

# Power BI

beginners free 10 weeks online training course

# Power BI

beginners free 10 weeks online training course



# Power BI Week 1

Monday 18th Jan 2021

Introduction to Power BI and your first Power BI report.

- Hi & Intros: David, Conrad
- Logistics: Classroom course
- Recording on Youtube. Leave if not happy to be recorded
- Each week sign up on Meetup.com for the weekly event & Q&A workshop
- Each session will be a new Zoom link
- Questions into the chat or raise your hand
- 2 screens is better than 1.
- Microphones on mute

# David Moss



Azure | Power Platform | D365 Solutions Architect

Delivering end to end Azure AI & BI hybrid solutions with a passion for D365, Power Platform & Power BI reports across IoT, e-commerce, telcos, fintech & manufacturing verticals.

## MVP Data Platform

Since 2017 awarded MVP - Microsoft Valued Professional - for my community contributions.

Leader of Power BI meetup user groups in London and online.  
Community & conference presenter.

## ACMA, CGMA Accountant

A qualified ACMA accountant all my career which keeps me commercially aware & business facing partner on D365 F&O projects.



@wottabyte



wottabyte

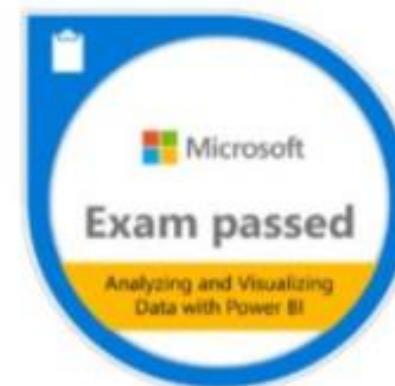
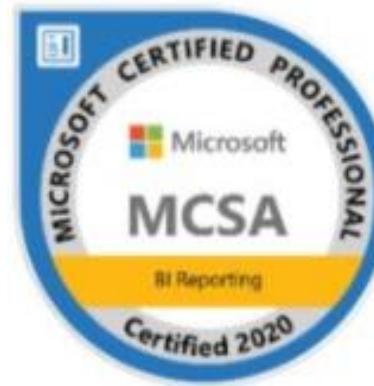


[www.wottabyte.com](http://www.wottabyte.com)



# Conrad Moss : Power BI Developer

- Certified MCSA BI Reporting : Power BI & Excel
- Power BI Certification 70-778 preparing to take DA-100
- Manchester United fan



# Linkedin : QR Codes



**David Moss**

Solutions Architect - Azure | Power Platform | D365 | (SC Cleared)



**Conrad Moss**

Power BI Developer at Hamilton Insurance Group

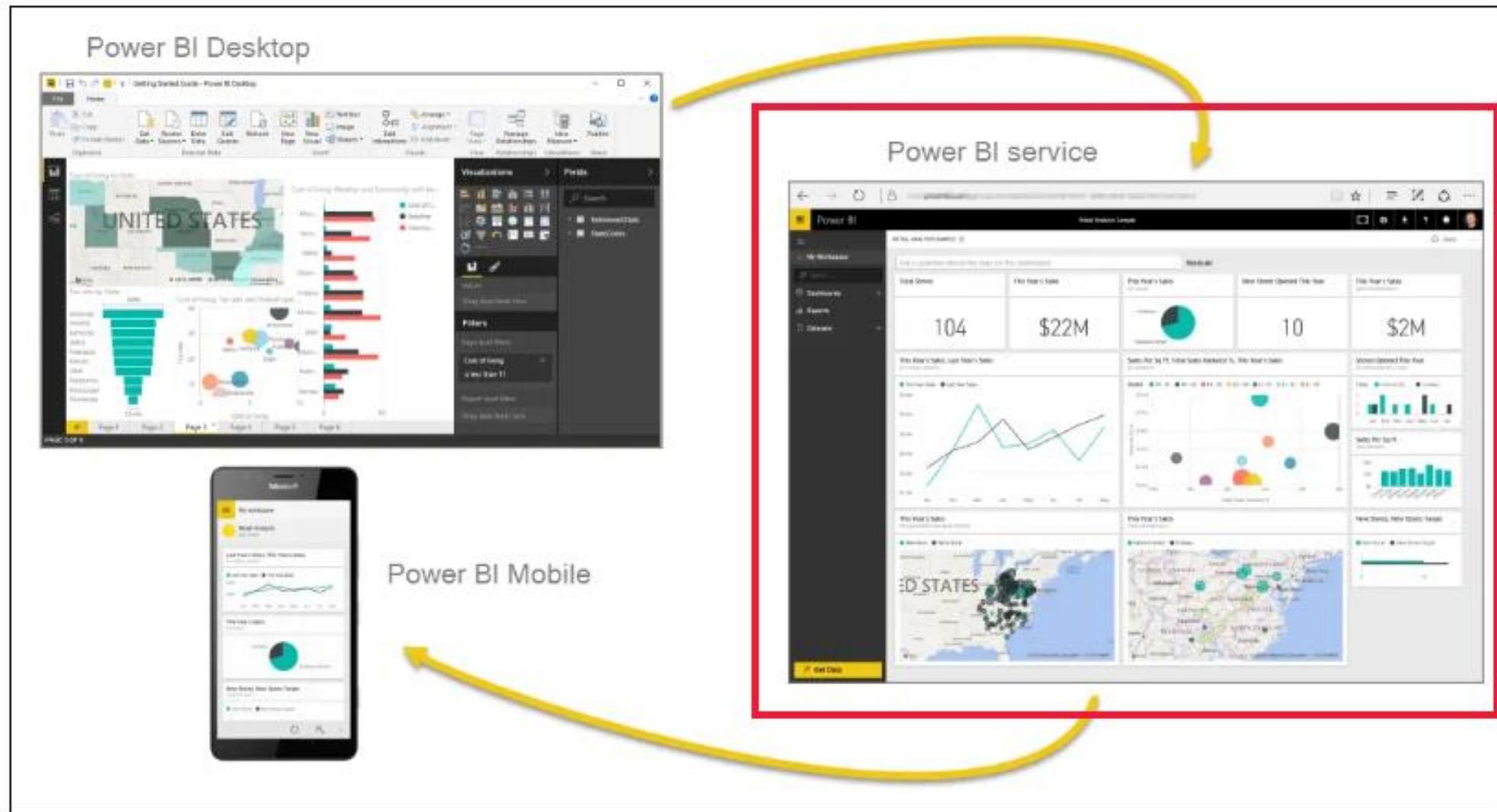


# Power BI

beginners free 10 weeks online training course

- Week 1: Monday 18<sup>th</sup> Jan 2021 : Introduction to Power BI and your first Power BI report.
- Week 2: Monday 25<sup>th</sup> Jan 2021 : Use Power Query Editor to get data & prepare your data.
- Week 3: Monday 1<sup>st</sup> Feb 2021 : Use Power BI desktop to structure & create datamodels.
- Week 4: Monday 8<sup>th</sup> Feb 2021 : Design & configure Power BI visuals like charts, maps & KPIs.
- Week 5: Monday 15<sup>th</sup> Feb 2021 : Add user friendly report navigation features, slicers & tooltips.
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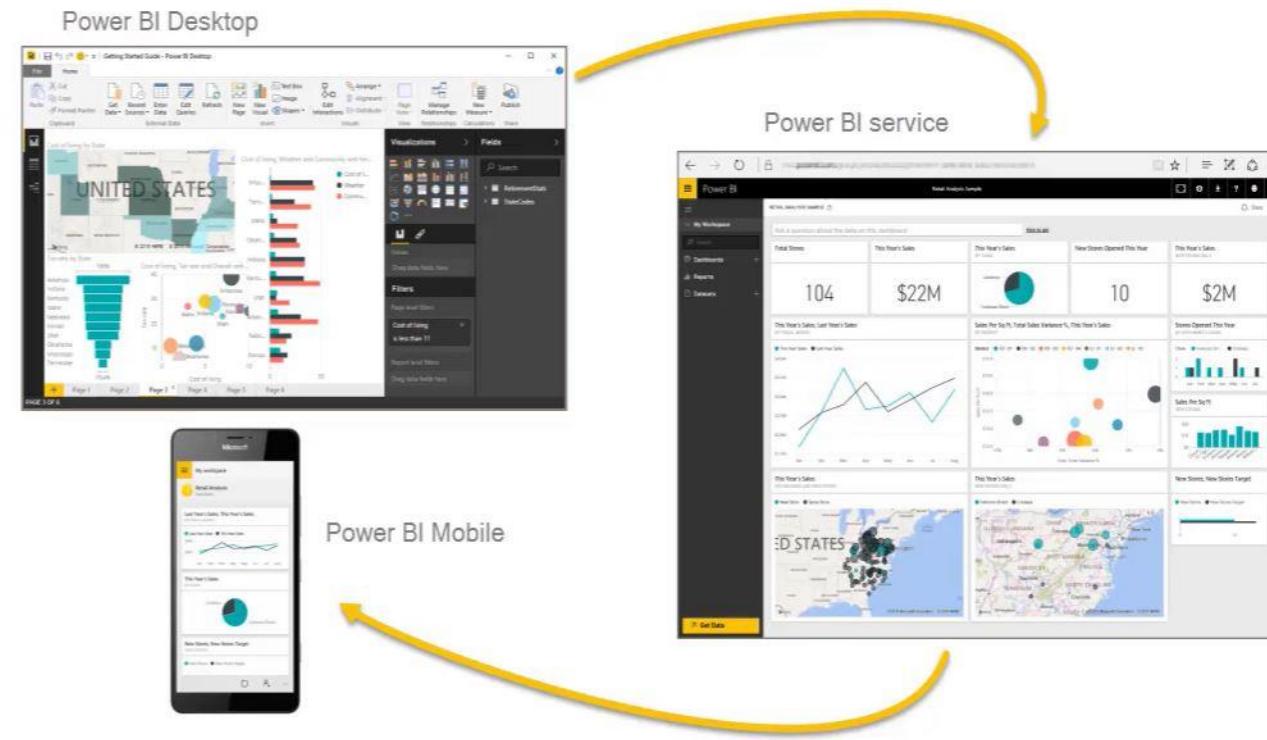
# What is Power BI ?



# PBI Desktop, PBI Service, PBI Mobile apps

## Parts of Power BI

These three elements—Desktop, the service, and Mobile apps—are designed to let people create, share, and consume business insights



Visual tools 2018SU06 Blog Demo - Power BI Desktop

File Home View Modeling Help Format Data / Drill Insert Themes Relationships Calculations Share

Paste Cut Copy Format Painter Get Data Recent Sources Enter Data Edit Queries Refresh New Page Ask A Question Buttons Text box Image From Marketplace From File Switch Theme Manage Relationships New Measure New Column New Quick Measure Publish Clipboard External data Insert Custom visuals Themes Relationships Calculations Share

Sales for Top 5 Categories

Net Satisfaction

Average Sale Amount by Class

Units by Class & Brand

PowerBI tips

VISUALIZATIONS FIELDS

\$1.03M  
Germany

\$2.42M  
Canada

\$1.25M  
France

\$1.48M  
Great Britain

Legend: Sales Amount (Orange), Units (Red)

Class: Deluxe (Orange), Economy (Red), Regular (Pink)

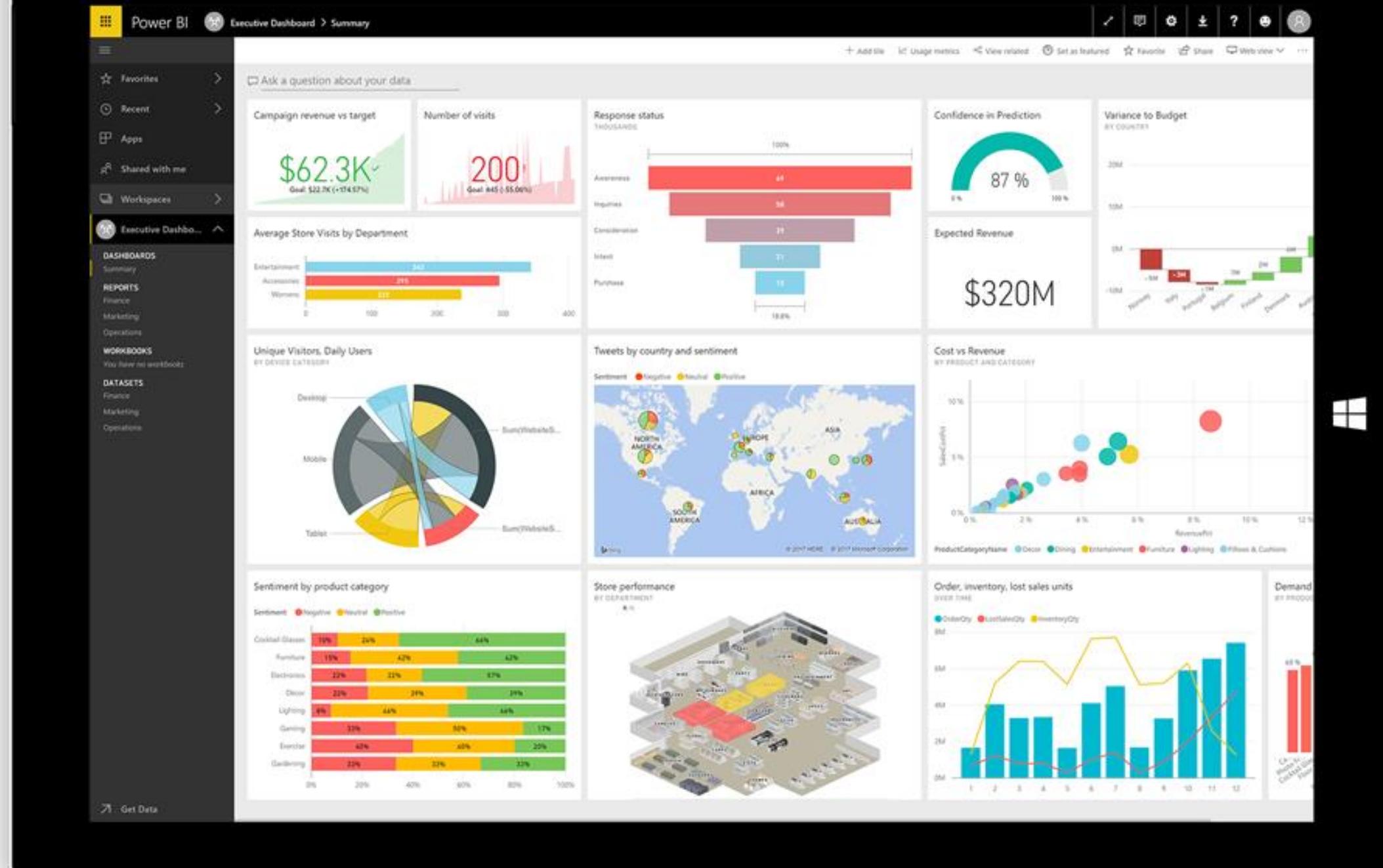
Inner radius: 68

Revert to default

General

Overview Germany Canada France Great Britain Details Page Duplicate of Overview +

PAGE 1 OF 7



# Quick Survey of audience

<https://forms.office.com/Pages/ResponsePage.aspx?id=WkuituyrDEaGarPmYT9Z1NvMNOjKOFdHsnEJjP6WpoNUREdYRjdPUUQ0SzIQVzYzUEdJSkVKV1U5Ni4u>

Student go to form and submit  
Trainer display live online results in Power BI dashboard



# Power BI Desktop

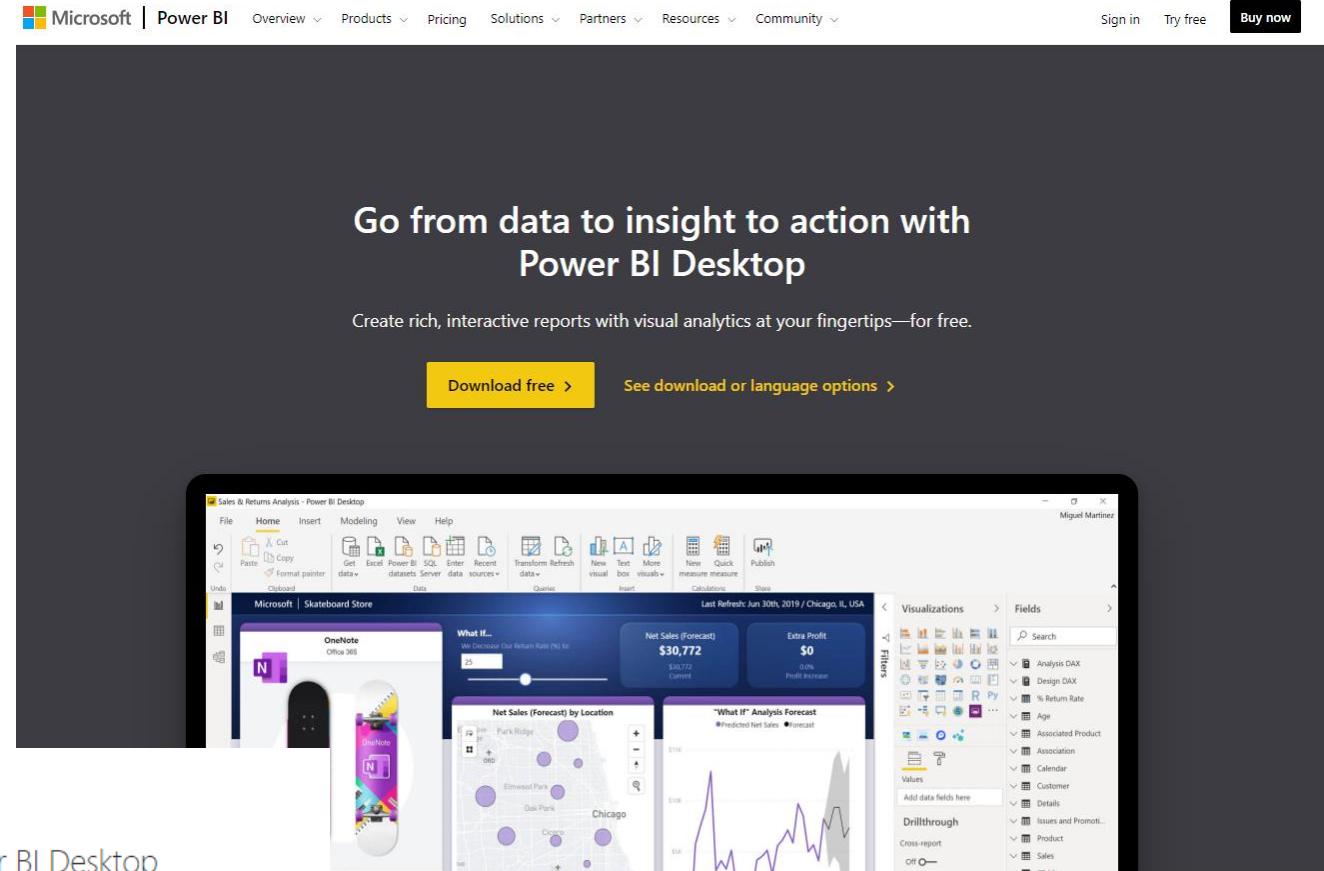
- Download Power BI Desktop from [www.powerbi.com](http://www.powerbi.com)
- Install
- Build your first report - use blog next page
- Quick look at PBI Desktop features
- Save your report as .pbix
- Get a Microsoft account
- Publish to Power BI Service [app.powerbi.com](http://app.powerbi.com)
- Workshop this eve at 21:00 – 22:00 for 1-2-1 help.

# Power BI Desktop

- Download Power BI Desktop
- Windows Store - W10 app
- Or Download desktop version
- 32 bit or 64 bit
- Windows not Apple

What is PBI desktop ?

<https://docs.microsoft.com/en-us/power-bi/fundamentals/desktop-getting-started>



Thank you for downloading Microsoft Power BI Desktop

If your download does not start after 30 seconds, [click here to download manually](#)

**Installation note:**

In the following Install Instructions, please start at the step after the mention of clicking the Download button.

⊕ [Install Instructions](#)

Untitled - Power BI Desktop

David Moss

File Home Insert Modeling View Help External Tools

Cut Copy Get data Clipboard

Paste Format painter

Power BI Desktop

Get data Recent sources

CryptoTrader.pbix C: > Users > david > Documents >...

coinmarketcap only web.p... C: > Users > david > Documents >...

CryptoTrader.pbix Documents

32.4 ControlChart 6 sigma.... C: > Users > david > Documents >...

Open other reports

WHAT'S NEW

Take a look at what's new and improved in Power BI in this month's update.

FORUMS

Visit the Power BI Forum to ask questions or interact with other users in the Power BI community.

POWER BI BLOG

Keep up to date with the latest news, resources, and updates from the Power BI team.

TUTORIALS

Ready to learn more about Power BI?

- Get started with Power BI Desktop
- Download a sample
- Watch our training videos
- See what others have built
- All guided learning

Visualizations Fields

Add data fields here

Drill through

Cross-report Off

Keep all filters On

Add drill-through fields here

Getting started with Power BI Desktop

Building reports Query view concepts Uploading your reports

Create a Phone report

VIEWS ALL VIDEOS

Show this screen on startup

Page 1 +

Page 1 of 1

# Lesson 1 - build your first report

- <https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-excel-stunning-report>



# Publish to www.powerbi.com

- Sign in at [www.powerbi.com](http://www.powerbi.com)
- You need a MS a/c not gmail !!
- <https://docs.microsoft.com/en-us/power-bi/fundamentals/service-self-service-signup-for-power-bi>

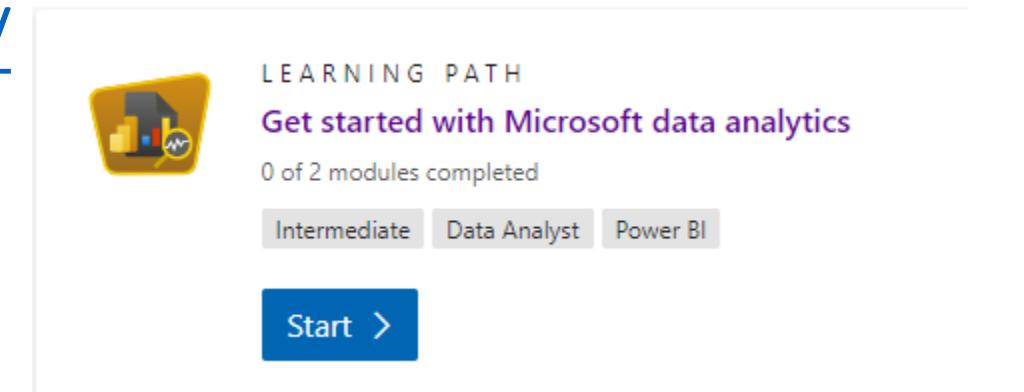
# Workshop this eve at 21:00 – 22:00 GMT

- **Q&A Workshop - Power BI Beginner Training Lesson 1**
- <https://www.meetup.com/The-Power-BI-Apprentice/events/275805195/>



# Preparation for next week

- Microsoft Learn : <https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>
- Get started with MS data analytics <https://docs.microsoft.com/en-us/learn/patterns/data-analytics-microsoft/>
- Microsoft documentation : <https://docs.microsoft.com/en-us/power-bi/learning-catalog/>



# Social Media : Meetup , LinkedIn, YouTube

← → ⌂ [meetup.com/The-Power-BI-Apprentice](https://meetup.com/The-Power-BI-Apprentice)

**Meetup** [Start a new group](#)

**The Power BI Apprentice**

London, United Kingdom

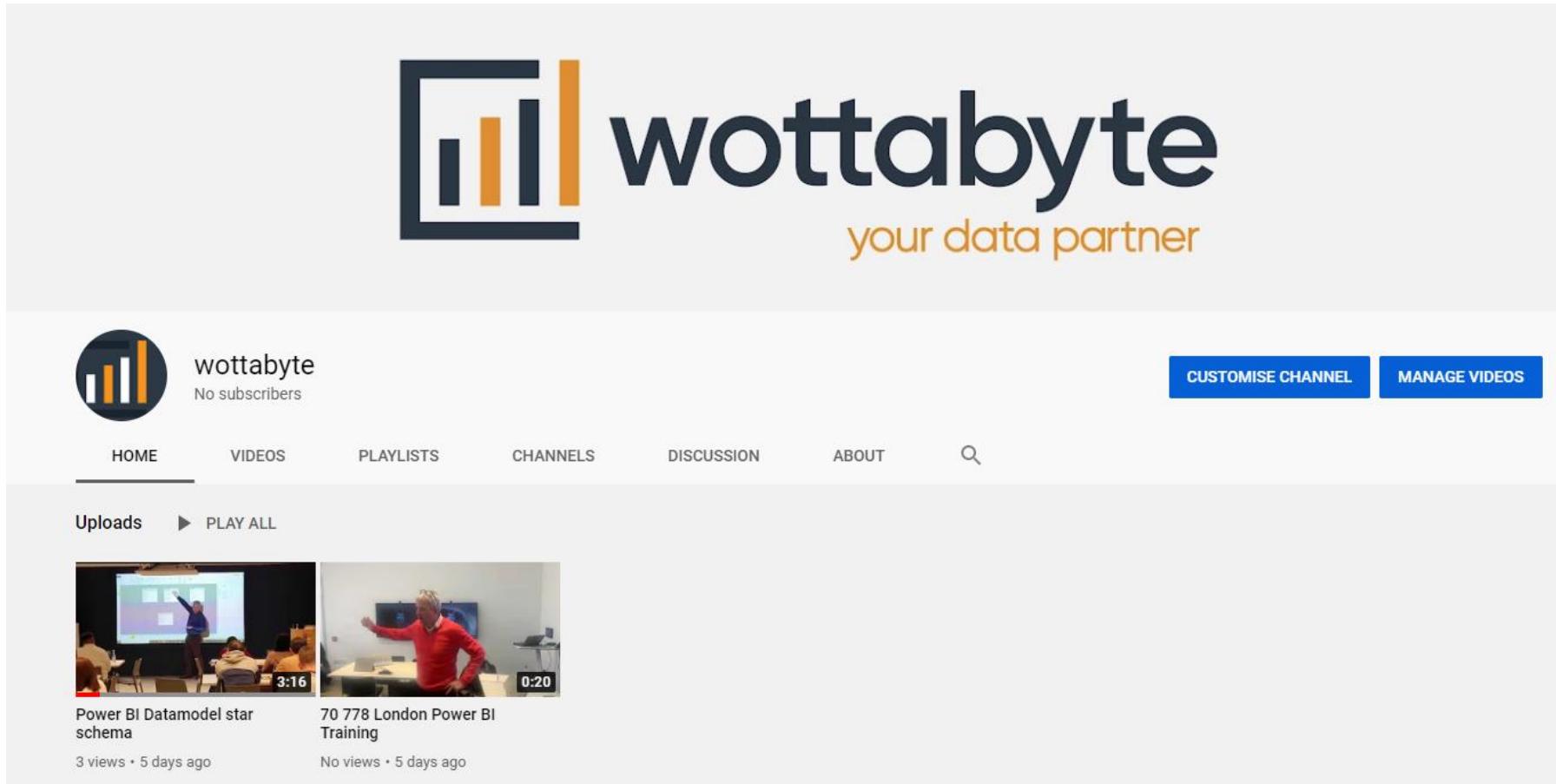
517 members • Public group

Organized by David Moss

Share: [f](#) [t](#) [in](#)

# You Tube

<https://www.youtube.com/channel/UCDtmmwK3YxWqzDNZ5L3pdMw>



The image shows a screenshot of a YouTube channel page. At the top, there is a large logo for "wottabyte" with the tagline "your data partner". Below the logo, the channel name "wottabyte" is displayed next to a circular profile picture containing a bar chart icon. It shows "No subscribers". There are two blue buttons: "CUSTOMISE CHANNEL" and "MANAGE VIDEOS". A navigation bar with links for "HOME", "VIDEOS", "PLAYLISTS", "CHANNELS", "DISCUSSION", and "ABOUT" is visible. A search bar is also present. The main content area is titled "Uploads" with a "PLAY ALL" button. It features two video thumbnails: one for "Power BI Datamodel star schema" (3:16) and another for "70 778 London Power BI Training" (0:20). Both videos were uploaded 5 days ago.

wottabyte  
No subscribers

CUSTOMISE CHANNEL   MANAGE VIDEOS

HOME   VIDEOS   PLAYLISTS   CHANNELS   DISCUSSION   ABOUT  

Uploads ► PLAY ALL

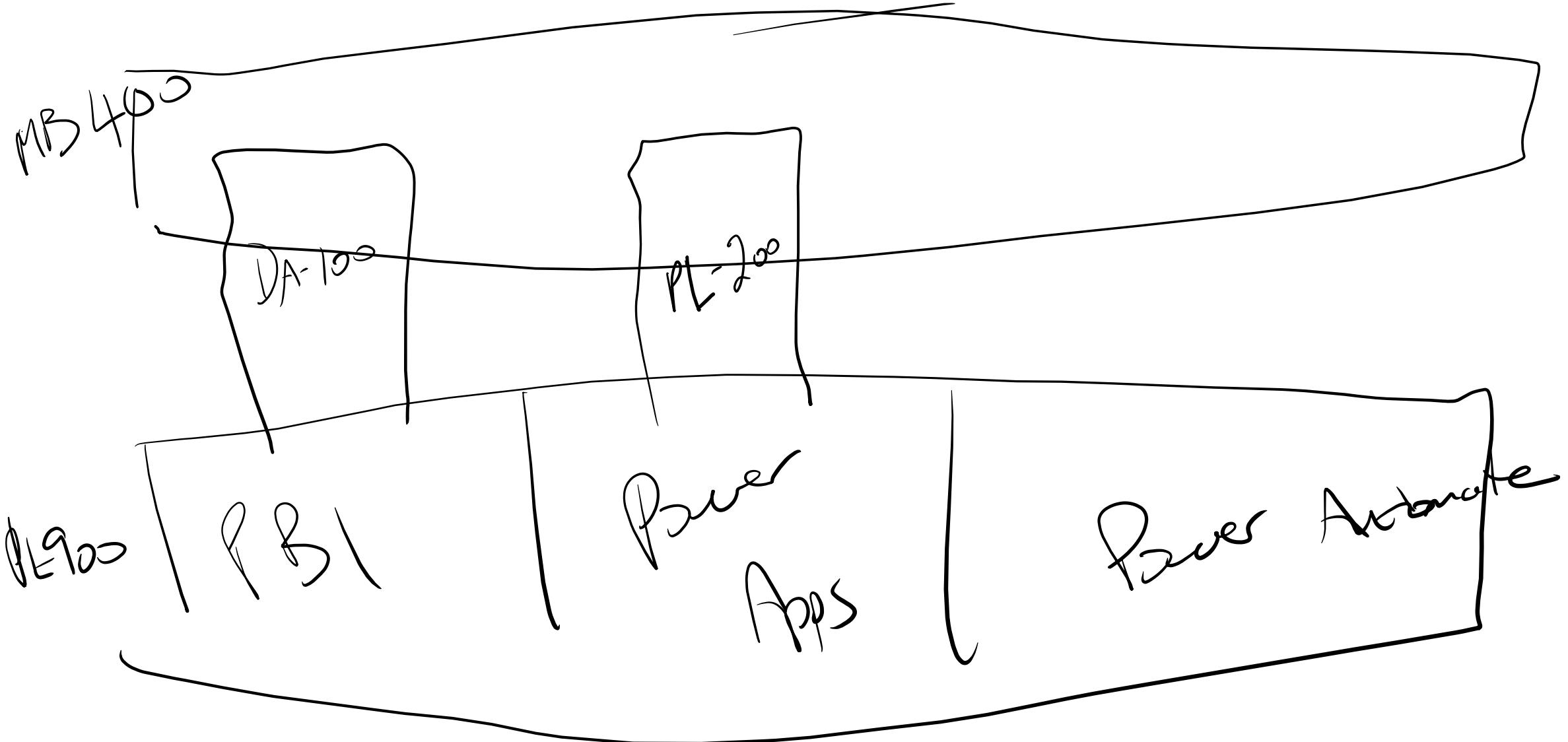
**Power BI Datamodel star schema**  
3:16  
3 views • 5 days ago

**70 778 London Power BI Training**  
0:20  
No views • 5 days ago

# The End



# Power Platform



# Power BI – LESSON 2 of 10

beginners free 10 weeks online training course



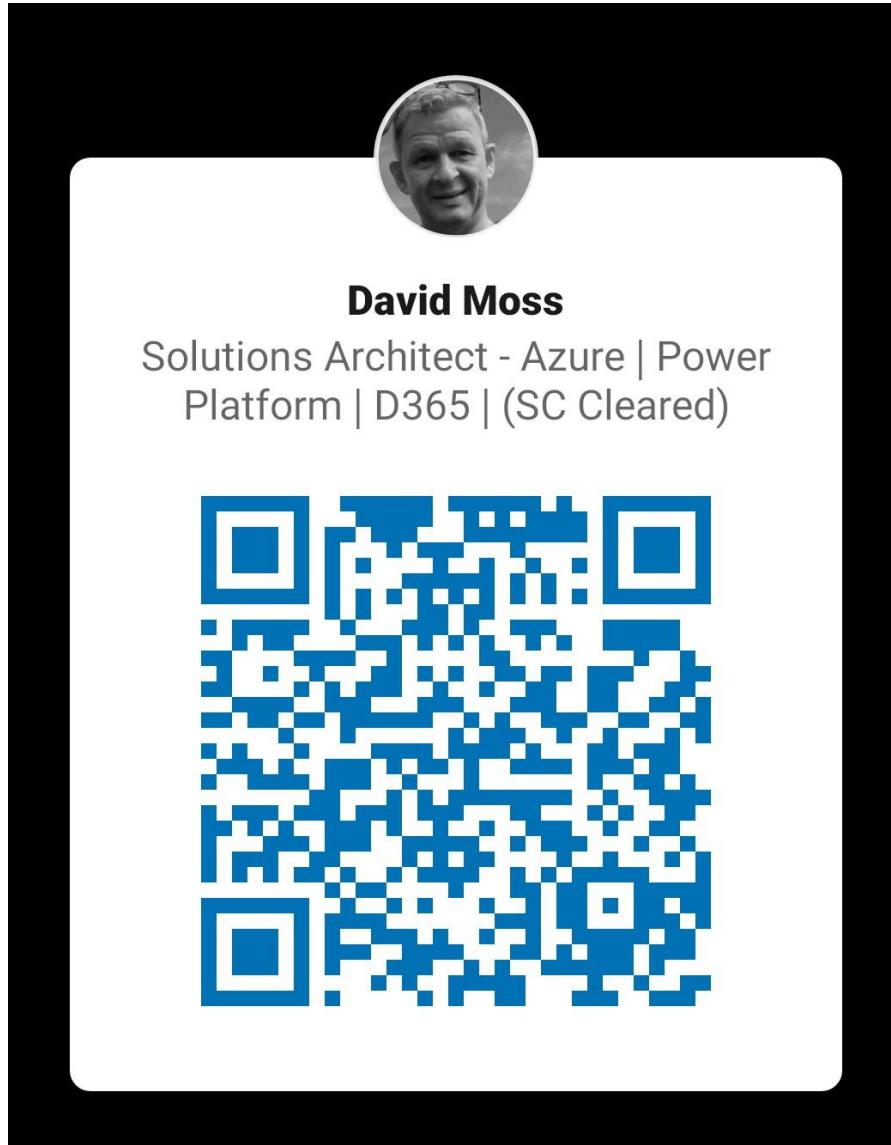
# Power BI Week 2

Monday 25th Jan 2021

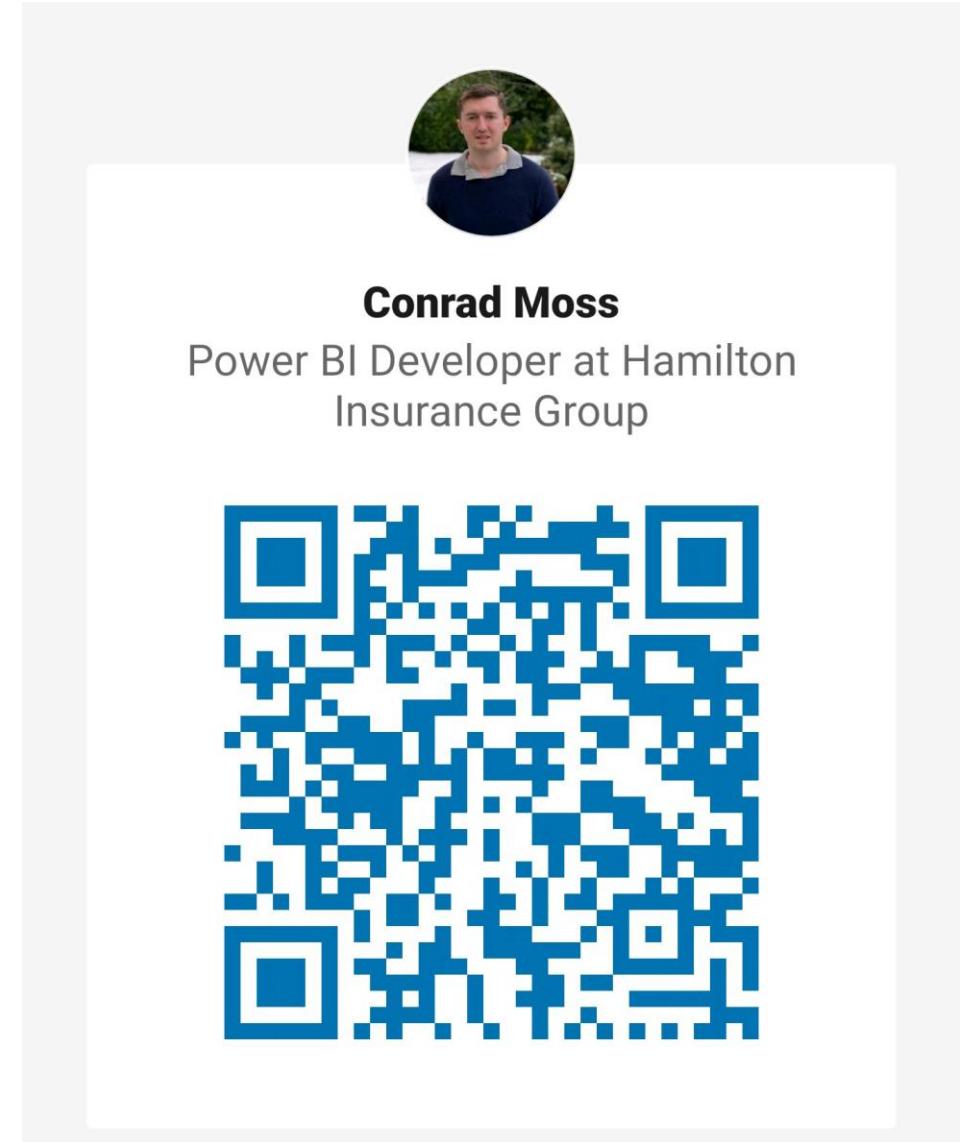
Use Power Query Editor to get data & prepare your data

- Hi & Intros: David & Conrad
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- Recording on Youtube. Leave if not happy to be recorded
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- Questions into the chat or raise your hand
- 2 screens is better than 1.
- Microphones on mute
- Workshop at 21:00 : register now at <https://www.meetup.com/The-Power-BI-Apprentice/events/>

# Linkedin : QR Codes



A LinkedIn profile card for David Moss. It features a circular profile picture of a man with short hair, smiling. Below the picture, the name "David Moss" is displayed in bold black font. Underneath the name, the title "Solutions Architect - Azure | Power Platform | D365 | (SC Cleared)" is shown in a smaller gray font. At the bottom of the card is a large blue QR code.



