

Power BI

beginners free 10 weeks online training course

Power BI

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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

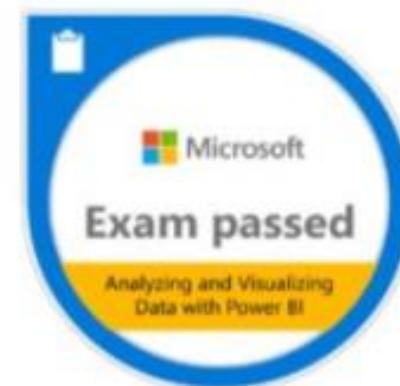
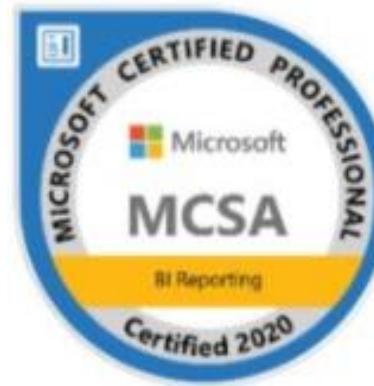


www.wottabyte.com



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

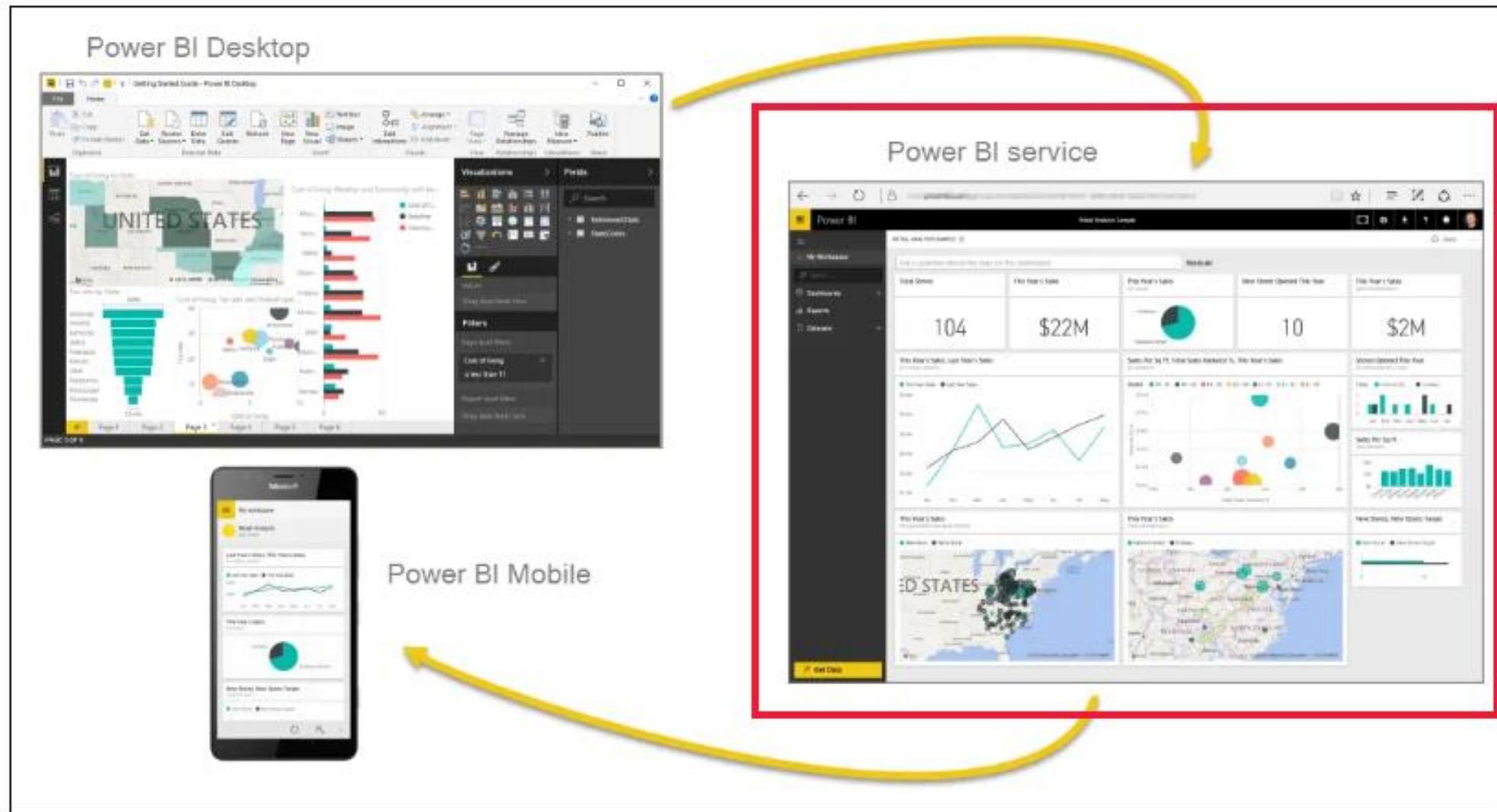


Power BI

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

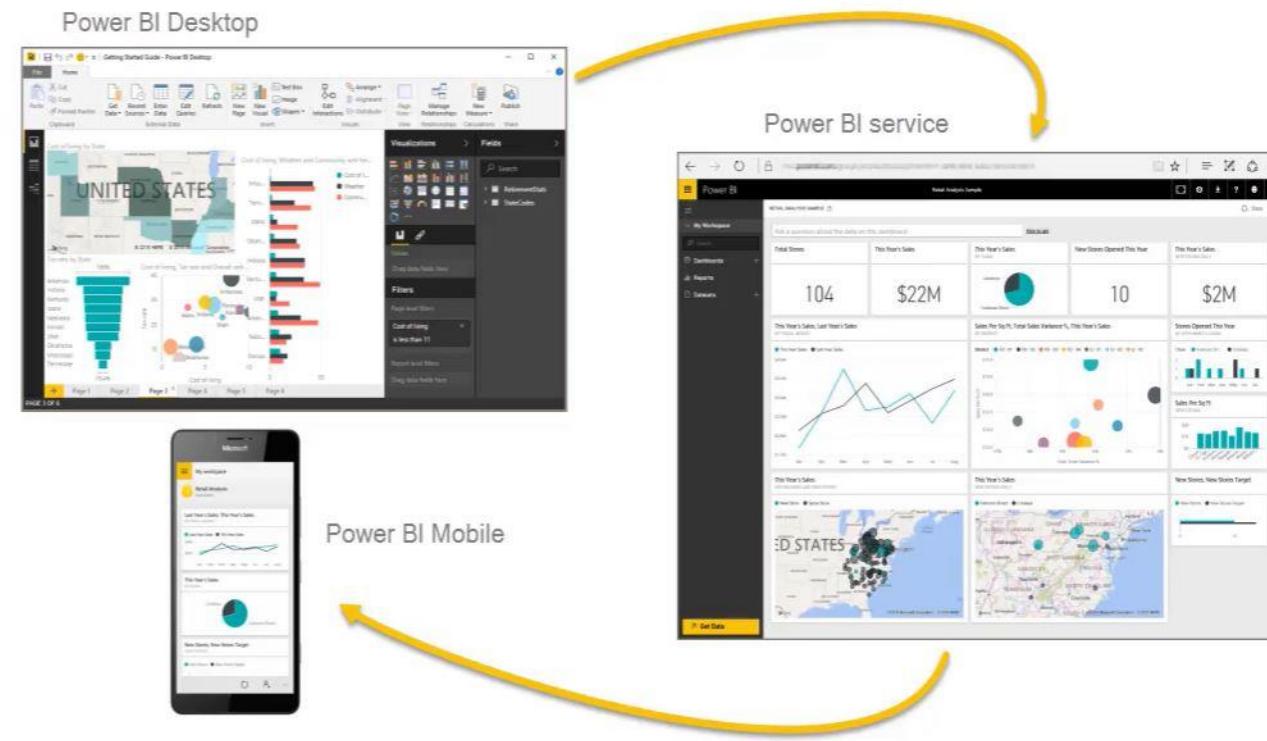
What is Power BI ?



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

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

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)

Bar chart showing Sales Amount for top 5 categories:

| Category | Sales Amount |
|-------------------------------|--------------|
| Computers | \$8.2M |
| Home Appliances | \$4.3M |
| TV and Video | \$2.9M |
| Cameras and camcorders | \$2.0M |
| Cell phones | \$1.2M |
| Audio | \$0.9M |
| Music, Movies and Audio Books | \$0.5M |
| Games and Toys | \$0.3M |

Line chart showing Units for top 5 categories:

| Category | Units |
|-------------------------------|-------|
| Computers | 21.2K |
| Home Appliances | 8.2K |
| TV and Video | 5.8K |
| Cameras and camcorders | 5.5K |
| Cell phones | 3.5K |
| Audio | 3.9K |
| Music, Movies and Audio Books | 1.0K |
| Games and Toys | 2.0K |

Donut chart showing Average Sale Amount by Class:

| Class | Avg. Sale Amount |
|---------|------------------|
| Deluxe | \$1.75M |
| Economy | \$7.78M |
| Regular | \$9.38M |

Scatter plot showing Units by Class & Brand:

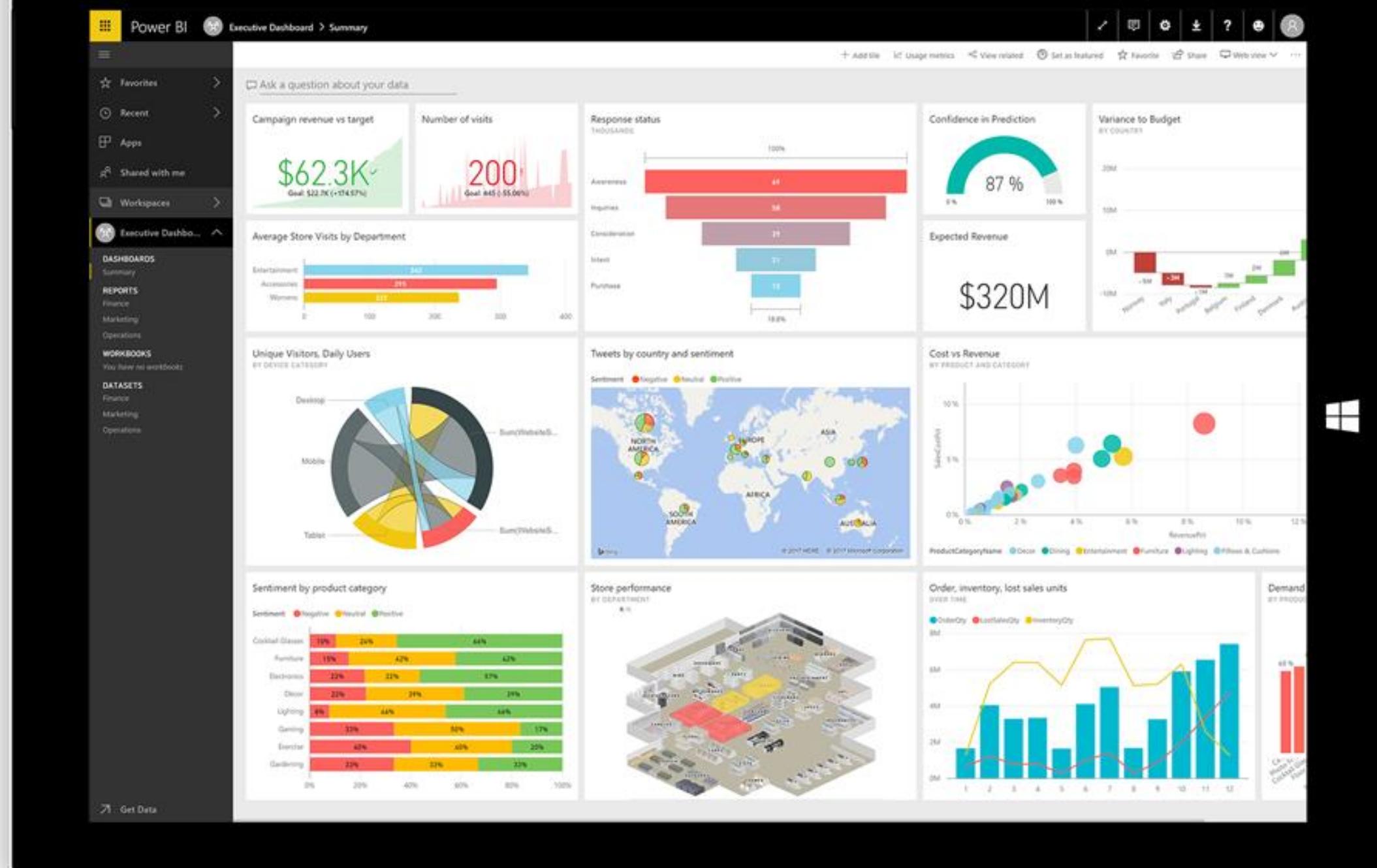
| Avg. Repurch | Avg. NSAT | Class | Brand |
|--------------|-----------|---------|---------|
| 2.2 | 2.3 | Deluxe | Brand A |
| 2.3 | 2.4 | Deluxe | Brand B |
| 2.4 | 2.5 | Economy | Brand C |
| 2.5 | 2.6 | Economy | Brand D |
| 2.6 | 2.7 | Economy | Brand E |
| 2.7 | 2.8 | Regular | Brand F |

Fields pane:

- Sales:
 - BrandName
 - Category
 - Class
 - Color
 - Country
 - CustomerAcc...
 - Manufacturer
 - NSAT
 - OrderDate
 - ProdID
 - ProductDescri...
 - ProductLabel
 - ProductName
 - RePurch
 - Sale Size
 - SalesAmount
 - SalesAmount ...
 - SalesChannel...
 - SalesOrderID
 - StockType
 - StoreKey
 - StyleName
 - SubCategory
 - Units
- 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

