure

Dashboards

AdventureWorks

Reports

AdventureWorks

Datasets

AdventureWorks2008

AdventureWorks

Share Dashboard

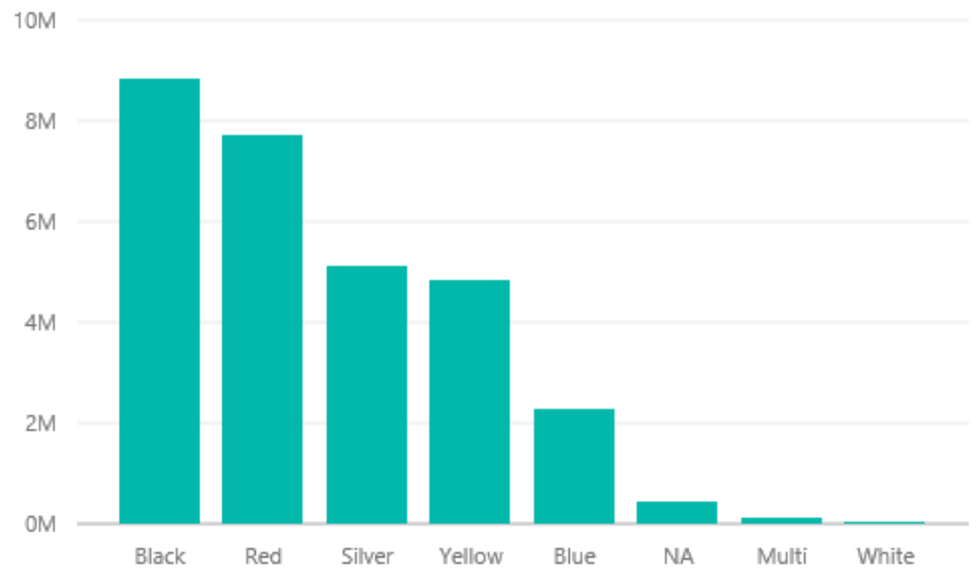
Azure SQL Database

Total Sales Amount

29.36M

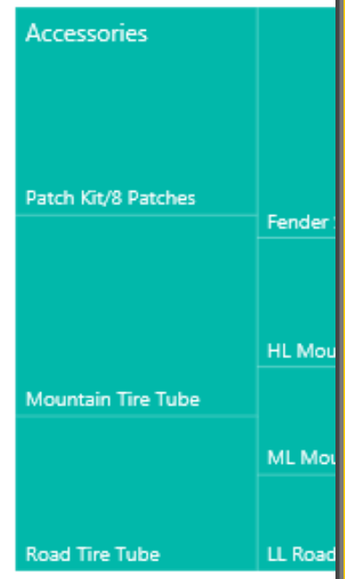
Sales Amount

BY COLOR



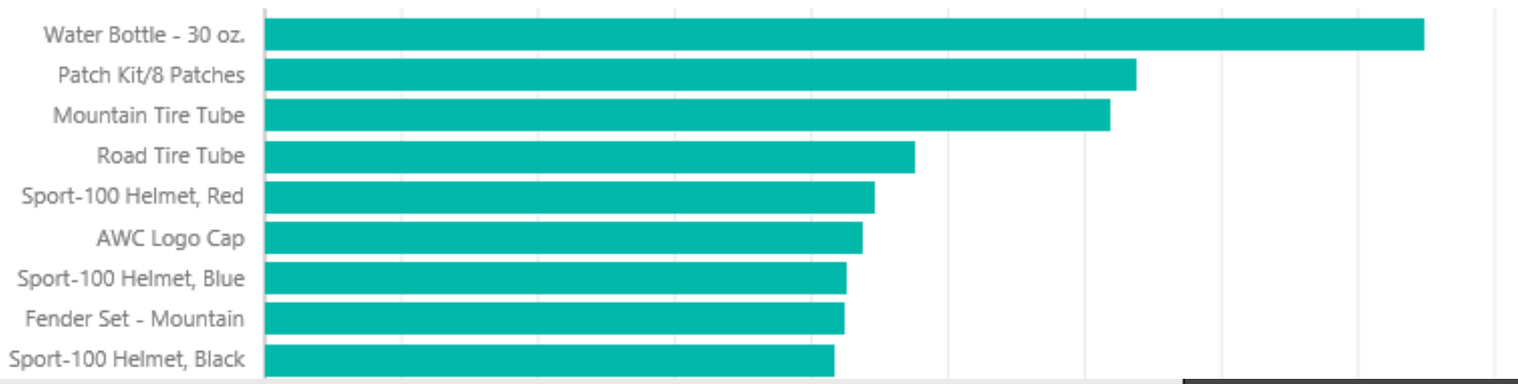
OrderQuantity

BY ENGLISHPRODUCTCATEGORY



Order Quantity

BY PRODUCT NAME



Order Quantity

60.4K

Sales Amount

BY SALES TERRITORY COUNTRY

Direct query improvements

Allow users to specify a query during connection

Detect and propagate schema updates

And more!

https://support.powerbi.com

Direct query demo

Summary

Many ways to Get Data into Power BI

Content packs and direct query – both make it easy to get quick and meaningful insight into your data

Many improvements coming in both features

Questions? Feedback?

We're always interested in hearing your feedback – please contact us at http://support.powerbi.com to let the team know how your experience was and if there's anything we can do better. We look forward to your feedback!

Try Power BI

Follow @MSPowerBI on Twitter

Visit the Power BI Community

Thank you!