A LinkedIn profile card for Conrad Moss. It features a circular profile picture of a man with short hair, wearing a dark blue sweater over a light-colored collared shirt. Below the picture, the name "Conrad Moss" is displayed in bold black font. Underneath the name, the title "Power BI Developer at Hamilton Insurance Group" is shown in a smaller gray font. At the bottom of the card is a large blue QR code.

# Power BI

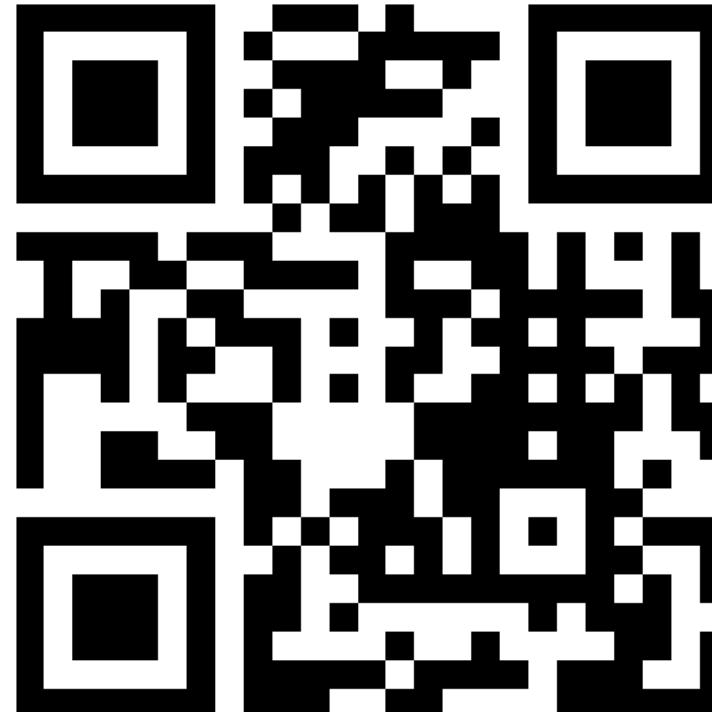
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# Power BI Week 2

Monday 25th Jan 2021

- 1<sup>st</sup> a quick QUIZ !! [www.mentimeter.com](http://www.mentimeter.com)
- **50 24 12 1**
- <https://www.menti.com/csb5wsjst2>



# Power BI Week 2

Monday 25th Jan 2021

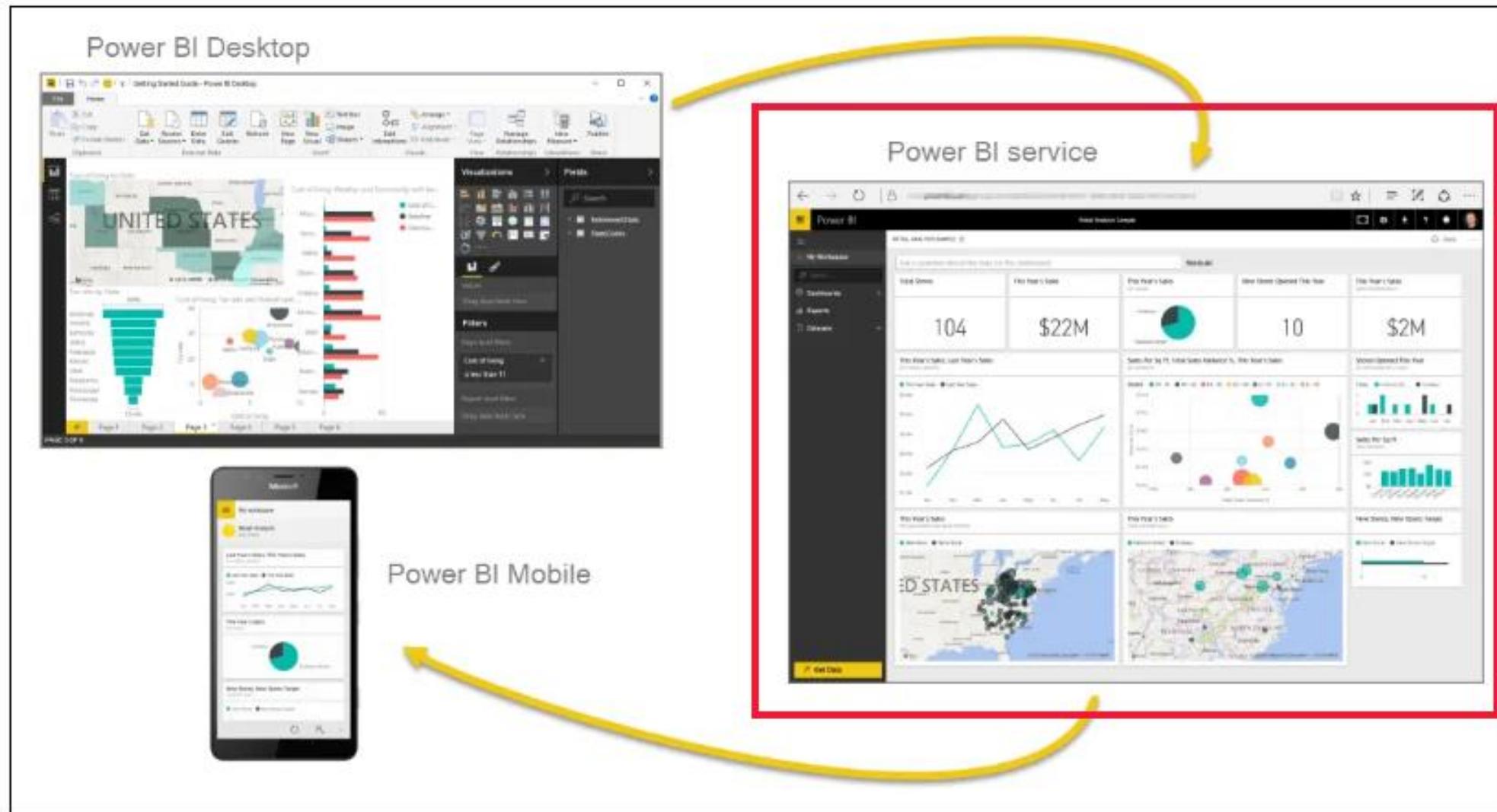
- 1<sup>st</sup> lets finish of Lesson 1
- Complete Power BI report from Lesson 1
- Sign up & login for Power BI Service account (needs a Microsoft a/c)
- Publish report to the Power BI service
- Explain what is Power BI Service basics
- Navigate report in Power BI Service
- Back to get & prepare data with Power Query Editor

# Complete Power BI report from Lesson 1

- Open blog <https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-excel-stunning-report>
- Demo a step
- Show finished report
- Save Power BI desktop report as .pbix locally
- Conrad demo

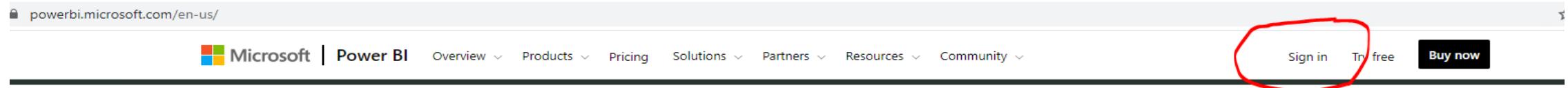


# What is Power BI ?



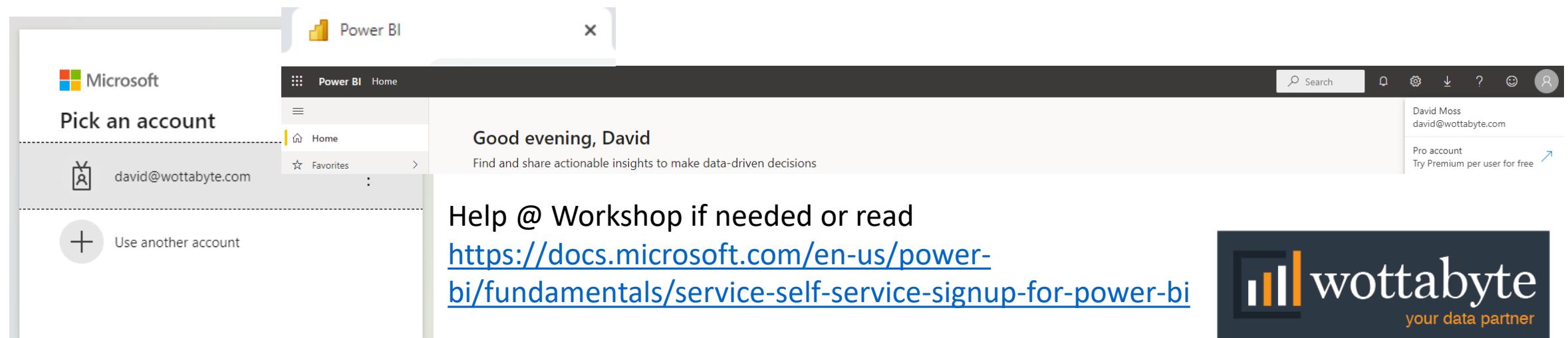
# Create a Power BI Service account

## Sign up & login with Power BI account (needs a Microsoft a/c)



The screenshot shows the Microsoft Power BI website at [powerbi.microsoft.com/en-us/](https://powerbi.microsoft.com/en-us/). The navigation bar includes links for Microsoft, Power BI, Overview, Products, Pricing, Solutions, Partners, Resources, Community, Sign in (which is circled in red), Try free, and Buy now.

- Goto [www.powerbi.com](https://www.powerbi.com) and click 'Sign in'. Free license.
- Work or school a/c ? If none then create a Microsoft a/c but cannot use a gmail. <https://docs.microsoft.com/en-us/power-bi/consumer/end-user-sign-in>
- If fails we can help you during the workshop later this eve.
- Show Power BI Service Home page My workspace is blank.



The screenshot shows the Power BI Service Home page. A modal window titled "Pick an account" is open, showing the email "david@wottabyte.com". The main page displays a "Good evening, David" greeting and the message "Find and share actionable insights to make data-driven decisions". Below this, there is a note: "Help @ Workshop if needed or read <https://docs.microsoft.com/en-us/power-bi/fundamentals/service-self-service-signup-for-power-bi>". On the right side, the user profile shows "David Moss" and "david@wottabyte.com" with a "Pro account" status and a "Try Premium per user for free" link. The wottabyte logo is visible in the bottom right corner.

Workshop this eve at 21:00 – 22:00 GMT

Monday 25th Jan 2021

- **Q&A Workshop - Power BI Beginner Training Lesson 2 of 10**
- <https://www.meetup.com/The-Power-BI-Apprentice/events/275871416/>



# Quick Survey of audience

<https://forms.office.com/Pages/ResponsePage.aspx?id=WkuituyrDEaGarPmYT9Z1NvMNOjKOFdHsnEJjP6WpoNUREdYRjdPUUQ0SzIQVzYzUEdJSkVKV1U5Ni4u>

Student go to form and submit  
Trainer display live online results in Power BI dashboard



# Publish to Power BI

## .pbix report

- Back in Power BI Desktop
- open .pbix then Click Publish
- Select My Workspace and click confirm.
- Check success message
- Goto [www.powerbi.com](http://www.powerbi.com)
- Open My Workspace
- See your report
- Navigate report

Publishing to Power BI

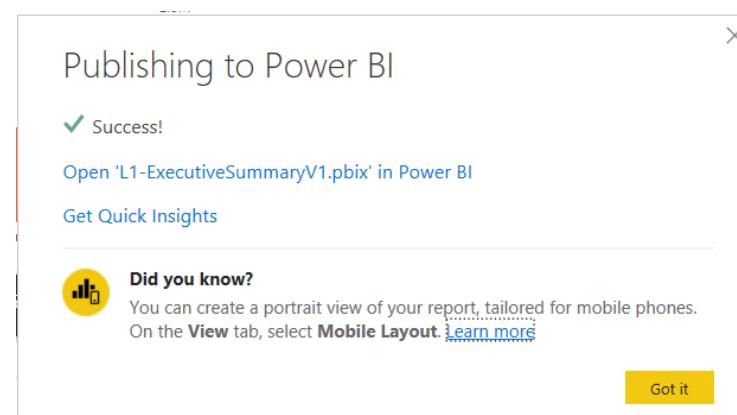
▪ Publishing 'L1-ExecutiveSummaryV1.pbix' to Power BI



### Did you know?

You can create a portrait view of your report, tailored for mobile phones.  
On the View tab, select **Mobile Layout**. [Learn more](#)

Cancel

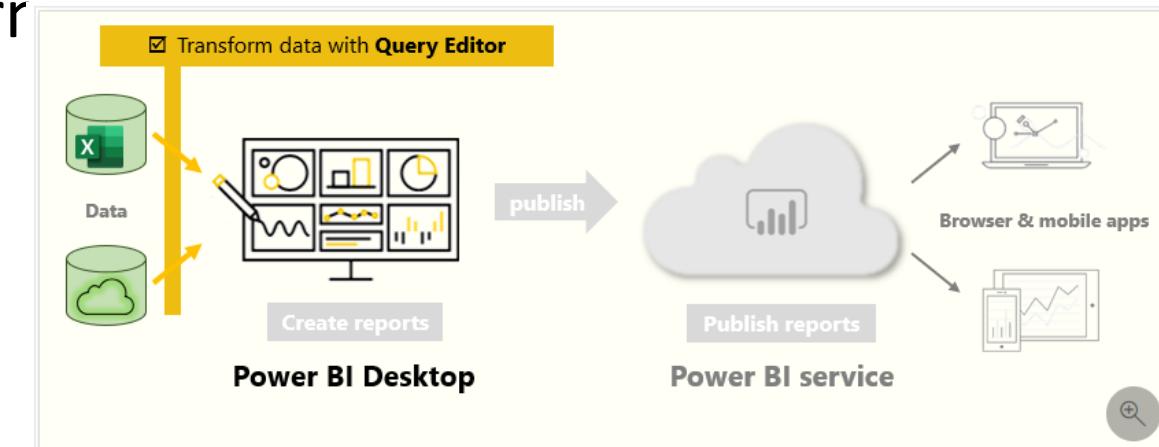
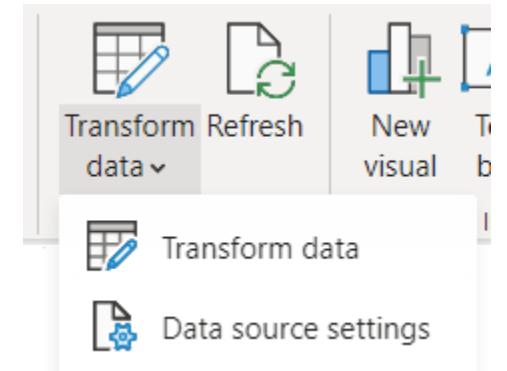


# Power BI Week 2

Monday 25th Jan 2021

Use Power Query Editor to get data & prepare your data

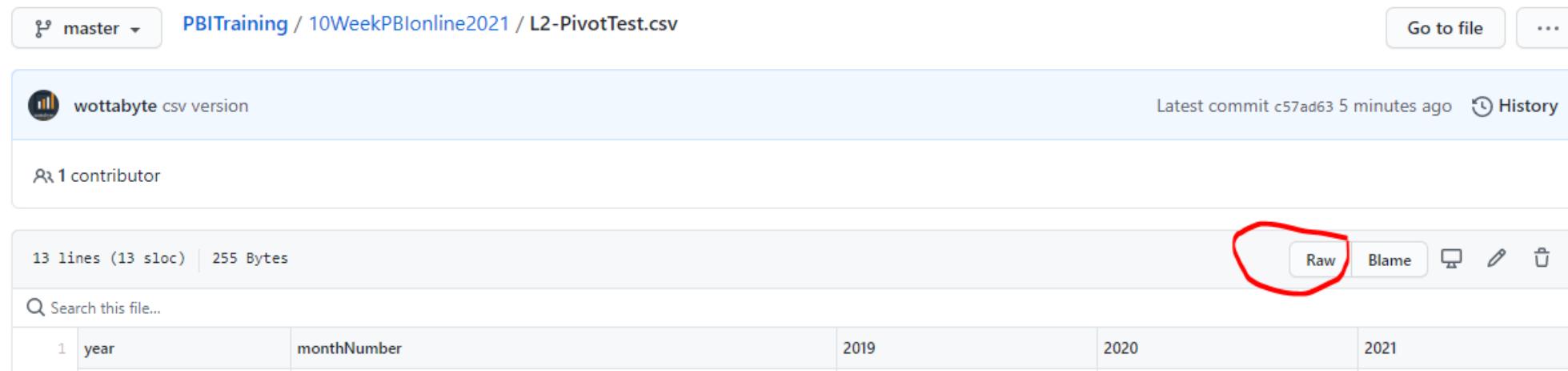
- Back to get & prepare data with Power Query Editor
- From Power BI Desktop open Power Query Editor...how ?
- Show PQE features
- Power Query Language = M
- BTW it's the same in Excel
- Get data & transform as demo in Learr



# Power BI Week 2

## Power Query Editor: Capitalize & UNpivot data demo

- Csv > raw ? See url :  
<https://github.com/wottabyte/PBITraining/tree/master/10WeekPBlonline2021>
- PQE use Web
- Lowercase then capitalize
- Pivot years
- Close & Apply



The screenshot shows a GitHub file page for `L2-PivotTest.csv`. The page includes navigation buttons for 'master' branch, 'Go to file', and an ellipsis. Below the file name, it shows the commit history with one commit by 'wottabyte' and a link to 'History'. It also indicates 1 contributor and provides file statistics: 13 lines (13 sloc), 255 Bytes, and a search bar. At the bottom, there is a preview of the CSV data with columns `year`, `monthNumber`, `2019`, `2020`, and `2021`. A red circle highlights the 'Raw' button in the file operations menu.

year	monthNumber	2019	2020	2021
1				

# Power BI Week 2 CourseWork

Monday 25th Jan 2021

- Microsoft Learn - Complete Learning Path 'Prepare Data for analysis'
- Module – 'Get data in Power BI'
- Module – 'Clean, transform and load data in Power BI'
- Download the slides from GitHub



## Prepare data for analysis

3 hr 26 min • Learning Path • 0 of 2 modules completed

Intermediate

Data Analyst

Power BI



## Get data in Power BI

1 hr 25 min • Module • 0 of 12 units completed

★★★★★ 4.8 (2,587)



## Clean, transform, and load data in Power BI

2 hr 1 min • Module • 0 of 10 units completed

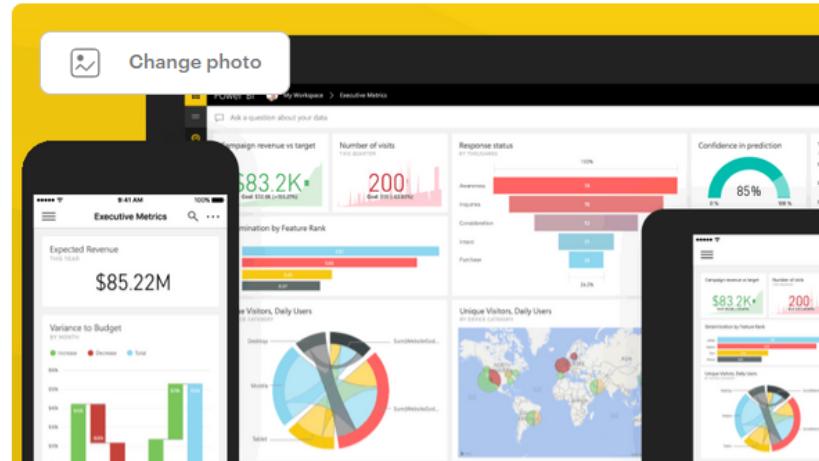
★★★★★ 4.8 (2,754)

<https://docs.microsoft.com/en-us/learn/patterns/prepare-data-power-bi/>

# Social Media : Meetup , LinkedIn, YouTube

[meetup.com/The-Power-BI-Apprentice](https://www.meetup.com/The-Power-BI-Apprentice)

**Meetup** [Start a new group](#)



**The Power BI Apprentice**

London, United Kingdom · 517 members · Public group

Organized by David Moss

Share: [f](#) [t](#) [in](#)

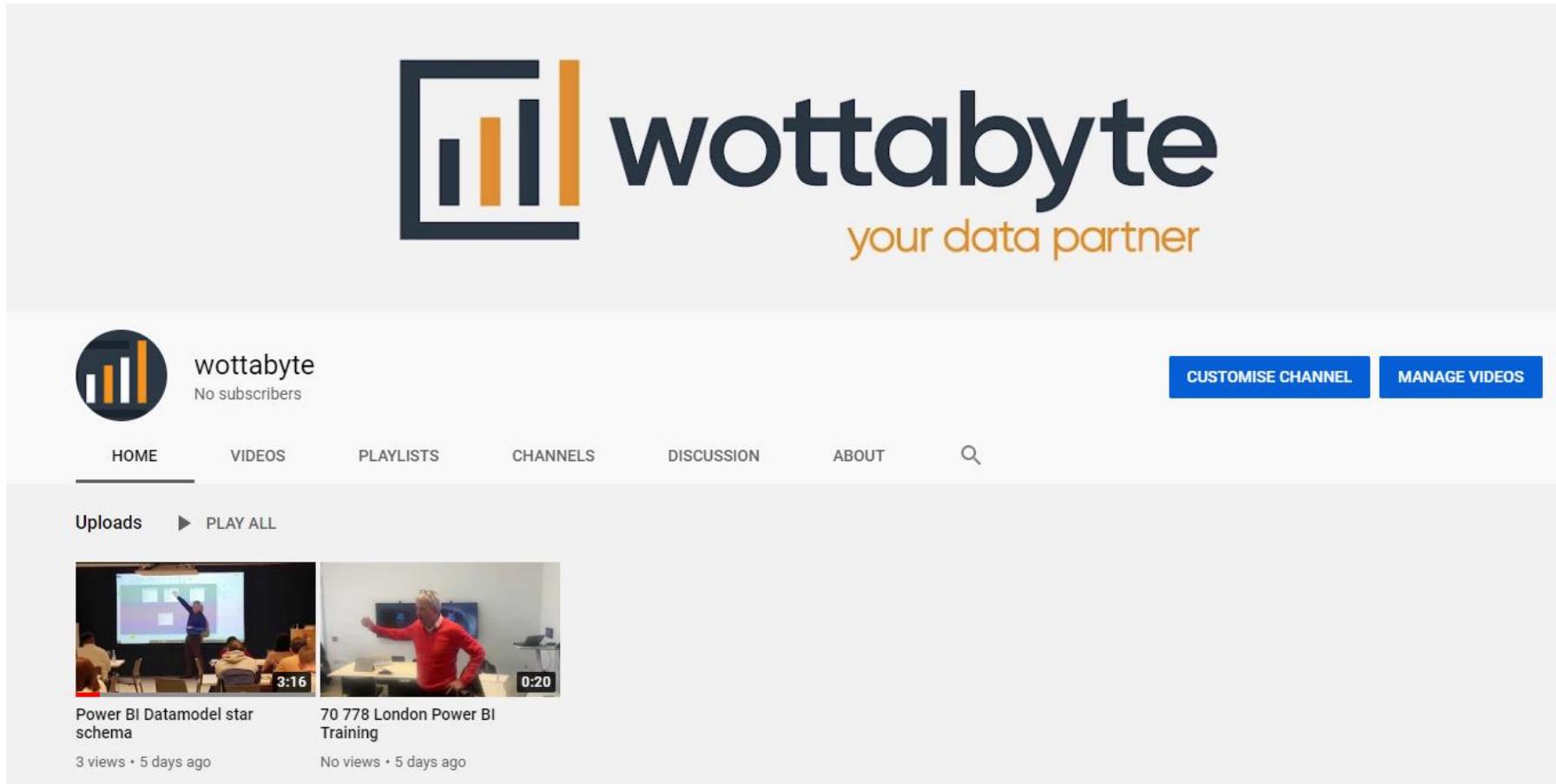
**@wottabyte**

**wottabyte**

**www.wottabyte.com**

# You Tube

<https://www.youtube.com/channel/UCDtmmwK3YxWqzDNZ5L3pdMw>



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wottabyte  
No subscribers

CUSTOMISE CHANNEL   MANAGE VIDEOS

HOME   VIDEOS   PLAYLISTS   CHANNELS   DISCUSSION   ABOUT  

Uploads ► PLAY ALL

**Power BI Datamodel star schema**  
3:16  
3 views • 5 days ago

**70 778 London Power BI Training**  
0:20  
No views • 5 days ago

# Power BI Week 3

1<sup>st</sup> February

Use Power BI desktop to structure & create datamodels

Watch your email & social media channels for when event goes live for registration.

# The End



# Power BI – LESSON 3 of 10

beginners free 10 weeks online training course



# Power BI Week 3

Monday 1<sup>st</sup> Feb 2021



## Use Power BI desktop to structure & create datamodels

The screenshot shows the Power BI desktop interface with the 'Home' tab selected in the ribbon. The main area displays a data model diagram with four tables: opportunity, lead, account, and contact. The opportunity table has relationships with lead, account, and contact. The lead table has relationships with account and contact. The account table has a relationship with contact. Each table has its schema listed below it. A message bar at the top indicates an upgrade to the new model view is available.

File Home Help External Tools

Paste Cut Copy Get data v Excel Power BI datasets SQL Server Enter data Recent sources v Transform Refresh data Manage relationships Manage roles View as Q&A Language setup A+ A Linguistic schema v Publish Share

Clipboard Data Queries Relationships Security Q&A Share

Upgrade to the new model view for an improved design that makes it easy to identify data sources and manage relationships. Keep in mind, this change is permanent. Learn more Upgrade now X

opportunity

- accountid
- accountidname
- accountidyominame
- actualclosedate
- actualvalue
- actualvalue\_base
- budgetamount
- budgetamount\_base
- budgetstatus
- budgettypename
- campaignid

lead

- accountid
- accountidname
- accountidyominame
- address1\_addressid
- address1\_addressstype...
- address1\_city
- address1\_country
- address1\_fax
- address1\_latitude

account

- accountcategorycode
- accountcategorycode...
- accountclassificationc...
- accountclassificationc...
- accountid
- accountnumber
- accountratingcode
- accountratingcodena...
- address1\_addressid
- address1\_addressstype...
- address1\_addressstype...

contact

- accountid
- accountidname
- accountidyominame
- accountrolecode
- accountrolecodename
- address1\_addressid
- address1\_addressstype...
- address1\_city
- address1\_country
- address1\_county

All tables PowerBI Training Online Free 10 weeks Wottabyte David Moss MVP Solutions Architect +

# Power BI Week 3

Monday 1<sup>st</sup> Feb 2021

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**David Moss**

Solutions Architect - Azure | Power Platform | D365 | (SC Cleared)



**Conrad Moss**

Power BI Developer at Hamilton Insurance Group



# Microsoft Power BI Associate

## DA-100 Certification

docs.microsoft.com/en-us/learn/certifications/exams/da-100

 Microsoft | Docs Documentation Learn Q&A Code Samples 

Learn Products Roles Learn TV Certifications Certifications FAQ & Help LE

Docs / Learn / Browse Certifications / Exam DA-100: Analyzing Data with Microsoft Power BI - Learn

 Exam DA-100: Analyzing Data with Microsoft Power BI

<https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>

YOU Tube DA-100 : <https://www.youtube.com/watch?v=CI7hdjq0ZxI>

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- **Q&A Workshop 3 - Power BI Beginner Training**
- <https://www.meetup.com/The-Power-BI-Apprentice/events/276011703/>

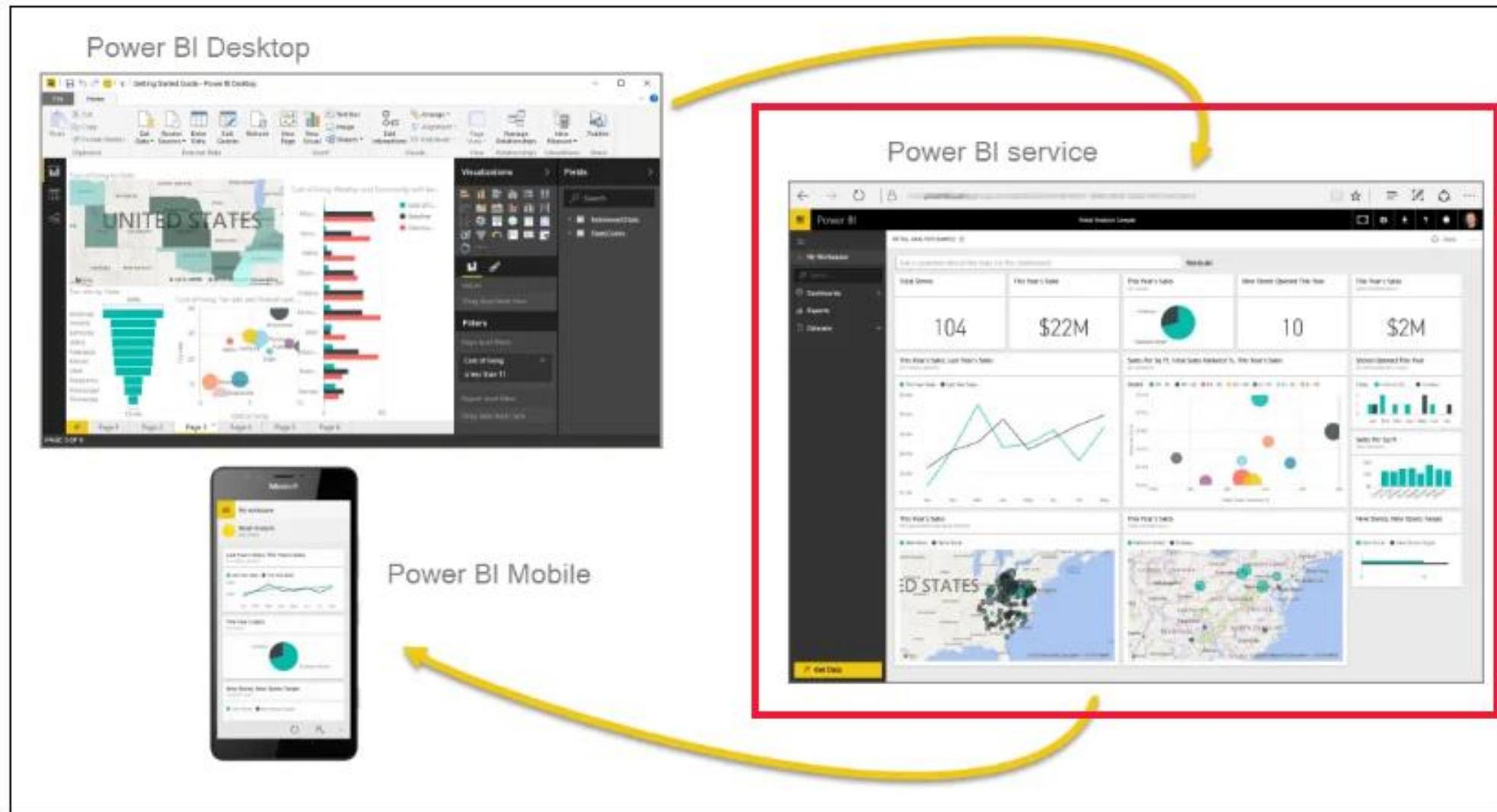


# Power BI

beginners free 10 weeks online training course

- Week 1: Monday 18<sup>th</sup> Jan 2021 : Introduction to Power BI and your first Power BI report.
- Week 2: Monday 25<sup>th</sup> Jan 2021 : Use Power Query Editor to get data & prepare your data.
- Week 3: Monday 1<sup>st</sup> Feb 2021 : Use Power BI desktop to structure & create datamodels.
- Week 4: Monday 8<sup>th</sup> Feb 2021 : Design & configure Power BI visuals like charts, maps & KPIs.
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- Week 7: Monday 1<sup>st</sup> March 2021: Get to grips with Power BI cloud service & mobile features.
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- Week 9: Monday 15<sup>th</sup> March 2021: Data analytics reporting & AI features in Power BI.
- Week 10: Monday 22<sup>nd</sup> March 2021: Power BI at work with workspaces, datasets & security.