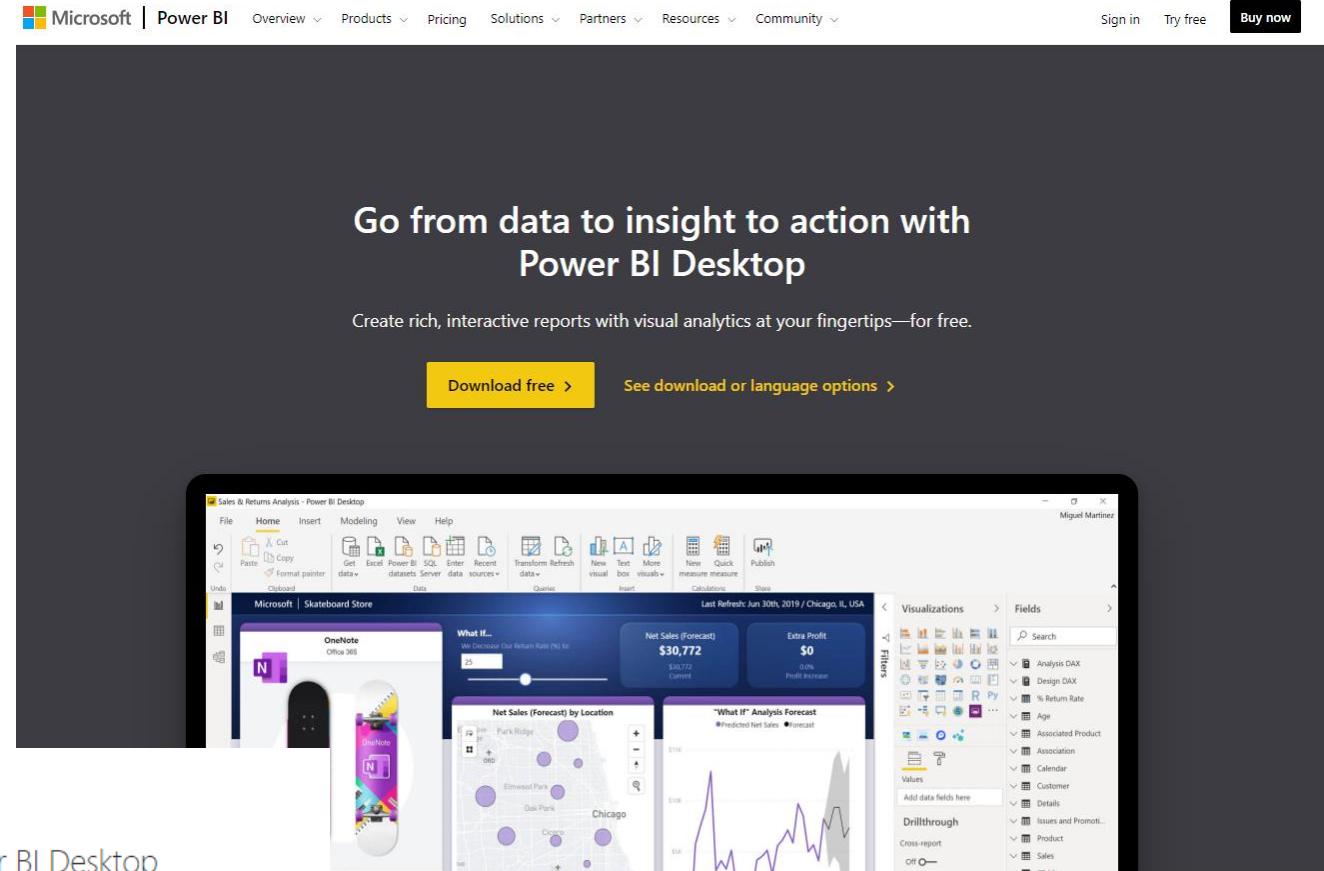
- Download Power BI Desktop from www.powerbi.com
- Install
- Build your first report - use blog next page
- Quick look at PBI Desktop features
- Save your report as .pbix
- Get a Microsoft account
- Publish to Power BI Service app.powerbi.com
- Workshop this eve at 21:00 – 22:00 for 1-2-1 help.

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

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
- You need a MS a/c not gmail !!
- <https://docs.microsoft.com/en-us/power-bi/fundamentals/service-self-service-signup-for-power-bi>

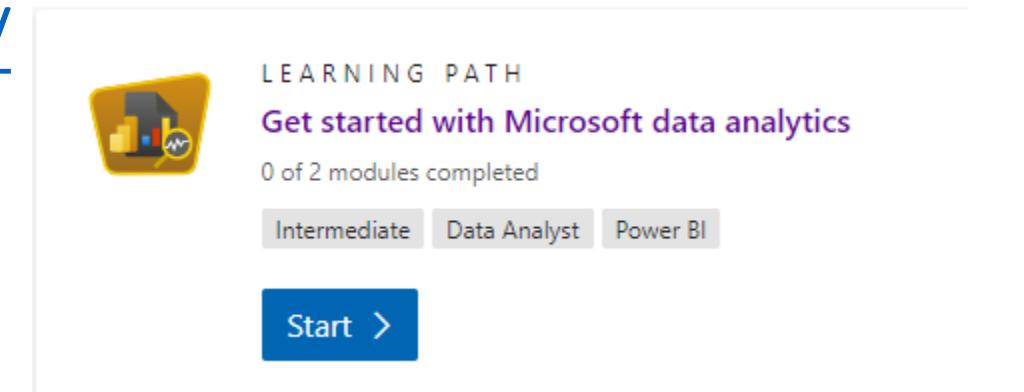
Workshop this eve at 21:00 – 22:00 GMT

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



Preparation for next week

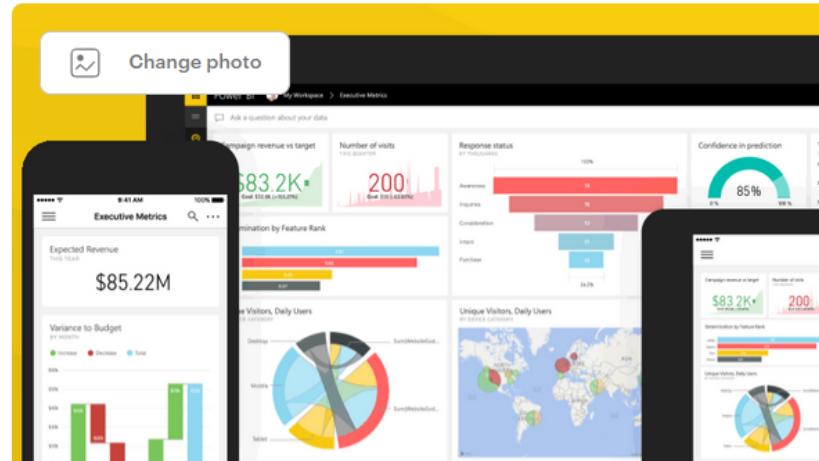
- Microsoft Learn : <https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>
- Get started with MS data analytics <https://docs.microsoft.com/en-us/learn/patterns/data-analytics-microsoft/>
- Microsoft documentation : <https://docs.microsoft.com/en-us/power-bi/learning-catalog/>



Social Media : Meetup , LinkedIn, YouTube

← → ⌂ meetup.com/The-Power-BI-Apprentice

Meetup [Start a new group](#)



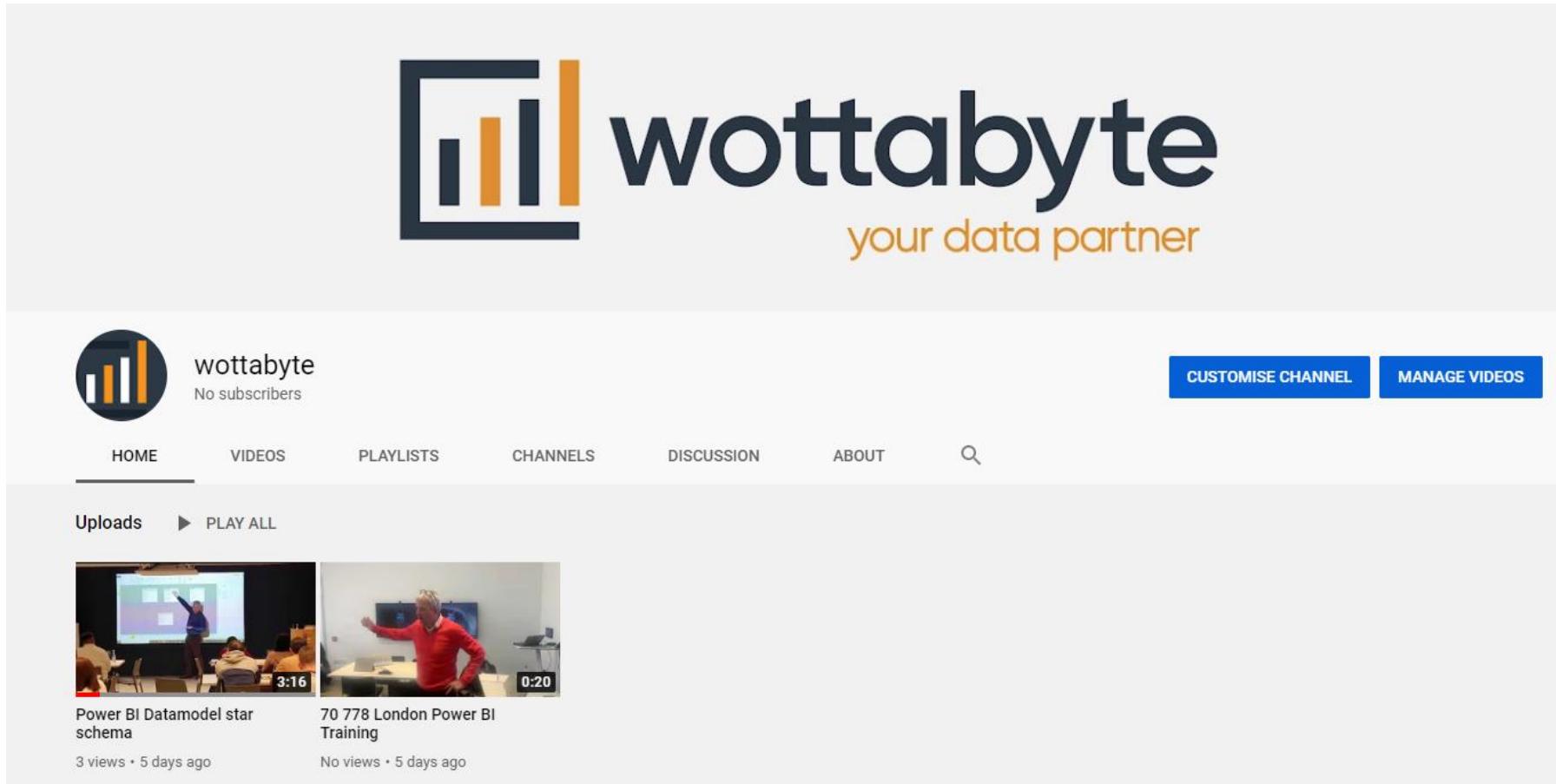
The Power BI Apprentice

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" and includes two video thumbnails. The first video, "Power BI Datamodel star schema", has a duration of 3:16 and was uploaded 5 days ago with 3 views. The second video, "70 778 London Power BI Training", has a duration of 0:20 and was uploaded 5 days ago with 0 views.

wottabyte
No subscribers

CUSTOMISE CHANNEL MANAGE VIDEOS

HOME VIDEOS PLAYLISTS CHANNELS DISCUSSION ABOUT

Uploads ► PLAY ALL

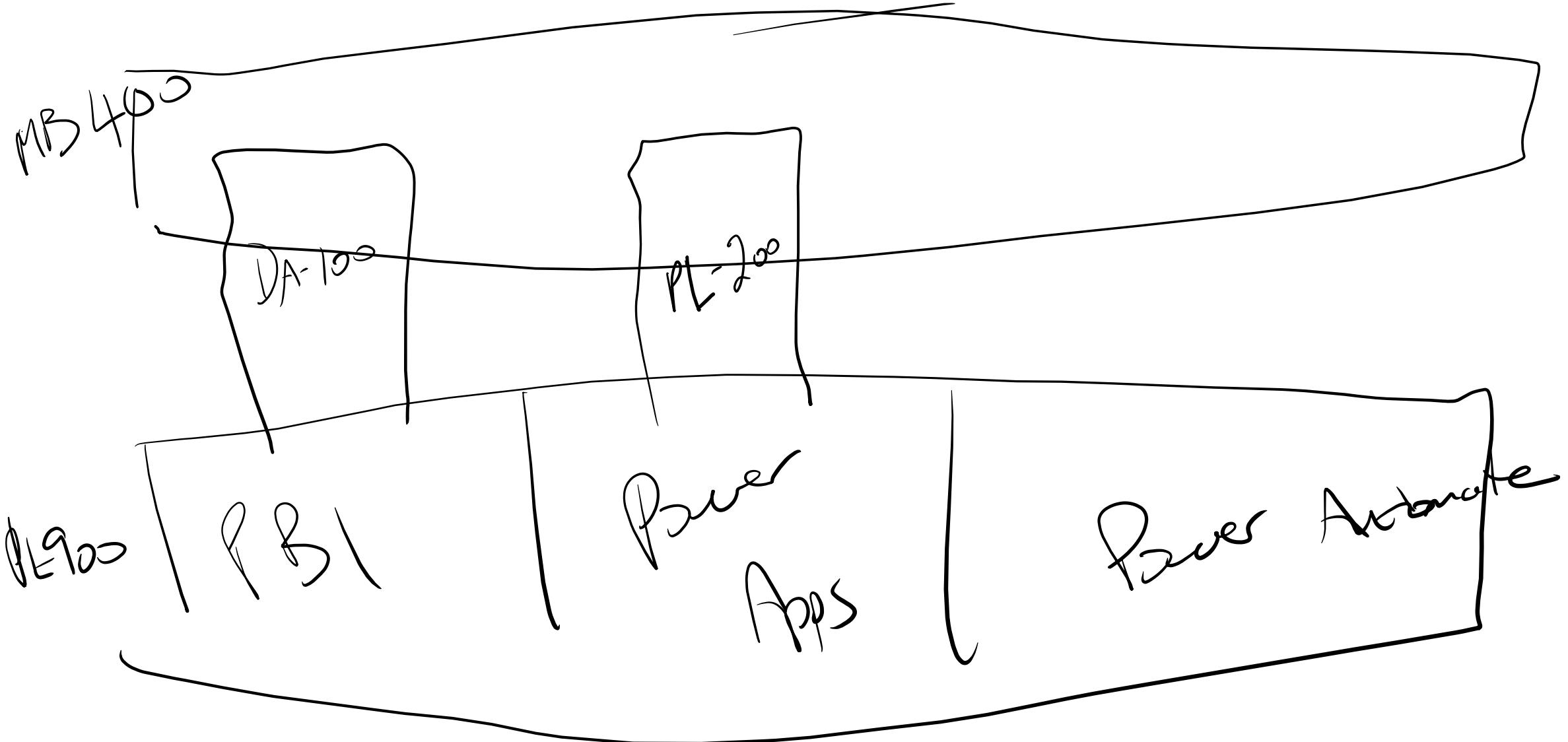
Power BI Datamodel star schema
3:16
3 views • 5 days ago

