

Angela Henry



# What is Power BI?

# Angela Henry

Angela is a DBA/BI Developer, living in High Point, NC and loves what she does. She's worked with all versions of SQL Server & worn all the hats that come with dealing with SQL Server throughout the years: developer, administrator, data architect and BI developer.

MSCE - Business Intelligence

Data Platform MVP

She is also the local group leader for the PASS Triad SQL User Group in Greensboro, NC.

Tweets at @SQLSwimmer

Blogs at [SQLSwimmer.wordpress.com](https://SQLSwimmer.wordpress.com)

In her spare time you can probably find her in or at the pool, she's an avid US Masters & USA Swimmer, Coach and Instructor.





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# Overview

## The What/Who/Why/Flavors

What is Power BI

Why use Power BI

Who can use Power BI

Flavors of Power BI

## How of Power BI

Dashboards

Reports

Datasets

Gateway

## Premium Details



# What is Power BI?

**Power BI** is an amazing business analytics service that enables anyone to visualize and analyze data.

**Power BI** is a collection of software services, apps, and connectors that work together to turn your unrelated sources of data into coherent, visually immersive, and interactive insights.

## Flavors of Power BI

- Power BI Free

- Power BI Pro

- Power BI Premium



# Who Can Use Power BI?

Subscription Based on Email Address

Allowed

School

Work

Not allowed

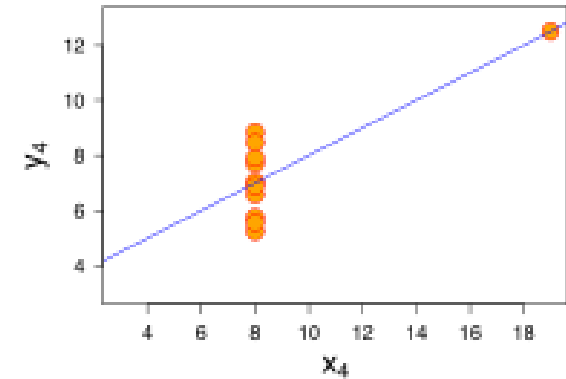
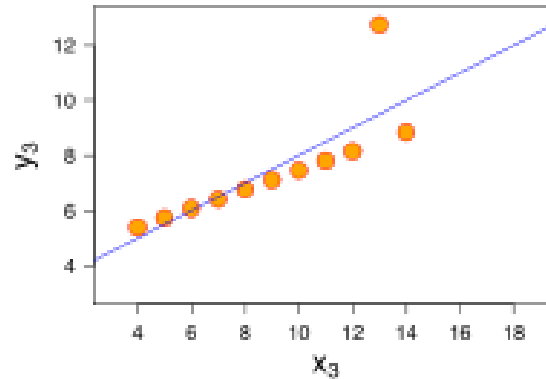
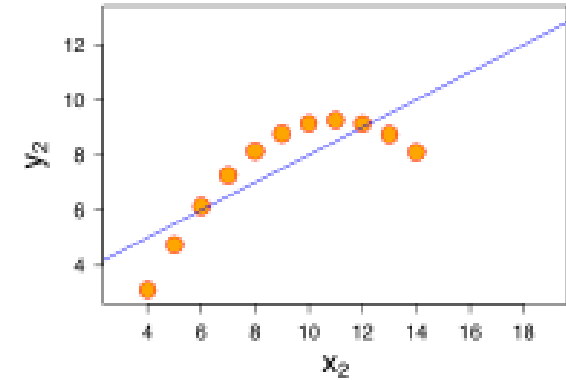
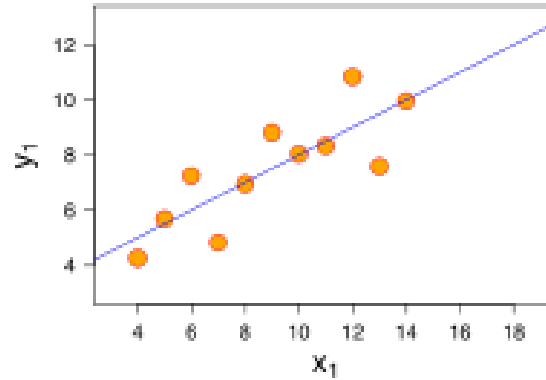
Personal

Government/military

Telecom/ISP



# Why Power BI?



Visualize, Visualize, Visualize!!