# What is Power BI ?



# Power BI Week 2 CourseWork

From Monday 25th Jan 2021

- Microsoft Learn - Complete Learning Path 'Prepare Data for analysis'
- Module – 'Get data in Power BI'
- Module – 'Clean, transform and load data in Power BI'
- Download the slides from GitHub



## Prepare data for analysis

3 hr 26 min • Learning Path • 0 of 2 modules completed

Intermediate

Data Analyst

Power BI



## Get data in Power BI

1 hr 25 min • Module • 0 of 12 units completed

★★★★★ 4.8 (2,587)



## Clean, transform, and load data in Power BI

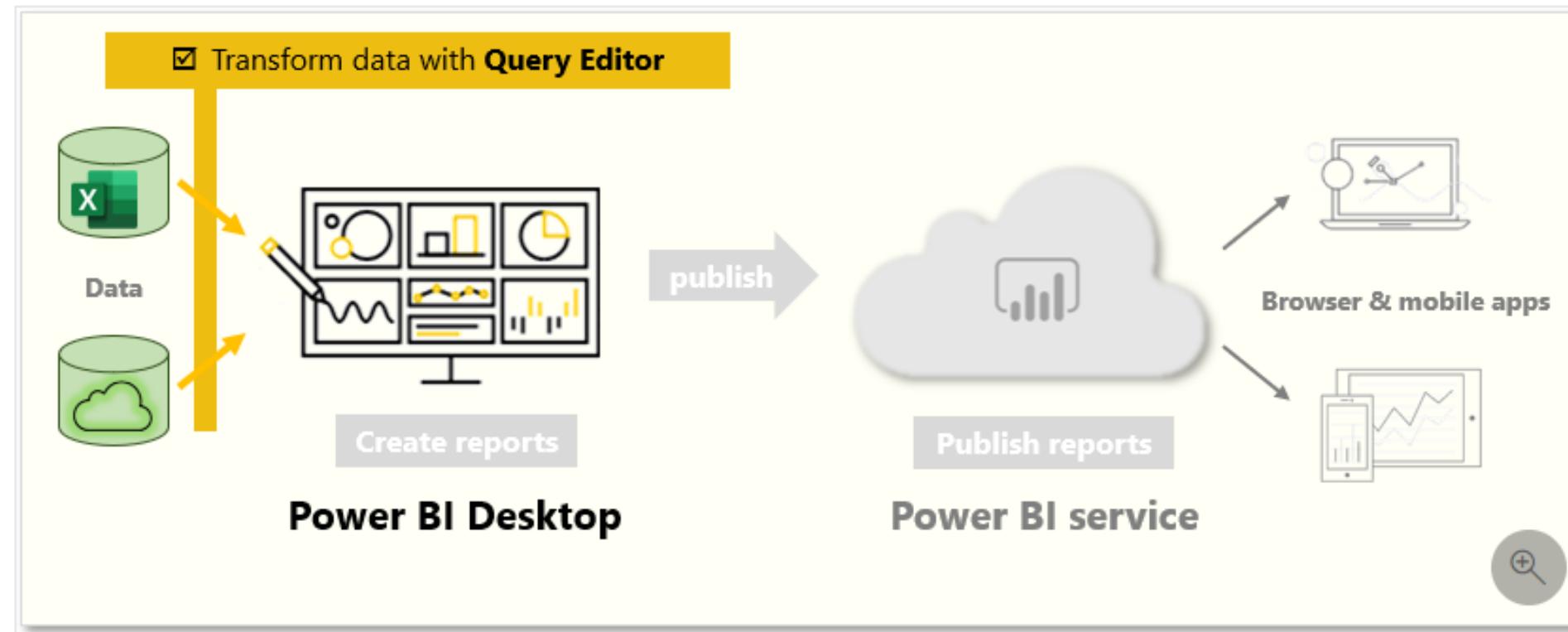
2 hr 1 min • Module • 0 of 10 units completed

★★★★★ 4.8 (2,754)

<https://docs.microsoft.com/en-us/learn/patterns/prepare-data-power-bi/>

# Power BI Week 3

## Power BI Workflow



# Power BI Week 2

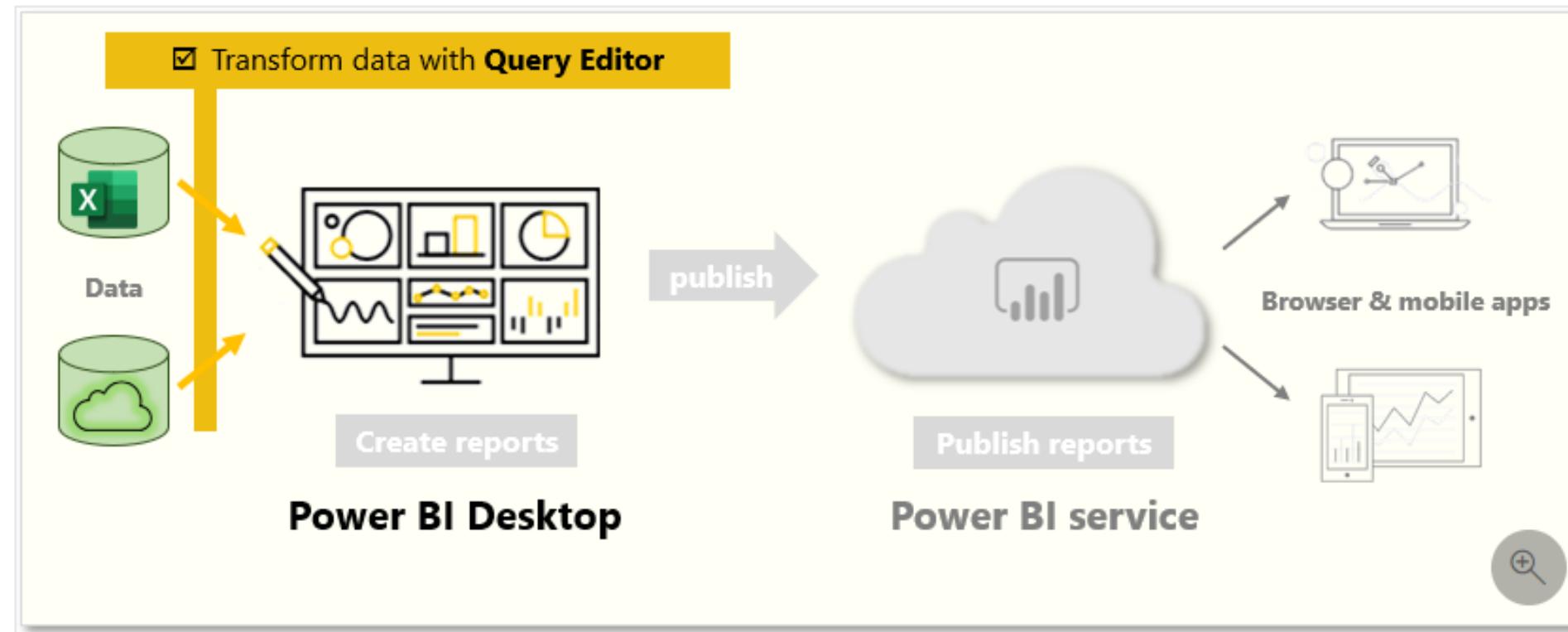
Published to Power BI Service ??

The screenshot shows the Power BI Service interface. The top navigation bar includes back, forward, and refresh buttons, along with a URL bar showing <app.powerbi.com/groups/83187624-88fe-4068-a710-9ebb83c4c148/list/dashboards>. The main title is "Power BI DA-100 2021 10 week online". On the left, a sidebar lists Home, Favorites, Recent, Create, Datasets, Apps, Shared with me, and Deployment pipelines. The main content area displays a dashboard titled "DA-100 2021 10 week online" with a user icon. Below it are buttons for "+ New", "Create a pipeline", and tabs for All, Content (which is selected), and Datasets + dataflows. A table lists two reports: "L1-ExecutiveSummaryV2" and "L2-PivotedData", both categorized as Report.

Name	Type
L1-ExecutiveSummaryV2	Report
L2-PivotedData	Report

# Power BI Week 3

## Power BI Workflow



# Quick Survey of audience

<https://forms.office.com/Pages/ResponsePage.aspx?id=WkuituyrDEaGarPmYT9Z1NvMNOjKOFdHsnEJjP6WpoNUREdYRjdPUUQ0SzIQVzYzUEdJSkVKV1U5Ni4u>

Student go to form and submit  
Trainer display live online results in Power BI dashboard



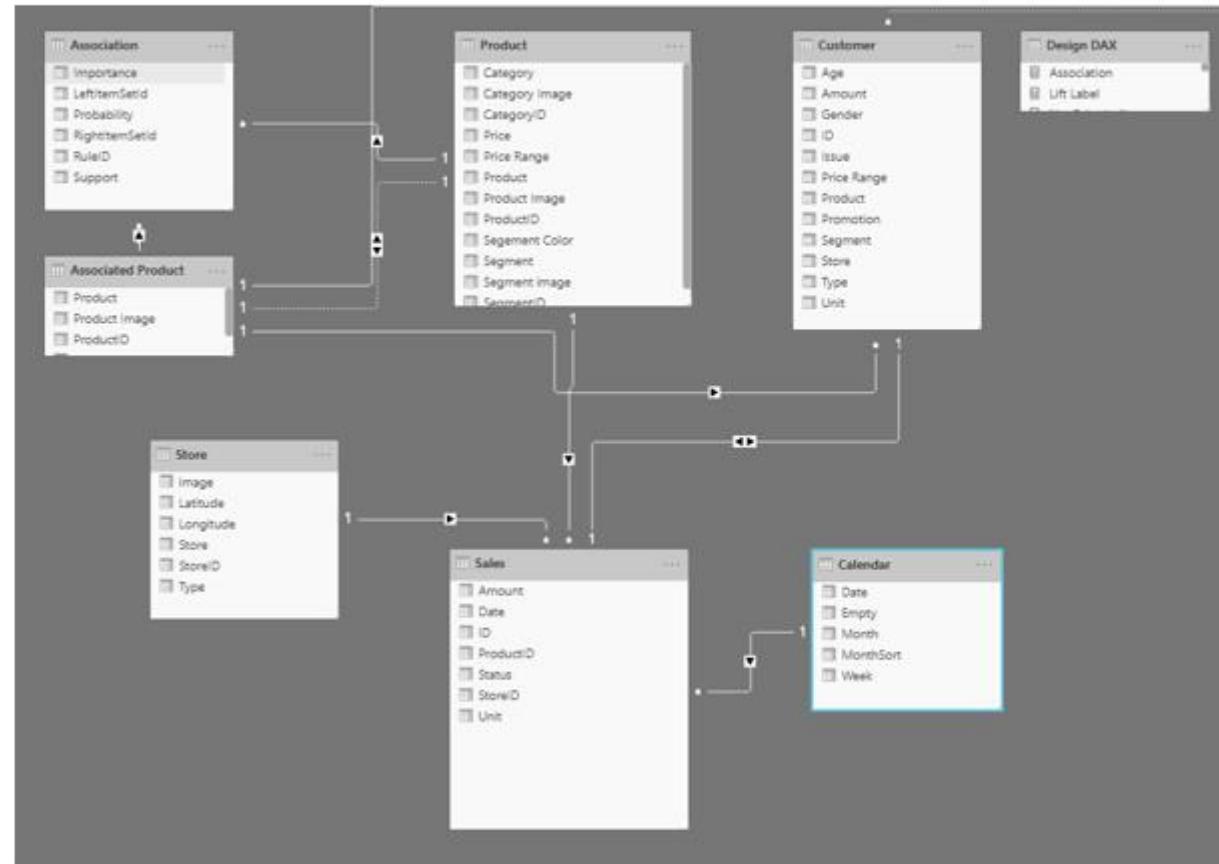
# Power BI Week 3

## Intro to data modelling



### Introduction to Data Modeling

- Benefits of a good data model:
  - Accurate reports.
  - Faster data exploration.
  - Simpler aggregations.
  - Easier to maintain.



# Power BI Week 3

## Joins & Relationships



Microsoft  
Power Platform

### Joins and Relationships

The screenshot shows the Power BI Data Model interface. On the left, the 'Employee' table is displayed with columns: Category Name, City, Employee Name, EmployeeID, Product Group, StandardCost, State, and Category Name Hierarchy. On the right, the 'Sales' table is shown with columns: Amount, CountryID, EmployeeID, Freight, Freight\_1, ListPrice, Order Date, OrderDate, and OrderQty. A relationship is established between the EmployeeID column in the Employee table and the EmployeeID column in the Sales table, indicated by a line with a 1 and an \* symbol. A red arrow points from the Employee table towards the Manage relationships dialog box. The dialog box is titled 'Manage relationships' and contains a table of existing relationships:

Active	From: Table (Column)	To: Table (Column)
<input type="checkbox"/>	Country (Country)	CountryName (Country)
<input checked="" type="checkbox"/>	Country (Country)	Territory (Country)
<input checked="" type="checkbox"/>	Customers (ID)	SalesVals (ID)
<input checked="" type="checkbox"/>	Order (OrderDate)	Sales (OrderDate)
<input checked="" type="checkbox"/>	Product ID (ProductID)	Product (ProductID)
<input checked="" type="checkbox"/>	Sales (CountryID)	CountryName (CountryID)
<input checked="" type="checkbox"/>	Sales (Order Date)	Budget (Date)
<input checked="" type="checkbox"/>	Sales (Order Date)	Calendar (Date)
<input checked="" type="checkbox"/>	Sales (ProductID)	Product (ProductID)
<input checked="" type="checkbox"/>	Territory (Country)	CountryName (Country)

Buttons at the bottom of the dialog box include New..., Autodetect..., Edit..., Delete, Close, and a large yellow 'OK' button.

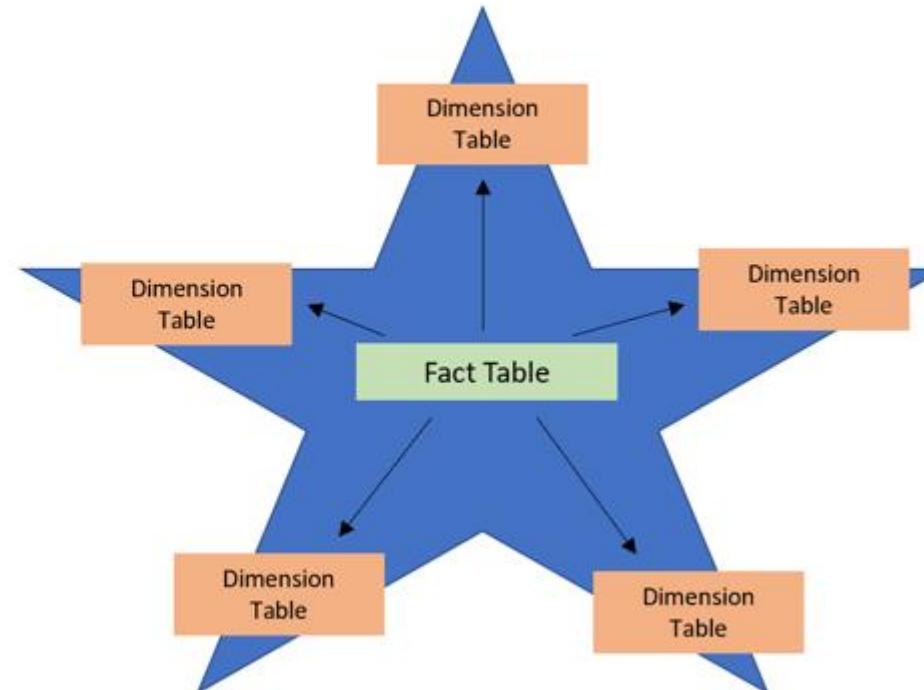
# Power BI Week 3

## Star Schemas



### Star Schemas

- Tables are classified as dimension or fact tables.
  - Dimension: Describes business entities.
  - Fact: Store observations or events.





# Components of a data model – Fact Table



## Fact Table

- Contains **Measures** (or items to be aggregated) of a business process

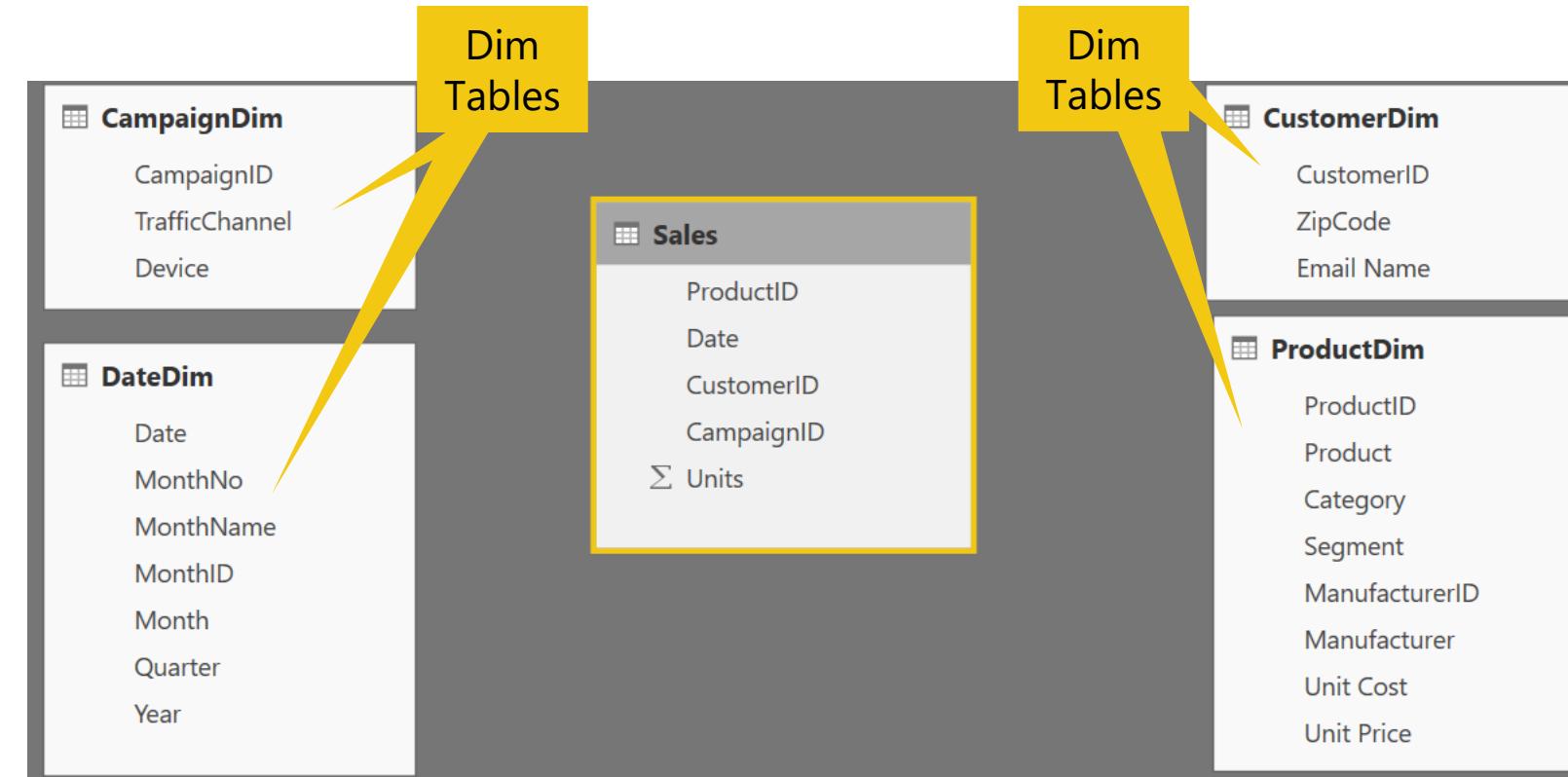
### Examples:

- Transactions
  - Sales Revenue
  - Units
  - Cost
- 
- Measures are usually sliceable.

Examples: By Month,  
By Customer



# Components of a data model – Dim Table



## Dim Table

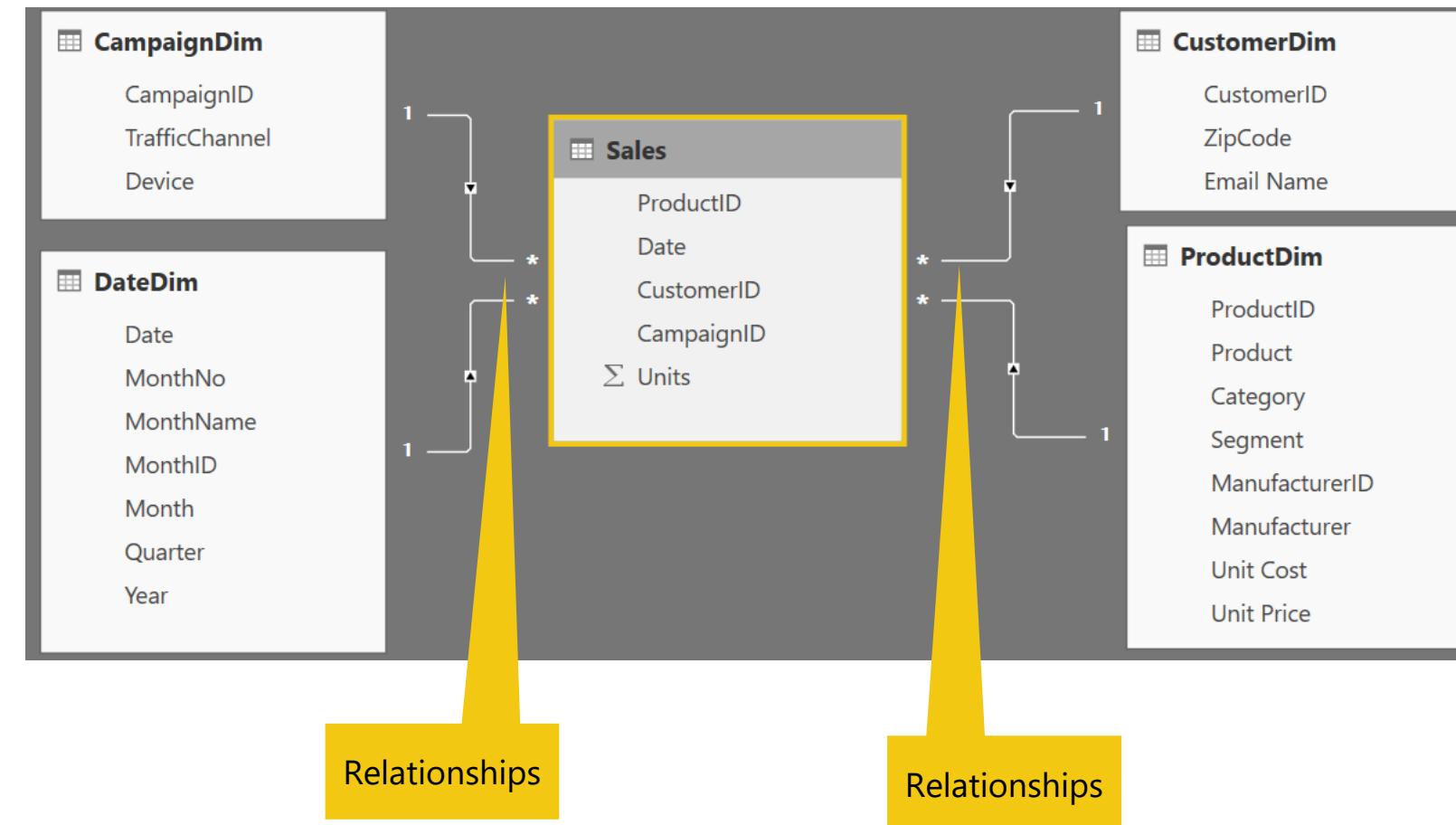
A Dim (or Dimension) table contains descriptive attributes that define how a fact should roll up.

## Examples:

By month, By Customer, By Geo



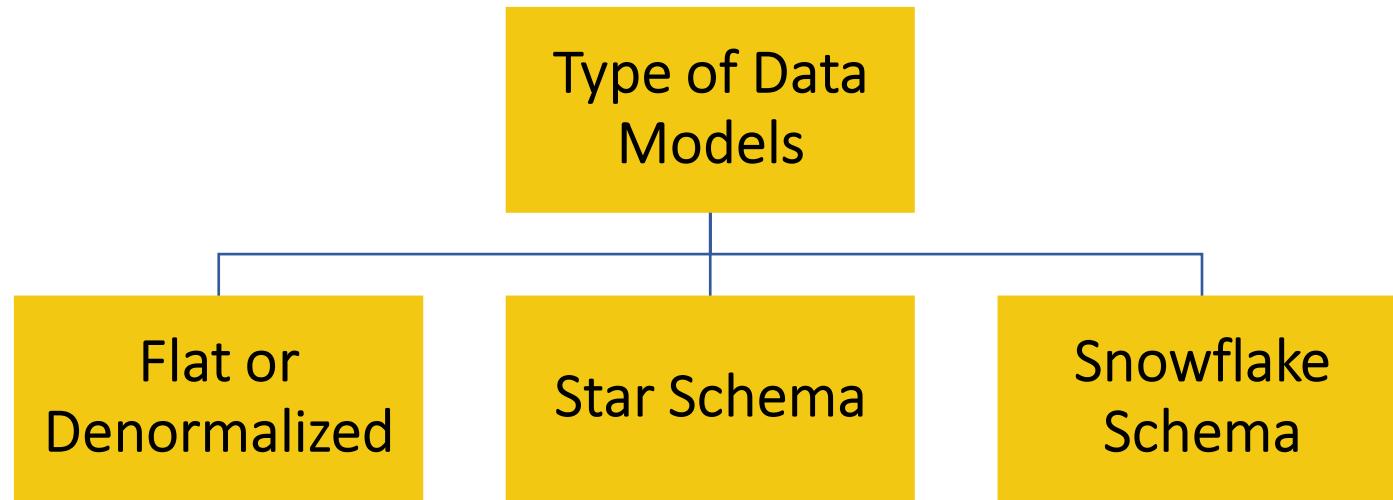
# Components of a data model - Relationships



## Relationships

- Connection between 2 tables (usually fact & Dim tables) using columns from each
- 3 kinds of Relationships
  - 1 to Many
  - 1 to 1
  - Many to Many  
(with a bridge table)

# Data Model Brings Facts and Dimensions Together



**Note:** This is not an exhaustive list, but are the most common model types used by Power BI.



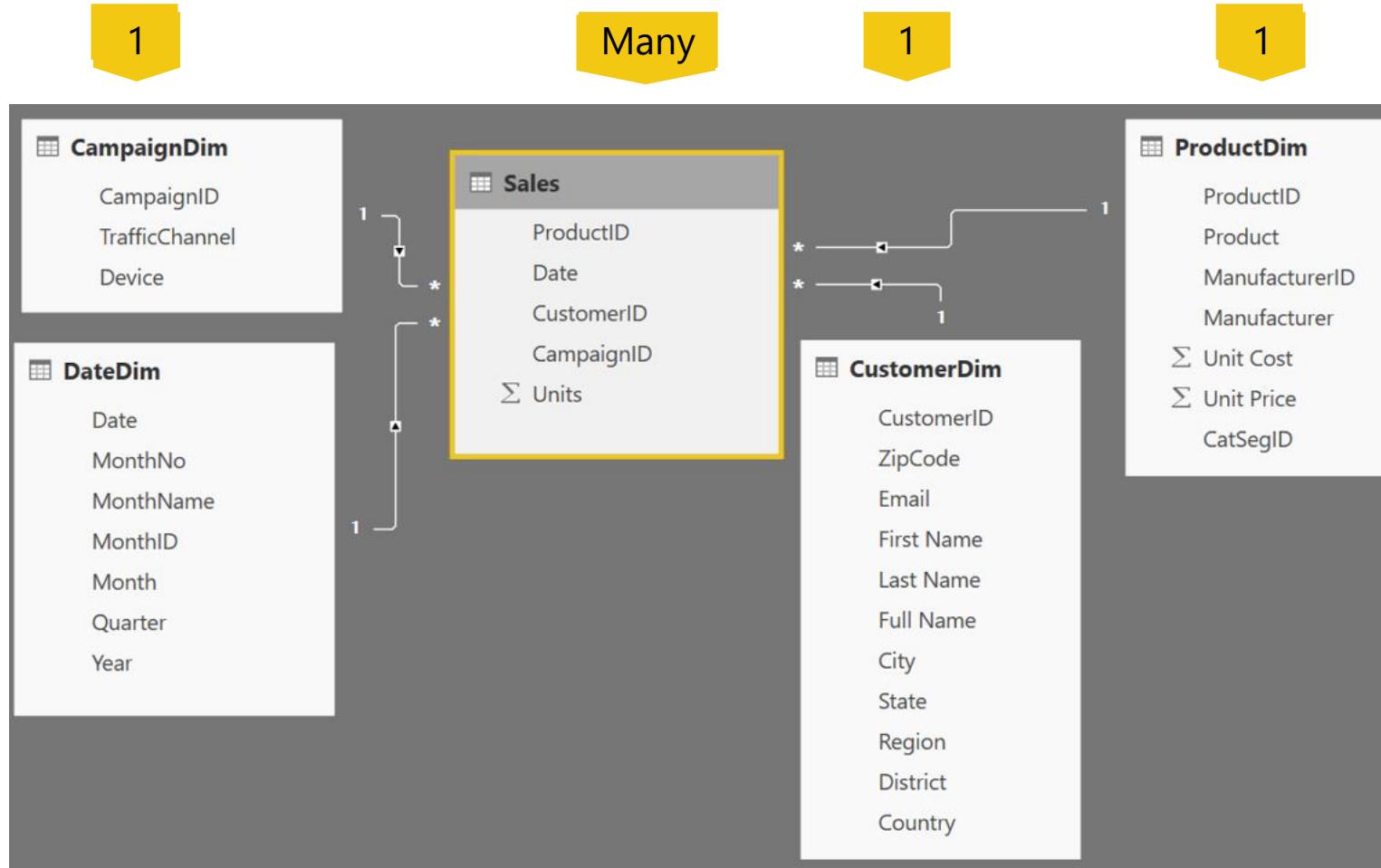
# Flat or Denormalized Schema

	1 <sup>2</sup> <sub>3</sub> ProductID	A <sup>B</sup> <sub>C</sub> Product	Date	1 <sup>2</sup> <sub>3</sub> CustomerID	A <sup>B</sup> <sub>C</sub> Email	A <sup>B</sup> <sub>C</sub> Last Name	A <sup>B</sup> <sub>C</sub> First Name	A <sup>B</sup> <sub>C</sub> Full Name	1 <sup>2</sup> <sub>3</sub> CampaignID	1 <sup>2</sup> <sub>3</sub> Units	1.2 CatSegID	
1	676	Maximus UC-41	9/25/2011	70283	Farrah.Kent@xyz...com	Kent	Farrah	Farrah Kent		22	1	10
2	585	Maximus UC-50	3/24/2014	70283	Farrah.Kent@xyz...com	Kent	Farrah	Farrah Kent		15	1	10
3	585	Maximus UC-50	11/30/2014	138334	Martha.Mcclain@xyz...com	Mcclain	Martha	Martha Mcclain		8	1	10
4	585	Maximus UC-50	6/21/2015	27193	Hedda.Mcintosh@xyz...com	Mcintosh	Hedda	Hedda McIntosh		22	1	10
5	585	Maximus UC-50	1/6/2013	238970	Lunea.Walker@xyz...com	Walker	Lunea	Lunea Walker		21	1	10
6	585	Maximus UC-50	3/22/2013	182241	Upton.Page@xyz...com	Page	Upton	Upton Page		17	1	10
7	449	Maximus UM-54	9/25/2011	195385	Drake.Wells@xyz...com	Wells	Drake	Drake Wells		22	1	4
8	449	Maximus UM-54	9/30/2014	168009	Wallace.Bender@xyz...com	Bender	Wallace	Wallace Bender		17	1	4
9	449	Maximus UM-54	8/12/2014	110391	Astra.Erickson@xyz...com	Erickson	Astra	Astra Erickson		20	1	4
10	449	Maximus UM-54	4/16/2014	49327	Echo.Bradley@xyz...com	Bradley	Echo	Echo Bradley		7	1	4
11	449	Maximus UM-54	2/28/2013	65952	Yoko.Gross@xyz...com	Gross	Yoko	Yoko Gross		17	1	4
12	449	Maximus UM-54	6/6/2013	97	Yoshi.Grant@xyz...com	Grant	Yoshi	Yoshi Grant		10	1	4
13	449	Maximus UM-54	5/14/2013	56757	Brian.Carrillo@xyz...com	Carrillo	Brian	Brian Carrillo		10	1	4
14	449	Maximus UM-54	4/9/2015	248715	Mark.Hewitt@xyz...com	Hewitt	Mark	Mark Hewitt		19	1	4
15	449	Maximus UM-54	4/28/2013	248715	Mark.Hewitt@xyz...com	Hewitt	Mark	Mark Hewitt		8	1	4
16	449	Maximus UM-54	3/28/2014	240831	Oscar.Avila@xyz...com	Avila	Oscar	Oscar Avila		18	1	4
17	449	Maximus UM-54	2/26/2014	201004	Duncan.Mcintosh@xyz...com	Mcintosh	Duncan	Duncan McIntosh		19	1	4
18	615	Maximus UC-80	5/14/2012	212645	Jacob.Santiago@xyz...com	Santiago	Jacob	Jacob Santiago		22	1	10
19	615	Maximus UC-80	5/14/2012	70666	Hilary.Coller@xyz...com	Collier	Hilary	Hilary Collier		22	1	10
20	615	Maximus UC-80	5/14/2012	114459	Chester.Mitchell@xyz...com	Mitchell	Chester	Chester Mitchell		22	1	10
21	615	Maximus UC-80	5/14/2012	221670	Sage.Yang@xyz...com	Yang	Sage	Sage Yang		22	1	10
22	615	Maximus UC-80	6/3/2012	168009	Wallace.Bender@xyz...com	Bender	Wallace	Wallace Bender		22	1	10
23	615	Maximus UC-80	6/3/2012	154439	Iliana.Dunlap@xyz...com	Dunlap	Iliana	Iliana Dunlap		22	1	10
24	615	Maximus UC-80	6/4/2012	191391	Joelle.Lee@xyz...com	Lee	Joelle	Joelle Lee		22	1	10