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



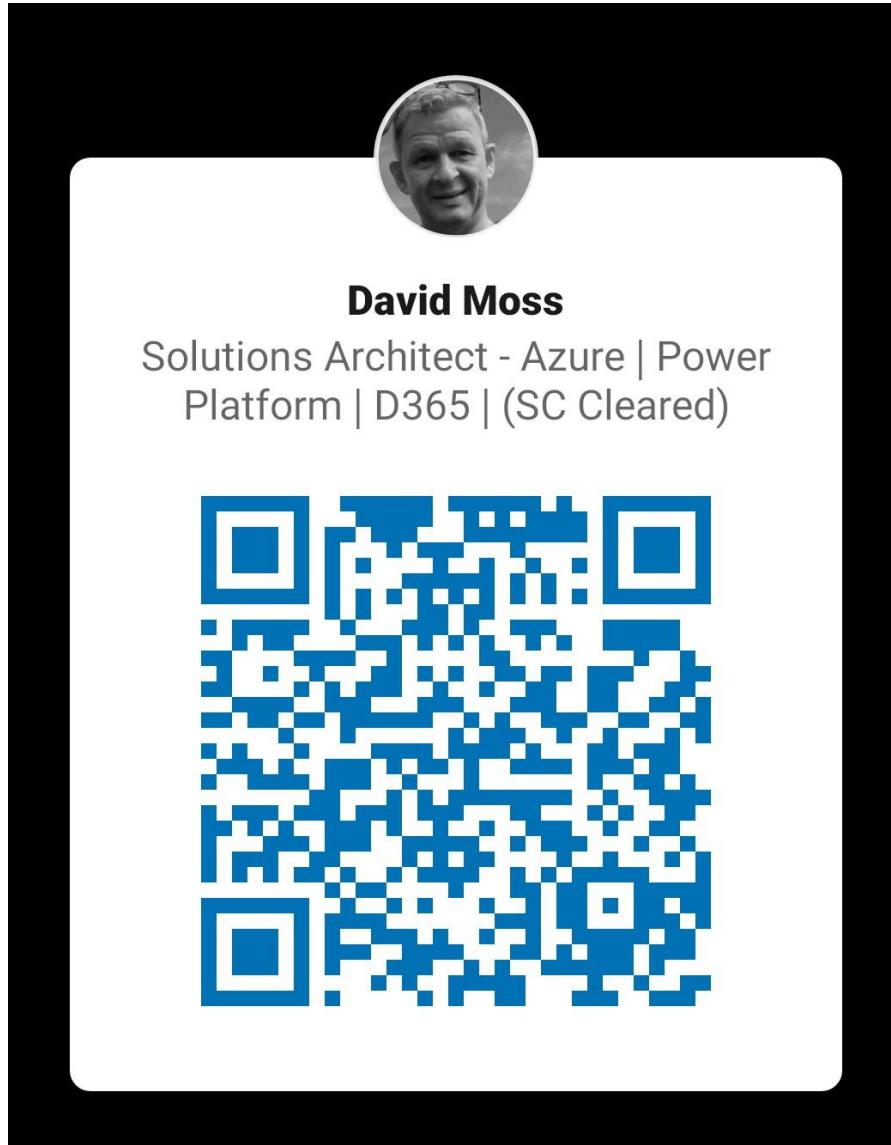
Power BI Week 2

Monday 25th Jan 2021

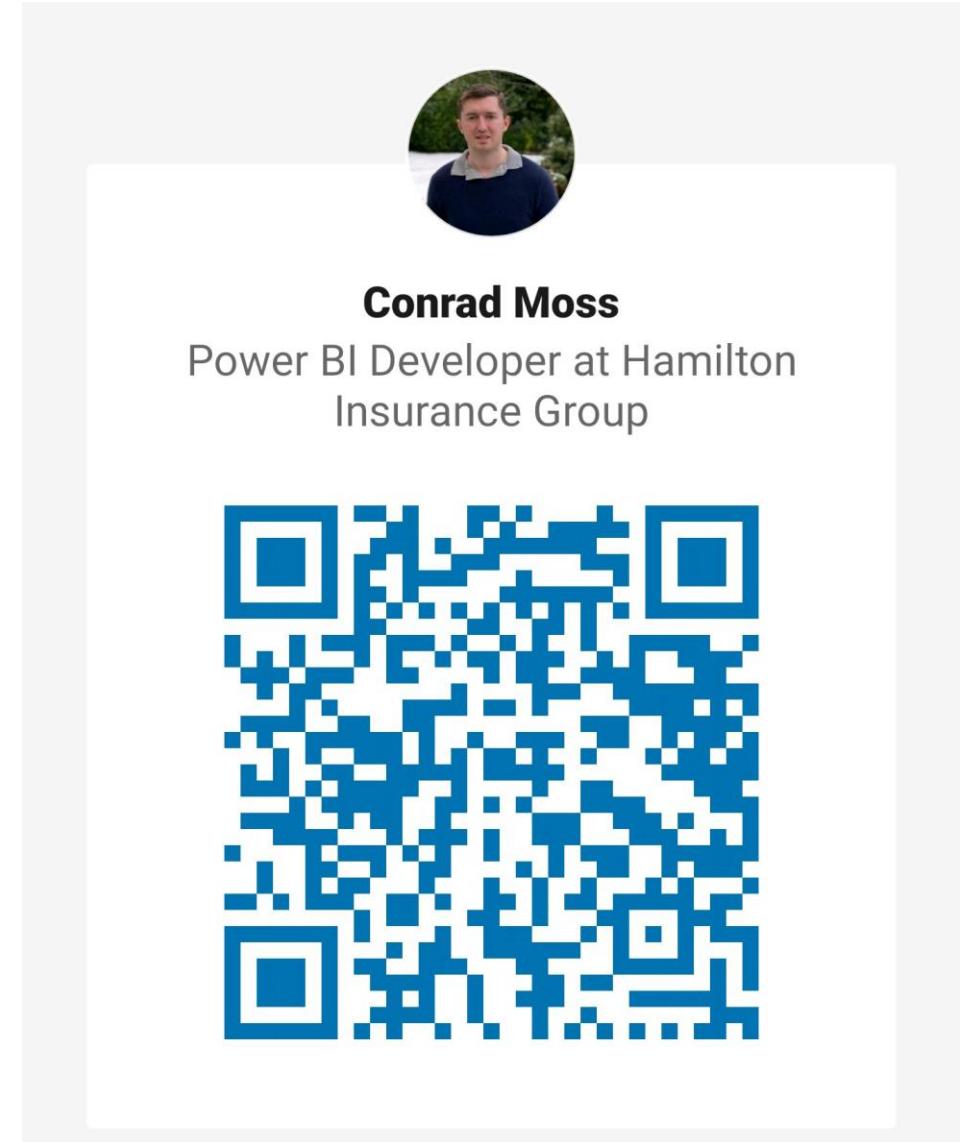
Use Power Query Editor to get data & prepare your data

- Hi & Intros: David & Conrad
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- 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
- 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

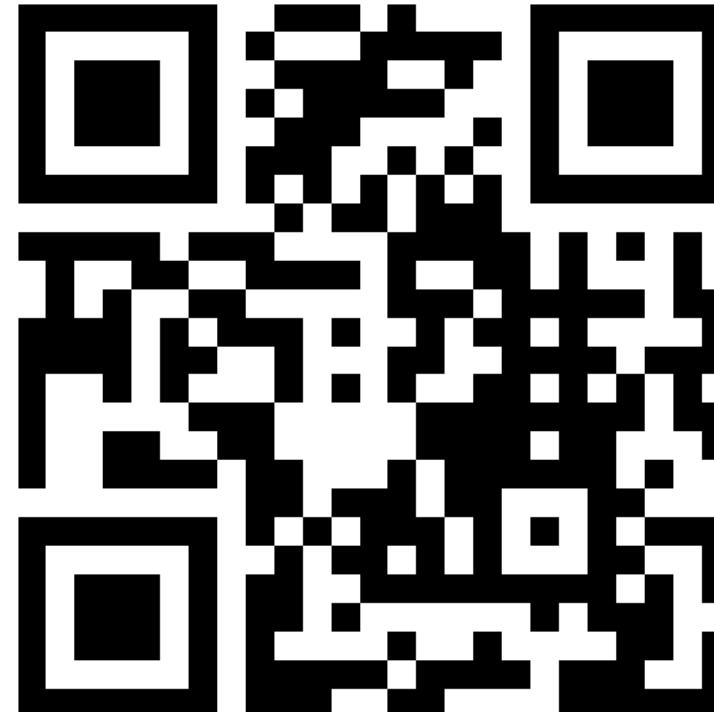
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Power BI Week 2

Monday 25th Jan 2021

- 1st a quick QUIZ !! www.mentimeter.com
- **50 24 12 1**
- <https://www.menti.com/csb5wsjst2>



Power BI Week 2

Monday 25th Jan 2021

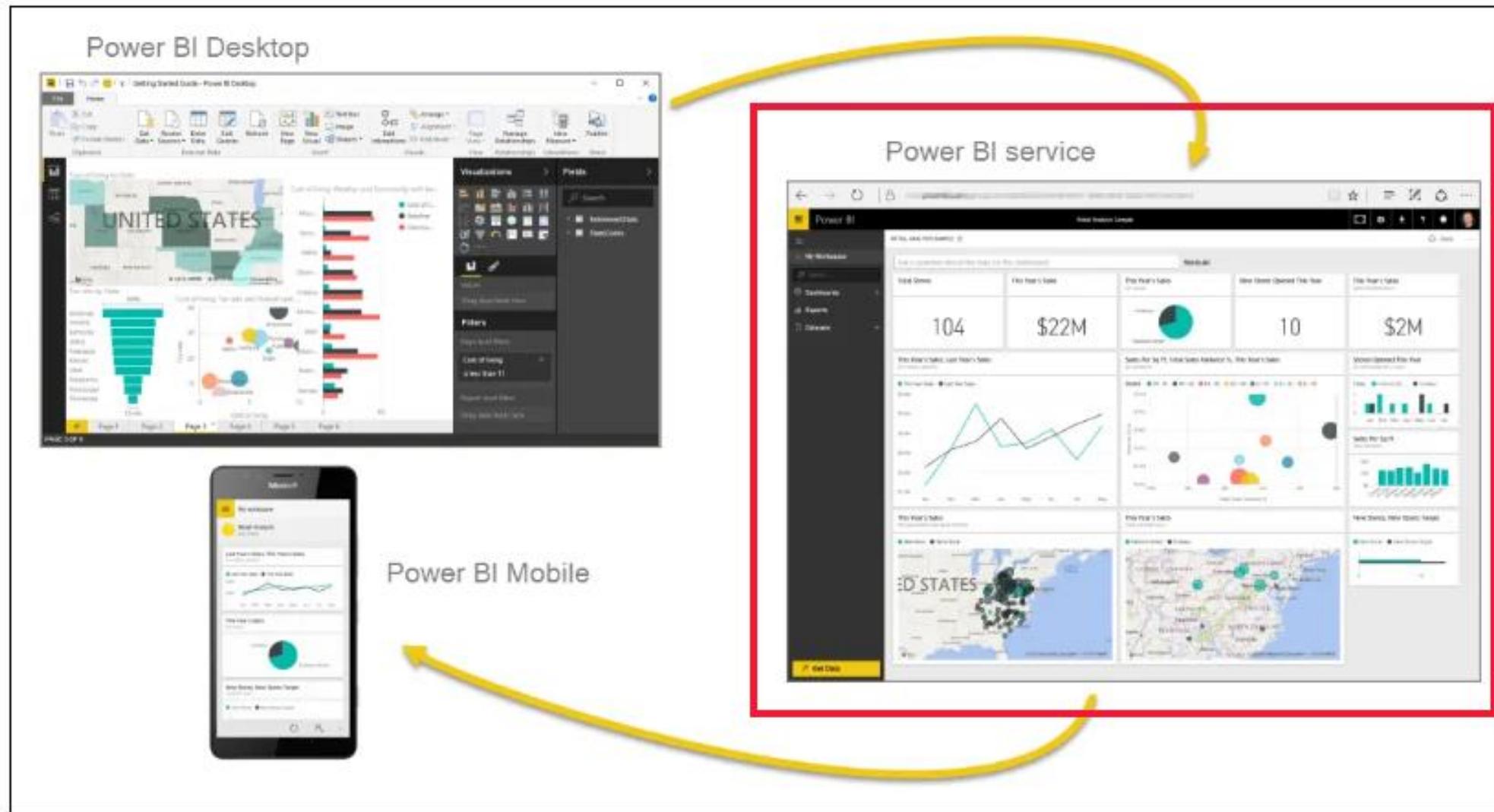
- 1st lets finish of Lesson 1
- Complete Power BI report from Lesson 1
- Sign up & login for Power BI Service account (needs a Microsoft a/c)
- Publish report to the Power BI service
- Explain what is Power BI Service basics
- Navigate report in Power BI Service
- Back to get & prepare data with Power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

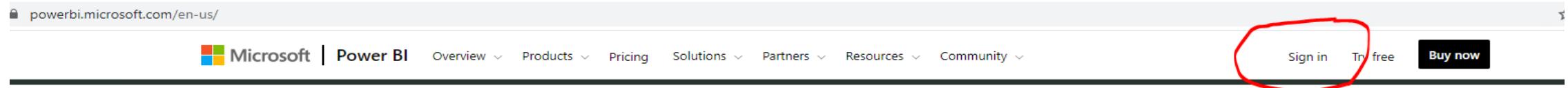


What is Power BI ?