You want something quick and EZ

You don't have a full time report writer at your company

To ensure all colleagues are on the same page, viewing and using the same information



# Flavors of Power BI

## Free

Limited Collaboration

Streaming Data 1M rows/Hour

Access is limited to just you\*

Cost: Free

## Pro

Collaboration with App Workspaces, Office 365 Groups

Streaming Data Unlimited

Manage access & sharing via AD

Cost: \$9.99 USD/month/user





## Free vs Pro comparison

Here is a list of features supported by user type.

	Free	Pro
<b>Connect to 70+ data sources</b>	✓	✓
<b>Publish to Web</b>	✓	✓
<b>Peer-to-peer sharing</b>	✗	✓
<b>Export to PowerPoint, Excel, CSV</b>	✓	✓
<b>Enterprise distribution</b>		
Apps	✗	✓
Email subscriptions	✗	✓
Embed APIs and controls	✗	✓
<b>Collaboration</b>		
App workspaces	✗	✓
Analyze in Excel, analyze in Power BI Desktop	✗	✓

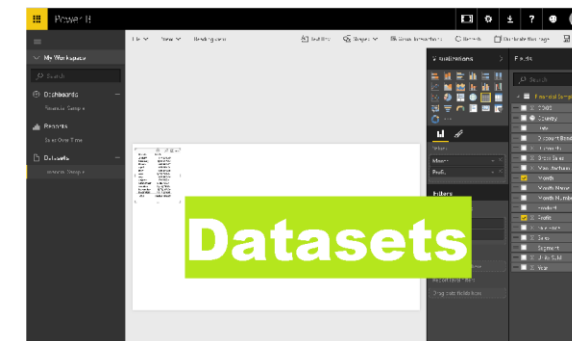
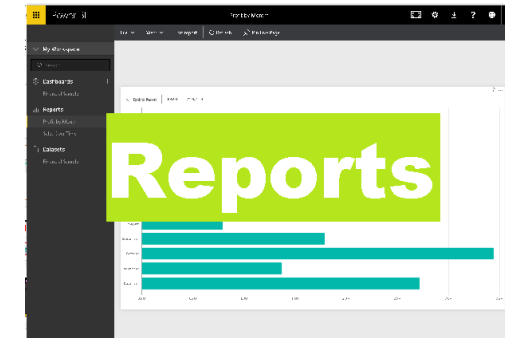
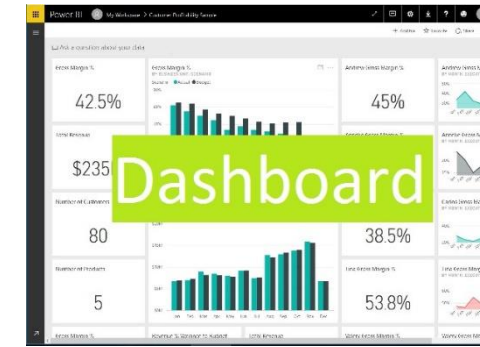