- All attributes for model exist in a single table
- Highly inefficient
- Model has extra copies of data > slow performance
- Size of a flat table can blow up really quickly as data model becomes complex



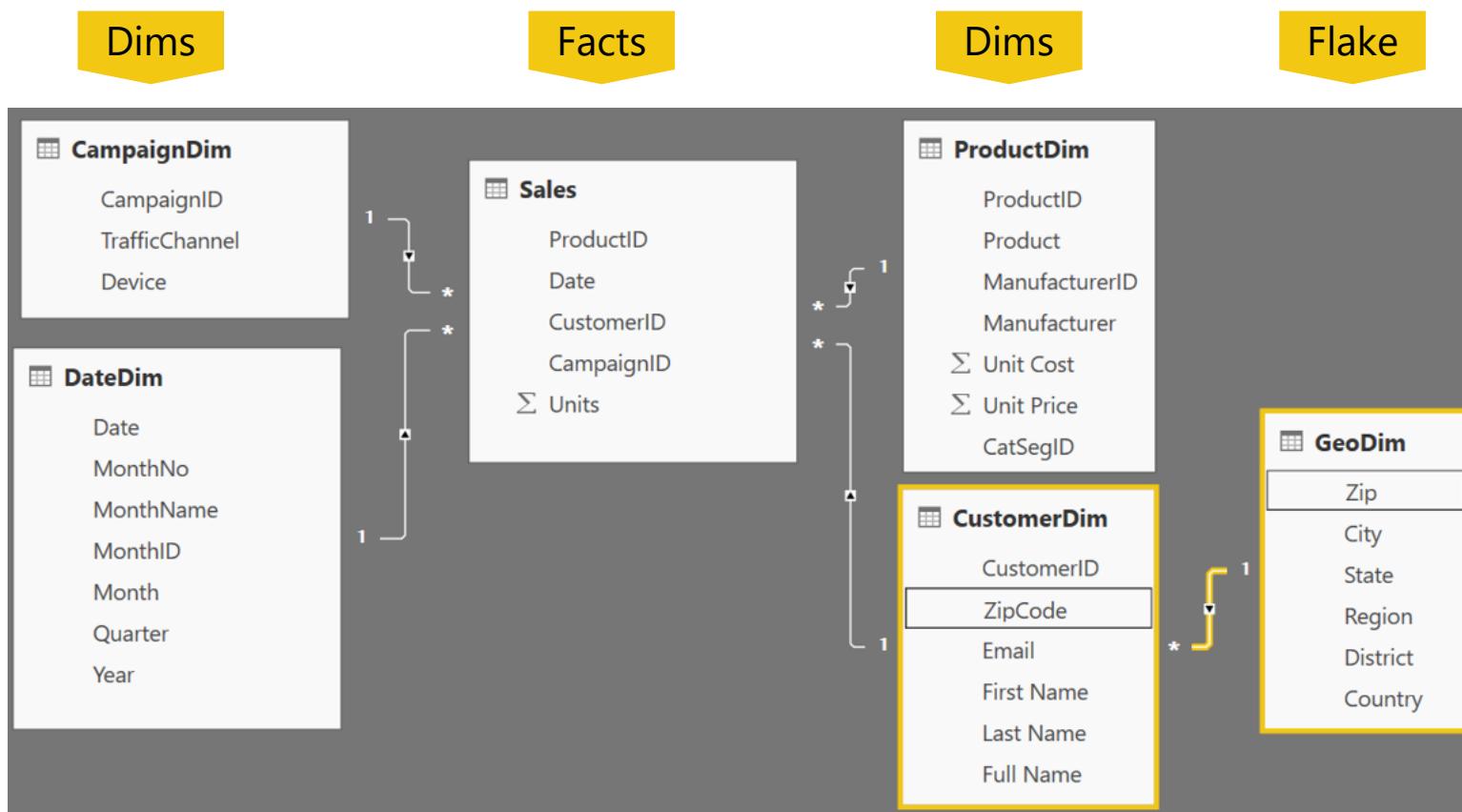
# Star Schema



- Fact table in the middle
- Surrounded by Dims
- Looks like a ‘Star’
- Fact table is the “Many” side of the (one to many) relationship



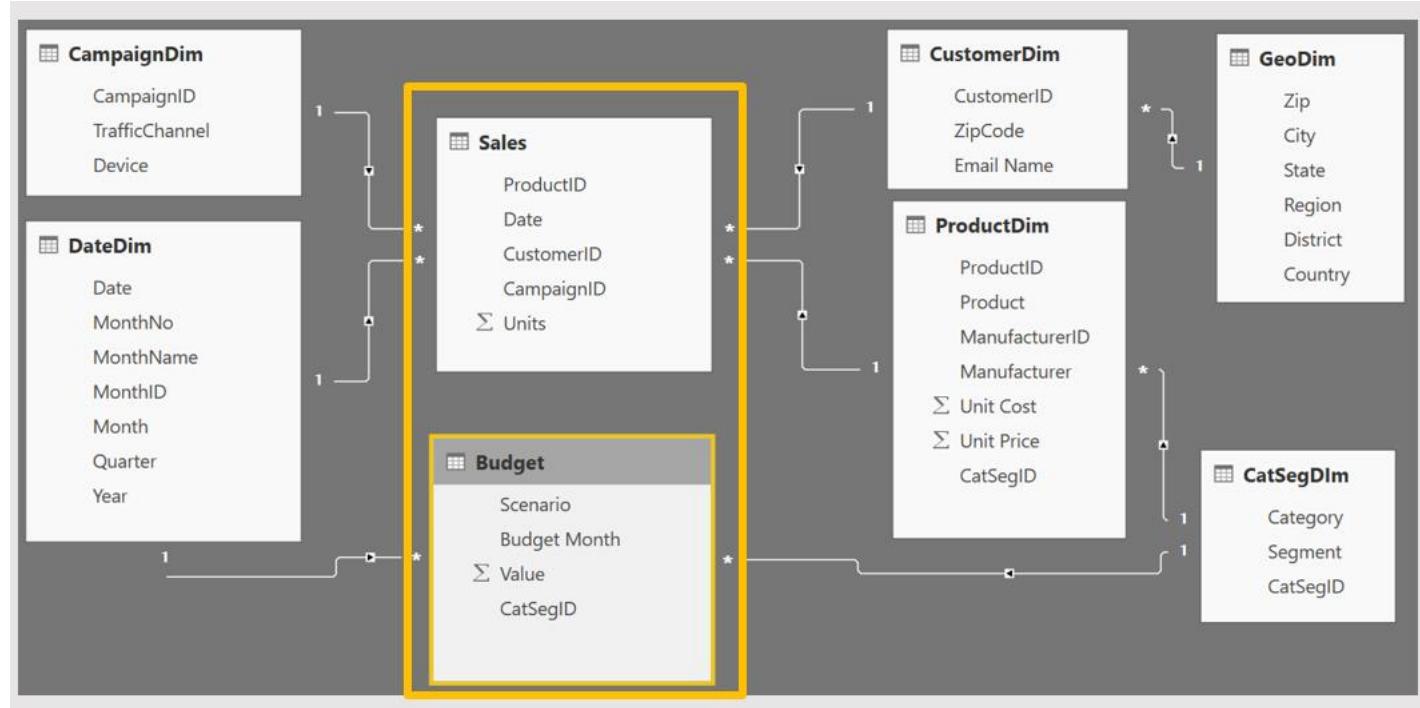
# Snowflake Schema



- Center is a Star schema
- Fact table in middle
- Surrounded by Dims
- Dims “snowflake” off of other Dims
- If you have many, it looks like a ‘Snowflake’
- Dim or Fact tables can be the “Many” side of the relationship



# Granularity & Multiple Fact Tables



Sales (Daily by Product)

Budget (Monthly by Product Category & Product Segment)

- Grain (**granularity**) measures the level of detail in a table
- Example:  
One row per order or per Item  
Daily or Monthly date grain
- If your facts have **very different granularities**, split them into **Multiple Fact** tables & connect them to shared dimensions at the lowest common granularity.

# Power BI Week 3

## Use Datamodel from Lesson 1

### DEMO

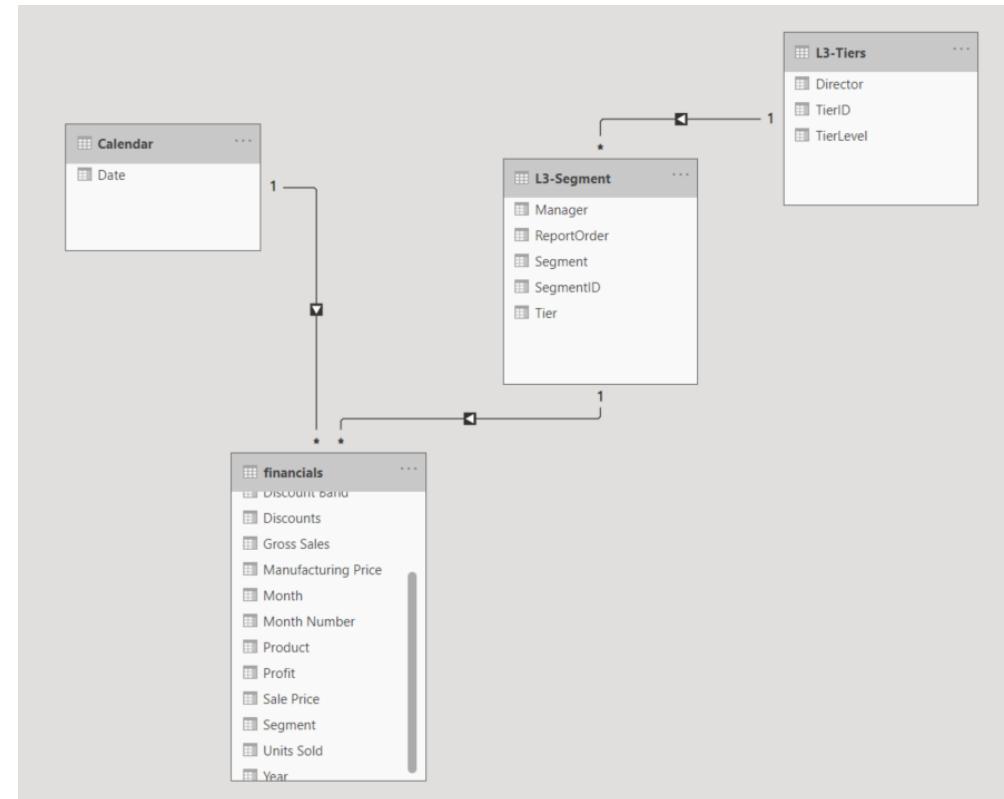
Add Segment & Tiers dimensions

Use web connector with Raw csv url from GitHub

Create Star Schema

Create a report with Dimensional data

Hide related fields in fact [financials](Segment)  
& in L3-Segment[Tier]



Segments: <https://raw.githubusercontent.com/wottabyte/PBITraining/master/10WeekPBIonline2021/L3-Segment.csv>

Tiers: <https://raw.githubusercontent.com/wottabyte/PBITraining/master/10WeekPBIonline2021/L3-Tiers.csv>

# Power BI Week 3

## Intro to DAX – Data Analysis Expressions

DAX is a library of functions & operators

Used to Calculated Columns, Measures & Calculated Tables.

Demo CC : Add to date table from lesson 1

DAX: Year

DAX: Month Number

DAX: FY = "FY" & YEAR('Calendar'[Date])

DAX: mmyyyy = FORMAT('Calendar'[Date], "mmm") & " " &  
RIGHT(YEAR('Calendar'[Date]), 2)

Datamodel fix month order by adding month number

Fix mmyyyy order by adding

yyyymm = 'Calendar'[year]\*100 + 'Calendar'[month number]

# Power BI Week 3

## Measures

Measures:

Demo Default summarization then

Demo Measure : Total Revenue = sum of Sales

Demo Calculate : Sales by a fixed Country = “France”

Demo Sales by Country

If time go onto Time Intelligence

Time Intelligence

Demo Sales Previous Year & TOTALYTD & %

More DAX: Userelationships, semi additive,

# Power BI Week 3

## Template

# Power BI Week 3 CourseWork

Monday 1<sup>st</sup> Feb 2021

- Microsoft Learn – ‘Model Data in Power BI’
- Module – ‘Design a data model in Power BI’
- Module – ‘Clean, transform and load data in Power BI’



## Model data in Power BI

4 hr 12 min remaining • Learning Path • 0 of 3 modules completed

Intermediate Data Analyst Power BI



### Design a data model in Power BI

49 min remaining • Module • 8 of 11 units completed

★★★★★ 4.8 (1,696)



### Introduction to creating measures using DAX in Power BI

2 hr 40 min remaining • Module • 0 of 10 units completed

★★★★★ 4.7 (1,296)



### Optimize a model for performance in Power BI

43 min remaining • Module • 0 of 8 units completed

★★★★★ 4.7 (1,535)

<https://docs.microsoft.com/en-us/learn/patterns/model-power-bi/>

# Lesson 3 of 10 Power BI free online training

# POWER BI BEGINNER DATAMODELLING TECHNIQUES

MONDAY 1<sup>st</sup> FEB  
17:00 GMT



# Q&A Workshop 3

# POWER BI BEGINNER DATAMODELLING TECHNIQUES

MONDAY 1<sup>st</sup> FEB  
17:00 GMT



# Power BI Week 3

## Template



# Lesson 4 of 10 Power BI Beginner

## Power BI Reports & configure charts

MONDAY 8<sup>th</sup> FEB  
17:00 GMT



Lesson 4 of 10 Power BI Beginner

# Power BI Reports & charts

MONDAY 8<sup>th</sup> FEB 17:00 GMT

# Power BI – LESSON 4 of 10

beginners free 10 weeks online training course



# Power BI Week 4

Monday 8<sup>th</sup> Feb 2021

Design & configure Power BI visuals like charts, maps & KPIs

- Hi & Intros: David, Conrad (get ready to scan Linkedin QR code)
- Logistics: Classroom course
- Recording on Youtube. Leave if not happy to be recorded
- Each week sign up on Meetup.com for the weekly event & Q&A workshop
- Each session will be a new Zoom link
- Questions into the chat or raise your hand
- 2 screens is better than 1.
- Microphones on mute

# Linkedin : QR Codes



**David Moss**

Solutions Architect - Azure | Power Platform | D365 | (SC Cleared)



**Conrad Moss**

Power BI Developer at Hamilton Insurance Group



# Microsoft Power BI Associate

## DA-100 Certification

docs.microsoft.com/en-us/learn/certifications/exams/da-100

 Microsoft | Docs Documentation Learn Q&A Code Samples 

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Docs / Learn / Browse Certifications / Exam DA-100: Analyzing Data with Microsoft Power BI - Learn

 Exam DA-100: Analyzing Data with Microsoft Power BI

<https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>

YOU Tube DA-100 : <https://www.youtube.com/watch?v=CI7hdjq0ZxI>

Workshop this eve at 21:00 – 22:00 GMT

Monday 8<sup>th</sup> Feb 2021

- **Q&A Workshop 4 - Power BI Beginner Training**
- <https://www.meetup.com/The-Power-BI-Apprentice/events/276167984/>

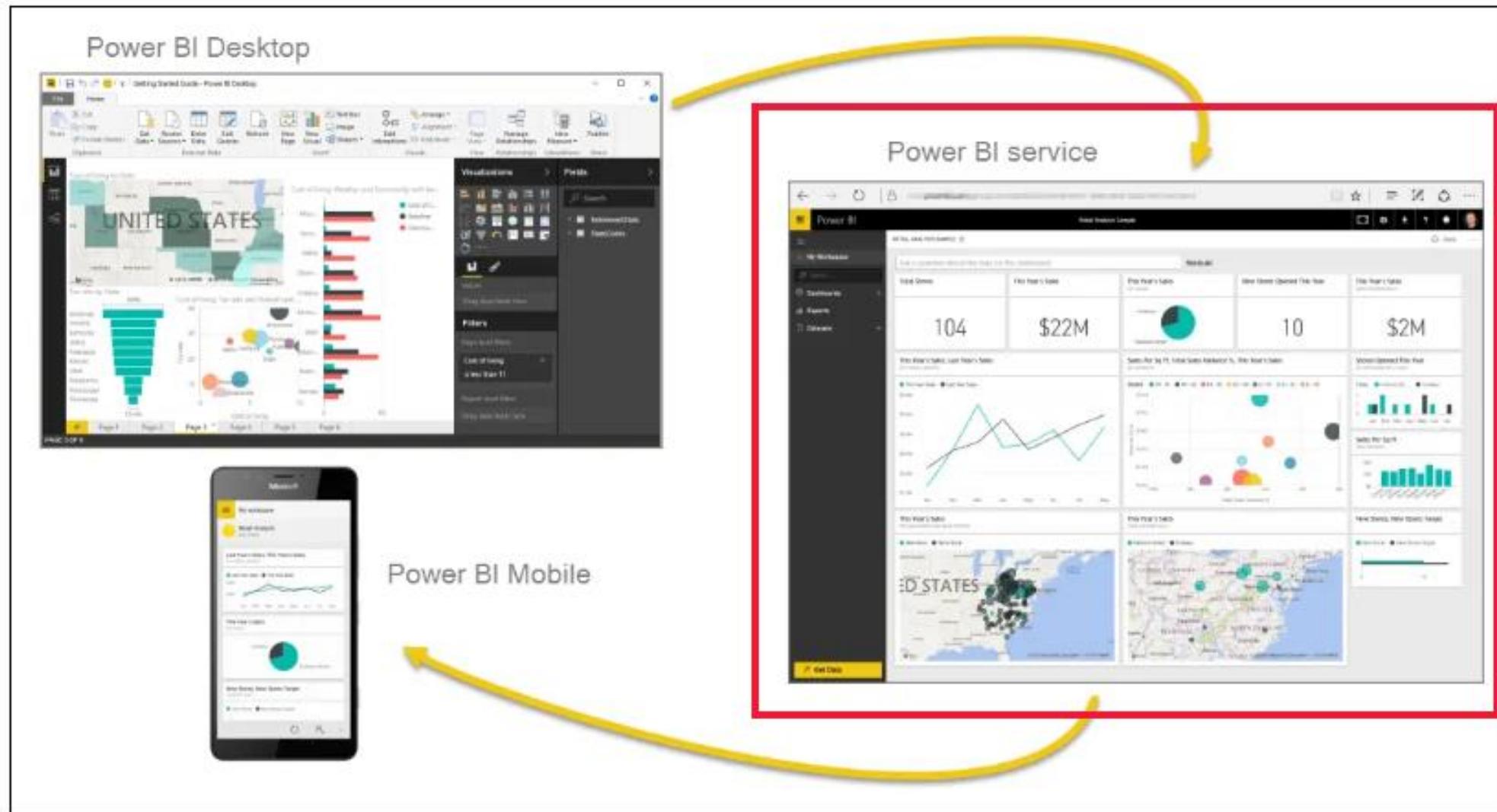


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# What is Power BI ?



# Power BI Last Week

## Did you do the CourseWork ?

- Microsoft Learn – ‘Model Data in Power BI’
- Module – ‘Design a data model in Power BI’
- Module – ‘Clean, transform and load data in Power BI’



### Model data in Power BI

4 hr 12 min remaining • Learning Path • 0 of 3 modules completed

Intermediate Data Analyst Power BI



### Design a data model in Power BI

49 min remaining • Module • 8 of 11 units completed

★★★★★ 4.8 (1,696)



### Introduction to creating measures using DAX in Power BI

2 hr 40 min remaining • Module • 0 of 10 units completed

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### Optimize a model for performance in Power BI

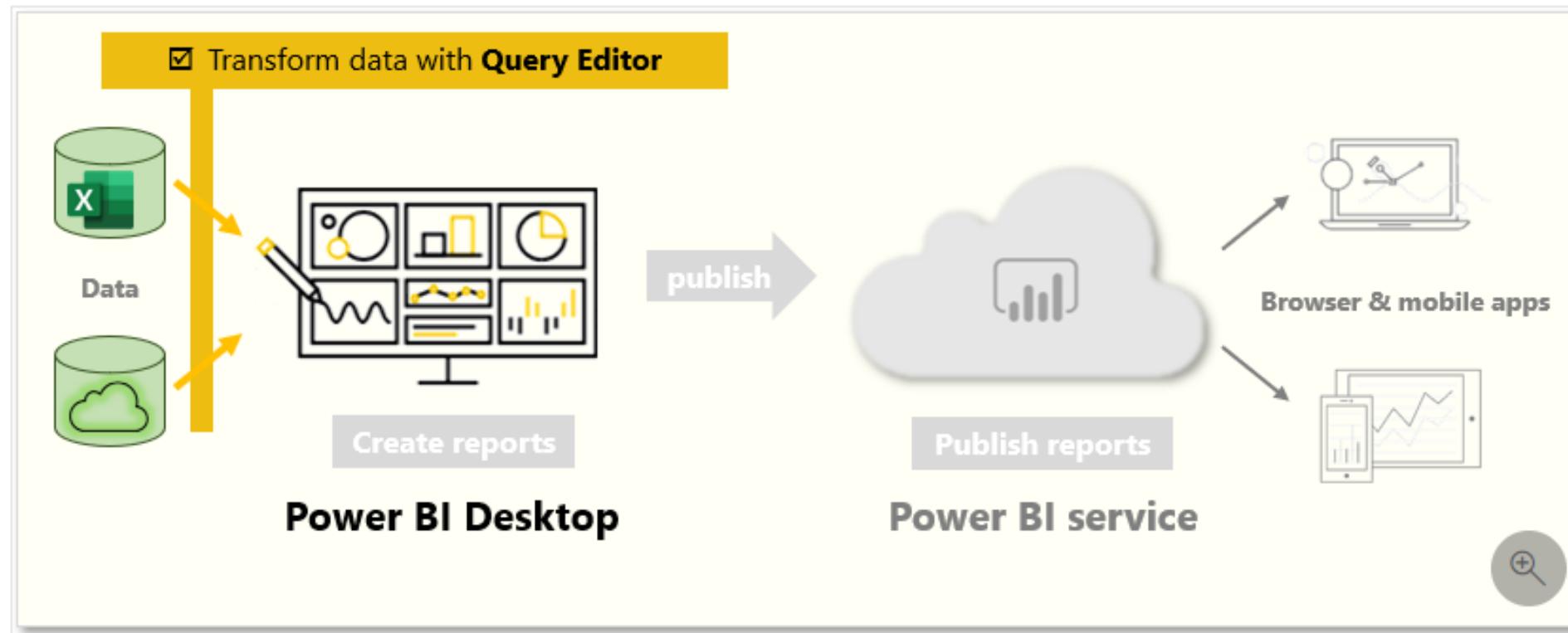
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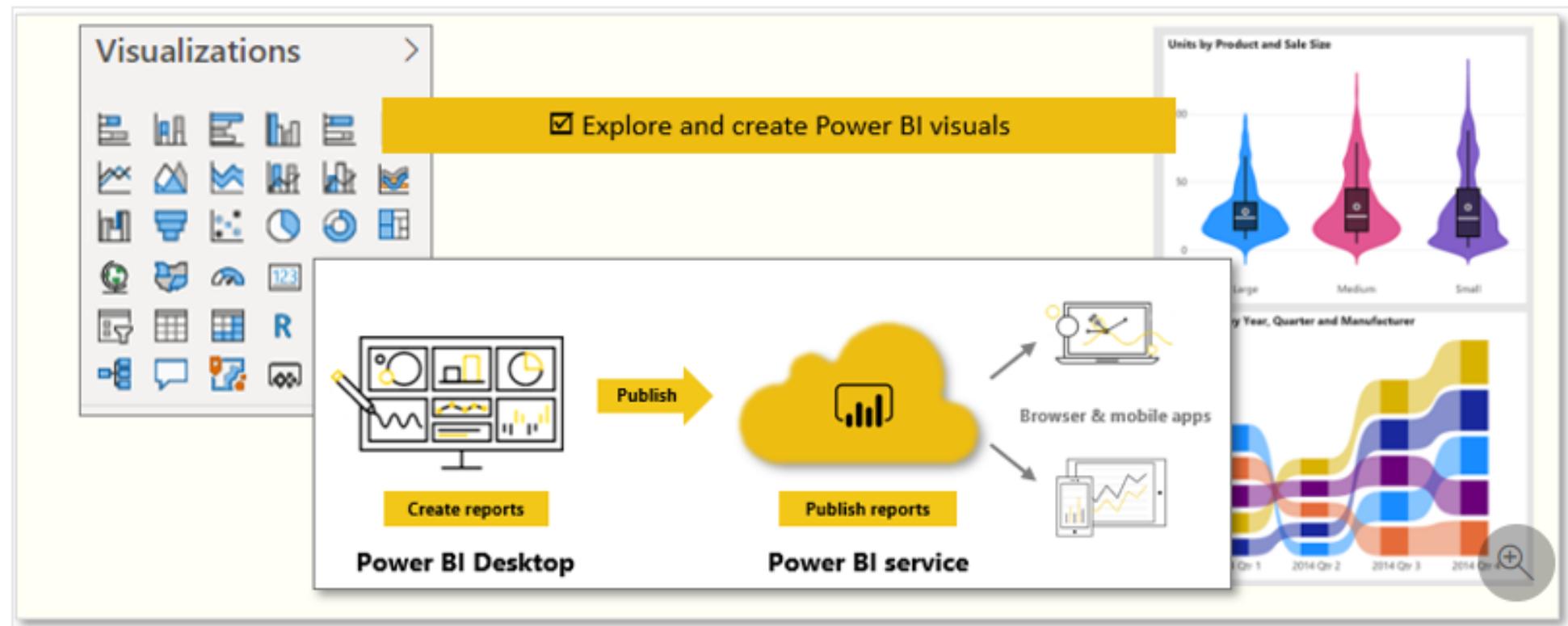
# Power BI Week 4

## Power BI Workflow



# Power BI Week 4

## Power BI Reports



# Quick Survey of audience

<https://forms.office.com/Pages/ResponsePage.aspx?id=WkuituyrDEaGarPmYT9Z1NvMNOjKOFdHsnEJjP6WpoNUREdYRjdPUUQ0SzIQVzYzUEdJSkVKV1U5Ni4u>

Student go to form and submit  
Trainer display live online results in Power BI dashboard



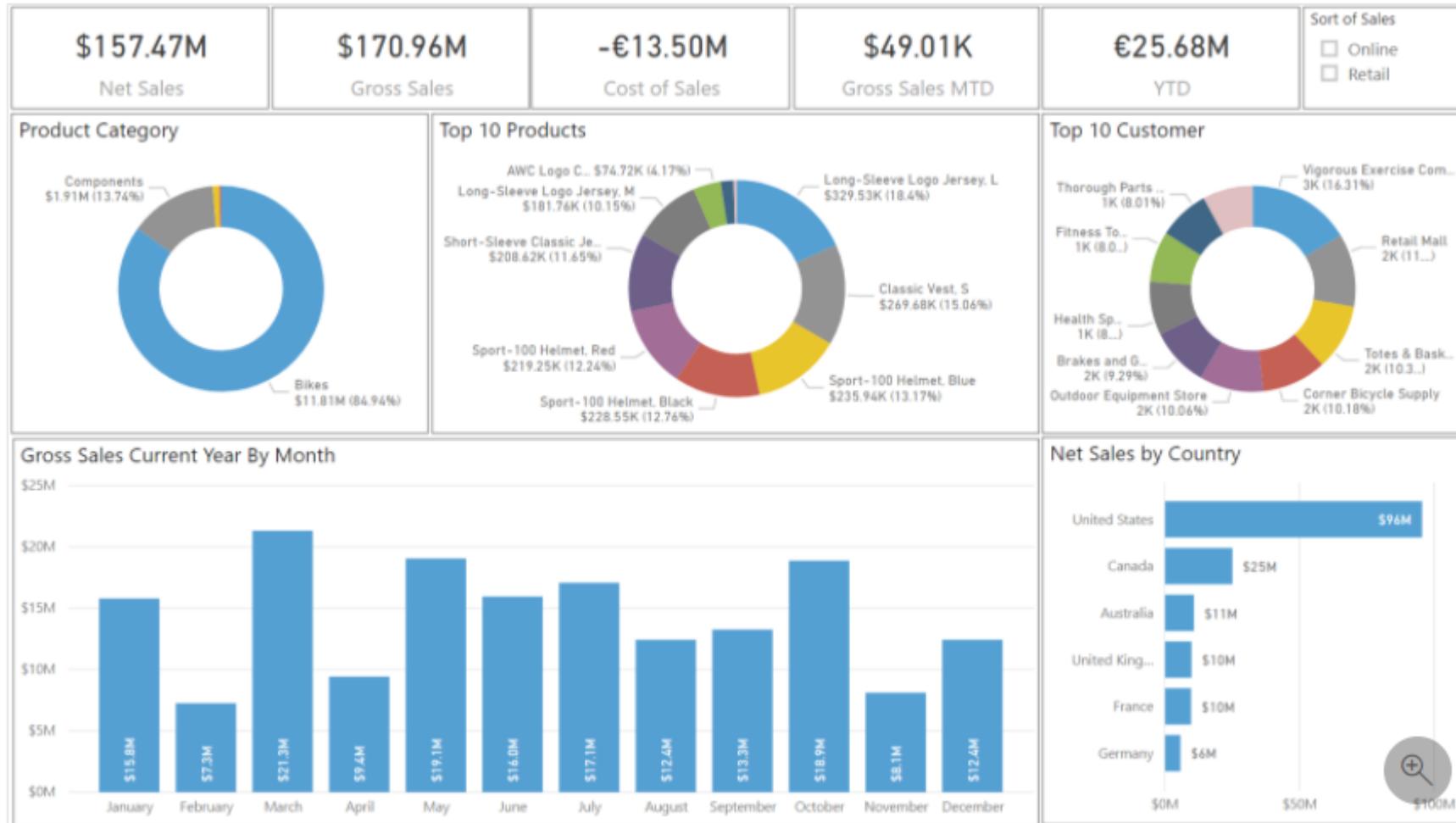
# Power BI Week 4

Before



# Power BI Week 4

After



# Power BI Week 4

## Visual types & formatting

Table & matrix visuals  
Bar & Column charts  
Line & Area  
Pie, Donut & Treemaps  
Combo charts  
Cards, multi-row card  
Funnel  
Gauge chart  
Waterfall  
Scatter chart  
Maps – (Arc GIS)  
Slicers  
Q&A



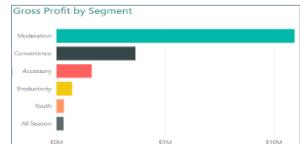
DEMO FILE with all visuals configured  
Format & configure visualizations: paintbrush



# Choose the Right Charts for the Right Purpose



*Comparison*



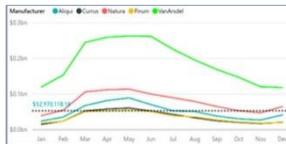
Stacked Bar

*Composition*



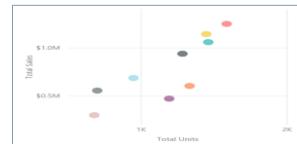
Tree

*Trend*



Line

*Distribution*



Scatter Plot

*Status*



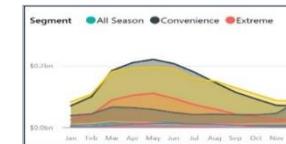
KPI

*Geographic*



Map

*Relationships*



Area

*Slicing/Filtering*



Date

Region

- Central
- East
- West

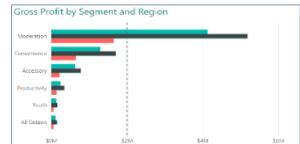
Segment

All

Product

- Maximus RP-01
- Maximus RP-02
- Maximus RS-01
- Maximus UC-00
- Maximus UC-01
- Maximus UC-02
- Maximus UC-03
- Maximus UC-04
- Maximus UC-05
- Maximus UC-06
- Maximus UC-07
- Maximus UC-08

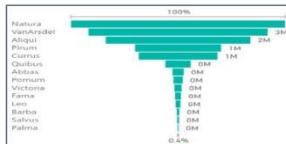
Clustered Bar



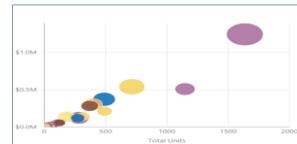
Pie



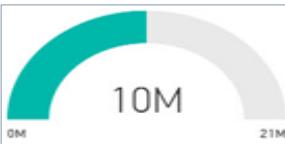
Funnel



Bubble



Gauge

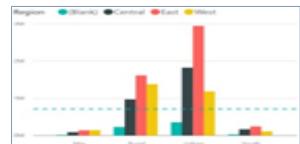


Filled Map

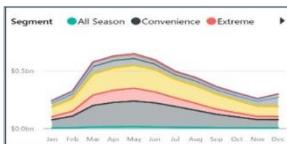


Bubble

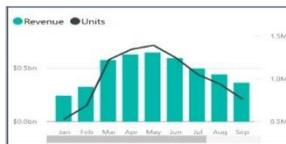
Clustered Column



Stacked Area



Line and Stacked Column



Map



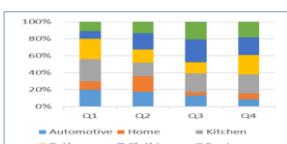
Multi-row Card



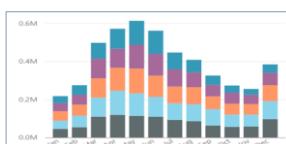
Table

Segment	Region	Units	Gross Profit
Moderation	Central	137,999	
Convenience	Central	67,391	
Accessory	Central	15,028	
Productivity	Central	12,443	
All Season	Central	6,155	
Youth	Central	5,849	
<b>Total</b>	<b>Central</b>	<b>244,865</b>	<b>\$6,525,172</b>

100% Stacked Column



Stacked Column



Card

Matrix

Category	Region	Product	Value
Category A	Region 1	Product 1	Value 1
Category A	Region 1	Product 2	Value 2
Category A	Region 2	Product 1	Value 3
Category A	Region 2	Product 2	Value 4
Category B	Region 1	Product 1	Value 5
Category B	Region 1	Product 2	Value 6
Category B	Region 2	Product 1	Value 7
Category B	Region 2	Product 2	Value 8
Category C	Region 1	Product 1	Value 9
Category C	Region 1	Product 2	Value 10
Category C	Region 2	Product 1	Value 11
Category C	Region 2	Product 2	Value 12
Category D	Region 1	Product 1	Value 13
Category D	Region 1	Product 2	Value 14
Category D	Region 2	Product 1	Value 15
Category D	Region 2	Product 2	Value 16
Category E	Region 1	Product 1	Value 17
Category E	Region 1	Product 2	Value 18
Category E	Region 2	Product 1	Value 19
Category E	Region 2	Product 2	Value 20

Water Fall



# Power BI Week 4

## More Visuals

Custom Visuals : Bullet Chart : view Appsource

Power BI Visuals

AppSource | My organization

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Add-ins may access personal and document information. By using an add-in, you agree to its Permissions, License Terms and Privacy Policy.