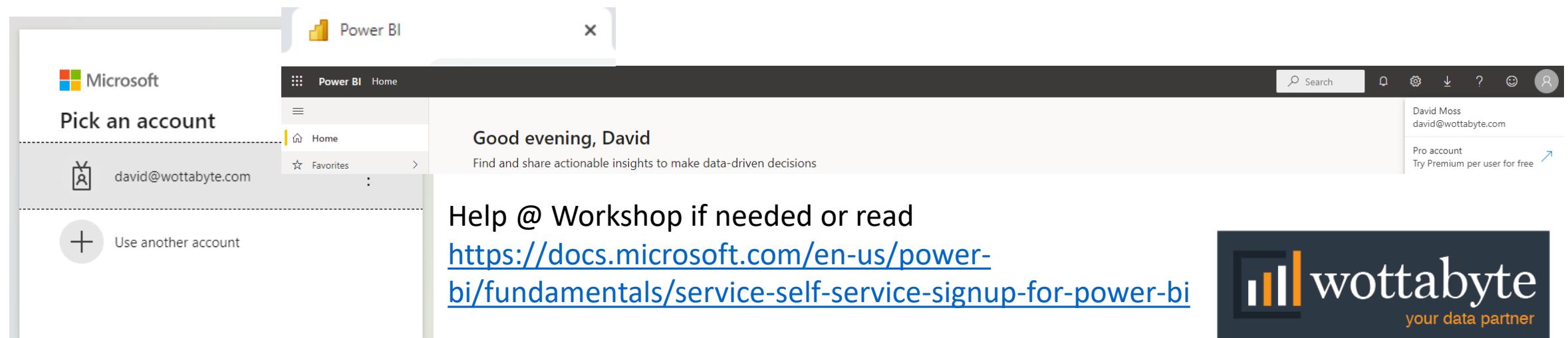
Create a Power BI Service account

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/. 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 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" button. 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
- Open My Workspace
- See your report
- Navigate report

Publishing to Power BI

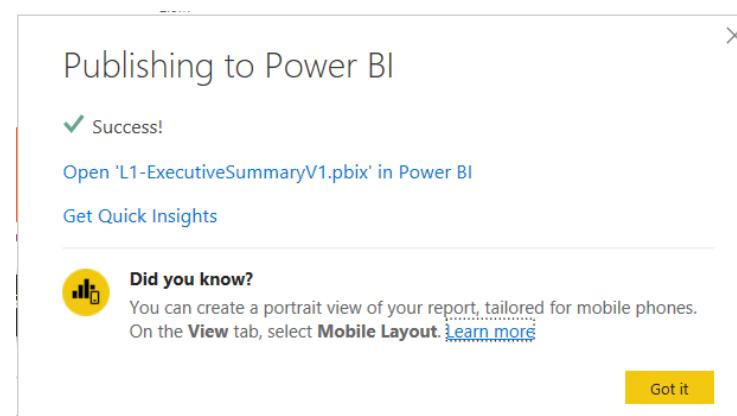
▪ Publishing 'L1-ExecutiveSummaryV1.pbix' to Power BI



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

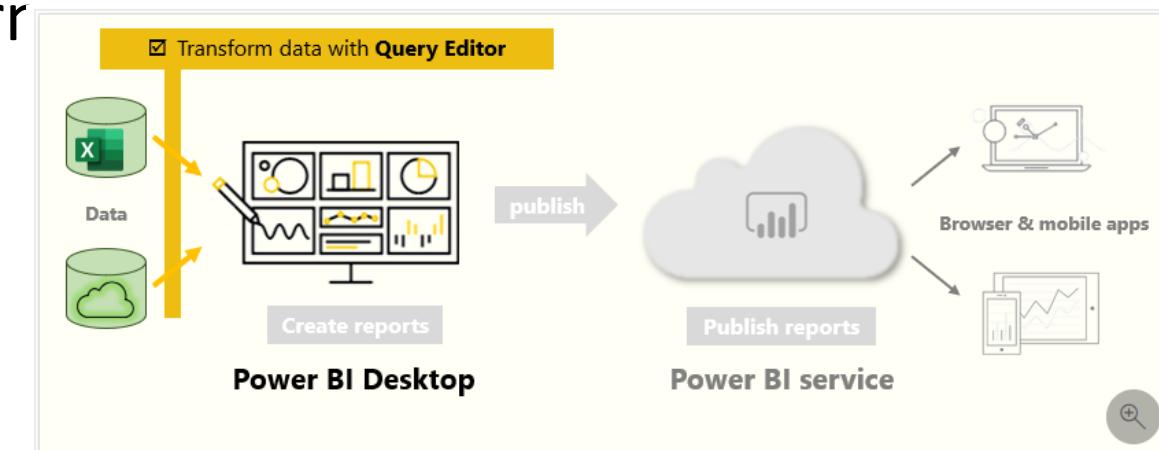
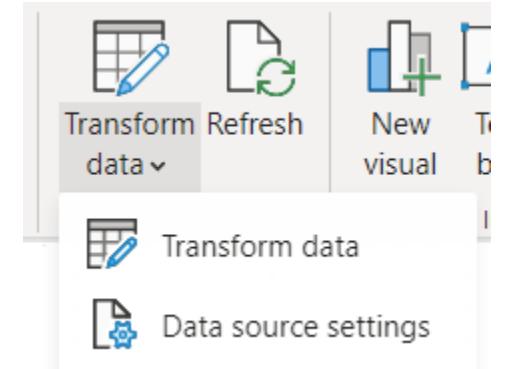


Power BI Week 2

Monday 25th Jan 2021

Use Power Query Editor to get data & prepare your data

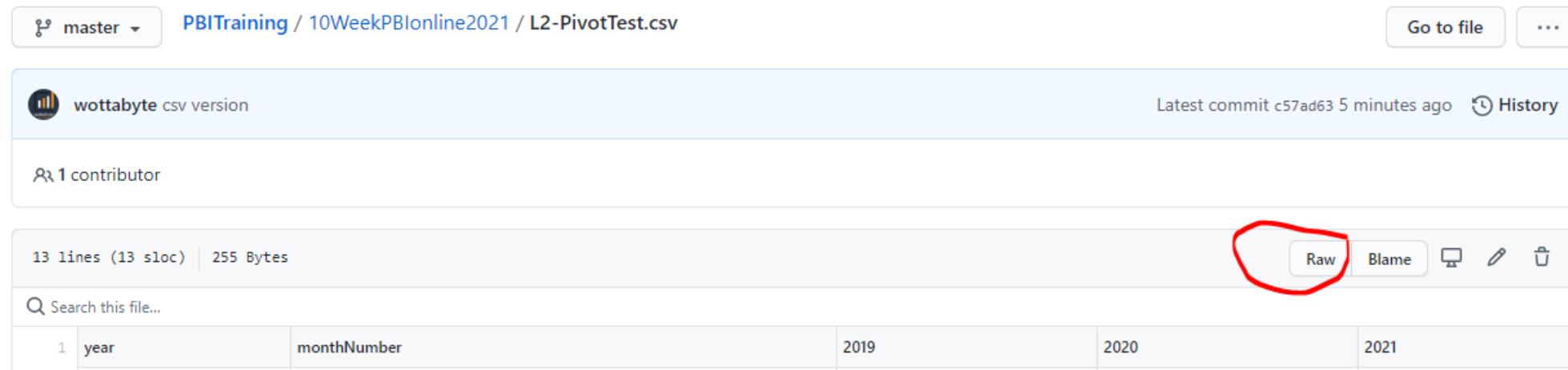
- Back to get & prepare data with Power Query Editor
- From Power BI Desktop open Power Query Editor...how ?
- Show PQE features
- Power Query Language = M
- BTW it's the same in Excel
- Get data & transform as demo in Learr



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 file was last committed 5 minutes ago by `wottabyte`. It also indicates there is 1 contributor. The file size is 13 lines (13 sloc) and 255 Bytes. A search bar is present. At the bottom, there is a preview of the CSV data:

| 1 | year | monthNumber | 2019 | 2020 | 2021 |
|---|------|-------------|------|------|------|
|---|------|-------------|------|------|------|

A red circle highlights the 'Raw' button in the file operations menu at the bottom right.

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

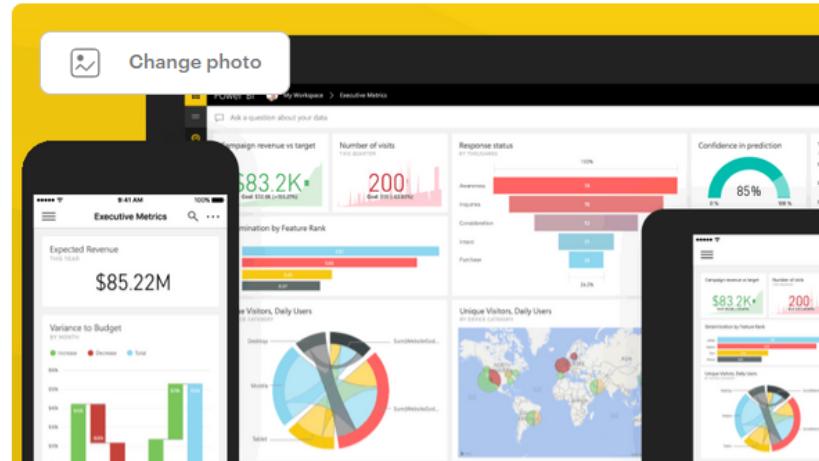
★★★★★ 4.8 (2,754)

<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](#)

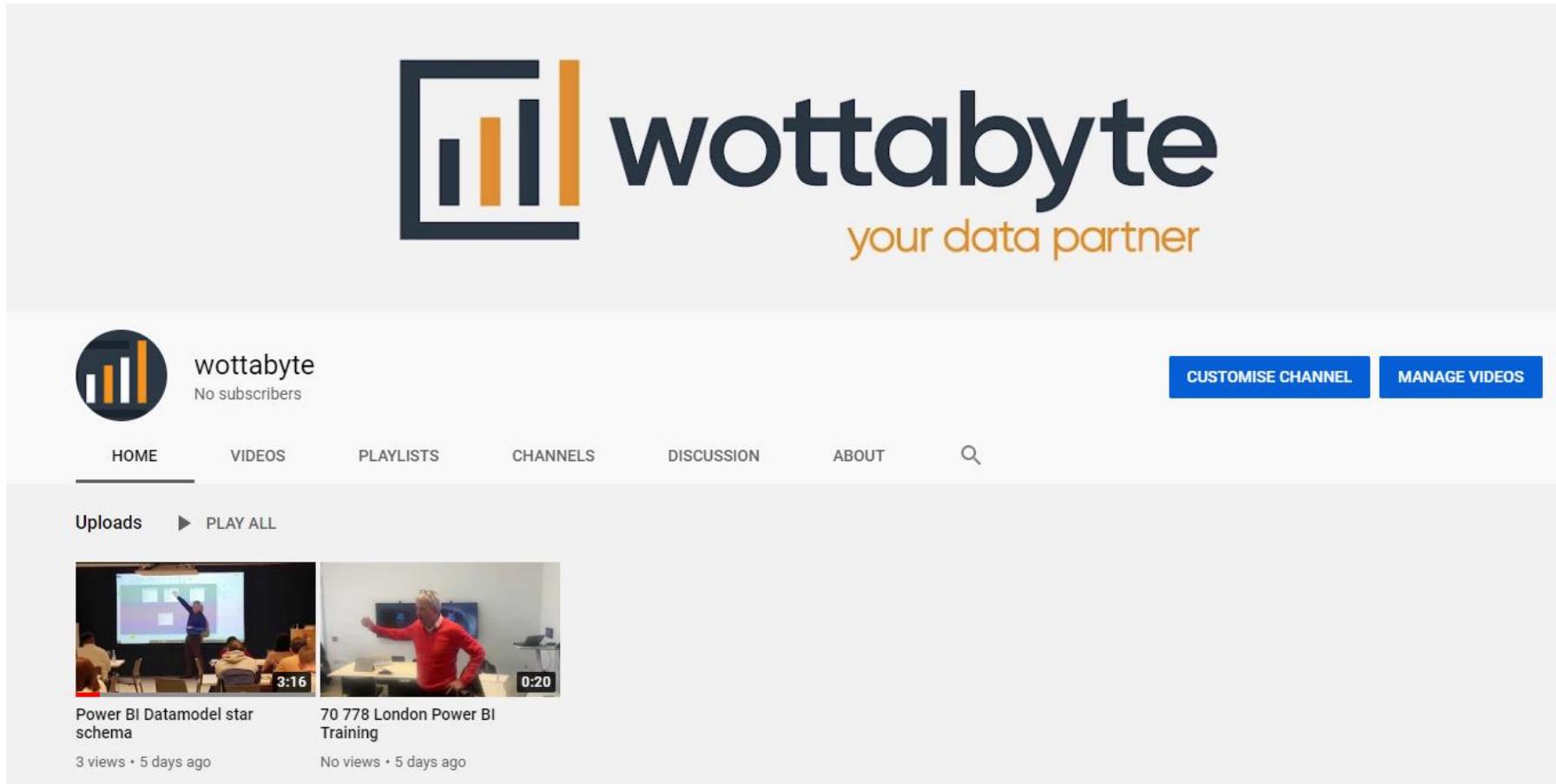
@wottabyte

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

1st 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 1st 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. The contact table also has a relationship with account. A tooltip message 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

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

Power BI Week 3

Monday 1st Feb 2021

Use Power BI desktop to structure & create datamodels

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Linkedin : QR Codes



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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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Monday 1st Feb 2021