# Building Blocks of Power BI

Dashboards

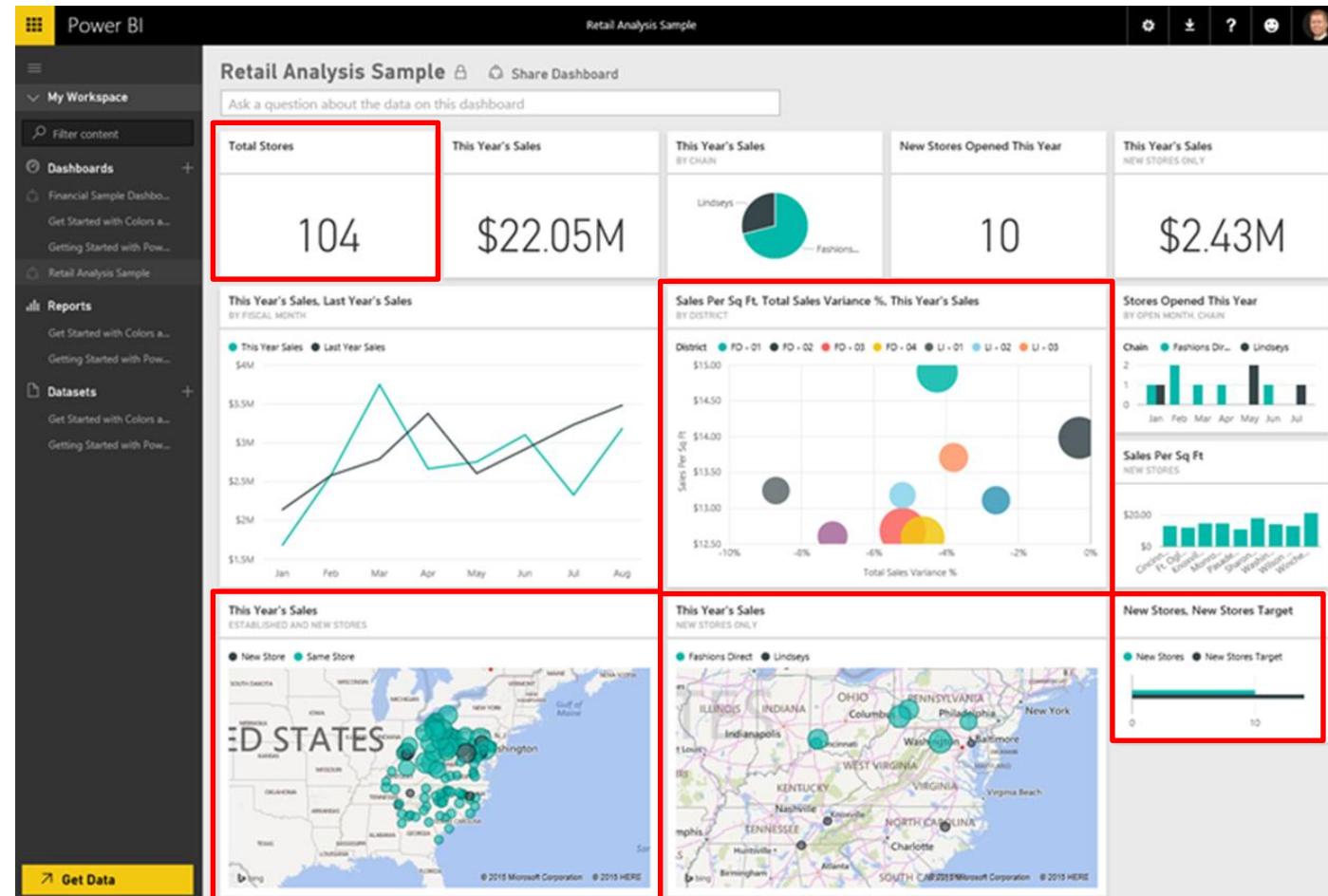
Reports

Datasets



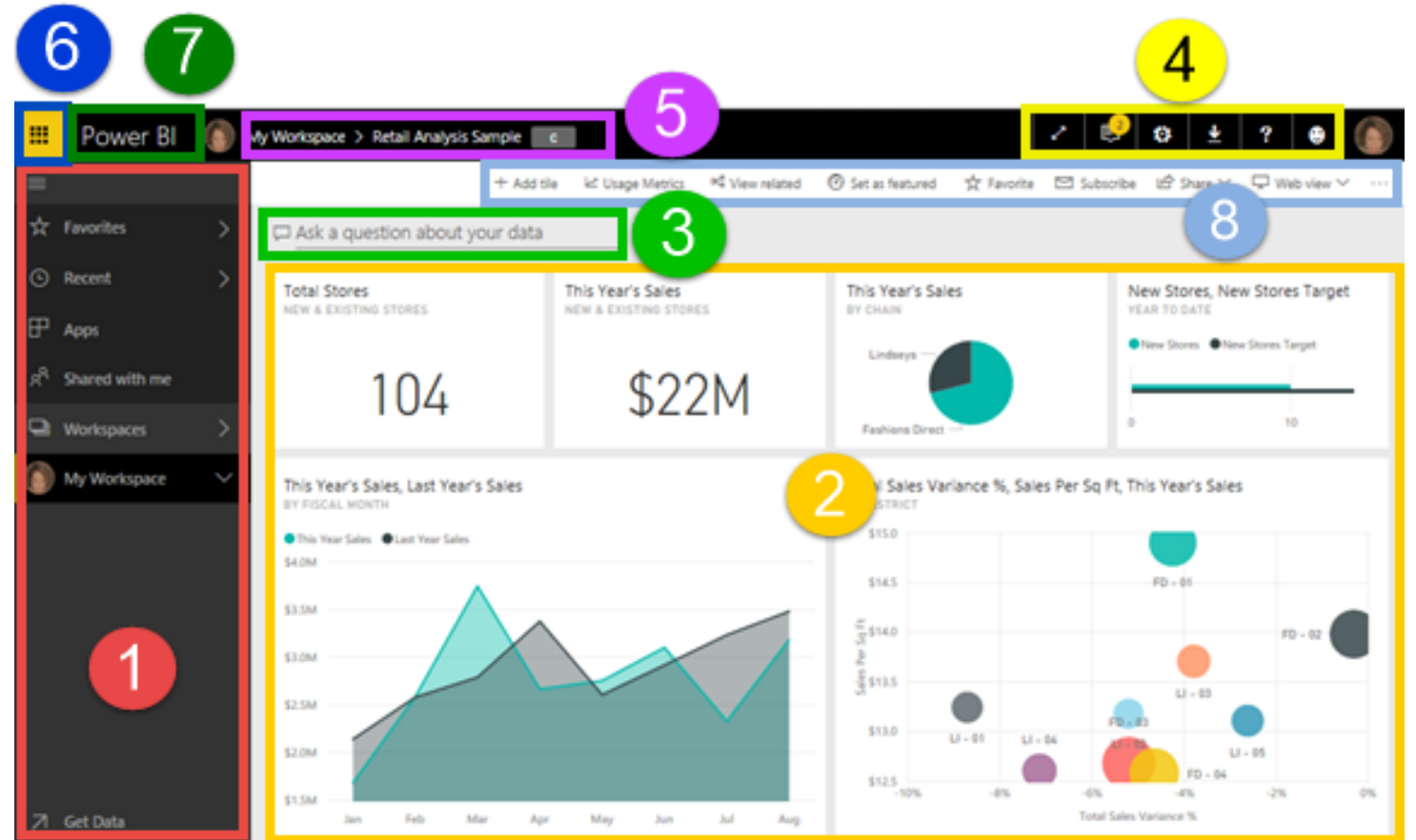
# Dashboards

## Tiles



# Dashboard Parts

1. Navigation bar
2. Canvas
3. Q&A question box
4. Help/Feedback buttons
5. Dashboard Title
6. Office 365 Launcher
7. Power BI Home
8. Additional Dashboard Actions