[Manage Cookies](#)

Sort by: Recommended ▾

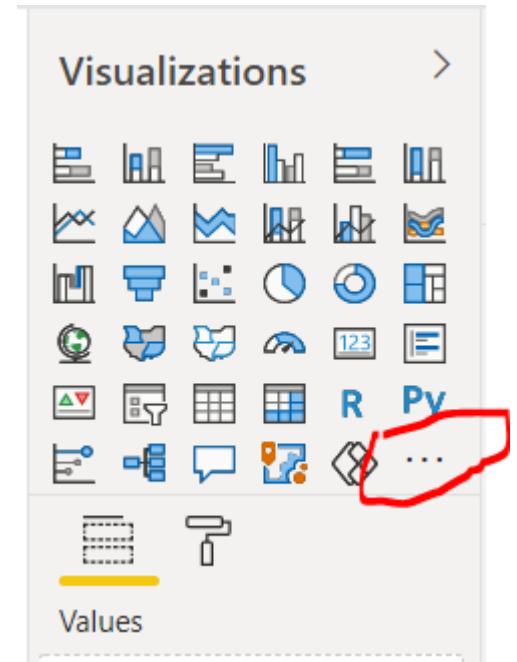
Search

Category Editor's Picks All

Bullet Chart A bar chart with extra visual elements to provide additional context. Useful for tracking goals

★★★★★

Add



Next week: Add user friendly report navigation features, slicers & tooltips

# Power BI Week 4

## Page Design Layout & Themes



Design with sketch (blank visuals) : layout

Configure report page : page info, size, wallpaper, background

Number of visuals

Position , align & Size

Titles

Data Labels

Markers (eg on lines)

# Original Report



MAIN KPIs

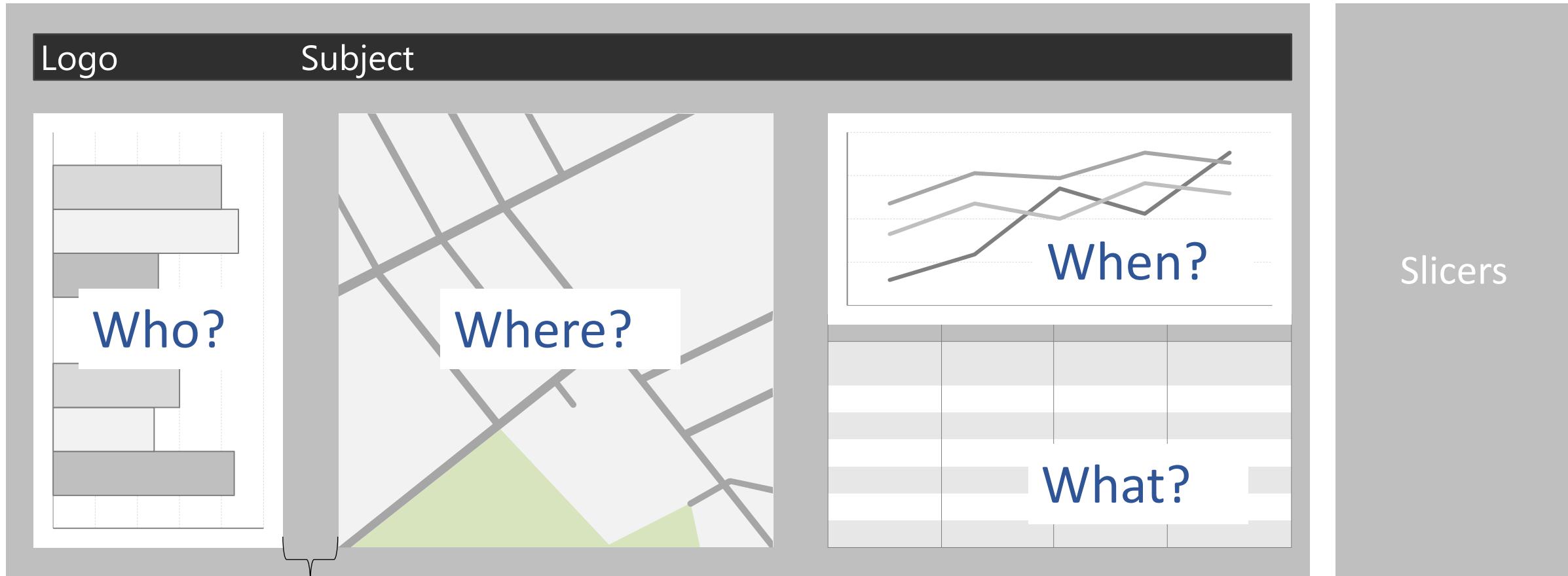
KPIs DETAILS

INDICATORS

PROPORTIONS

TIER 2

# Use Storyboarding to Design Report Layout



Control this space. If all objects tell the same story, use the same gap space. If some objects tell a different story, make the gap bigger

# Storyboarding Tools

The screenshot shows a Microsoft PowerPoint slide with a storyboard template. The slide has four columns: 'Logo' (containing a bar chart with 'Who?' text), 'Subject' (containing a map with 'Where?' text), 'When?' (containing a line chart), and 'What?' (containing a green area). A 'Slicers' placeholder is also present. The ribbon at the top has the 'Storyboarding' tab selected. A yellow arrow points from the 'Storyboard Shapes' button in the ribbon to the 'Storyboard Shapes' ribbon gallery window, which displays various icons for different shapes like charts, icons, and media.

Storyboard Shapes

Find more Storyboard Shapes online

My Shapes  
Annotation  
Backgrounds  
Common  
Icons  
Media

- Bar Chart (horizontal)
- Bar Chart (vertical)
- Image
- Line Chart
- Map Marker
- Pie Chart
- Play Controls
- Position Control
- Street Map

Windows App Icons  
Windows Apps  
Windows Desktop  
Windows Phone Icons  
Windows Phone

Install the Storyboarding Toolbar: <https://docs.microsoft.com/en-us/vsts/work/backlogs/office/storyboard-your-ideas-using-powerpoint>

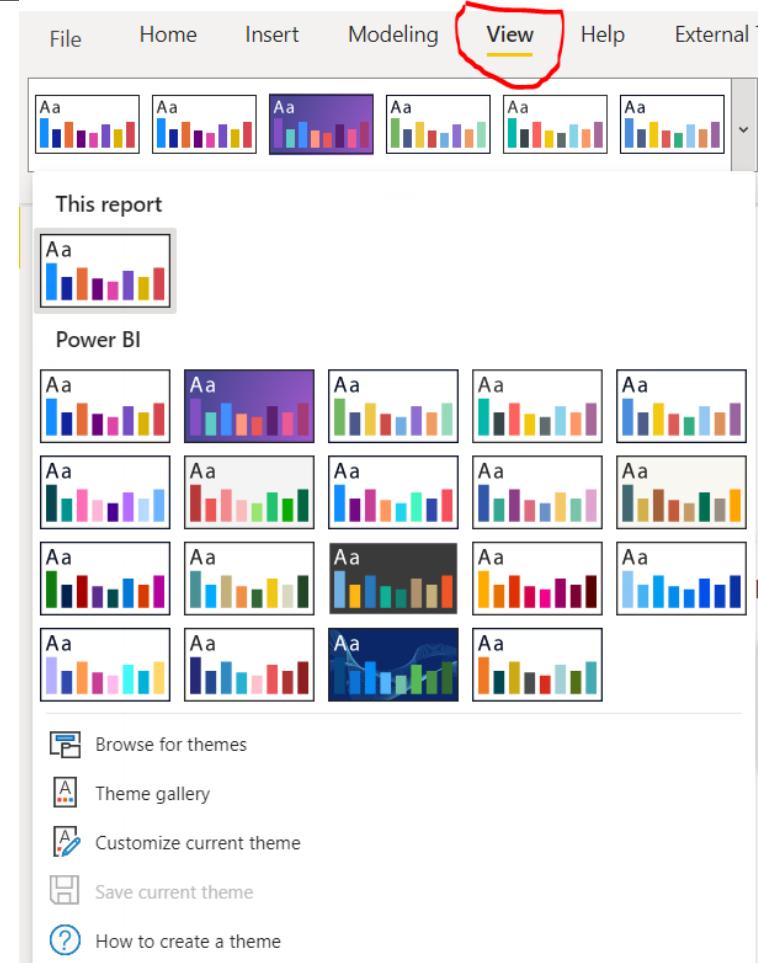
# Power BI Week 4

## Page Design Layout & Themes

Themes

Edit current theme

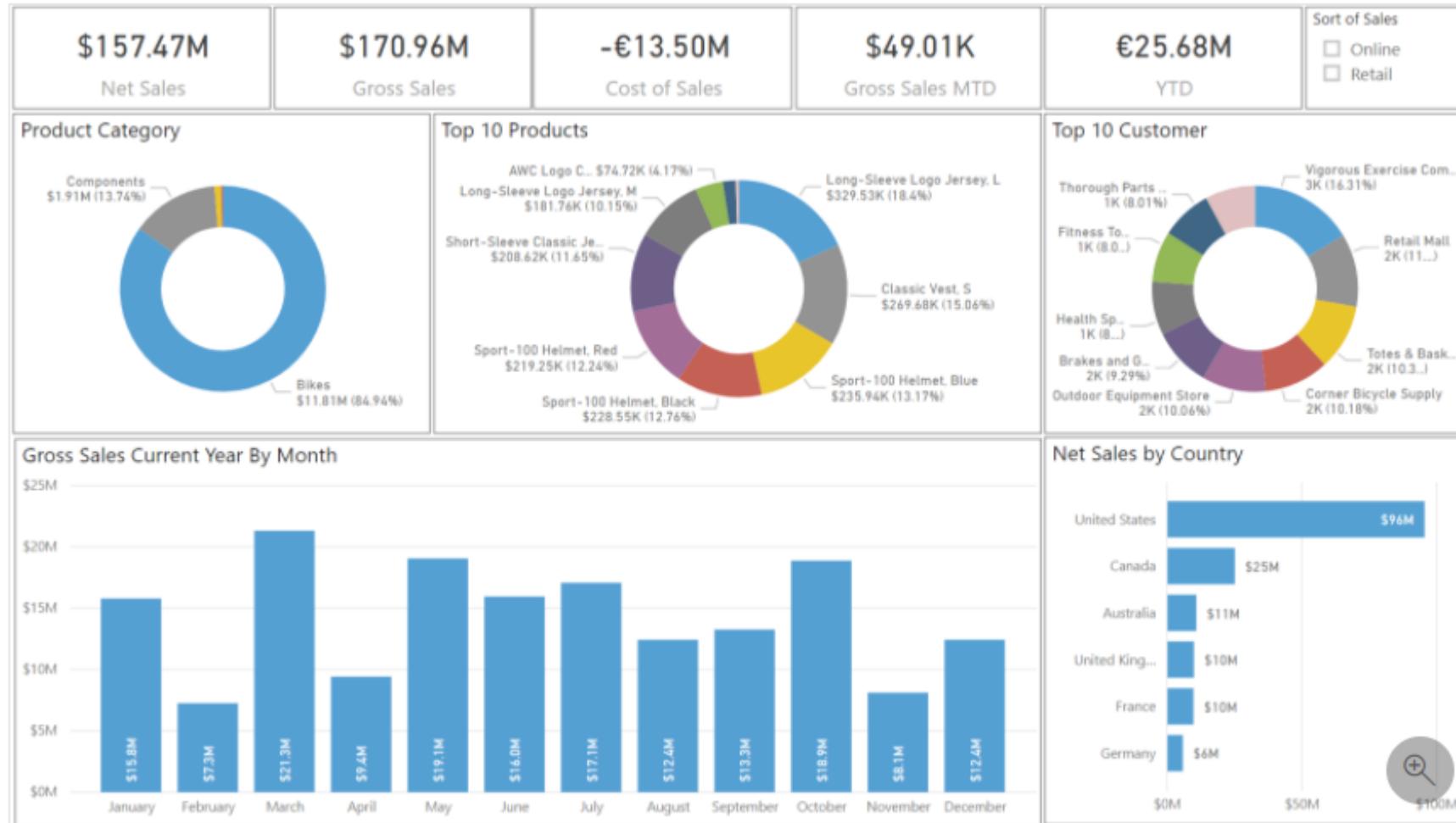
Import a theme .pbbit



<https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-report-themes>

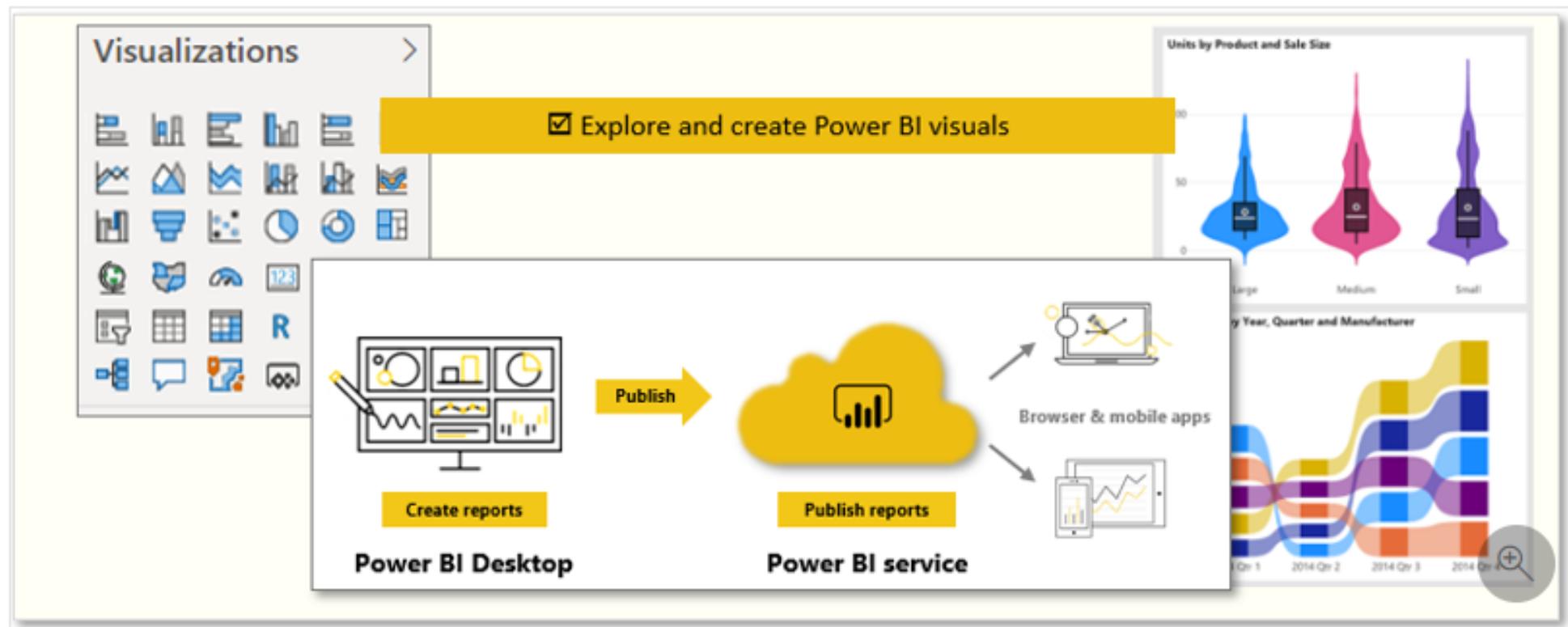
# Power BI Week 4

## Nearly finished your report



# Power BI Week 4

## Publish reports to the Power BI Service

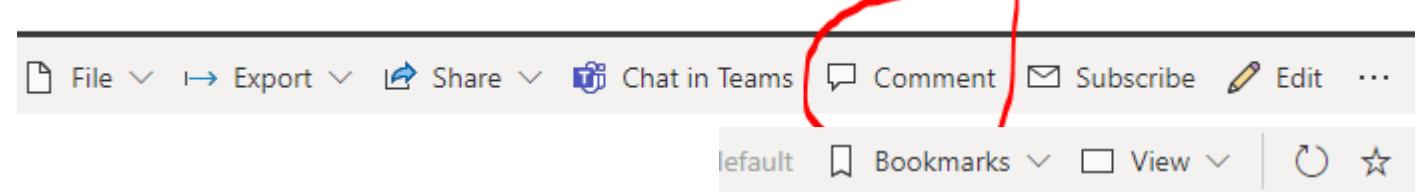


# Power BI Week 4

## Report in Service



Power BI DA-100 2021 10 week online



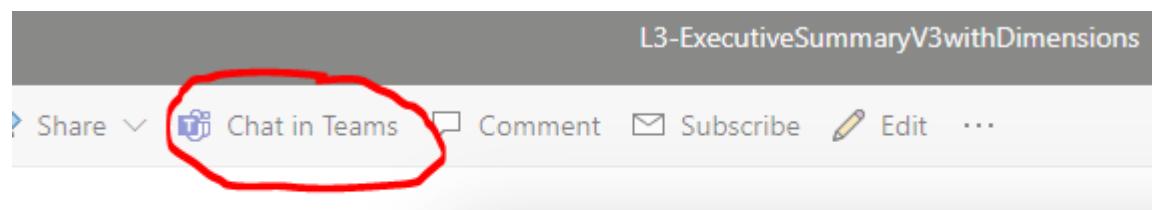
View report in Service

Comment on reports

Interact with visual in the PBI service

...

Chat in teams, add a comment.



L3-ExecutiveSummaryV3withDimensions |

Share ▾ Chat in Teams Comment Subscribe Edit ...

Share to Microsoft Teams

Share to

Wottabyte Limited > General

Sales SPLY	Sales TotalYTD
53	2,450,598.53
28	11,440,034.91

Comments

L3-EXECUTIVESUMMARYV3WITHDIMENSIONS

Previous Next

Enter your comments here, and @mention people to grab their attention.

Post

David Moss now  
Did you understand this DAX ?

Reply

# Power BI Week 4 CourseWork

Monday 8<sup>th</sup> Feb 2021

- Microsoft Learn – ‘Visualize data in Power BI’
- Module – ‘Work with Power BI visuals’
- Keen ? Module – ‘Create a data driven story with Power Bi reports. Try it in prep for Week 5



## Visualize data in Power BI

5 hr 4 min remaining • Learning Path • 0 of 4 modules completed

Intermediate Data Analyst Power BI



### Work with Power BI visuals

1 hr 12 min remaining • Module • 1 of 10 units completed

★★★★★ 4.6 (1,111)



### Create a data-driven story with Power BI reports

1 hr 44 min remaining • Module • 0 of 15 units completed

★★★★★ 4.6 (946)

<https://docs.microsoft.com/en-us/learn/patterns/visualize-data-power-bi/>

# Microsoft Power BI Associate

## DA-100 Certification

docs.microsoft.com/en-us/learn/certifications/exams/da-100

 Microsoft | Docs Documentation Learn Q&A Code Samples 

Learn Products Roles Learn TV Certifications Certifications FAQ & Help LE

Docs / Learn / Browse Certifications / Exam DA-100: Analyzing Data with Microsoft Power BI - Learn

 Exam DA-100: Analyzing Data with Microsoft Power BI

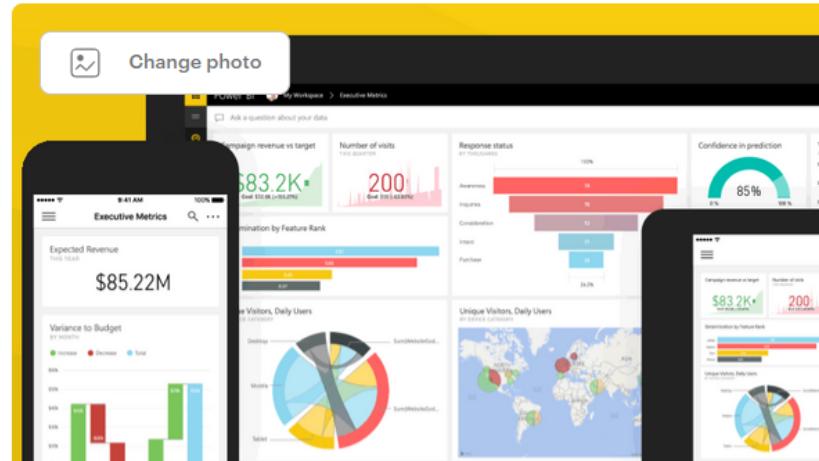
<https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>

YOU Tube DA-100 : <https://www.youtube.com/watch?v=CI7hdjq0ZxI>

# Social Media : Meetup , LinkedIn, YouTube

[meetup.com/The-Power-BI-Apprentice](https://www.meetup.com/The-Power-BI-Apprentice)

**Meetup** [Start a new group](#)



**The Power BI Apprentice**

London, United Kingdom · 517 members · Public group

Organized by David Moss

Share: [f](#) [t](#) [in](#)

**@wottabyte**

**wottabyte**

**www.wottabyte.com**

# You Tube

<https://www.youtube.com/channel/UCDtmmwK3YxWqzDNZ5L3pdMw>  
<https://youtu.be/dW08MYqbJ7k>

A screenshot of the wottabyte YouTube channel homepage. The channel banner features the wottabyte logo (three vertical bars in dark blue and orange) and the text "wottabyte" in large dark blue letters, with "your data partner" in smaller orange text below it. The main navigation bar includes links for HOME (underlined), VIDEOS, PLAYLISTS, CHANNELS, DISCUSSION, ABOUT, and a search icon. Below the navigation, there are two video thumbnails: "Power BI Datamodel star schema" (3:16, 3 views, 5 days ago) and "70 778 London Power BI Training" (0:20, No views, 5 days ago). Two blue buttons at the top right are labeled "CUSTOMISE CHANNEL" and "MANAGE VIDEOS".

wottabyte  
No subscribers

HOME VIDEOS PLAYLISTS CHANNELS DISCUSSION ABOUT

Uploads ► PLAY ALL

Power BI Datamodel star schema 3:16 3 views • 5 days ago

70 778 London Power BI Training 0:20 No views • 5 days ago

Workshop this eve at 21:00 – 22:00 GMT

Monday 8<sup>th</sup> Feb 2021

- **Q&A Workshop 4 - Power BI Beginner Training**
- <https://www.meetup.com/The-Power-BI-Apprentice/events/276167984/>



# Power BI

beginners free 10 weeks online training course

- Week 1: Monday 18<sup>th</sup> Jan 2021 : Introduction to Power BI and your first Power BI report.
- Week 2: Monday 25<sup>th</sup> Jan 2021 : Use Power Query Editor to get data & prepare your data.
- Week 3: Monday 1<sup>st</sup> Feb 2021 : Use Power BI desktop to structure & create datamodels.
- Week 4: Monday 8<sup>th</sup> Feb 2021 : Design & configure Power BI visuals like charts, maps & KPIs.
- Week 5: Monday 15<sup>th</sup> Feb 2021 : Add user friendly report navigation features, slicers & tooltips.
- Week 6: Monday 22<sup>nd</sup> Feb 2021: Publish & share Power BI reports & dashboards.
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# NEXT WEEK : Power BI Week 5

15<sup>th</sup> February

Add user friendly report navigation features, slicers & tooltips.

Watch email & social media channels when event goes live 2 register.

Lesson 5 of 10 Power BI Beginner

## Power BI user friendly reports

MONDAY 15<sup>th</sup> FEB 17:00 GMT

# Coursework Lesson 4 of 10 Power BI Beginner

## Power BI Reports & configure charts

Coursework  
explained



# NEXT WEEK : Power BI Week 5

15<sup>th</sup> February

Add user friendly report navigation features, slicers & tooltips.

Watch email & social media channels when event goes live 2 register.

Lesson 5 of 10 Power BI Beginner

## Power BI user friendly reports

MONDAY 15<sup>th</sup> FEB 17:00 GMT

Lesson 5 of 10 Power BI Beginner

# Power BI user friendly reports

MONDAY 15<sup>th</sup> FEB 17:00 GMT

Use for LinkedIn Events publicity

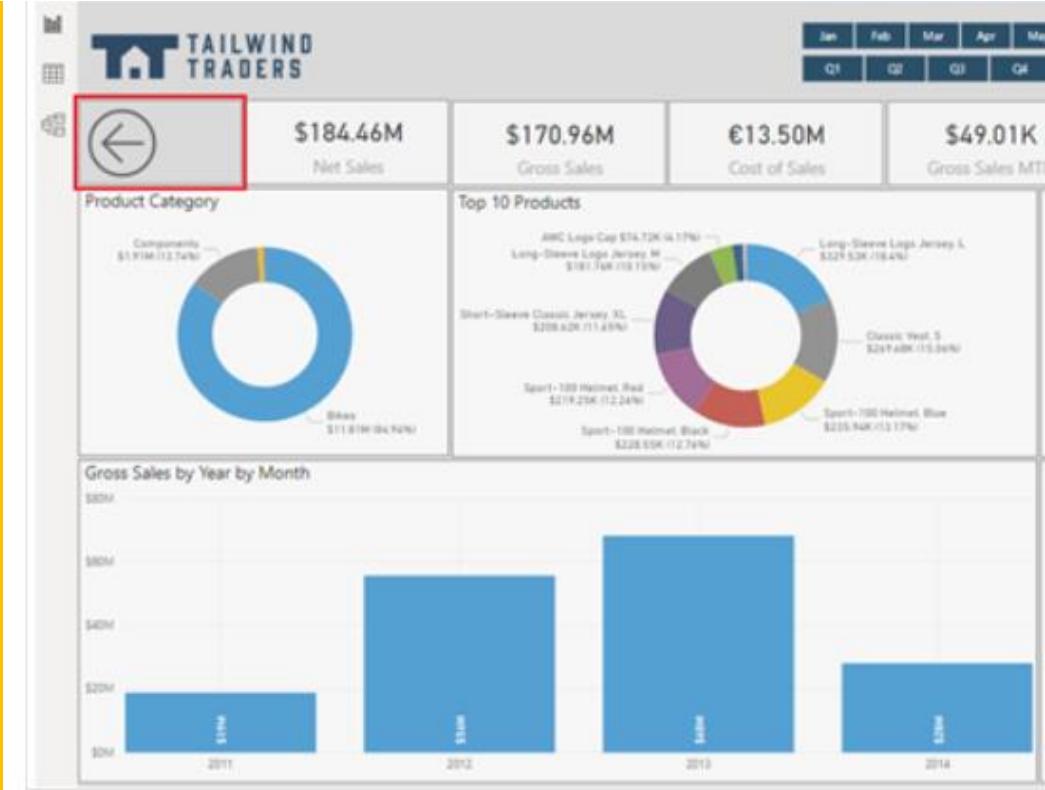
Power BI Beginner - NOW

# Power BI Q&A Workshop

MONDAY 15<sup>th</sup> FEB 21:00 GMT

# Lesson 5 of 10 Power BI Beginner

## Power BI navigation, buttons, drillthrough



MONDAY 15<sup>th</sup> FEB 17:00 GMT

# Power BI – LESSON 5 of 10

beginners free 10 weeks online training course



# Power BI Week 5

Monday 15<sup>th</sup> Feb 2021

Add user friendly report navigation features, slicers & tooltips.

- Hi & Intros: David, Conrad (get ready to scan Linkedin QR code)
- Logistics: Classroom course
- Recording on Youtube. Leave if not happy to be recorded
- Each week sign up on Meetup.com for the weekly event & Q&A workshop
- Each session will be a new Zoom link
- Questions into the chat or raise your hand
- 2 screens is better than 1.
- Microphones on mute

# Linkedin : QR Codes



**David Moss**

Solutions Architect - Azure | Power Platform | D365 | (SC Cleared)



**Conrad Moss**

Power BI Developer at Hamilton Insurance Group



# Microsoft Power BI Associate

## DA-100 Certification

docs.microsoft.com/en-us/learn/certifications/exams/da-100

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Docs / Learn / Browse Certifications / Exam DA-100: Analyzing Data with Microsoft Power BI - Learn

 Exam DA-100: Analyzing Data with Microsoft Power BI

<https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>

YOU Tube DA-100 : <https://www.youtube.com/watch?v=CI7hdjq0ZxI>

Workshop this eve at 21:00 – 22:00 GMT

Monday 15<sup>th</sup> Feb 2021

- **Q&A Workshop 5 - Power BI Beginner Training**
- <https://www.meetup.com/The-Power-BI-Apprentice/events/276303046/>

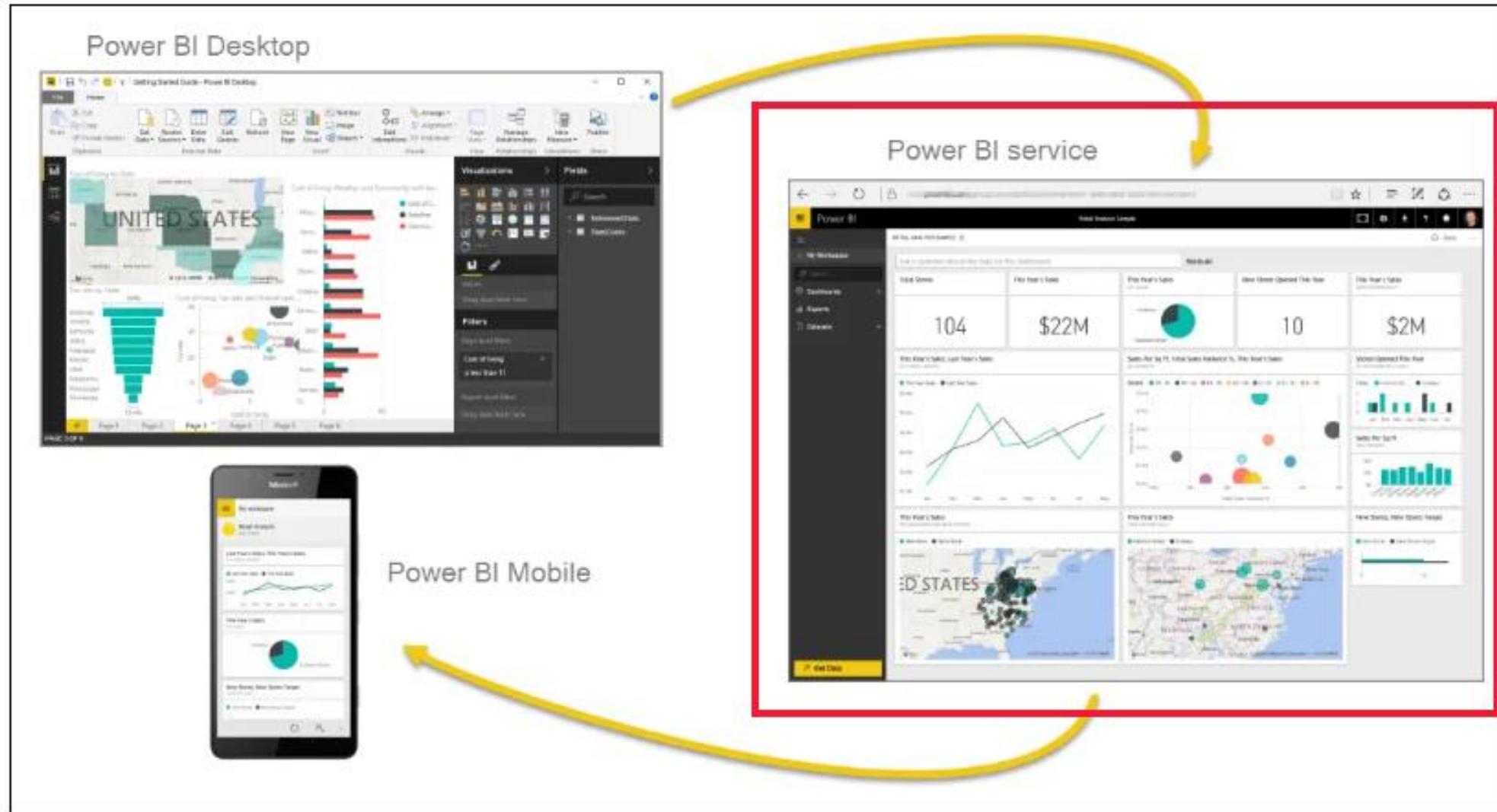


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- Week 10: Monday 22<sup>nd</sup> March 2021: Power BI at work with workspaces, datasets & security.

# What is Power BI ?



# Power BI Week 5

Add user friendly report navigation features, slicers & tooltips.

Use Power BI features to tell a Story:  
So much will split it over 2 weeks

Conditional formatting  
Report Navigation with buttons  
Drillthrough

Edit interactions  
Slicer, filter & sorting

Sync slicers  
Bookmark and Selection panel  
Custom tooltips

# Power BI Week 5

## Conditional Formatting

Conditional Formatting – show where and then see other slides for formatting techniques.  
Demo on CY-SPLY

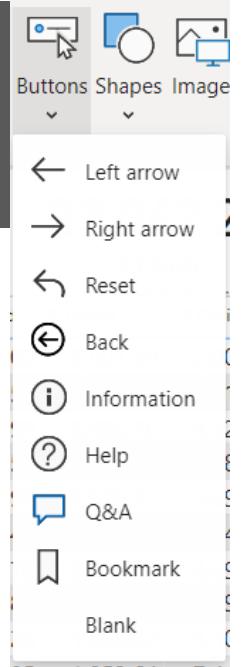
### Configure Conditional Formatting

The screenshot shows the 'Background color - SalesAmount' dialog box in Power BI desktop. The dialog includes fields for 'Format by' (Color scale), 'Apply to' (Values only), 'Based on field' (Sum of SalesAmount), 'Summarization' (Sum), 'Default formatting' (As zero), 'Minimum' (Lowest value), 'Maximum' (Highest value), and a color gradient bar. A red arrow points from the 'Advanced controls' section of the dialog to a red box highlighting the 'Background color' option in the table's conditional formatting pane. The table visualization shows data for France, Germany, USA, and Total, with background colors applied based on the SalesAmount values.

Region	SalesAmount
France	\$1,693,909.04
Germany	\$485,155.88
USA	\$1,250,085.09
Total	\$3,429,150.01

# Power BI Week 5

## Report Navigation with Buttons



Buttons : feels more like an app

Navigation : story telling good for App like navigation

Selections : hide & view & layer visuals

Demo:

Add a button, change action to 'Navigation' (back, bookmark, drillthrough, navigation, Q&A, weburl)

Advanced bonus : Create a button with measure to drive different page destinations (based on table column & slicer)

<https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-buttons>

# Power BI Week 5

## Drillthrough



Drillthrough : high level drillthrough of an entity to a detailed report.

Advanced

Cross-report drillthrough (source & target) - configure your report to be the source.