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

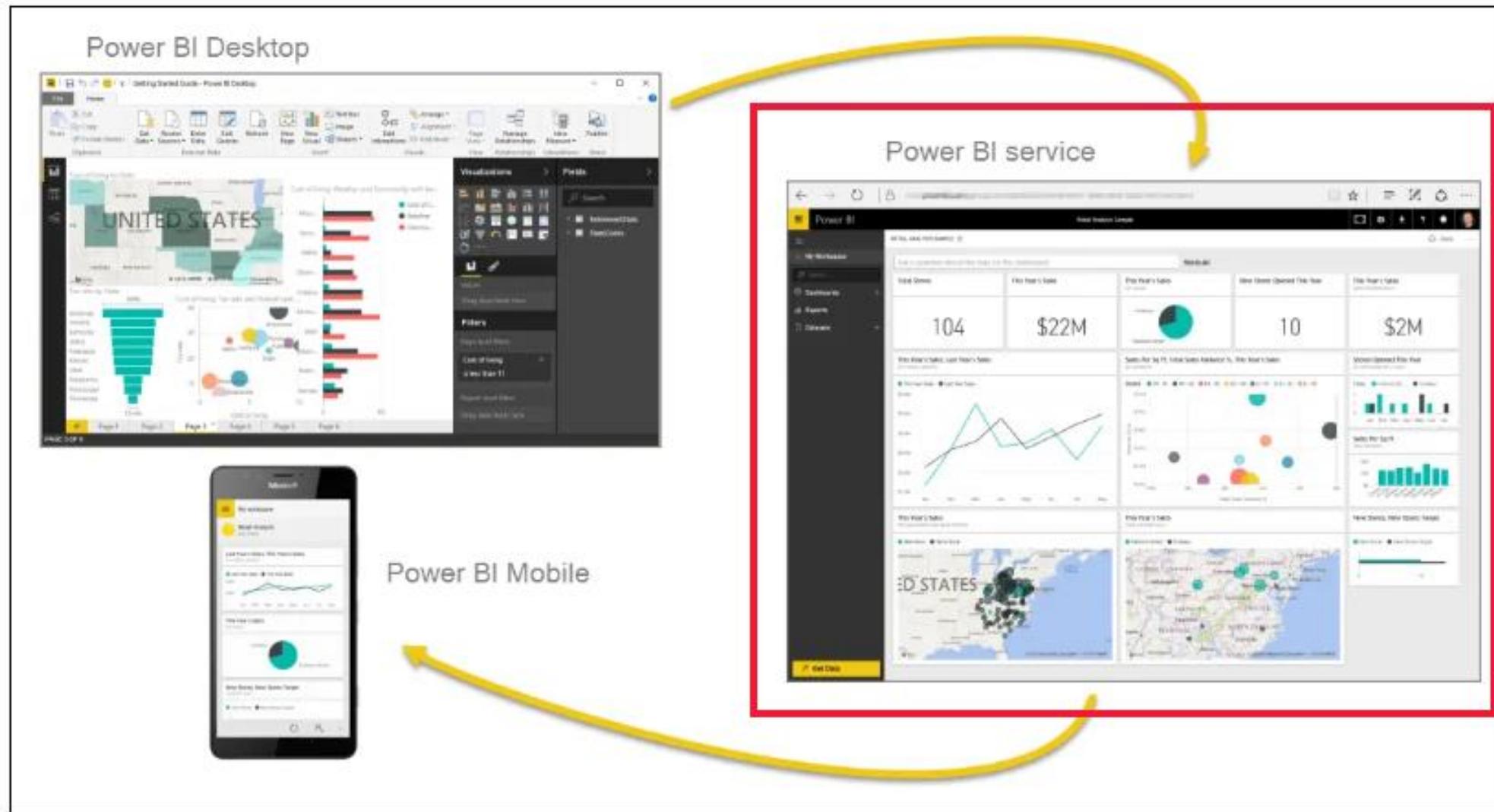


Power BI

beginners free 10 weeks online training course

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

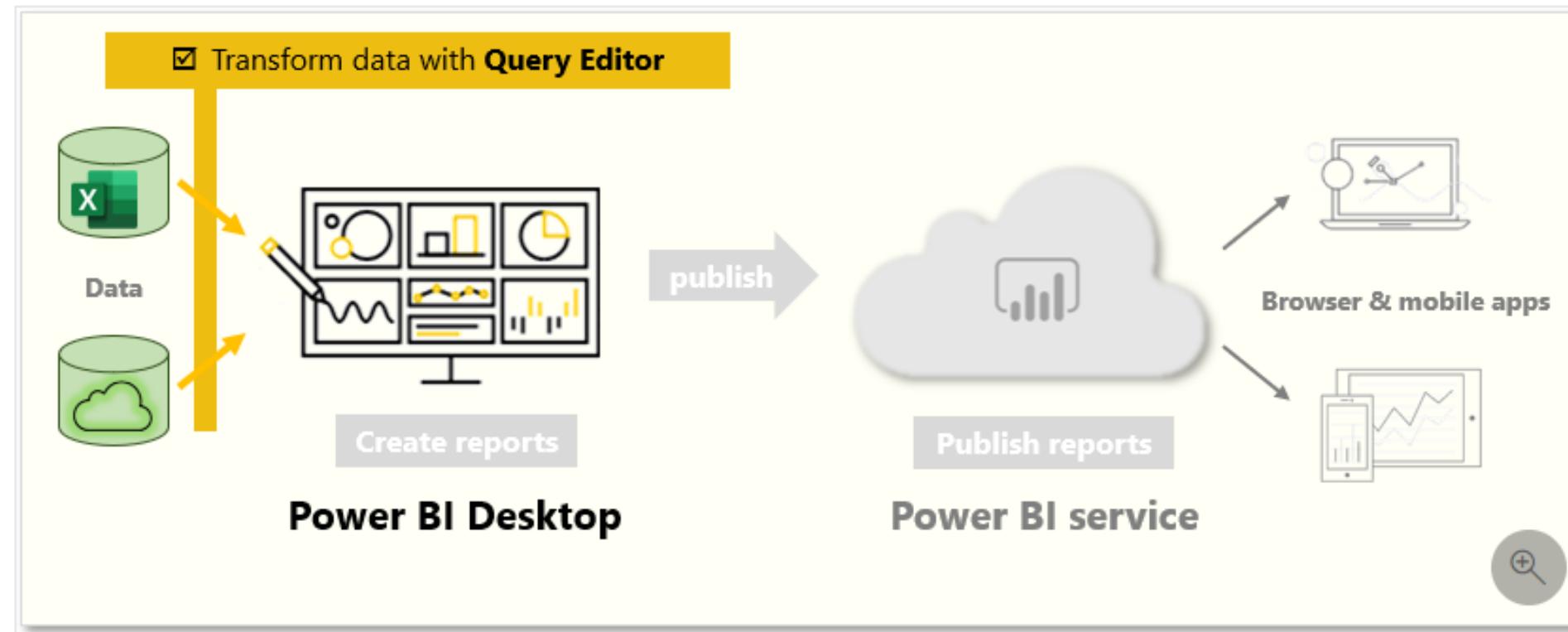
2 hr 1 min • Module • 0 of 10 units completed

★★★★★ 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

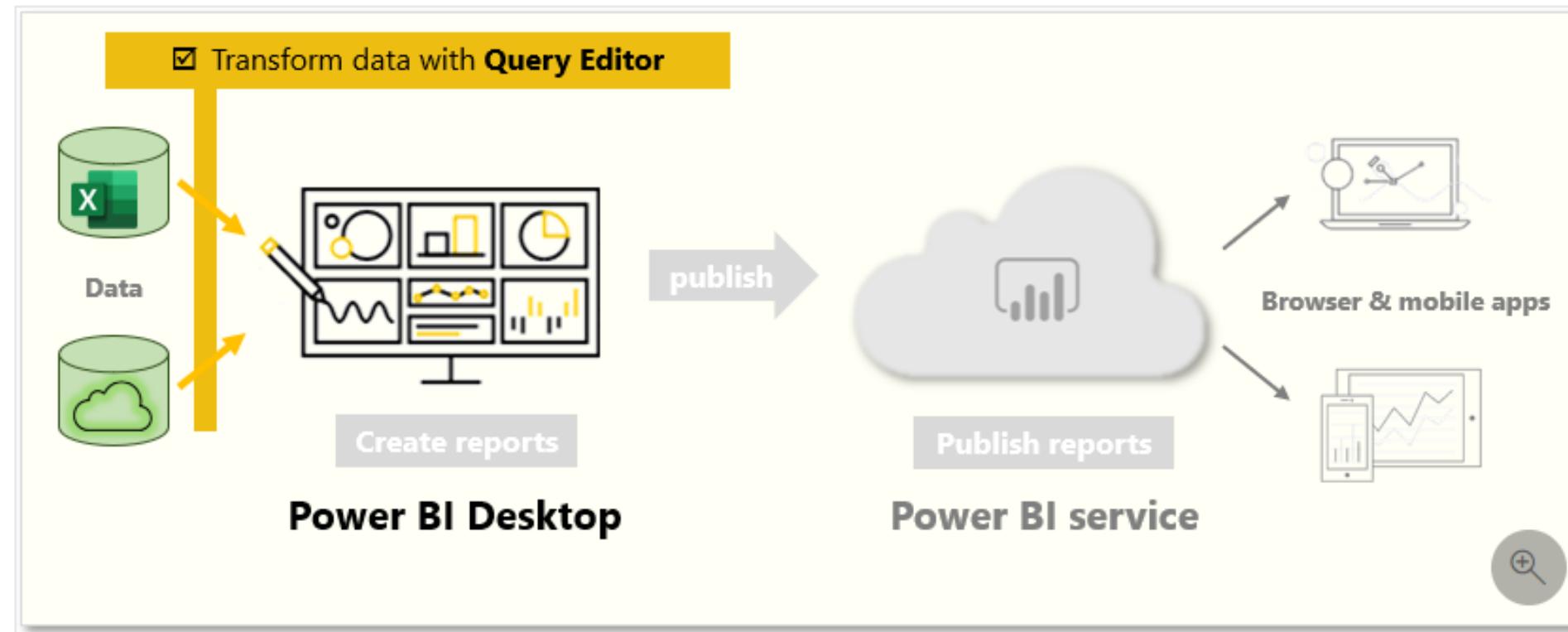
Published to Power BI Service ??

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 type.

| 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



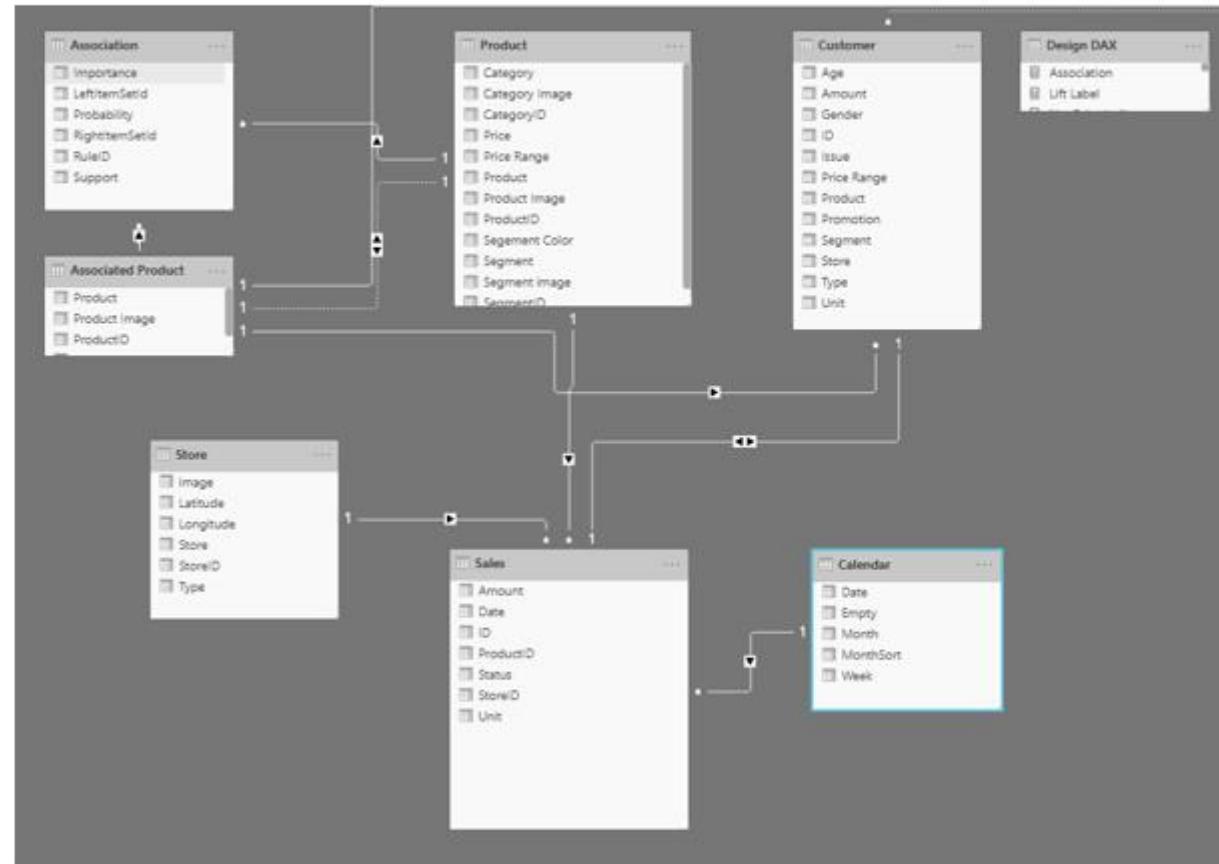
Power BI Week 3

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 being managed between the Employee table and the Sales table. A red arrow points from the 'Category Name Hierarchy' column in the Employee table to the 'CountryID' column in the Sales table. The relationship type is 1 to *.