\*Graphic based on MS Power BI site





Demo

# Reports

Create from scratch within Power BI service

Create from scratch in Power BI Desktop

Import from shared dashboards

Created for you when you connect to datasets from Excel, Power BI Desktop, databases, and SaaS applications and content packs

Can be associated with more than one dashboard



# Datasets

## Import

### Files

Local

OneDrive

SharePoint – Team Sites

## Connect

### Services

WebTrends

SalesForce

Google Analytics

### Databases

Azure SQL Database

Azure SQL Data Warehouse

SQL Server Analysis Services  
(Tabular & Multidimensional)

### Apps

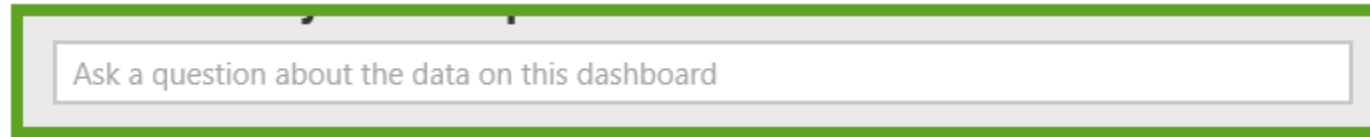




# Demos



# Q & A Question Box



Allows you to ask questions about your data in natural language

Comes with common synonyms and phrasings

- Aggregations (less than, maximum, number of, ...)

- Date keywords and ranges (last month, this year, before, after,...)

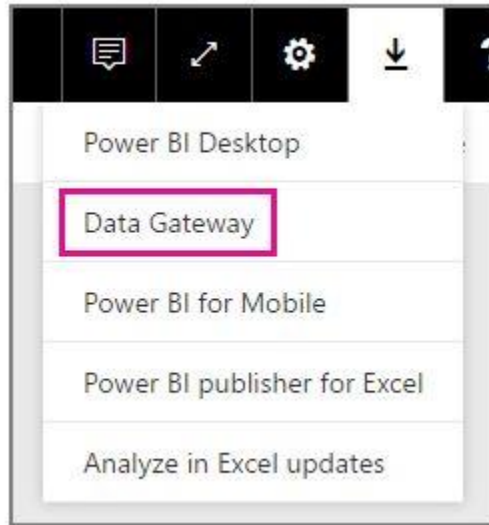
- Plurals (opportunity & opportunities)

- Display verbs (show, is, what is, are, what are)