File>Options&Settings>Options>ReportSettings set to 'Allow' visuals in this.....

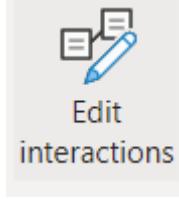
Next in target report set page report settings to Cross Report is On and populate fields value.

User can select Drillthrough : Page Name [ Report Name]



# Power BI Week 5

## Edit Interactions

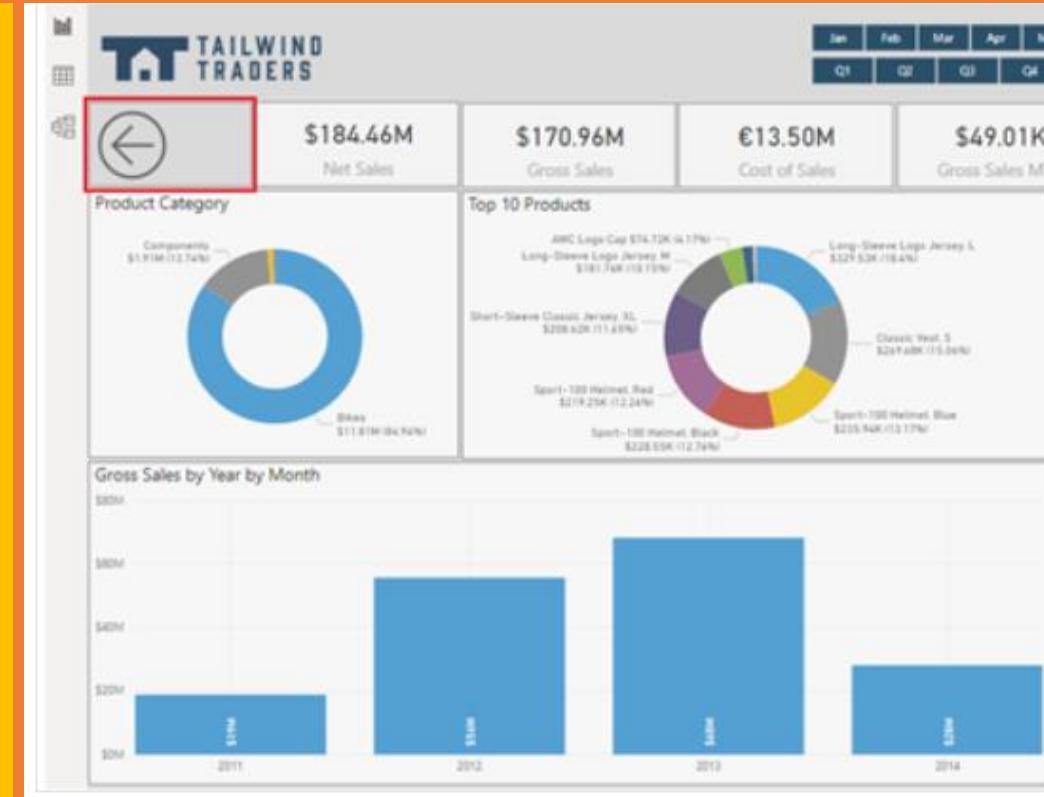


### Edit Interactions

Configure a report with some slicers slicing right of page (detail) but not left of page (summary)

# Lesson 5 of 10 Power BI Beginner

## Power BI report navigation slicers & tooltips



## CourseWork Explained

# Power BI Week 5 CourseWork

Monday 15<sup>th</sup> Feb 2021

- Microsoft Learn – ‘Visualize data in Power BI’
- Module – ‘Create a data driven story with Power Bi reports



## Visualize data in Power BI

5 hr 4 min remaining • Learning Path • 0 of 4 modules completed

Intermediate Data Analyst Power BI



## Create a data-driven story with Power BI reports

1 hr 44 min remaining • Module • 0 of 15 units completed

★★★★★ 4.6 (946)

[https://docs.microsoft.com/en-us/learn\(paths/visualize-data-power-bi/](https://docs.microsoft.com/en-us/learn(paths/visualize-data-power-bi/)

# Microsoft Power BI Associate

## DA-100 Certification

docs.microsoft.com/en-us/learn/certifications/exams/da-100

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Docs / Learn / Browse Certifications / Exam DA-100: Analyzing Data with Microsoft Power BI - Learn

 Exam DA-100: Analyzing Data with Microsoft Power BI

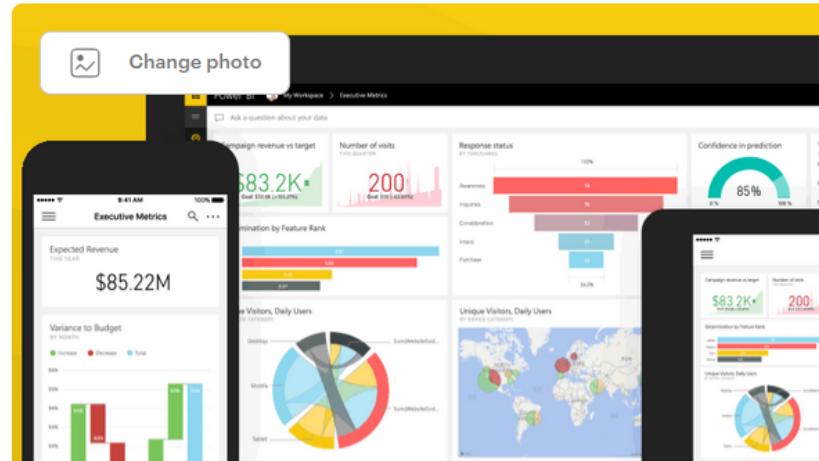
<https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>

YOU Tube DA-100 : <https://www.youtube.com/watch?v=CI7hdjq0ZxI>

# Social Media : Meetup , LinkedIn, YouTube

[meetup.com/The-Power-BI-Apprentice](https://www.meetup.com/The-Power-BI-Apprentice)

**Meetup** [Start a new group](#)



**The Power BI Apprentice**

London, United Kingdom · 517 members · Public group

Organized by David Moss

Share: [f](#) [t](#) [in](#)

**@wottabyte**

**wottabyte**

**www.wottabyte.com**

# You Tube

<https://www.youtube.com/channel/UCDtmmwK3YxWqzDNZ5L3pdMw>  
<https://youtu.be/dW08MYqbJ7k>



The screenshot shows the YouTube channel page for 'wottabyte'. The channel logo features a stylized bar chart icon. The channel name 'wottabyte' is displayed in large, bold, dark blue letters, with the tagline 'your data partner' in orange below it. The subscriber count is listed as 64. Navigation links include HOME, VIDEOS, PLAYLISTS, CHANNELS, DISCUSSION, ABOUT, and a search icon. Below these are buttons for CUSTOMISE CHANNEL and MANAGE VIDEOS. The 'VIDEOS' tab is selected, showing a grid of six video thumbnails. The first video is titled '4/10 Power BI Beginners Coursework Lesson 4' and has 18 views. The second video is 'Lesson 4 - Power BI Beginners Online Training...' with 24 views. The third is '3/10 Power BI Beginners Coursework Lesson 3' with 27 views. The fourth is 'Lesson 3 - Power BI Beginners Online Training...' with 52 views. The fifth is 'PL-900 Power Platform Fundamentals' with 24 views. The sixth is 'DA-100 ANALYZING DATA MICROSOFT POWER BI Learning Materials' with 44 views. Each thumbnail includes the video title, duration, and view count.

Power BI Beginners Training 2021 Lesson 1 - 10  
wottabyte - 1/9

This screenshot shows a video player interface for a specific lesson. The title is 'Power BI Beginners Training 2021 Lesson 1 - 10'. The video thumbnail shows a Microsoft Power BI interface with several charts. The play button is visible, along with a timestamp of '1:04:05'. Below the video are several other video thumbnails from the same series, each with a number (1 through 10) and a brief description. The descriptions include 'Power BI Beginners Online Training 2021 Lesson 1 of 10', 'Power BI Beginners Course Lesson 1 of 10 Coursework', 'Power BI Beginners Course Lesson 2/10 Coursework', 'Lesson 2 - Power BI Beginners Online Training 2021', 'DA-100 Power BI learning material', and 'Lesson 3 - Power BI Beginners Online Training 2021'. Each thumbnail includes the video title, duration, and the 'wottabyte' channel name.

Workshop this eve at 21:00 – 22:00 GMT

Monday 15<sup>th</sup> Feb 2021

- **Q&A Workshop 5 - Power BI Beginner Training**
- <https://www.meetup.com/The-Power-BI-Apprentice/events/276303046/>



# Power BI

beginners free 10 weeks online training course

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# NEXT WEEK : Power BI Week 6

22<sup>nd</sup> February

Power BI report slicers & custom tooltips

Watch email & social media channels when event goes live 2 register.

Lesson 6 of 10 Power BI Beginner

Power BI slicers & custom tooltips

MONDAY 22<sup>nd</sup> FEB 17:00 GMT

# Lesson 6 of 10 Power BI Beginner

# Power BI slicers, bookmarks & custom tooltips



MONDAY 22<sup>nd</sup> FEB 17:00 GMT

# Links

- Youtube Lesson 5: <https://www.youtube.com/watch?v=82E4IPdLSNE>
- Youtube courseworks Lesson 5:  
<https://www.youtube.com/watch?v=e0xDgpeIm1M>
- Register Lesson 6: <https://www.meetup.com/The-Power-BI-Apprentice/events/276348244/>
- Register Workshop 6: <https://www.meetup.com/The-Power-BI-Apprentice/events/276348292/>

# Lesson 6 of 10 Power BI Beginner

# Power BI slicers, bookmarks & custom tooltips



MONDAY 22<sup>nd</sup> FEB 17:00 GMT

Lesson 6 of 10 Power BI Beginner

# Power BI slicers & custom tooltips

MONDAY 22<sup>nd</sup> FEB 17:00 GMT

Power BI Beginner - NOW

# Power BI Q&A Workshop 6

MONDAY 22<sup>nd</sup> FEB 21:00 GMT

Workshop this eve at 21:00 – 22:00 GMT

Monday 22<sup>nd</sup> Feb 2021

- **Q&A Workshop 6 - Power BI Beginner Training**
- <https://www.meetup.com/The-Power-BI-Apprentice/events/276303046/>



# Power BI – LESSON 6 of 10

beginners free 10 weeks online training course



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# Power BI Week 6

## Power BI report slicers & custom tooltips

Use Power BI features to tell a Story:  
So much will split it over 2 weeks

### LAST WEEK 5

Conditional formatting

Report Navigation with buttons

Drillthrough

Edit Interactions

### THIS WEEK 6

Edit Interactions

Slicer, filter & sorting

Sync slicers

Hierarchy slicing

Bookmark and Selection panel

Custom tooltips

# Power BI Week 6

## Zoom photo of all students

Zoom Preparation

Please all turn on your Video Cameras

I will move to next slide

Then David stop sharing screen and record Zoom video cameras

Pantomine banta

David ‘What are you learning ?’

All shoutout ‘ Power BI’

“What do you think of the show so far ?”

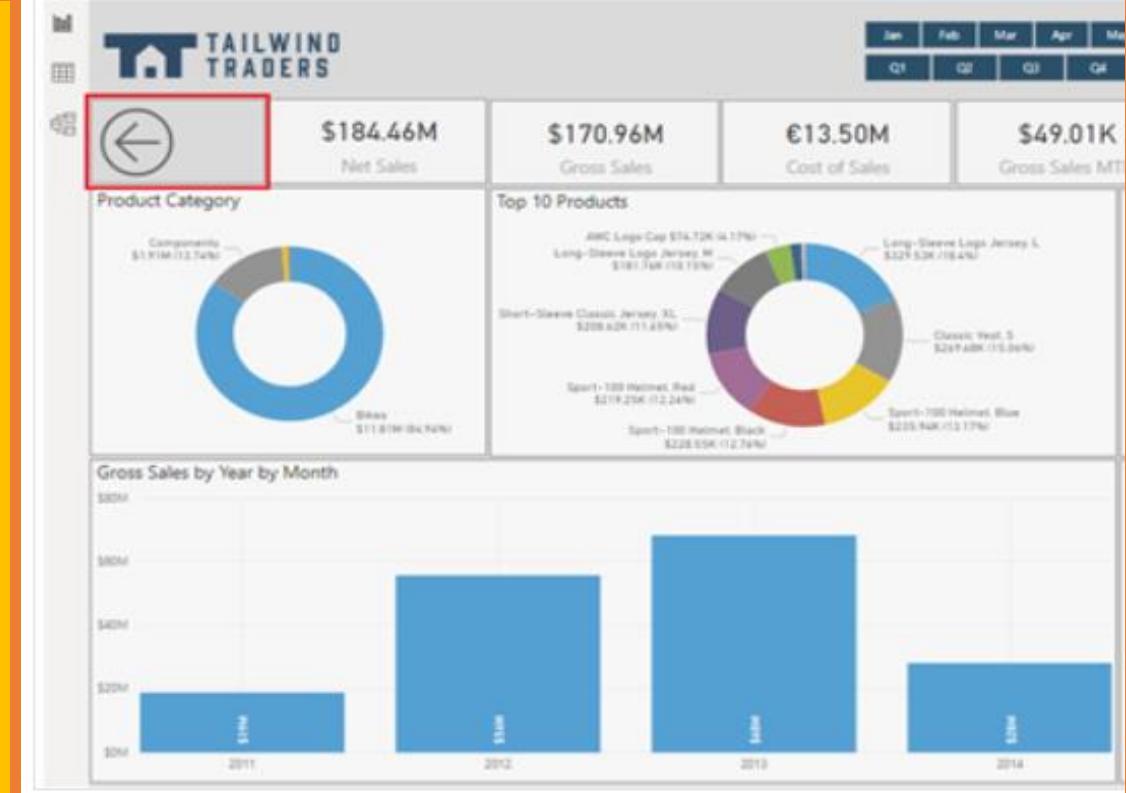
“???”

David share screen again for recording.

# POWER BI



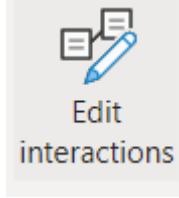
Power BI  
Beginners 10  
week online  
course with labs



Trainers : David Moss & Conrad Moss

# Power BI Week 6

## Cross Filtering & Edit Interactions



Demoed last week

1<sup>st</sup> level of filtering & slicing

Edit Interactions

Configure a report with some slicers slicing right of page (detail) but not left of page (summary)

# Power BI Week 6

## Slicer, Filter & Sorting

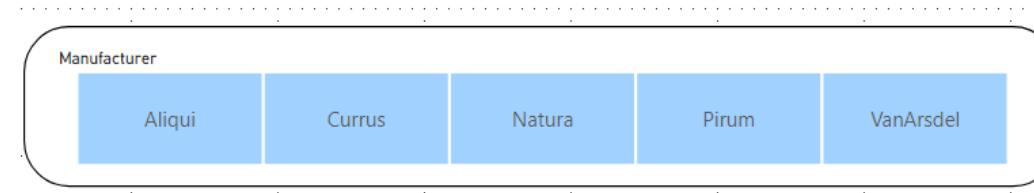
Slicing Filtering & Sorting : Use features in unison to achieve perfect results.

Filter in Power Query editor

Filtering : remove data see Filter pane – also in report in cloud

Slicer : slice data on canvas

Sorting : visuals



Demo

Slicer formatting for text or values slicers; dropdown, search , slider. Format single, multi all select.

Custom slicers: chiclet slicer

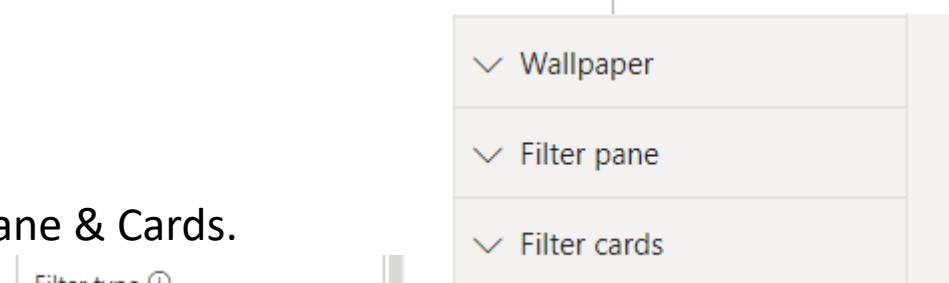
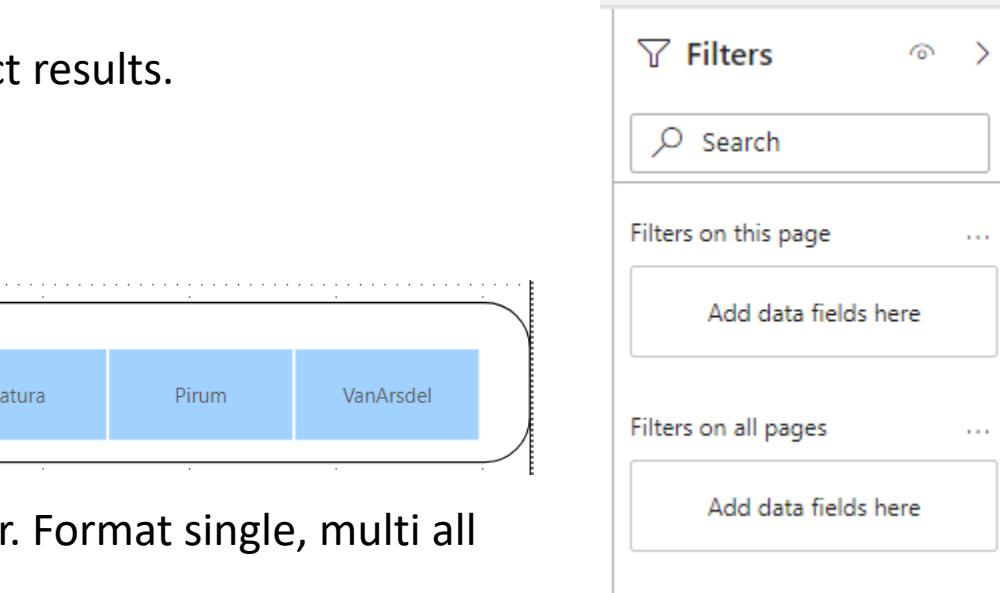
Sliding slicers with Bookmark technique.

Filters Pane: show hide, lock preselect, basic OR advanced, Filter Pane & Cards.

Filters on this visual, on this page, all pages. : Filters Drillthrough

Filter : basic, advanced , TopN (text based on values)

Sort : ascending descending, field from .... Top right of a visual



# Power BI Week 6

## Report Options



Configure report Options

Query Reduction techniques

Add apply button

### Options

DirectQuery  
R scripting  
Python scripting  
Security  
Privacy  
Regional Settings  
Updates  
Usage Data  
Diagnostics  
Preview features  
Auto recovery  
Report settings

#### CURRENT FILE

Data Load  
Regional Settings  
Privacy  
Auto recovery  
DirectQuery  
Query reduction  
Report settings

Reduce number of queries sent by

Disabling cross highlighting/filtering by default

#### Slicers

- Instantly apply slicer changes
- Add an Apply button to each slicer to apply changes when you're ready

#### Filters

- Instantly apply basic filter changes
- Add Apply buttons to all basic filters to apply changes when you're ready
- Add a single Apply button to the filter pane to apply changes at once

# Power BI Week 6

## Sync Slicers



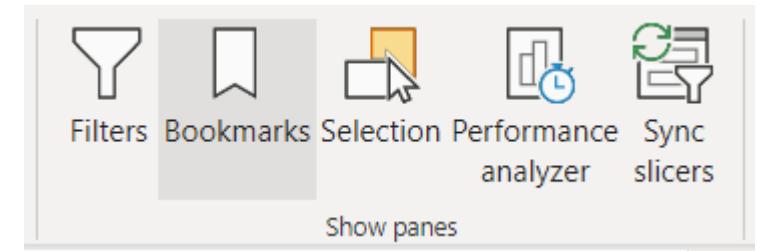
Sync Slicers across pages

Similar to slicer on Report level filter for All Pages. Yet can configure by slicer & by report page .

Demo: Use Director or Manager

Idea: Master front slicer page for all pages in report

Page name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lesson1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
L1-test	<input type="checkbox"/>	<input checked="" type="checkbox"/>
L1-Line	<input type="checkbox"/>	<input checked="" type="checkbox"/>
L3-Managerial	<input type="checkbox"/>	<input checked="" type="checkbox"/>
L3-SortDataModel	<input type="checkbox"/>	<input checked="" type="checkbox"/>
L3-CalculateAll	<input type="checkbox"/>	<input checked="" type="checkbox"/>
L3-TimeIntelli... L4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
L5 CondFormat-B4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
L5-CondFormat-... L5-navigation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
L5-DrillThrough Drillthrough Target	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Q&A-DetailedPage	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Page 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
WB	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Page 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>



# Power BI Week 6

## Hierarchy Slicing

Use hierarchies on report to drive detail interactions

Explain hierarchy icons on a visual

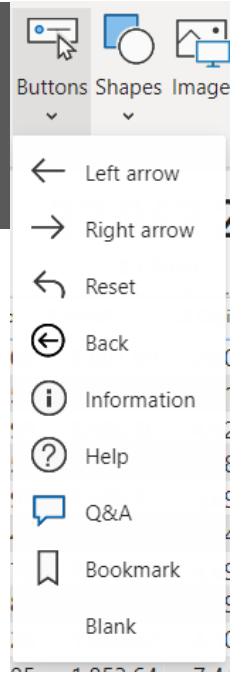
Drill down hierarchy and use for granular detail slicing (needs a good end user)

Click ctrl & select to get a even more granular slice to find that detail or even outlier



# Power BI Week 6

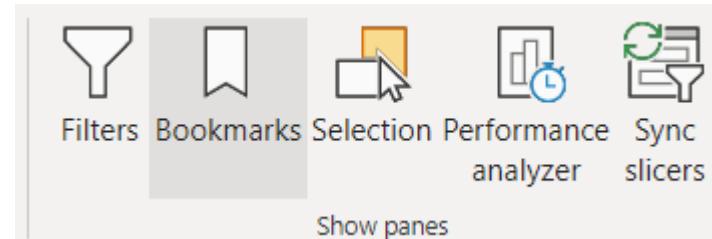
## Bookmarks & Selection panel



Bookmark like navigation but good for on same page changes

Bookmark panel : story telling good for .PPT also for App like navigation

Selection panel : hide & view visuals



Demo:

Take a bookmark

Add a button, change action to 'Bookmark' (back, **bookmark**, drillthrough, navigation, Q&A, weburl)

Do bookmark to switch between donut and table on same page.

Remember sliding slicer bookmark technique V Filter Pane

Copy pages then pre select filters for storytelling eg 1 page France sales, next page UK sales.

Then Show bookmarks in the Power BI service as if though a boardroom presentation.

Just feels better than navigating pages of reports

# Power BI Week 6

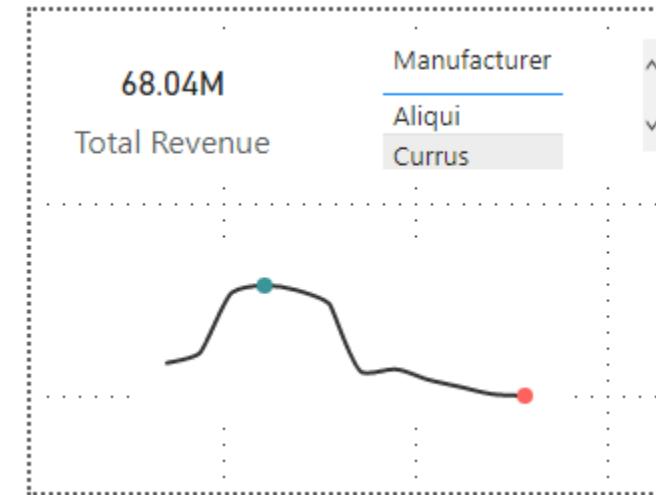
## Custom Tooltips



### Custom Tooltips

Demo How to Build a custom tooltip

Custom tooltips (1:Page info, 2: Page Size,  
3:PageView>actual 4:Field driver)



# Power BI Week 6

## Wottabyte Tenant



Get a Wottabyte email  
Need it to share work for next week.

Microsoft 365 admin center

Wottabyte Limited

## Active users

Add a user User templates Add

+ Add template

Display Manage templates

Admin Power BI free

Access  
DA-100 2021 10 week DEV

Add admins, members, or contributors. [Learn more](#)

Enter email addresses

Member

Add

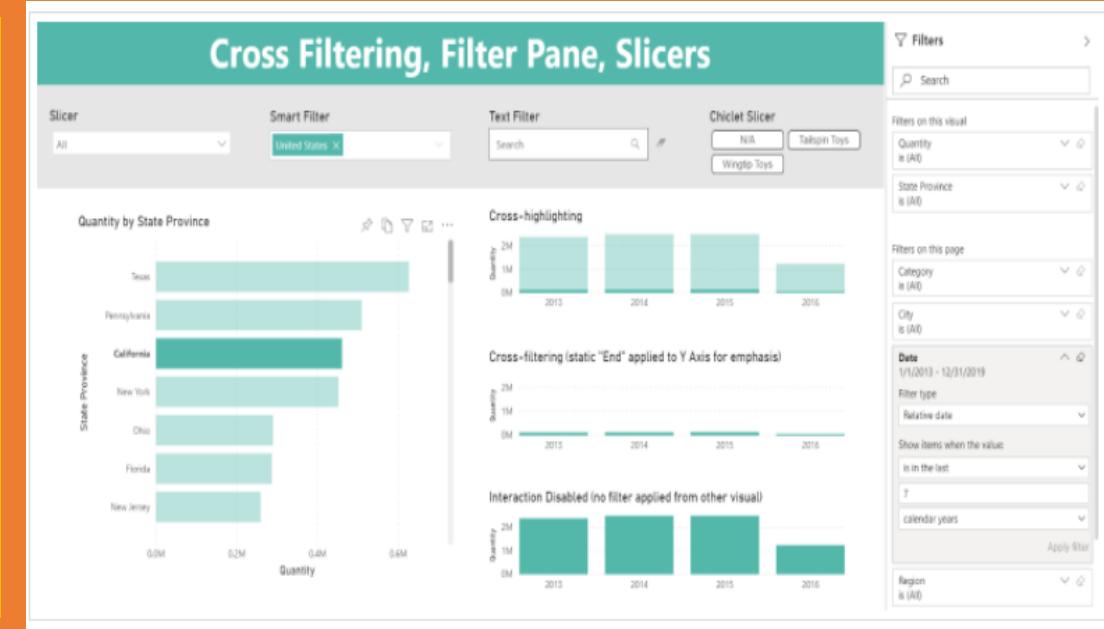
Search

NAME	PERMISSION	...
Chiti Milimo	Contributor	...
Conrad Moss	Contributor	...
David Moss	Admin	...
Manik Kveria	Contributor	...
Melany Mangui	Contributor	...
Shane Keown	Contributor	...

Close

# Lesson 6 of 10 Power BI Beginner

## Power BI slicers, bookmarks & custom tooltips



## CourseWork explained

# Power BI Week 6 CourseWork

Monday 22nd Feb 2021

- Microsoft Learn – ‘Visualize data in Power BI’
- Same module as week 5 you started
- This week complete it all.
- Module – ‘Create a data driven story with Power Bi reports



## Visualize data in Power BI

5 hr 4 min remaining • Learning Path • 0 of 4 modules completed

Intermediate Data Analyst Power BI



### Create a data-driven story with Power BI reports

1 hr 44 min remaining • Module • 0 of 15 units completed

★★★★★ 4.6 (946)

Read this blog in detail <https://okviz.com/blog/design-guide-for-power-bi-slicers-and-filters/>

<https://docs.microsoft.com/en-us/learn/patterns/visualize-data-power-bi/>

# Microsoft Power BI Associate

## DA-100 Certification

docs.microsoft.com/en-us/learn/certifications/exams/da-100

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Learn Products Roles Learn TV Certifications FAQ & Help LE

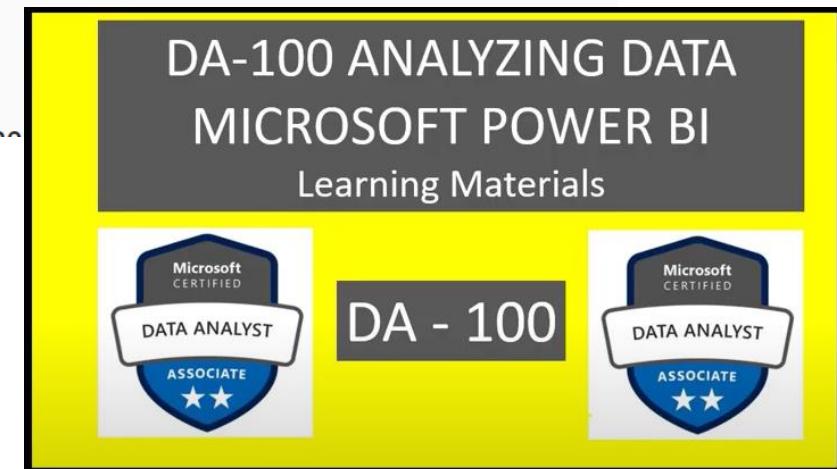
Docs / Learn / Browse Certifications / Exam DA-100: Analyzing Data with Microsoft Power BI - Learn

 Microsoft EXAM

## Exam DA-100: Analyzing Data with Microsoft Power BI

<https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>

YOU Tube DA-100 : <https://www.youtube.com/watch?v=CI7hdjq0ZxI>

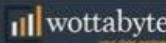


# Social Media : Meetup , LinkedIn, YouTube

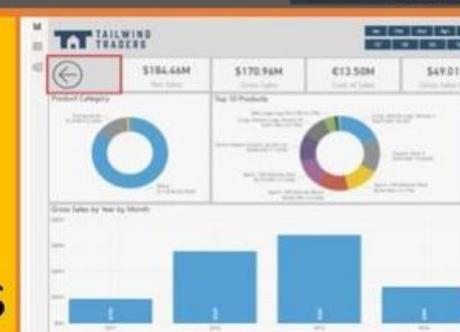
← → C [meetup.com/The-Power-BI-Apprentice/](https://meetup.com/The-Power-BI-Apprentice/)

 Search for keywords

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POWER BI 

Power BI  
Beginners 10  
week online  
course with labs



Trainers : David Moss & Conrad Moss

## The Power BI Apprentice

London, United Kingdom  
617 members · Public group  
Organized by David M.



@wottabyte



wottabyte



[www.wottabyte.com](http://www.wottabyte.com)

About Events Members Photos Discussions More

[Join this group](#)

...

# You Tube

<https://www.youtube.com/channel/UCDtmmwK3YxWqzDNZ5L3pdMw>  
<https://youtu.be/dW08MYqbJ7k>



The screenshot shows the YouTube channel page for 'wottabyte'. The channel logo features a stylized bar chart icon. The channel name 'wottabyte' is displayed in large, bold, dark blue letters, with the tagline 'your data partner' in orange below it. The subscriber count is listed as 64. Navigation links include HOME, VIDEOS, PLAYLISTS, CHANNELS, DISCUSSION, ABOUT, and a search icon. Below these are buttons for CUSTOMISE CHANNEL and MANAGE VIDEOS. The 'VIDEOS' tab is selected, showing a grid of six video thumbnails. The first video is titled '4/10 Power BI Beginners Coursework Lesson 4' and has 18 views. The second video is 'Lesson 4 - Power BI Beginners Online Training...' with 24 views. The third is '3/10 Power BI Beginners Coursework Lesson 3' with 27 views. The fourth is 'Lesson 3 - Power BI Beginners Online Training...' with 52 views. The fifth is 'PL-900 Power Platform Fundamentals' with 24 views. The sixth is 'DA-100 ANALYZING DATA MICROSOFT POWER BI Learning Materials' with 44 views. Each thumbnail includes the video title, duration, and view count.

Power BI Beginners Training 2021 Lesson 1 - 10  
wottabyte - 1/9

This screenshot shows a video player interface for a specific lesson. The title is 'Power BI Beginners Training 2021 Lesson 1 - 10'. The video thumbnail shows a Microsoft Power BI interface with several charts. The play button is visible, along with a timestamp of '1:04:05'. Below the video are several other video thumbnails from the same series, each with a number (1 through 10) and a brief description. The descriptions include 'Power BI Beginners Online Training 2021 Lesson 1 of 10', 'Power BI Beginners Course Lesson 1 of 10 Coursework', 'Power BI Beginners Course Lesson 2/10 Coursework', 'Lesson 2 - Power BI Beginners Online Training 2021', 'DA-100 Power BI learning material', and 'Lesson 3 - Power BI Beginners Online Training 2021'. Each thumbnail includes a timestamp and the 'wottabyte' channel name.

Workshop this eve at 21:00 – 22:00 GMT

Monday 22nd Feb 2021

- **Q&A Workshop 6 - Power BI Beginner Training**
- <https://www.meetup.com/The-Power-BI-Apprentice/events/276348292/>



# Power BI

beginners free 10 weeks online training course

- Week 1: Monday 18<sup>th</sup> Jan 2021 : Introduction to Power BI and your first Power BI report.
- Week 2: Monday 25<sup>th</sup> Jan 2021 : Use Power Query Editor to get data & prepare your data.
- Week 3: Monday 1<sup>st</sup> Feb 2021 : Use Power BI desktop to structure & create datamodels.
- Week 4: Monday 8<sup>th</sup> Feb 2021 : Design & configure Power BI visuals like charts, maps & KPIs.
- Week 5: Monday 15<sup>th</sup> Feb 2021 : Add user friendly report navigation features, slicers & tooltips.
- Week 6: Monday 22<sup>nd</sup> Feb 2021: More user friendly reports : Power BI slicers, bookmarks & custom tooltips
- Week 7: Monday 1<sup>st</sup> March 2021: Publish & share Power BI reports & dashboards & Get to grips with Power BI cloud service & mobile features.
- Week 8: Monday 8<sup>th</sup> March 2021: Enhance your data with DAX for KPIs reporting.
- Week 9: Monday 15<sup>th</sup> March 2021: Data analytics reporting & AI features in Power BI.
- Week 10: Monday 22<sup>nd</sup> March 2021: Power BI at work with workspaces, datasets & security.

# NEXT WEEK : Power BI Week 7

1<sup>st</sup> March

Publish , Share PBI reports, dashboards, Power BI service & mobile features

Watch email & social media channels when event goes live 2 register.