Manage 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) |

New... Autodetect... Edit... Delete Close

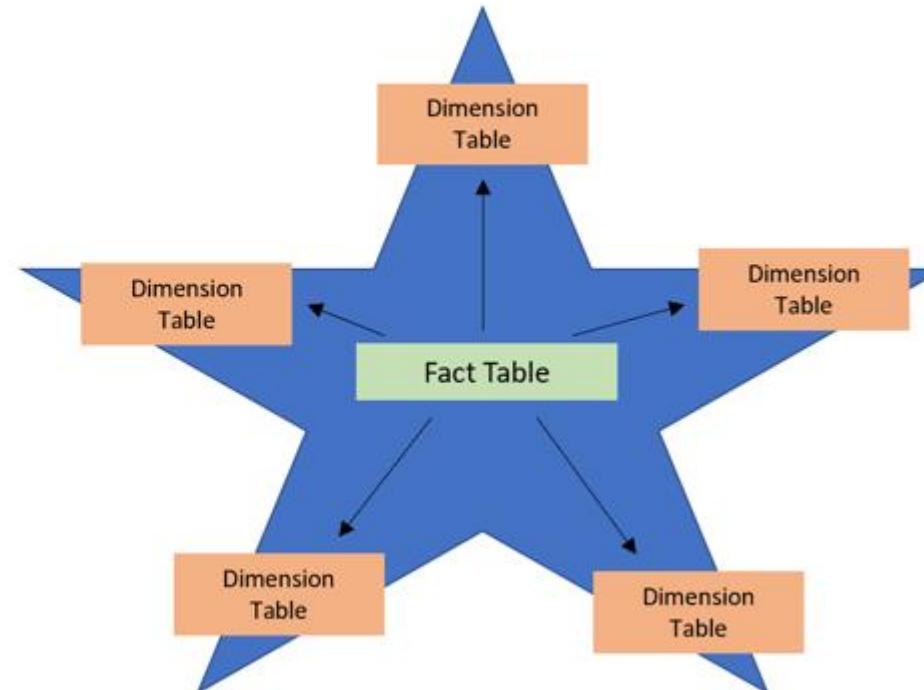
Power BI Week 3

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

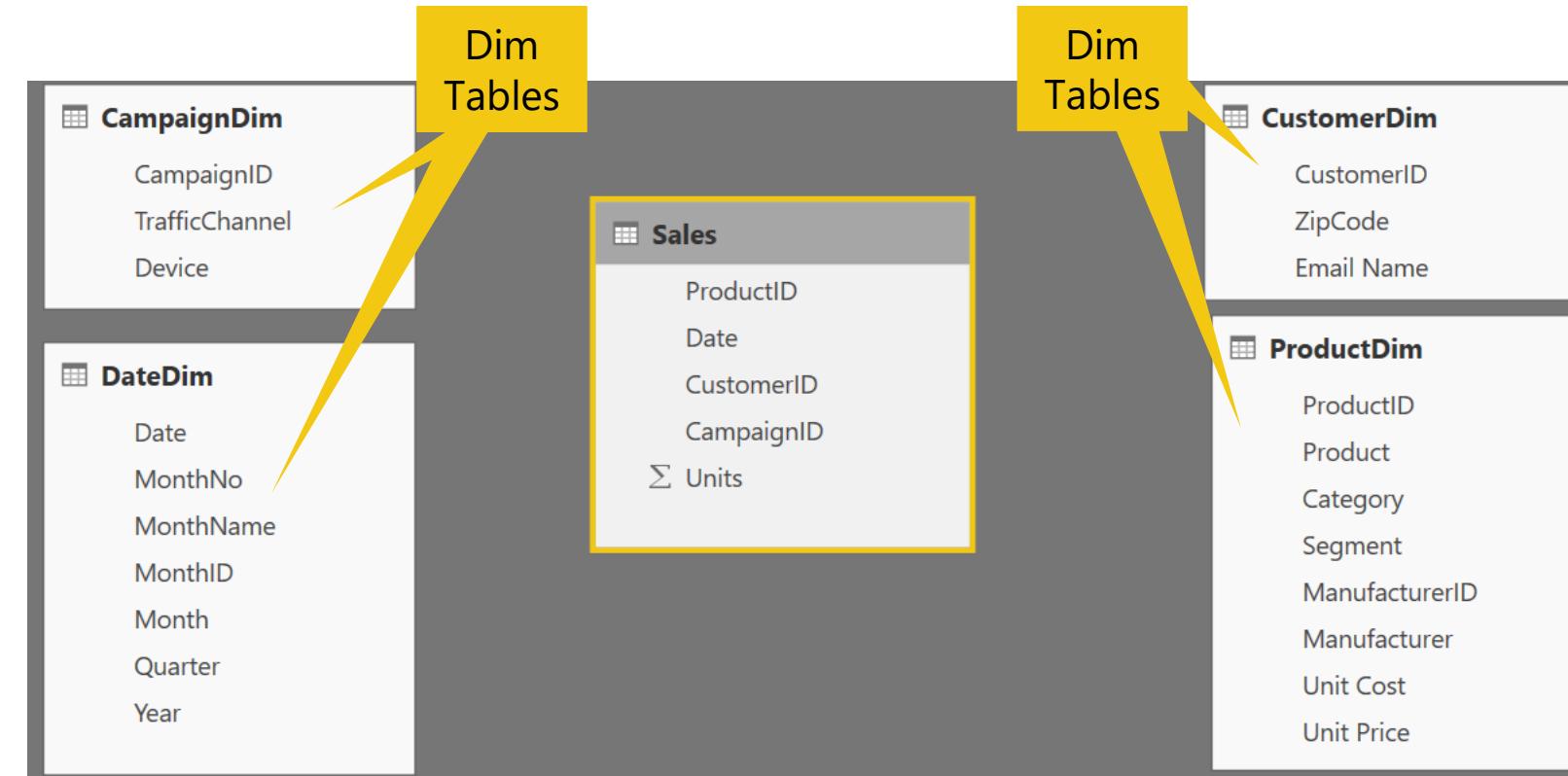
Examples:

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

Examples: By Month,
By Customer



Components of a data model – Dim Table



Dim Table

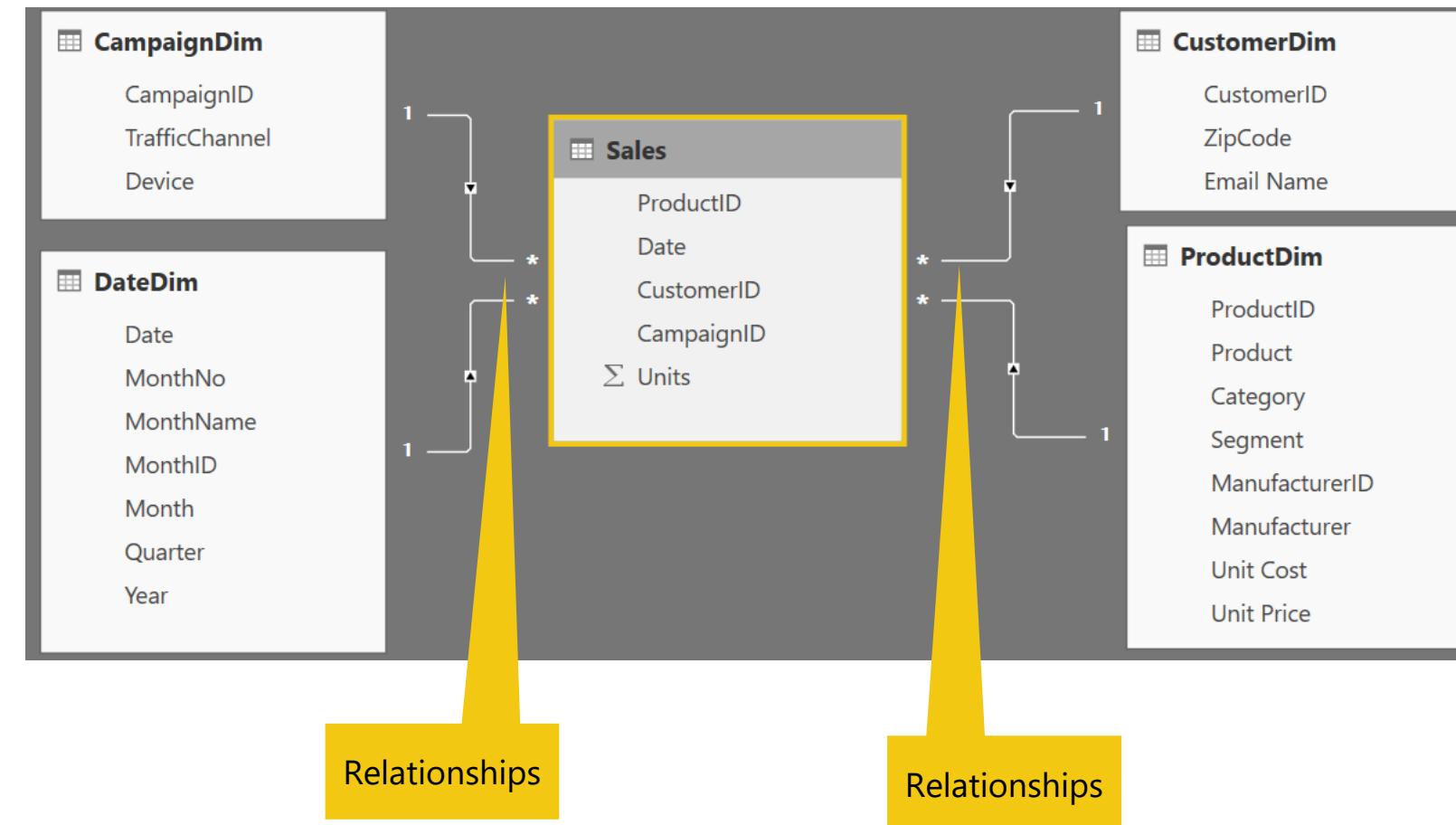
A Dim (or Dimension) table contains descriptive attributes that define how a fact should roll up.

Examples:

By month, By Customer, By Geo



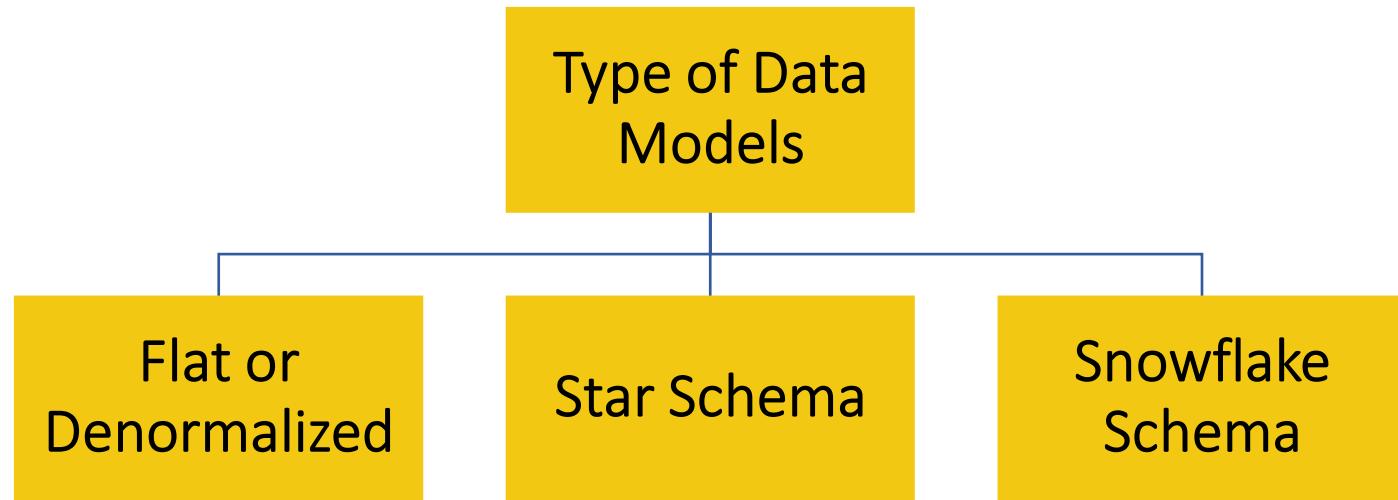
Components of a data model - Relationships



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.



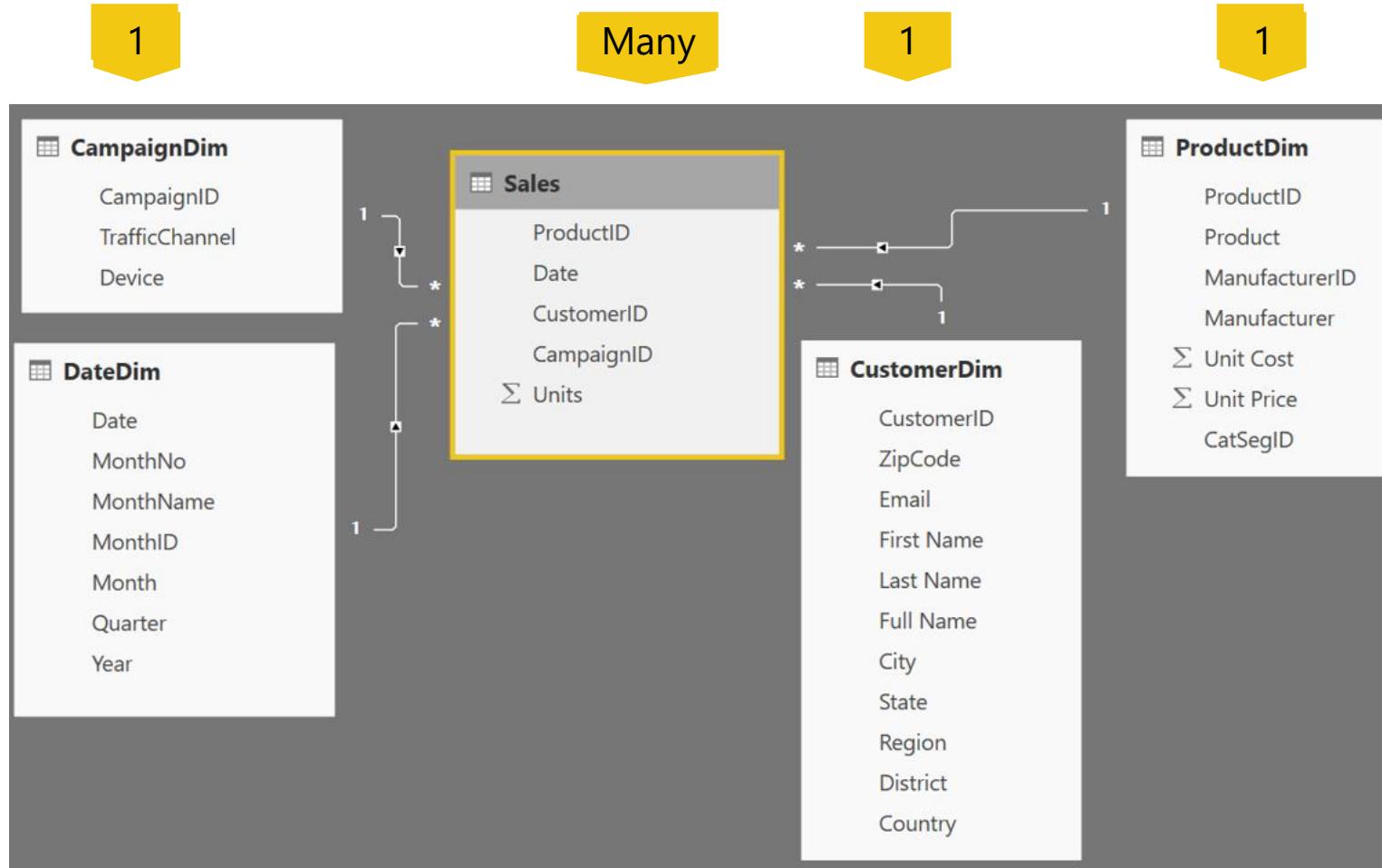
Flat or Denormalized Schema

| | 1 ² ₃ ProductID | A ^B _C Product | Date | 1 ² ₃ CustomerID | A ^B _C Email | A ^B _C Last Name | A ^B _C First Name | A ^B _C Full Name | 1 ² ₃ CampaignID | 1 ² ₃ 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