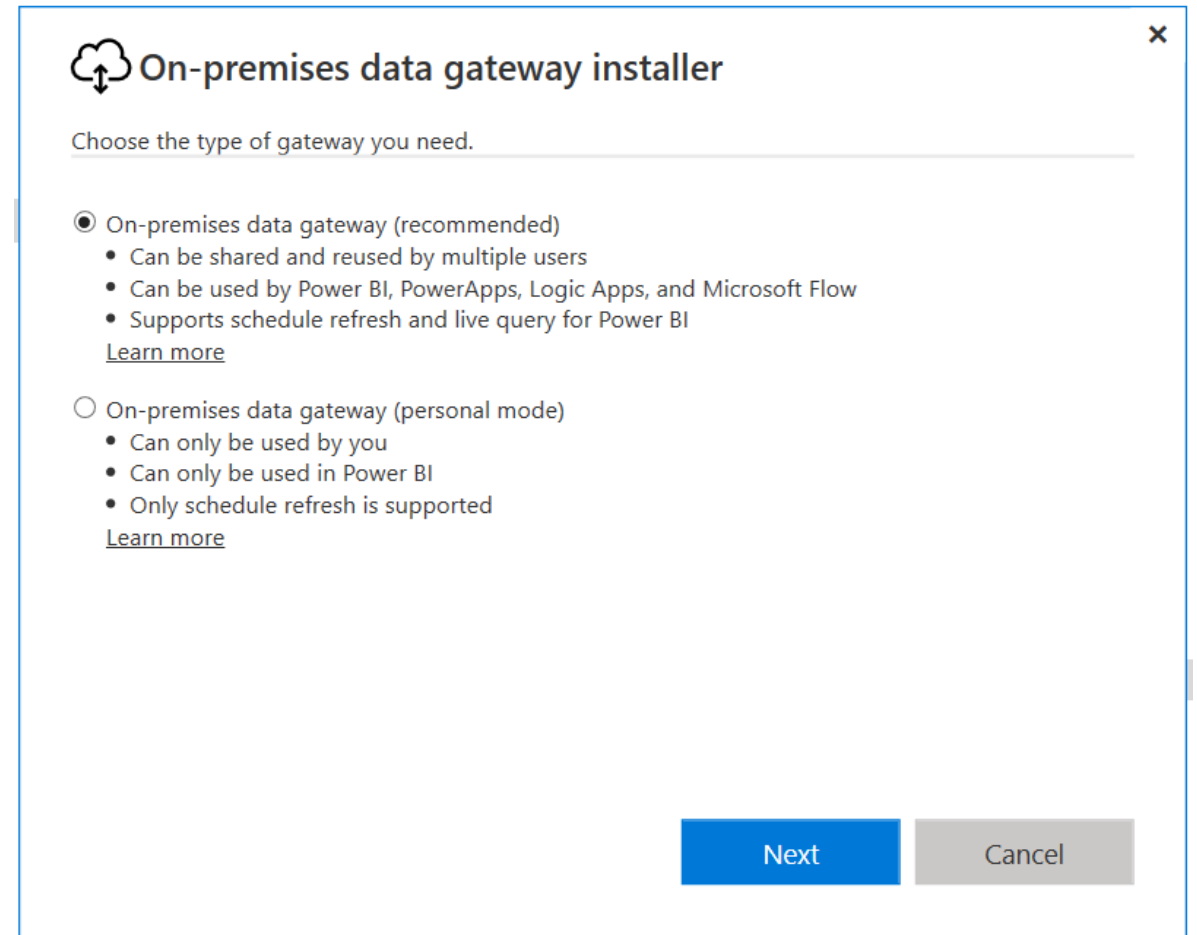
Create your own synonyms and phrasings



# Gateway for On-Premises Data



On-Premises data gateway  
(Enterprise)  
Personal Mode



# On-premises data gateway

One gateway for multiple cloud services and experiences

Cloud services



Gateway Cloud Service  
Data source connection credentials are encrypted



Azure Service Bus



Application Gateway  
Data source connection credentials can only be decrypted by the gateway

On-premises data sources



SQL Server



SQL Server Analysis Services



Other data sources



Files, SharePoint



# Power BI Premium

Dedicated Capacity in the Cloud

Scale up/out and down/in as needed

Power BI Report Server (On-Premises)

Report Creators Need Pro

Consumers/Viewers Do NOT Need a Pro license

Calculator to compute costs

<https://powerbi.microsoft.com/en-us/calculator/>



# Resources

<https://powerbi.microsoft.com/en-us/>

<https://docs.microsoft.com/en-us/power-bi/service-get-started>

<https://docs.microsoft.com/en-us/power-bi/videos>

<https://docs.microsoft.com/en-us/power-bi/webinars>

[http://www.sqlchick.com/s/PowerBIEndToEndFeatures\\_MelissaCoates.pdf](http://www.sqlchick.com/s/PowerBIEndToEndFeatures_MelissaCoates.pdf)

<https://docs.microsoft.com/en-us/power-bi/service-gateway-onprem>

<https://docs.microsoft.com/en-us/power-bi/guided-learning/>



# More Information

[Power BI Blog](#)

[Melissa Coates Blog](#)

[Reza Rad Blog](#)

[Chris Webb Blog](#)

[Adam Saxton Video Blog](#)

[Power BI Cheat Sheet From Macaw](#)