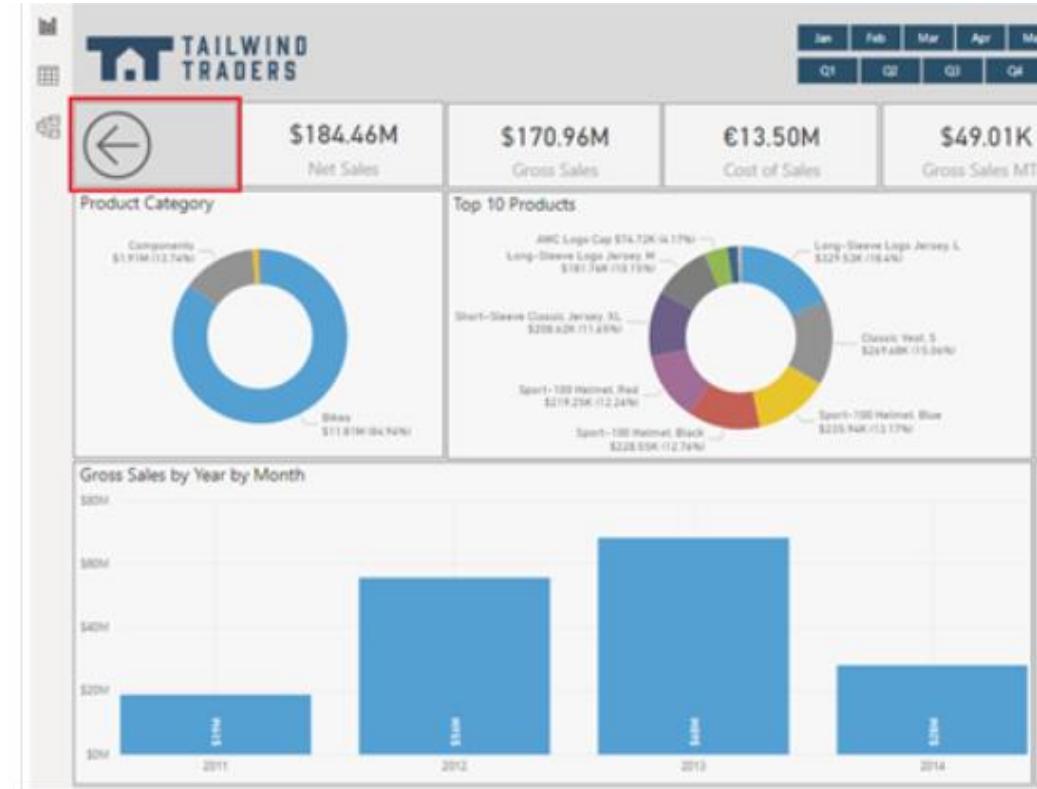
Lesson 7 of 10 Power BI Beginner

**Publish & share Power BI reports**

**MONDAY 1<sup>st</sup> MAR 17:00 GMT**

# Lesson 7 of 10 Power BI Beginner

## Publish & share Power BI reports & dashboards



MONDAY 1<sup>st</sup> MARCH 17:00 GMT

# Links

- Youtube Lesson 6: <https://www.youtube.com/watch?v=z5-AQGM88ZI>
- Youtube courseworks Lesson 6:  
<https://www.youtube.com/watch?v=3Q75lG4Efpw>
- Register Lesson 7: <https://www.meetup.com/The-Power-BI-Apprentice/events/>
- Register Workshop 7: <https://www.meetup.com/The-Power-BI-Apprentice/events/>
- Course Slides:  
<https://github.com/wottabyte/PBITraining/raw/master/10WeekPBIconline2021/DA-100%2010%20weeks%20All%20Slides%20-%20Master.pdf>

# NEXT WEEK : Power BI Week 7

1<sup>st</sup> March

Publish , Share PBI reports, dashboards, Power BI service & mobile features

Watch email & social media channels when event goes live 2 register.

Lesson 7 of 10 Power BI Beginner

**Publish & share Power BI reports**

**MONDAY 1<sup>st</sup> MAR 17:00 GMT**

Lesson 7 of 10 Power BI Beginner

# Publish & share Power BI reports

MONDAY 1<sup>st</sup> March 17:00 GMT

Flyer for LinkedIn Events

Power BI Beginner - NOW

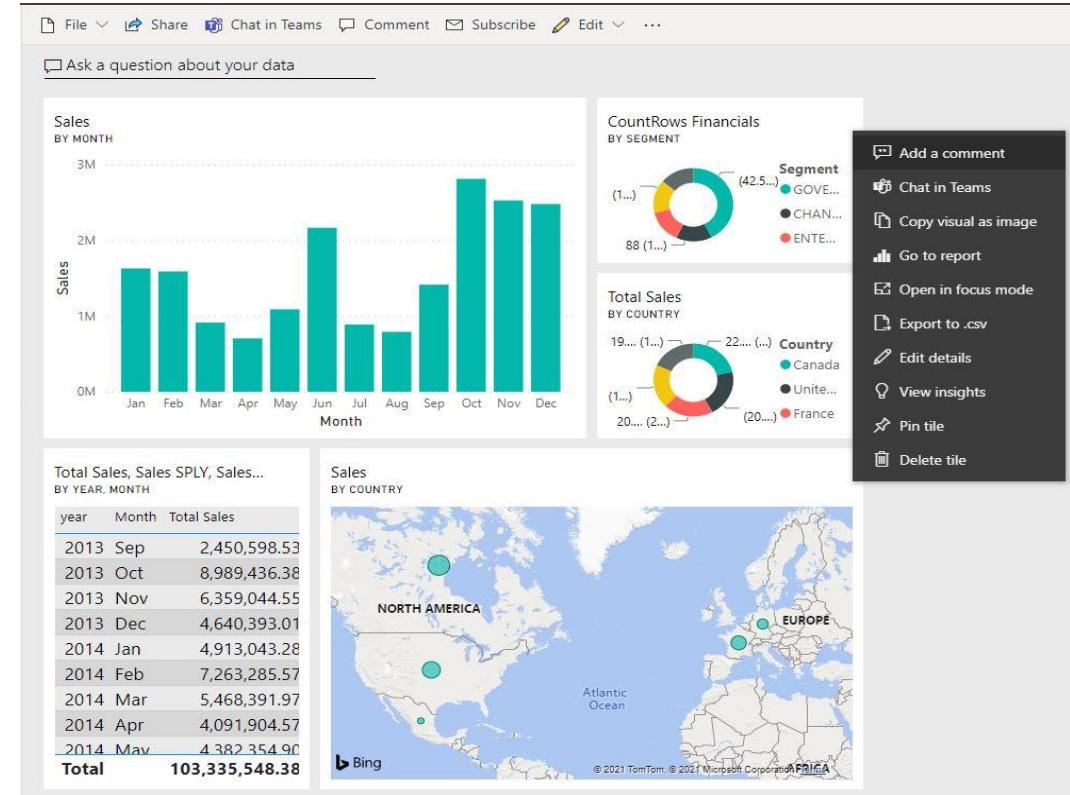
# Power BI Q&A Workshop 7

MONDAY 1<sup>st</sup> March 21:00 GMT

Flyer for LinkedIn Events

# Lesson 7 of 10 Power BI Beginner

## Publish & share Power BI reports & dashboards



## MONDAY 1<sup>st</sup> MARCH 17:00 GMT

# Power BI Week 7

Publish , Share PBI reports, dashboards, Power BI service & mobile features

Combined here in week 7 the original week 6 curriculum & Week7's.

Because remember we split the original week 5 user friendly reports over both week 5 & week 6 and moved the original week 6 content into week 7 as makes an easier balance of content.

Agenda:

Publish & Share Power BI Reports

Power BI Dashboards

Power BI Service Edit report in cloud

Mobile reporting & Mobile App

Power BI Workspace apps (Different to Mobile app)

Power BI Service other features

If time go back over custom tooltips from last week.

# Power BI – LESSON 7 of 10

beginners free 10 weeks online training course



# Power BI Week 7

## Publish & Share Power BI Reports



Open .pbix

Save file on landing (opening) page

Publish to cloud

Use Wottabyte workspace called : DA-100

Get Quick Insights !!

Share reports to user (colleagues same tenant, external users)

End user can check 'Shared with me'

Publish to Web

Share url for all to see on public internet

Interact with report in PBI Service.

The screenshot shows the Power BI service interface with the following components:

- Left Sidebar:** Includes links for Home, Favorites, Recent, Create, Datasets, Apps, Shared with me, Deployment pipelines, Learn, and Workspaces.
- Top Bar:** Shows the workspace name "Power BI DA-100 2021" and the report title "L6-ExecutiveSummaryV2".
- Report View:** Displays a list of pages: L3-SortDataModel, L3-CalculateAll, L3-TimeIntelligence, and L4.
- Share Menu:** A dropdown menu under the "Share" button with options: Report, Embed report, SharePoint online, Website or portal, and Publish to web (public). The "Publish to web (public)" option is highlighted with a red arrow.
- Success Message:** A modal window titled "Publishing to Power BI" with a green checkmark icon and the message "Success! Open 'L6-ExecutiveSummaryV2.pbix' in Power BI".
- Replace Dataset Confirmation:** A modal window titled "Replace this dataset?" with information about replacing an existing dataset named "L6-ExecutiveSummaryV2". It includes a "Cancel" button and a link to "View the impact of this change on the content in the Power BI service".
- Cloud Publishing Progress:** A progress bar at the top of the slide indicating "Publishing 'L6-ExecutiveSummaryV2.pbix' to Power BI".

# Power BI Week 7

## Dashboards



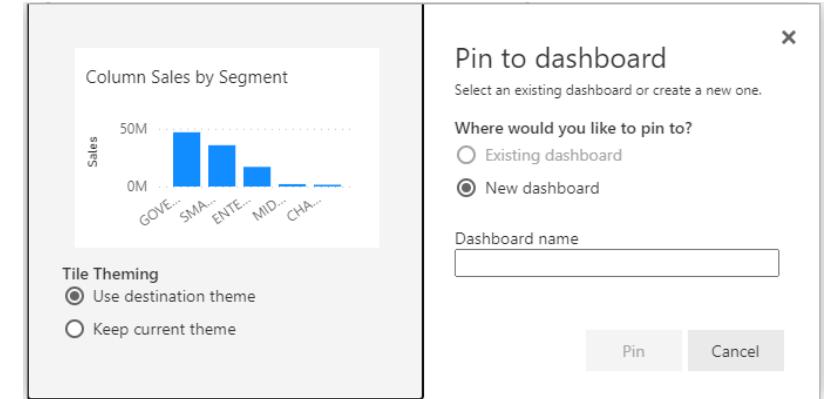
Show then Create Dashboards

Rearrange tiles

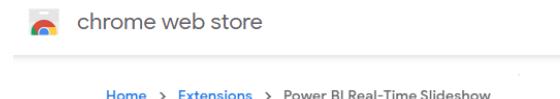
All types of tiles

Streaming tiles : brief intro about streaming

Tiles menu



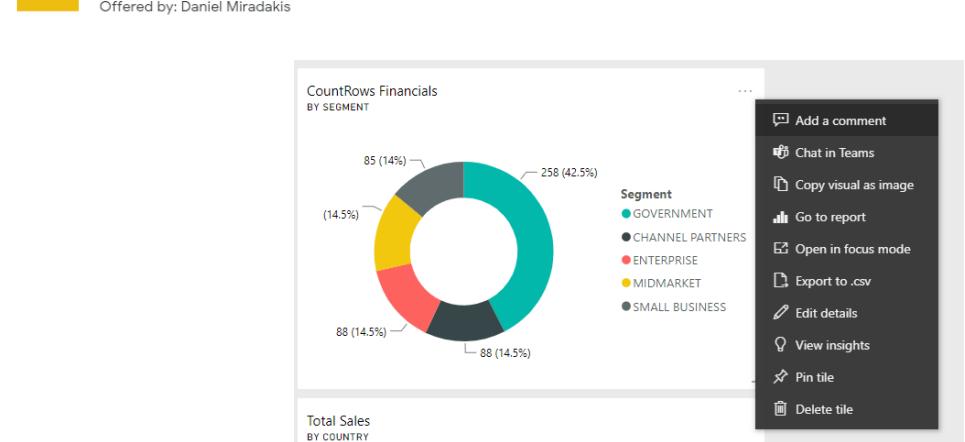
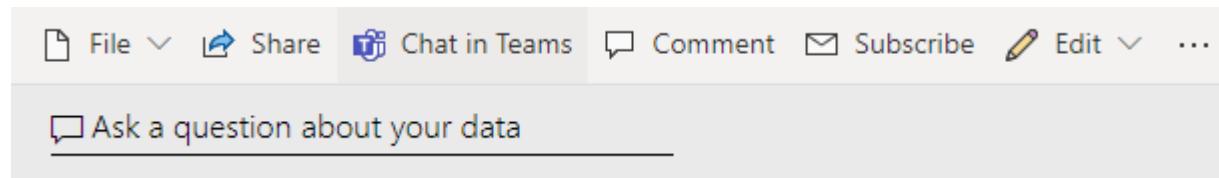
Dashboards in the office lobby : Chrome extension



Dashboard menu options

File > Save copy, Performance Indicator, Settings

Share>, Chat>, Comment>, Subscribe>, Edit>, ...>



# Power BI Week 7

## Edit report in Power BI Service



A screenshot of the Power BI Service interface in 'Edit report' mode. The top navigation bar shows 'Power BI DA-100 2021 10 week DEV'. The main area displays the message 'Build visuals with your data' and 'Select or drag fields from the Fields pane onto the report canvas.' On the left is a sidebar with links like Home, Favorites, Recent, Create, Datasets, Apps, Shared with me, and Deployment pipelines. The right side features a 'Fields' pane containing a 'Visualizations' section with various icons and a 'Filters' section. Below these are sections for 'Calendar', 'financials', 'L3-Segment', 'L3-Tiers', and 'Segment Report ...'. A large central workspace is currently empty.

Edit report features : Move through menu showing ALL features  
Remember to 'Save as'

# Power BI Week 7

## Mobile Report



Mobile report in PBI desktop

Mobile in Power BI service

Power BI Mobile App

Mobile report

PBI desktop : View>Mobile Layout

Slicers : format>general>responsive for mobile ??

PBI Service: Show layout features

Optimize PBI report for mobile

Connect Mobile phone and show on Power BI App

Use Vysor app to display mobile

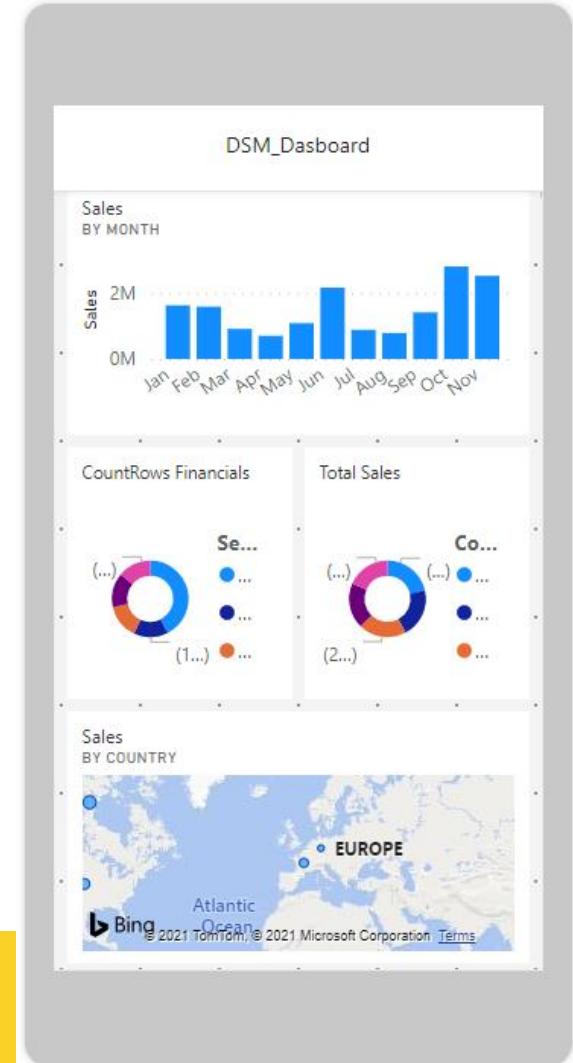
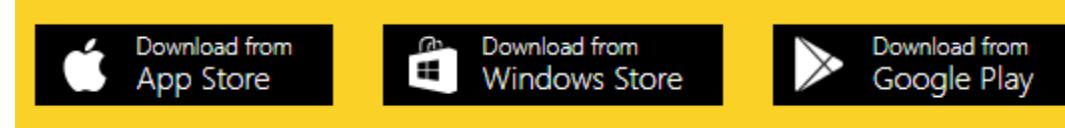
Use Power BI Mobile app to display Power BI

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



Vysor

Offered by: [vysor.io](https://vysor.io)



# Power BI Week 7

## More Power BI Service features



Show all menu features

Download .pbix, Print & Report settings

Export to Power Point, PDF & Analyze in Excel.

Share: Report, Generate a QR code, Embed report in Sharepoint, Website or Publish to Web.

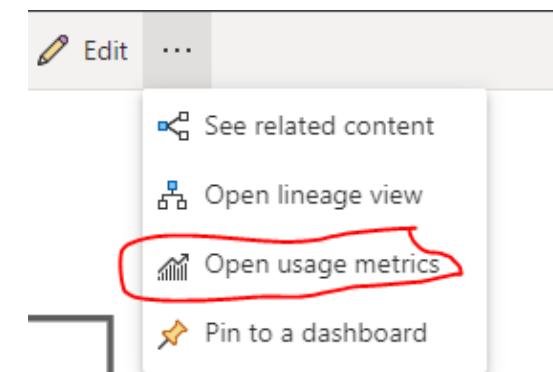
Teams: Chat in Teams

Comment on report

Subscribe to a report

Edit report, Save as

See related, open lineage, **usage metrics**.



# Power BI Week 7

## Power BI Workspaces



Why Workspaces - (we will look at workspace collaboration in week 10)

Workspace App is **NOT** the Power BI mobile app)

Get Apps

Apps

# Power BI Week 7

## Template



Show Form to Streaming to Dashboard architecture.

# Quick Survey of audience

<https://forms.office.com/Pages/ResponsePage.aspx?id=WkuituyrDEaGarPmYT9Z1NvMNOjKOFdHsnEJjP6WpoNUREdYRjdPUUQ0SzIQVzYzUEdJSkVKV1U5Ni4u>

Student go to form and submit  
Trainer display live online results in Power BI dashboard



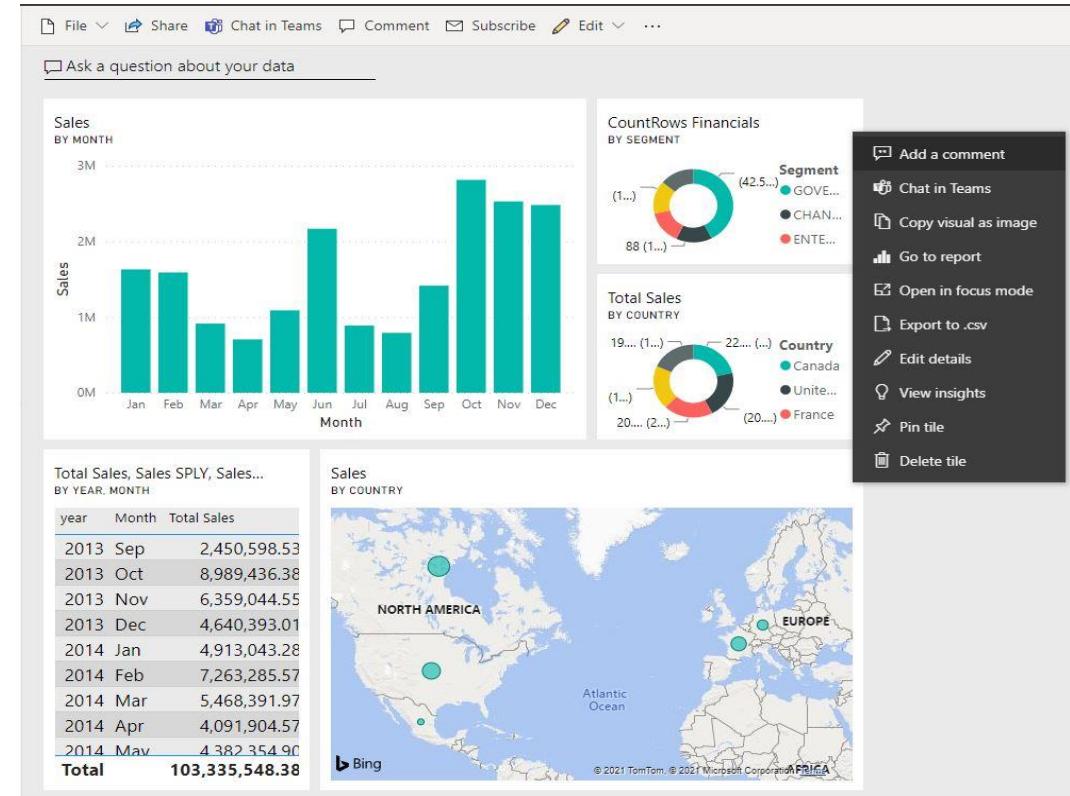
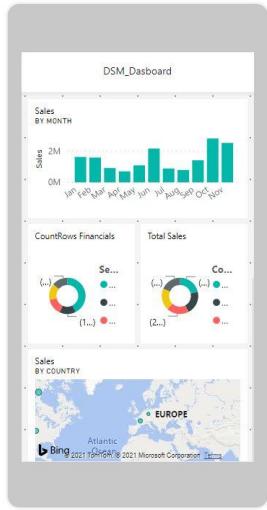
# Power BI Week 7

## Template



# Lesson 7 of 10 Power BI Beginner

## Publish & share Power BI reports & dashboards



## Course Work Explained

# Power BI Week 7 CourseWork

Monday 1<sup>st</sup> March 2021

- Microsoft Learn – ‘Visualize data in Power BI’
- Module – Create dashboards in Power BI
- Extra Module – Create paginated Reports



## Visualize data in Power BI

5 hr 4 min remaining • Learning Path • 0 of 4 modules completed

Intermediate Data Analyst Power BI



### Create dashboards in Power BI

1 hr 8 min remaining • Module • 0 of 11 units completed

★★★★★ 4.7 (810)



### Create paginated reports

1 hr remaining • Module • 0 of 8 units completed

★★★★★ 4.7 (893)

<https://docs.microsoft.com/en-us/learn/patterns/visualize-data-power-bi/>

# Microsoft Power BI Associate

## DA-100 Certification

docs.microsoft.com/en-us/learn/certifications/exams/da-100

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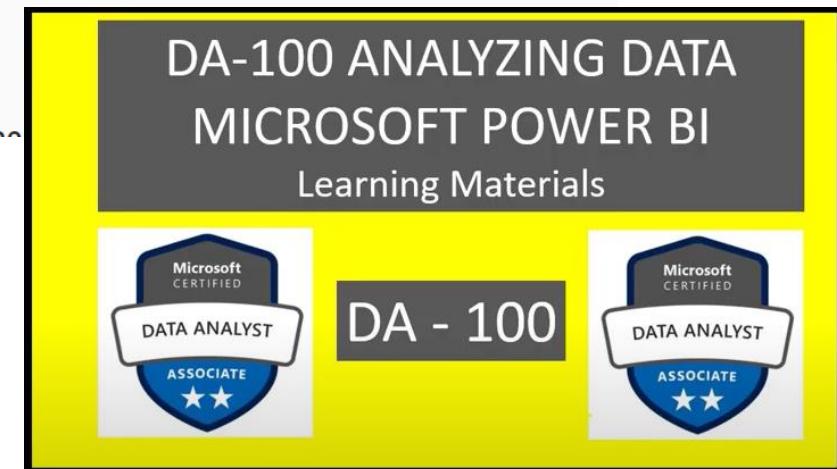
Docs / Learn / Browse Certifications / Exam DA-100: Analyzing Data with Microsoft Power BI - Learn



## Exam DA-100: Analyzing Data with Microsoft Power BI

<https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>

YOU Tube DA-100 : <https://www.youtube.com/watch?v=CI7hdjq0ZxI>

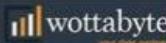


# Social Media : Meetup , LinkedIn, YouTube

← → C [meetup.com/The-Power-BI-Apprentice/](https://meetup.com/The-Power-BI-Apprentice/)

 Search for keywords

---

POWER BI 

Power BI  
Beginners 10  
week online  
course with labs



Trainers : David Moss & Conrad Moss

## The Power BI Apprentice

London, United Kingdom  
617 members · Public group   
Organized by David M.



@wottabyte



wottabyte



[www.wottabyte.com](http://www.wottabyte.com)

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Share:   

# You Tube

<https://www.youtube.com/channel/UCDtmmwK3YxWqzDNZ5L3pdMw>  
<https://youtu.be/dW08MYqbJ7k>



The screenshot shows the YouTube channel page for 'wottabyte'. The channel logo features a stylized bar chart icon. The channel name 'wottabyte' is displayed in large, bold, dark blue letters, with the tagline 'your data partner' in orange below it. The subscriber count is listed as 64. Navigation links include HOME, VIDEOS, PLAYLISTS, CHANNELS, DISCUSSION, ABOUT, and a search icon. Below these are buttons for CUSTOMISE CHANNEL and MANAGE VIDEOS. The 'VIDEOS' tab is selected, showing a grid of six video thumbnails. The first video is titled '4/10 Power BI Beginners Coursework Lesson 4' and has 18 views. The second video is 'Lesson 4 - Power BI Beginners Online Training...' with 24 views. The third is '3/10 Power BI Beginners Coursework Lesson 3' with 27 views. The fourth is 'Lesson 3 - Power BI Beginners Online Training...' with 52 views. The fifth is 'PL-900 Power Platform Fundamentals' with 24 views. The sixth is 'DA-100 ANALYZING DATA MICROSOFT POWER BI Learning Materials' with 44 views. Each thumbnail includes the video title, duration, and view count.

Power BI Beginners Training 2021 Lesson 1 - 10  
wottabyte - 1/9

This screenshot shows a video player interface for a specific lesson. The title is 'Power BI Beginners Training 2021 Lesson 1 - 10'. The video thumbnail shows a Microsoft Power BI interface with several charts. The play button is visible, along with a timestamp of '1:04:05'. Below the video are several other video thumbnails from the same series, each with a number (1 through 10) and a brief description. The descriptions include 'Power BI Beginners Online Training 2021 Lesson 1 of 10', 'Power BI Beginners Course Lesson 1 of 10 Coursework', 'Power BI Beginners Course Lesson 2/10 Coursework', 'Lesson 2 - Power BI Beginners Online Training 2021', 'DA-100 Power BI learning material', and 'Lesson 3 - Power BI Beginners Online Training 2021'. Each thumbnail includes the video title, duration, and the 'wottabyte' channel name.

Workshop this eve at 21:00 – 22:00 GMT

Monday 1<sup>st</sup> March 2021

- **Q&A Workshop 7 - Power BI Beginner Training**
- <https://www.meetup.com/The-Power-BI-Apprentice/events/276482399/>



# Power BI

beginners free 10 weeks online training course

- Week 1: Monday 18<sup>th</sup> Jan 2021 : Introduction to Power BI and your first Power BI report.
- Week 2: Monday 25<sup>th</sup> Jan 2021 : Use Power Query Editor to get data & prepare your data.
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- Week 9: Monday 15<sup>th</sup> March 2021: Data analytics reporting & AI features in Power BI.
- Week 10: Monday 22<sup>nd</sup> March 2021: Power BI at work with workspaces, datasets & security.

# NEXT WEEK : Power BI Week 8

8th March

DAX for KPIs & more reporting & visualization features.

Watch email & social media channels when event goes live 2 register.

Lesson 8 of 10 Power BI Beginner

## Power BI DAX & KPI visuals

MONDAY 8<sup>th</sup> MAR 17:00 GMT

# Lesson 8 of 10 Power BI Beginner

## Power BI DAX KPIs & visualizations



MONDAY 8th MARCH 17:00 GMT

# Links

- Youtube Lesson 7: <https://youtu.be/-MB0-qm1lsg>
- Youtube courseworks Lesson 7: <https://youtu.be/noV0KEurUTO>
- Register Lesson 8: <https://www.meetup.com/The-Power-BI-Apprentice/events/276482326/>
- Register Q&A Workshop 8: <https://www.meetup.com/The-Power-BI-Apprentice/events/276482399/>
- DA-100: <https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>
- Course Slides:  
<https://github.com/wottabyte/PBITraining/raw/master/10WeekPBlonline2021/DA-100%2010%20weeks%20All%20Slides%20-%20Master.pdf>
- You Tube : Course Playlist  
<https://www.youtube.com/watch?v=CI7hdjq0ZxI&list=PLTYIxChqrBrj5dnqnAPdBc-VnyFmemyOa>

# Lesson 8 of 10 Power BI Beginner

## Power BI DAX KPIs & visualizations



MONDAY 8th MARCH 21:00 GMT

Lesson 8 of 10 Power BI Beginner

# Power BI DAX & KPIs visuals

MONDAY 8<sup>th</sup> March 21:00 GMT

Flyer for LinkedIn Events

Power BI Beginner - NOW

# Power BI Q&A Workshop 8

MONDAY 8<sup>th</sup> March 21:00 GMT

Flyer for LinkedIn Events

# Power BI – LESSON 8 of 10

beginners free 10 weeks online training course



# Linkedin : QR Codes



**David Moss**

Solutions Architect - Azure | Power Platform | D365 | (SC Cleared)

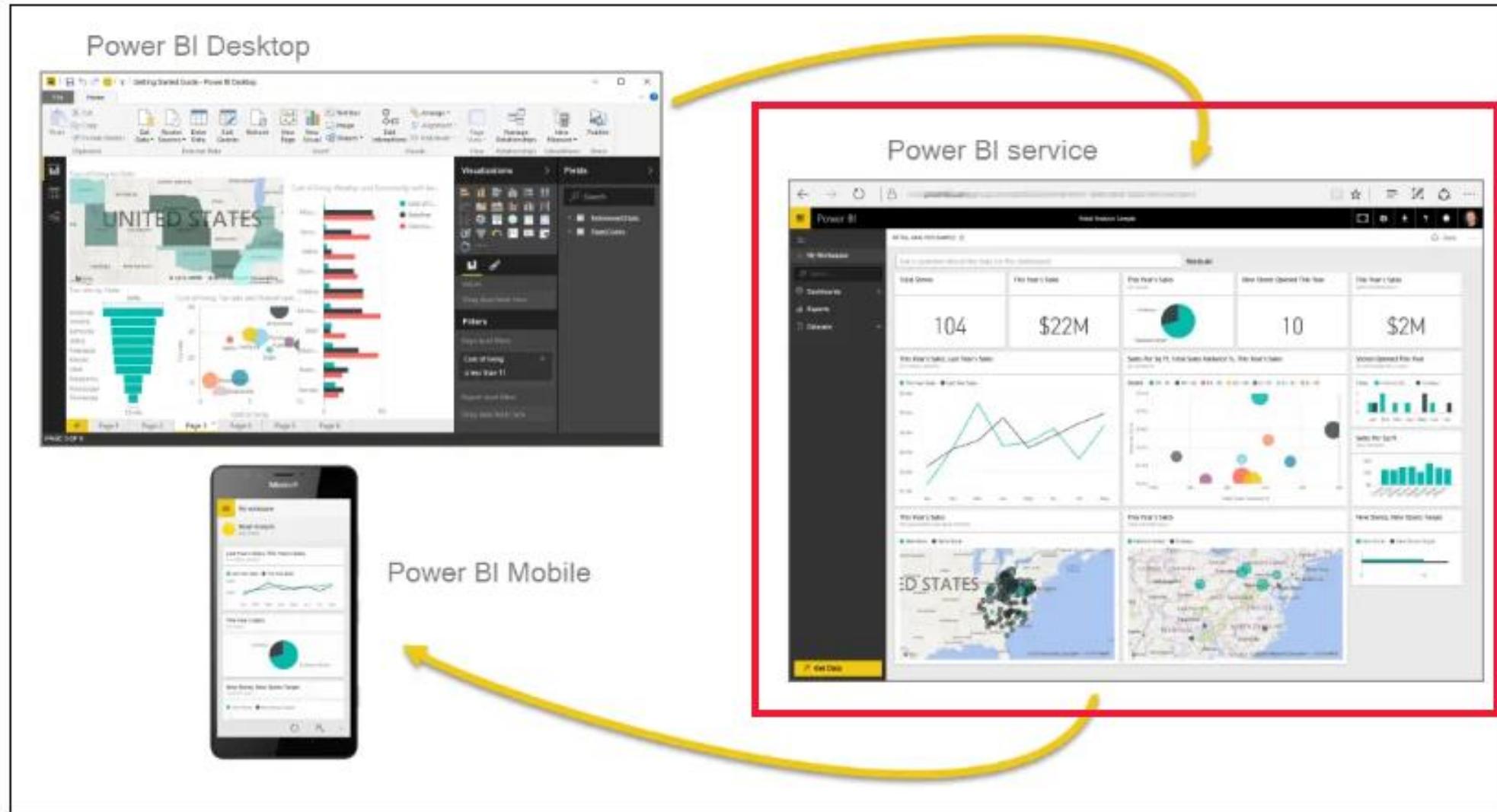


**Conrad Moss**

Power BI Developer at Hamilton Insurance Group



# What is Power BI ?



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# Power BI Week 8

## Agenda



### Agenda

Back to Dax basics (check what we did in Lesson 3)

Calculated Columns | Measures

Sum | Time Intelligence | YTD, YoY | Filter | All

KPI Visuals & Stories

Bullet chart

Financial reporting ZebraBI or 3AG

KPI stories

Review interacting with visuals in the PBI Service

Power BI & Excel

Power BI Premium

# Back from Power BI Week 3

## Dax Measures

DAX

Goto L8\_ExecutiveSummaryV1.pbix tab 8-DAX

Calculated Columns

Measures

Demo Measure

Sales QTD, SPLY, TotalYTD, YTD, Total Sales, CY-SPLY

# Power BI Week 8

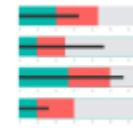
## KPI Visuals



KPI visual

Advanced Card

Bullet Visual



Bullet Chart

A bar chart with extra visual elements to provide additional context. Useful for tracking goals

★★★★★

Add

KPI visual:

<https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-kpi>

<https://docs.microsoft.com/en-us/power-bi/create-reports/sample-retail-analysis>



Bullet:

<https://appsource.microsoft.com/en-us/product/power-bi-visuals/wa104380755>

Advance Card:

<https://appsource.microsoft.com/en-us/product/power-bi-visuals/wa104381651>

<https://bhaveshjadav.in/powerbi/advancecard/>



Advance Card

Advance card visual with more options than default card visual available in Power BI

★★★★★

Add

# Power BI Week 8

## KPI visuals



### Other amazing visualizations

#### Zebra BI

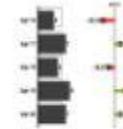
<https://zebrabi.com/power-bi-custom-visuals/>

Show the visuals from above page ££ \$\$

#### 3AG – financial charts

<https://www.3agsystems.com/reporting-and-analytics>

- Bar Chart with Relative Variance
- Column Chart with Variance
- Column Chart with Small Multiples
- Column Chart with Relative Variance
- Line Chart with Absolute Variance
- Income Statement with Variance
- Bar Chart with Absolute Variance
- OEE Dashboard
- Column Chart with Upper and Lower Bounds



3AG Systems - Bar Chart With Relative V...

Calculates percentage change and displays an overlapped bar chart with lollipop variance

★★★★★

Add



Zebra BI Tables ⭐

Stunning tables with charts. Perfect for sales or cost variance reporting, income statements, ...