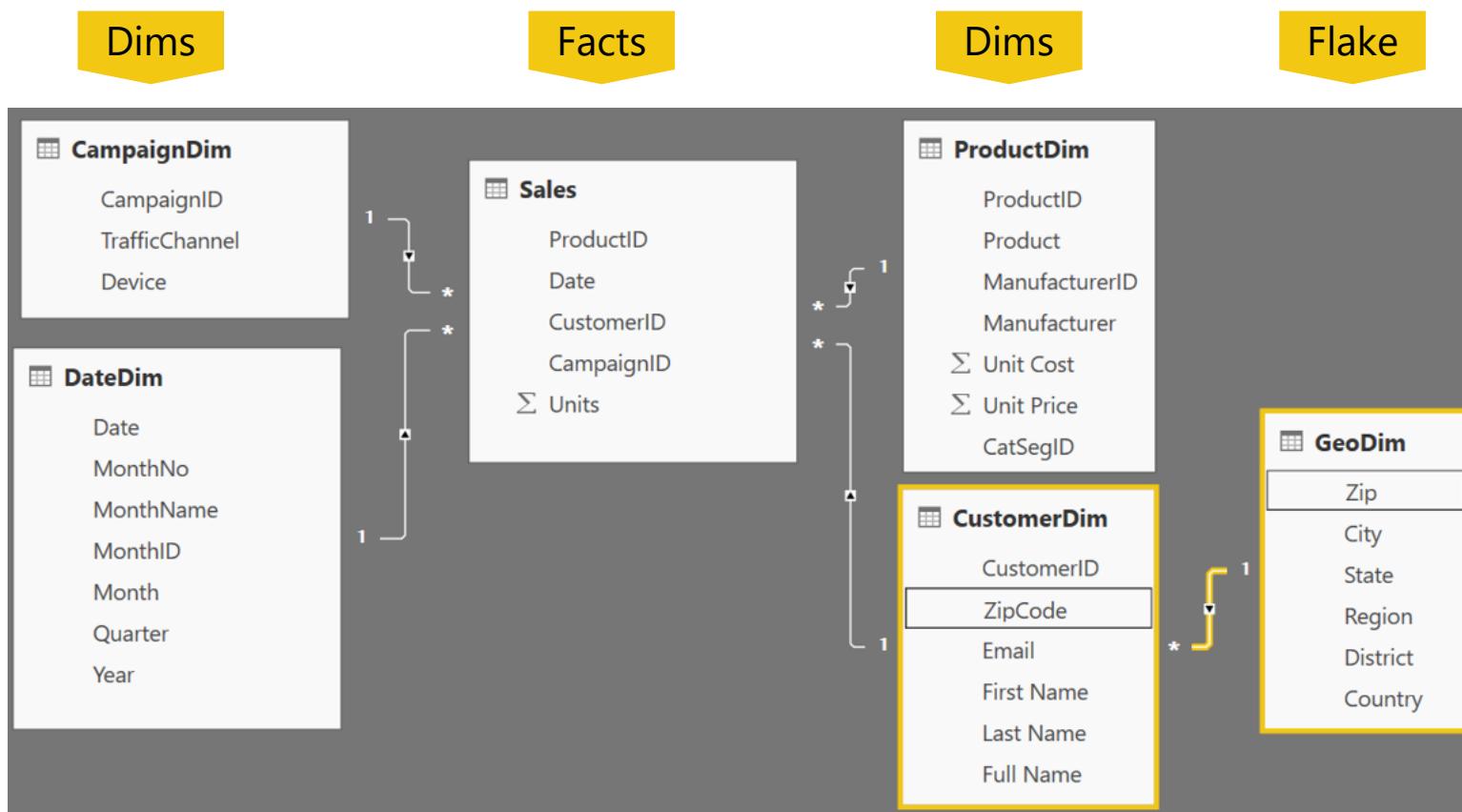
Star Schema



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



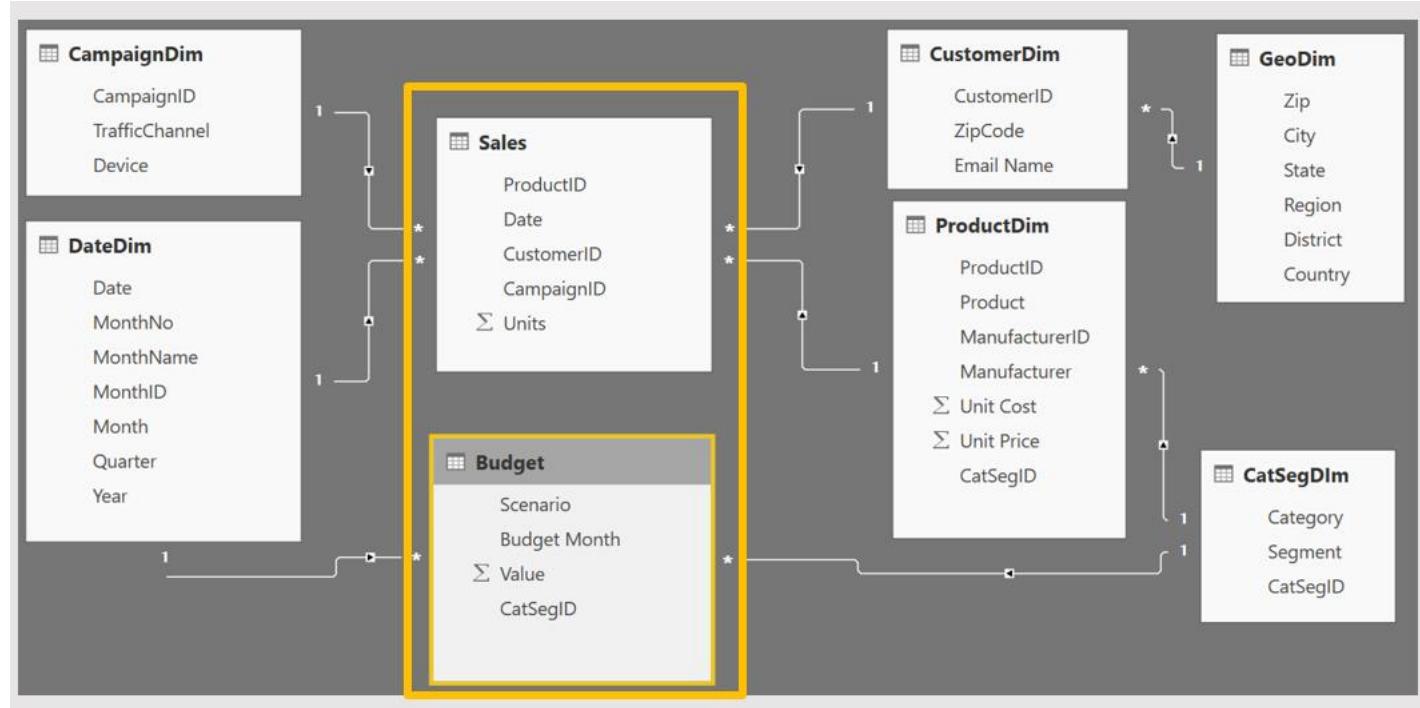
Snowflake Schema



- 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

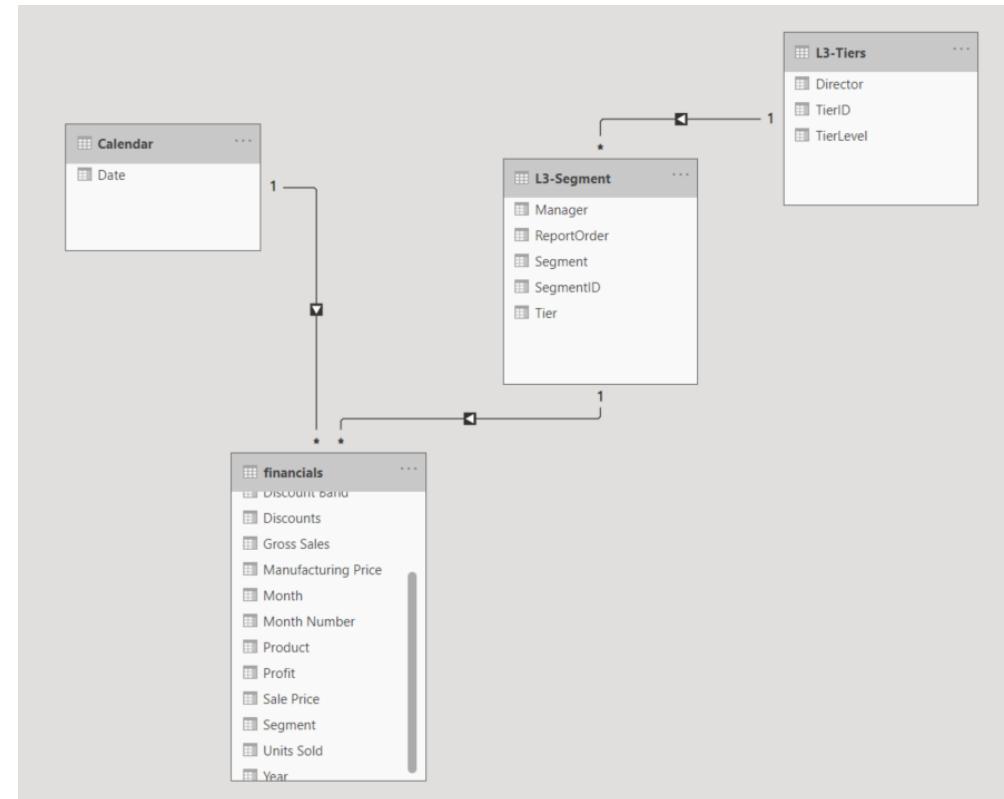
Add Segment & Tiers dimensions

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 1st 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 1st FEB
17:00 GMT



Q&A Workshop 3

POWER BI BEGINNER DATAMODELLING TECHNIQUES

MONDAY 1st FEB
17:00 GMT



Power BI Week 3

Template



Lesson 4 of 10 Power BI Beginner

Power BI Reports & configure charts

MONDAY 8th FEB
17:00 GMT



Lesson 4 of 10 Power BI Beginner

Power BI Reports & charts

MONDAY 8th FEB 17:00 GMT

Power BI – LESSON 4 of 10

beginners free 10 weeks online training course



Power BI Week 4

Monday 8th 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 

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>

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

Monday 8th Feb 2021

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

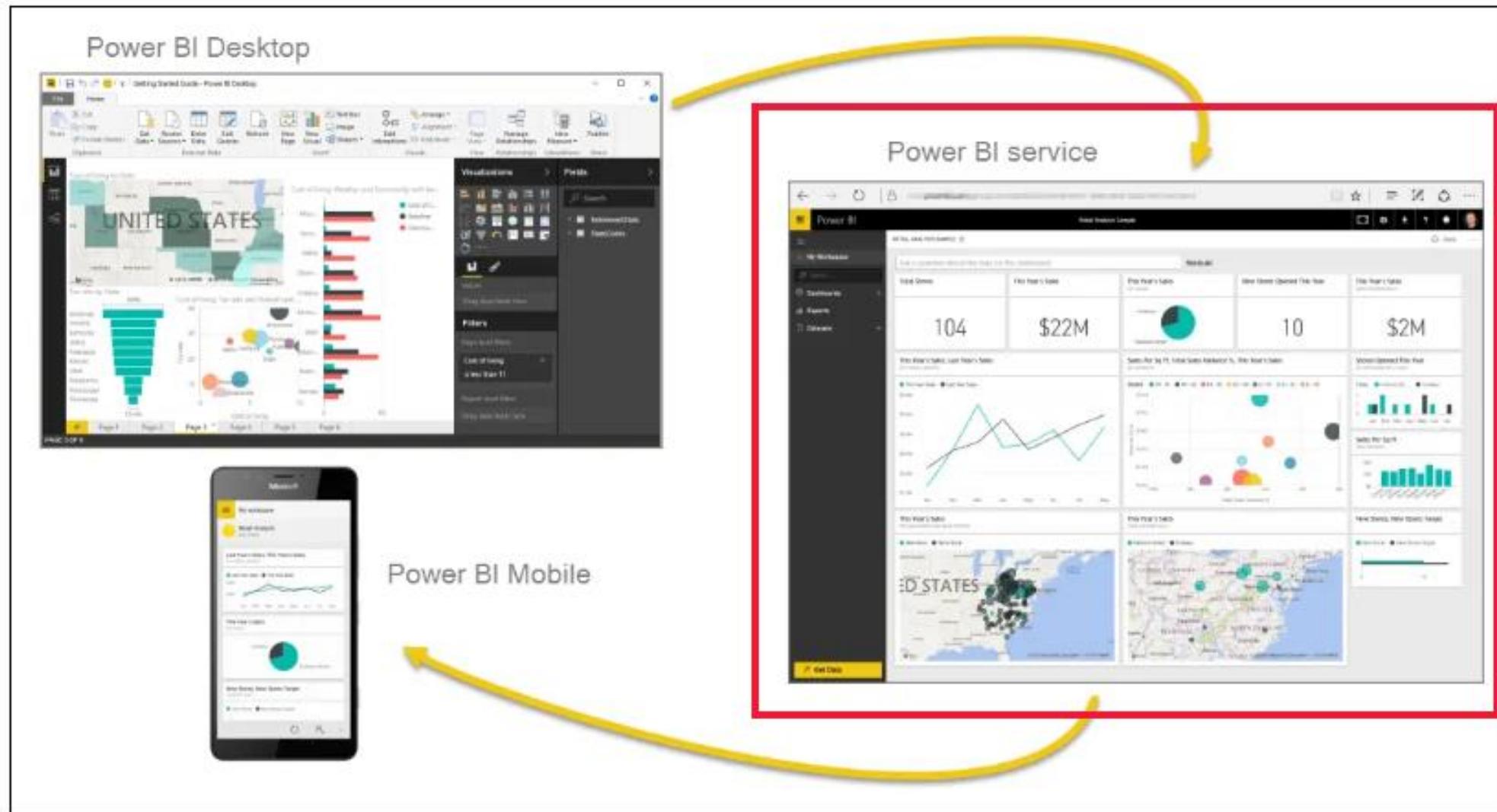


Power BI

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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