May require additional purchase

★★★★★

Add

# Power BI Week 8

## Power BI v Tableau

Used to show this .pdf to help decide which chart

<https://extremepresentation.typepad.com/files/choosing-a-good-chart-09.pdf>

Now I use this

Visuals by analysis category across 2 BI reporting tools

Power BI : [Visual Vocabulary](#)

Tableau : [Visual Vocabulary](#)

# Power BI Week 8

From week 7 : More Power BI Service features



Show all menu features

Download .pbix, Print & Report settings

Export to Power Point, PDF & Analyze in Excel.

Share: Report, Generate a QR code, Embed report in Sharepoint, Website or Publish to Web.

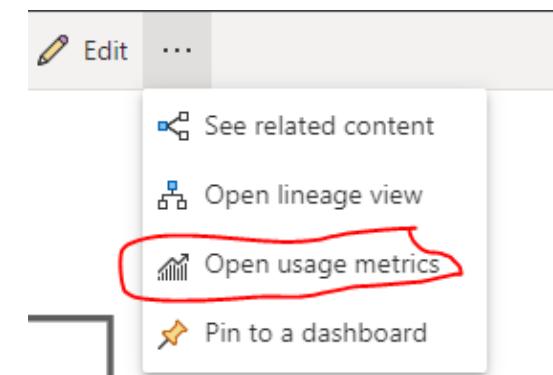
Teams: Chat in Teams

Comment on report

Subscribe to a report

Edit report, Save as

See related, open lineage, **usage metrics**.



# Power BI Week 8

## Power BI & Excel



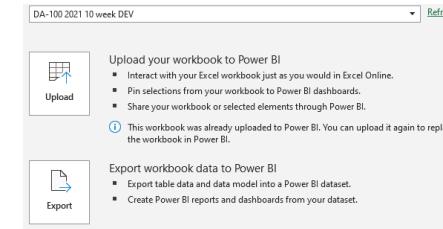
### In Excel

Get Data is Power Query in Excel 2016 native on Ribbon in Data tab (Excel 2010 addin)

Use web connector to Demo csv from

<https://raw.githubusercontent.com/wottabyte/PBITraining/master/PBIDSAI/FabrikamComments.csv>

in Ribbon for Excel PowerPivot (Datamodel) is similar to Power BI datamodelling – (Com Add-in ) – add table to Datamodel



In excel Publish content into PowerBI- How?

Export excel into Power BI Desktop – as a dataset

but best to Upload excel into Power BI Service then pin from excel online in Power BI

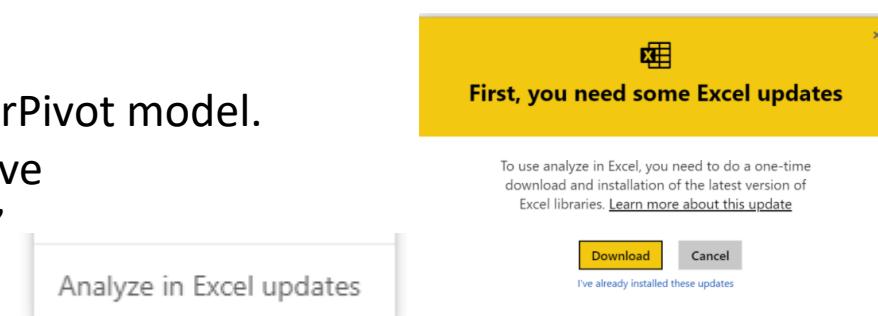
### In Power BI

In Power BI Desktop Import/upload an Excel PowerPivot model.

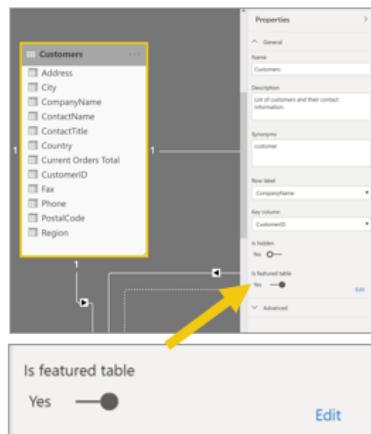
In Power Bi Service Get data > Files > local or 1 Drive

In Power Bi Service from a report ‘Analyze in Excel’

In power BI Service table ‘Export Data’



Select a table –  
• Use Properties pane  
• **Is featured table**



### Bonus

In Excel connect to PowerBI certified Datasets & Power BI Featured Tables

# OneDrive for Business

Choose how to connect to your Excel workbook

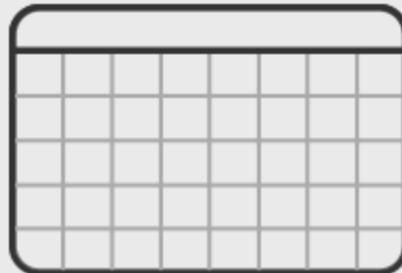


## Import Excel data into Power BI

Connect to the data in your workbook on OneDrive so you can create Power BI reports and dashboards for it. Data is automatically refreshed from OneDrive.

Import ➔

or



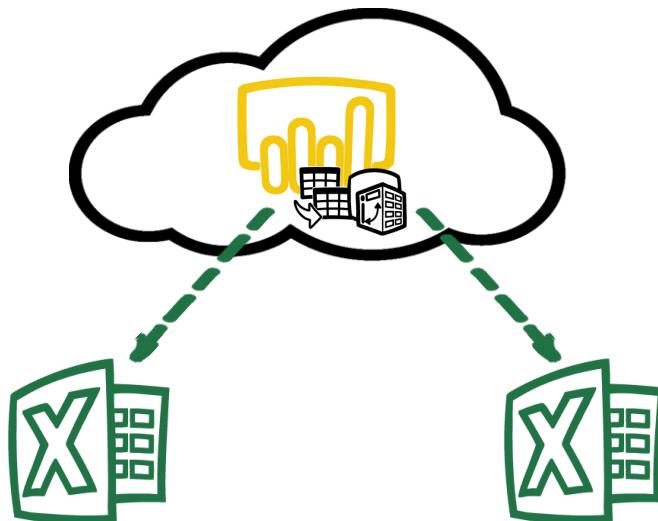
## Connect, manage, and view Excel in Power BI

Bring your Excel workbook into Power BI and see it exactly as it is in Excel Online - charts, PivotTables, worksheets, and all. Then keep your workbooks up to date with scheduled refresh.

Connect ➔

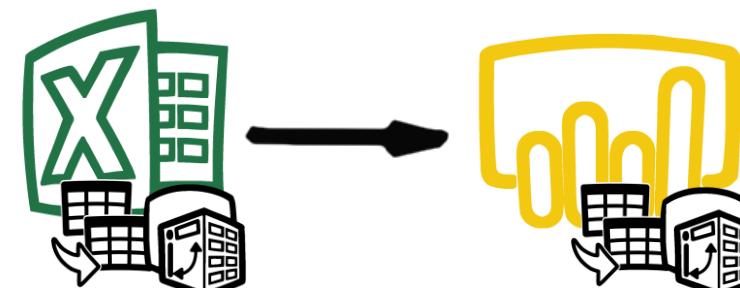
# Better Together

"And" is better than "Or"



**Publish to Power BI Service  
-> Analyze in Excel**

**Initial development in  
Excel -> Convert to Power BI**



**Use Excel to collect and  
collaborate on source data**



# Power BI Week 8

## Power BI & Excel



<https://powerbi.microsoft.com/en-us/excel-and-power-bi/>

<https://docs.microsoft.com/en-us/power-bi/collaborate-share/service-analyze-in-excel>

PBI to Excel :

Export data to excel : underlying or summarised csv (30,000) & excel (150,00)

Analyze in Excel : PivotTable in excel connected to dataset

Get data from Excel

<https://docs.microsoft.com/en-us/power-bi/connect-data/service-excel-workbook-files>

Excel & Power BI

<https://powerbi.microsoft.com/en-us/excel-and-power-bi/>

<https://docs.microsoft.com/en-us/power-bi/collaborate-share/service-excel-featured-tables>

<https://www.red-gate.com/simple-talk/sql/bi/best-worlds-using-excel-power-bi-together/>

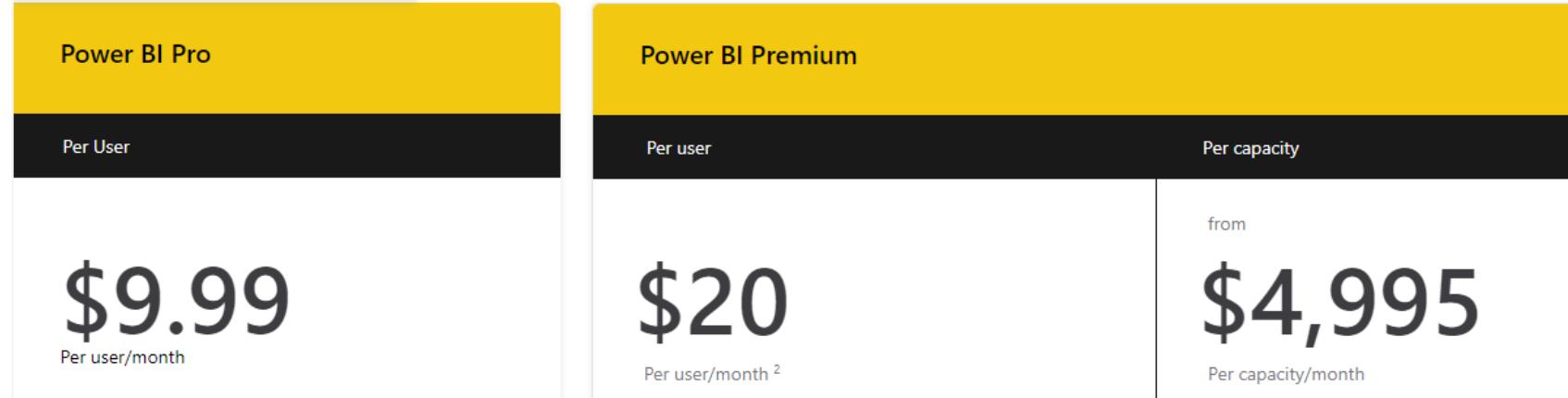
# Power BI Week 8

## Power BI Premium & Pricing



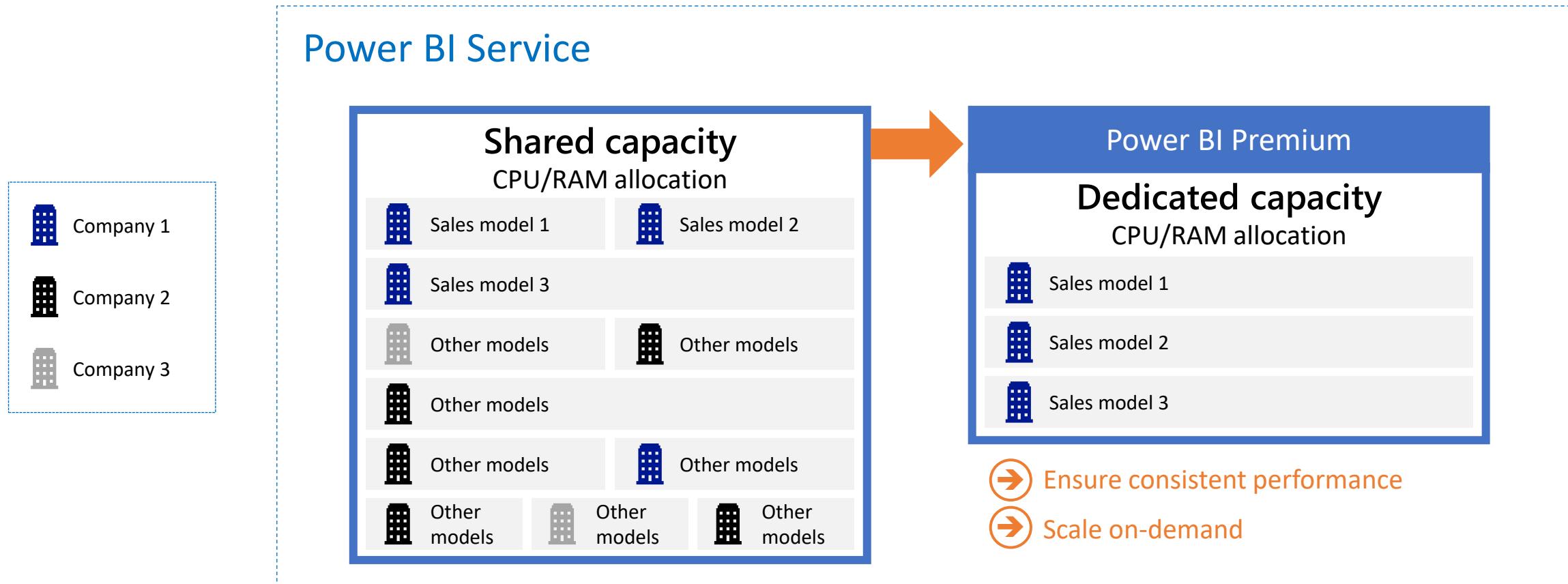
Flying intro to Power BI Premium

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



# Assign workspaces to your dedicated capacity

## Premium workspaces running on dedicated hardware



Models run on distributed hardware  
servicing multiple tenants

# Power BI Premium Top 5 Points

## Dedicated Capacity

Enhance performance by moving workspaces to dedicated hardware

---

## Increased Memory

Increase model memory from 1GB to 10GB. Premium Gen2 with autoscale.

---

## Increase user access

Users wont need a Pro license to view reports

---

## SSRS Integration

Integrate SSRS reports into Power BI

---

## More Big Data Friendly

Improve refreshing, incremental refresh

---

AI & AutoML features, XMLA, Deployment pipelines.

# Power BI Week 8

## Template



# Quick Survey of audience

<https://forms.office.com/Pages/ResponsePage.aspx?id=WkuituyrDEaGarPmYT9Z1NvMNOjKOFdHsnEJjP6WpoNUREdYRjdPUUQ0SzIQVzYzUEdJSkVKV1U5Ni4u>

Student go to form and submit  
Trainer display live online results in Power BI dashboard



# Lesson 8 of 10 Power BI Beginner

## Power BI DAX KPIs & visualizations

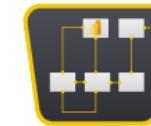


## Coursework Explained

# Power BI Week 8 CourseWork

Monday 8th March 2021

- Study all links on PBI & Excel
- Module – Repeat intro to DAX week 3 see ‘model data in Power BI > Intro to DAX’
- Microsoft Learn – ‘Visualize data in Power BI’
- Prepare for next week Module – Data analysis in Power BI



## Model data in Power BI

5 hr 31 min • Learning Path • 3 Modules

Intermediate Data Analyst Power BI



### LEARNING PATH

#### Data analysis in Power BI

0 of 2 modules completed

Intermediate Data Analyst Power BI



#### Introduction to creating measures using DAX in Power BI

2 hr 40 min • Module • 10 Units

★★★★★ 4.7 (1,636)



#### Perform analytics in Power BI

51 min • Module • 0 of 12 units completed

★★★★★ 4.7 (995)

<https://docs.microsoft.com/en-us/learn/patterns/visualize-data-power-bi/>

# Microsoft Power BI Associate

## DA-100 Certification

docs.microsoft.com/en-us/learn/certifications/exams/da-100

 Microsoft | Docs Documentation Learn Q&A Code Samples

Learn Products Roles Learn TV Certifications FAQ & Help LE

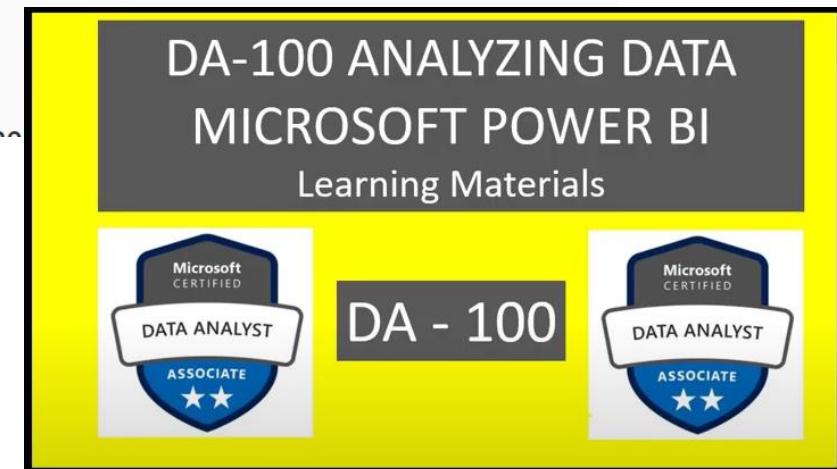
Docs / Learn / Browse Certifications / Exam DA-100: Analyzing Data with Microsoft Power BI - Learn



## Exam DA-100: Analyzing Data with Microsoft Power BI

<https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>

YOU Tube DA-100 : <https://www.youtube.com/watch?v=CI7hdjq0ZxI>

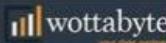


# Social Media : Meetup , LinkedIn, YouTube

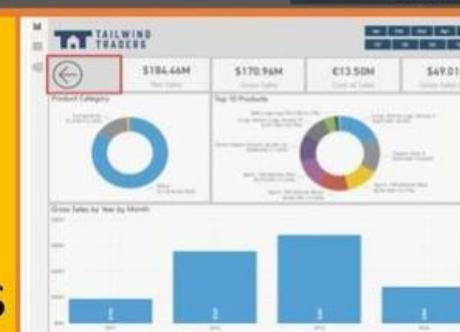
← → C [meetup.com/The-Power-BI-Apprentice/](https://meetup.com/The-Power-BI-Apprentice/)

 Search for keywords

---

POWER BI 

Power BI  
Beginners 10  
week online  
course with labs



Trainers : David Moss & Conrad Moss

## The Power BI Apprentice

London, United Kingdom  
617 members · Public group   
Organized by David M.



@wottabyte



wottabyte



[www.wottabyte.com](http://www.wottabyte.com)

About Events Members Photos Discussions More

[Join this group](#)

...

# You Tube

<https://www.youtube.com/channel/UCDtmmwK3YxWqzDNZ5L3pdMw>  
<https://youtu.be/dW08MYqbJ7k>



The screenshot shows the YouTube channel page for 'wottabyte'. The channel logo features a stylized bar chart icon. The channel name 'wottabyte' is displayed in large, bold, dark blue letters, with the tagline 'your data partner' in orange below it. The subscriber count is listed as 64. Navigation links include HOME, VIDEOS, PLAYLISTS, CHANNELS, DISCUSSION, ABOUT, and a search icon. Below these are buttons for CUSTOMISE CHANNEL and MANAGE VIDEOS. The 'VIDEOS' tab is selected, showing a grid of six video thumbnails. The first video is titled '4/10 Power BI Beginners Coursework Lesson 4' and has 18 views. The second video is 'Lesson 4 - Power BI Beginners Online Training...' with 24 views. The third is '3/10 Power BI Beginners Coursework Lesson 3' with 27 views. The fourth is 'Lesson 3 - Power BI Beginners Online Training...' with 52 views. The fifth is 'PL-900 Power Platform Fundamentals' with 24 views. The sixth is 'DA-100 ANALYZING DATA MICROSOFT POWER BI Learning Materials' with 44 views. Each thumbnail includes the video title, duration, and view count.

Power BI Beginners Training 2021 Lesson 1 - 10  
wottabyte - 1/9

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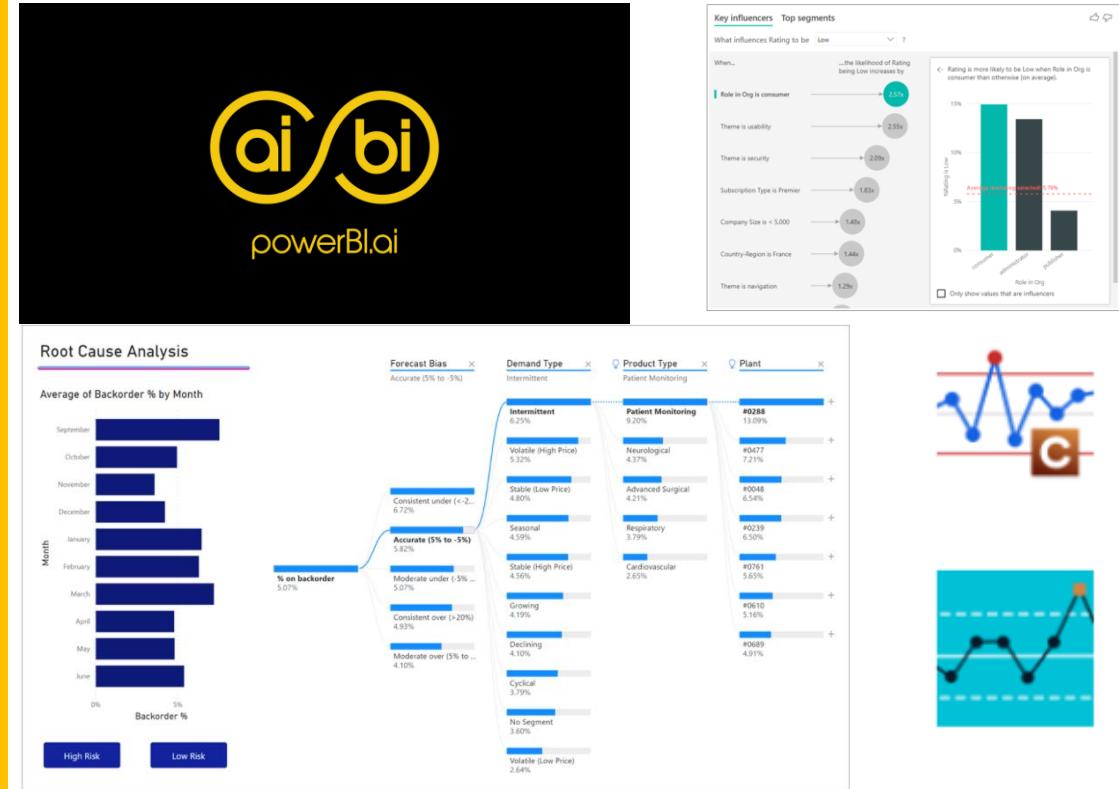
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# Lesson 9 of 10 Power BI Beginner

# Data Analytics & Power BI AI features with PowerBI.ai



## MONDAY 15th MARCH 17:00 GMT



# NEXT WEEK : Power BI Week 9

15th March

Data Analytics & AI features in Power BI



Watch email & social media channels when event goes live 2 register.

Lesson 9 of 10 Power BI Beginner

Data Analytics & PowerBI.ai

MONDAY 15<sup>th</sup> MAR 17:00 GMT

# Links

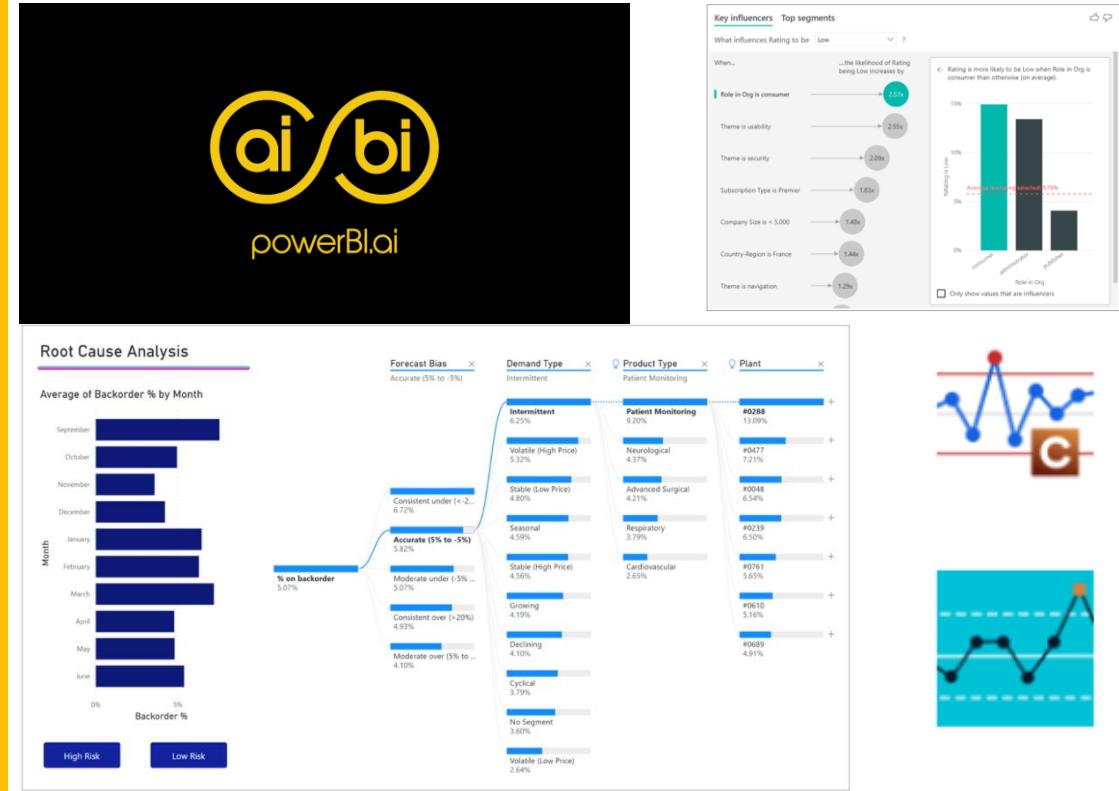
- Youtube Lesson 8: [https://www.youtube.com/watch?v=9ZM\\_S3trjTw](https://www.youtube.com/watch?v=9ZM_S3trjTw)
- Youtube courseworks Lesson 8: [https://www.youtube.com/watch?v=L\\_dtvk660go](https://www.youtube.com/watch?v=L_dtvk660go)
- Register Lesson 9: <https://www.meetup.com/The-Power-BI-Apprentice/events/>
- Register Q&A Workshop 9: <https://www.meetup.com/The-Power-BI-Apprentice/events/276790365/>
- DA-100: <https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>
- Course Slides:  
<https://github.com/wottabyte/PBITraining/raw/master/10WeekPBlonline2021/DA-100%2010%20weeks%20All%20Slides%20-%20Master.pdf>
- You Tube : Course Playlist <https://youtu.be/CI7hdjq0ZxI>

## LAST PAGE

Please ignore the following pages as they are just draft preparation slides for future sessions

# Lesson 9 of 10 Power BI Beginner

# Data Analytics & Power BI AI features with PowerBI.ai



## MONDAY 15th MARCH 17:00 GMT

Lesson 9 of 10 Power BI Beginner

# PowerBl.ai data analytics

MONDAY 15<sup>th</sup> March 17:00 GMT

Flyer for LinkedIN Events

Power BI Beginner - NOW

# Power BI Q&A Workshop 9

MONDAY 15<sup>th</sup> March 21:00 GMT

Flyer for LinkedIn Events

# Power BI – LESSON 9 of 10

beginners free 10 weeks online training course



# Power BI Week 9

## Template



# Power BI Week 9

## Data analytics visualizations & AI



Analytic explanatory report or Exploratory  
Exploratory visualizations

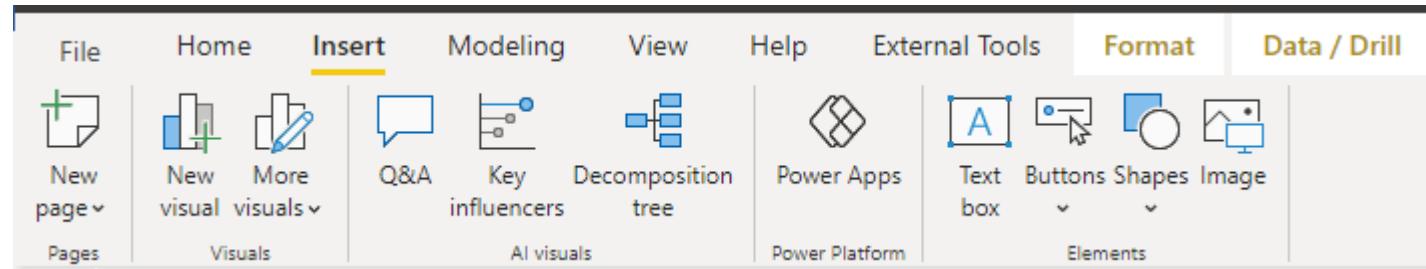
Q&A | Decomposition Tree | Key Influencers  
Custom Visuals : Box & Whisper | SPC

More AI features within Power BI AI toolkit !!  
Python | R | AI in PQE  
Power BI Premium | AI dataflows | Consume AI models

Power Platform PL-900 intro

# Power BI Week 9

AI visuals built in Power BI Desktop



Q&A: <https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-q-and-a>

Key Influencers: <https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-influencers>

Decomposition Tree: <https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-decomposition-tree>

# Power BI Week 9

## OOTB KPI visuals



OOTB – Out of The Box  
Box & Whisper  
SPC (Lego slides)



Box and Whisker chart by MAQ Software...  
Display data distribution quartiles in a box plot.

Add



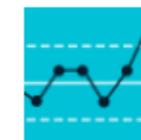
Box and Whisker chart   
Visualize a dataset in an effective way as a five-number summary (mean, median, quartiles, min/max)

Add



SPC C Chart   
The only NHS Improvement and IHI SPC rules compliant solution for Power BI.  
[May require additional purchase](#)

Add



Individuals Control Chart by PQ Systems  
An SPC chart for analysis of process stability where the sample size is one.  
[May require additional purchase](#)

Add

# Power BI Week 9

## Python & R Visuals

Create your own custom visual with Custom Visual SDK NodeJS .pbviz

R or Python visuals

R CRAN IDE Rstudio r dataset

Python Anaconda pandas dataframe

Show off here an R Visual Hawaii

Also import R & Python custom visuals

# Power BI Week 9

## Power BI AI toolkit



More advanced  
Power BI AI toolkit –'Advanced series – Introduction'

Cognitive Services  
Azure Notebooks  
R studio

etc

# Power BI Week 9 CourseWork

Monday 15th March 2021

- Microsoft Learn – ‘DA-100’ – Analyzing Data with Microsoft Power BI
- Learning Path – Data analysis in Power BI
- Module – Work with AI Visuals

LEARNING PATH



**Data analysis in Power BI**  
0 of 2 modules completed

Intermediate Data Analyst Power BI



**Work with AI visuals in Power BI**  
1 hr 1 min • Module • 0 of 7 units completed  
★★★★★ 4.7 (1,055)

This module describes the AI capabilities of Power BI.

[https://docs.microsoft.com/en-us/learn\(paths/visualize-data-power-bi/](https://docs.microsoft.com/en-us/learn(paths/visualize-data-power-bi/)

# Power BI – LESSON 10 of 10

beginners free 10 weeks online training course



# Power BI Week 10

## Template



# Power BI Week 10

## Agenda



Workspaces

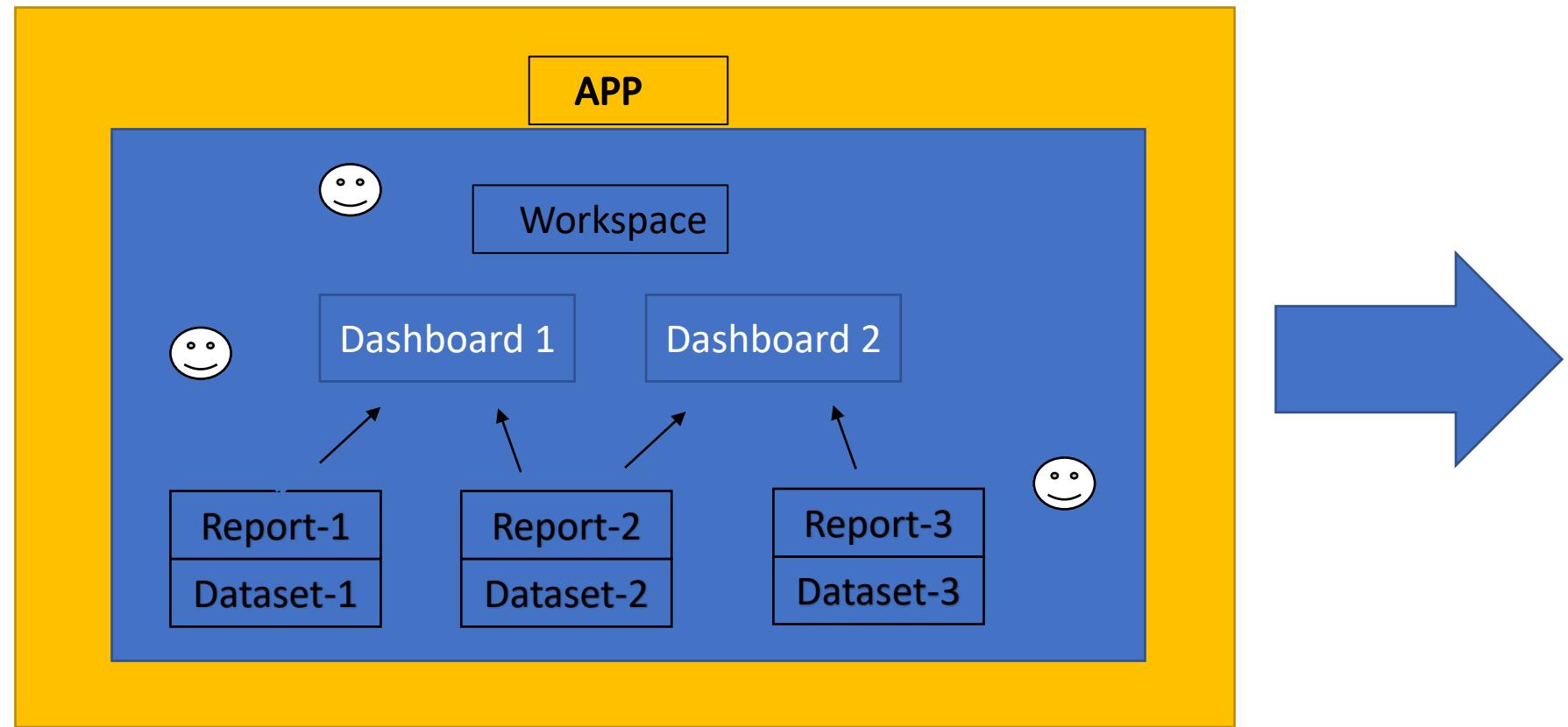
Datasets

Row Level security

Power BI gateway

# Power BI Enterprise Sharing

- Workspaces & Apps
- Workspace for either group, dev, prod, subject, department
- Team of developers edit in workspace
- Create & share APP



# Power BI Week 10

## Datasets & RLS – Row Level Security



# Power BI Week ?

## Report Performance



Not for Beginners

Performance Analyzer  
Tune Performance

# Power BI Week 10

## Course review



Power BI at work

Roles

DA-100

CVs to me

# Power BI Training

## Links



YouTube Channel: <https://www.youtube.com/channel/UCDtmmwK3YxWqzDNZ5L3pdMw>

Meetup events: <https://www.meetup.com/The-Power-BI-Apprentice/events/>

GitHub files: <https://github.com/wottabyte/PBITraining/tree/master/10WeekPBlonline2021>

DA-100: <https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>

**WOTTA**

**BYTE**