★★★★★ 4.7 (1,296)



Optimize a model for performance in Power BI

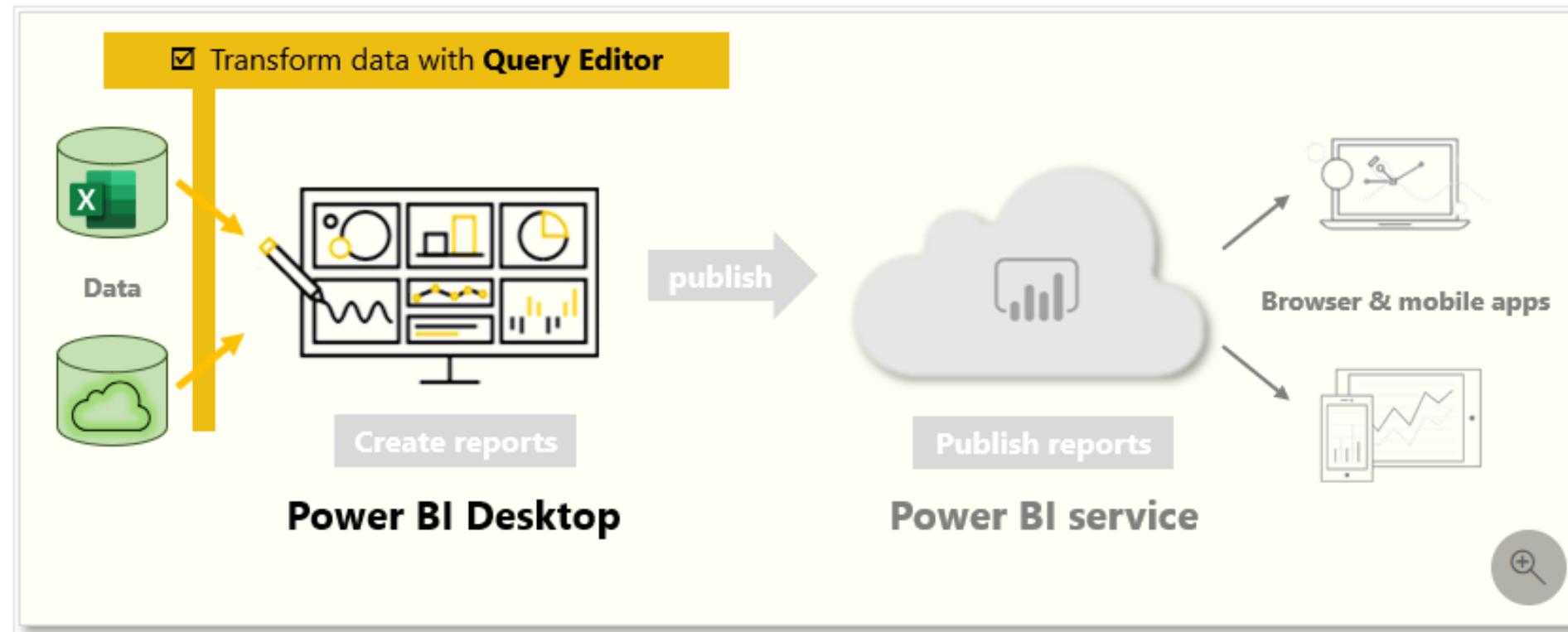
43 min remaining • Module • 0 of 8 units completed

★★★★★ 4.7 (1,535)

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

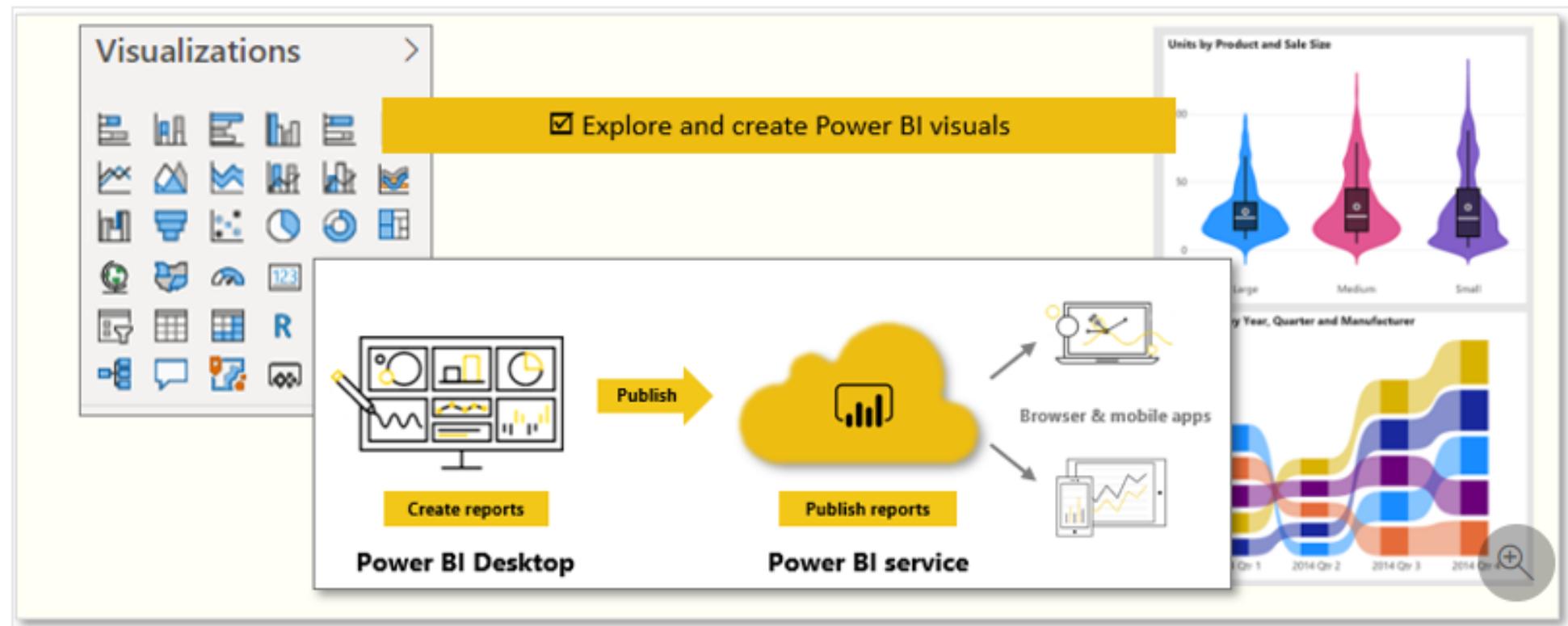
Power BI Week 4

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



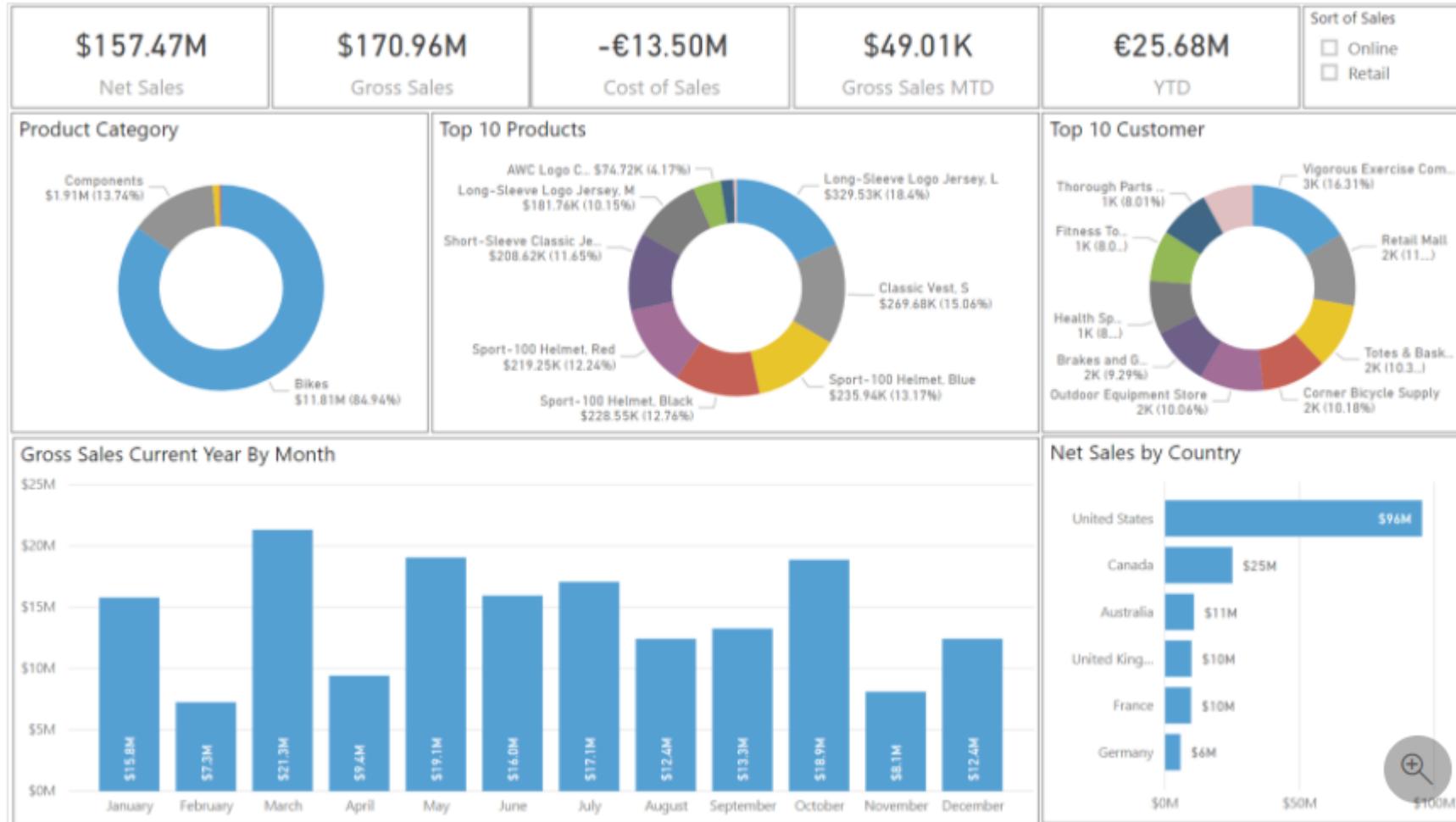
Power BI Week 4

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



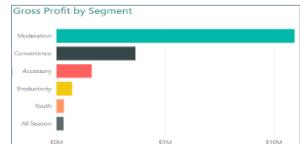
DEMO FILE with all visuals configured
Format & configure visualizations: paintbrush



Choose the Right Charts for the Right Purpose



Comparison



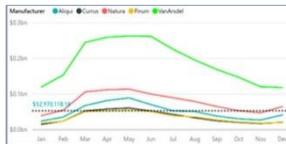
Stacked Bar

Composition



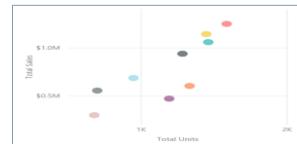
Tree

Trend



Line

Distribution



Scatter Plot

Status



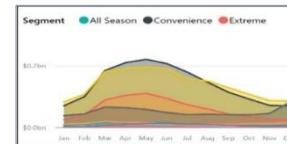
KPI

Geographic



Map

Relationships



Area

Slicing/Filtering



Date

Region

- Central
- East
- West

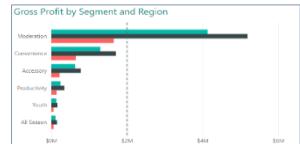
Segment

All

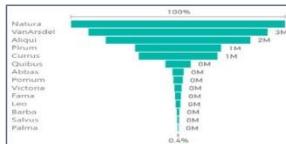
Product

- 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

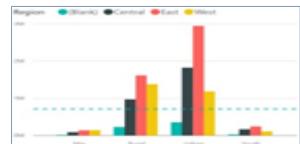


Pie

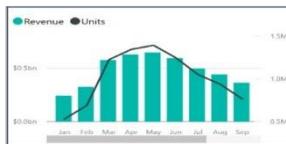


Funnel

Clustered Column



Stacked Area



Line and Stacked Column



Map

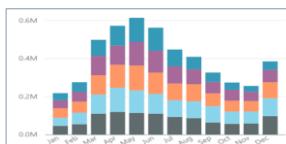


Multi-row Card

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 | |
| Total | Central | 244,865 | \$6,525,172 |

100% Stacked Column



Stacked Column



Card

Matrix

| Category | Region | Product | Value |
|-------------|----------|-----------|-------|
| Category A | Region X | Product Y | 100 |
| Category A | Region X | Product Z | 200 |
| Category B | Region X | Product Y | 300 |
| Category B | Region X | Product Z | 400 |
| Category C | Region X | Product Y | 500 |
| Category C | Region X | Product Z | 600 |
| Category D | Region X | Product Y | 700 |
| Category D | Region X | Product Z | 800 |
| Category E | Region X | Product Y | 900 |
| Category E | Region X | Product Z | 1000 |
| Category F | Region X | Product Y | 1100 |
| Category F | Region X | Product Z | 1200 |
| Category G | Region X | Product Y | 1300 |
| Category G | Region X | Product Z | 1400 |
| Category H | Region X | Product Y | 1500 |
| Category H | Region X | Product Z | 1600 |
| Category I | Region X | Product Y | 1700 |
| Category I | Region X | Product Z | 1800 |
| Category J | Region X | Product Y | 1900 |
| Category J | Region X | Product Z | 2000 |
| Category K | Region X | Product Y | 2100 |
| Category K | Region X | Product Z | 2200 |
| Category L | Region X | Product Y | 2300 |
| Category L | Region X | Product Z | 2400 |
| Category M | Region X | Product Y | 2500 |
| Category M | Region X | Product Z | 2600 |
| Category N | Region X | Product Y | 2700 |
| Category N | Region X | Product Z | 2800 |
| Category O | Region X | Product Y | 2900 |
| Category O | Region X | Product Z | 3000 |
| Category P | Region X | Product Y | 3100 |
| Category P | Region X | Product Z | 3200 |
| Category Q | Region X | Product Y | 3300 |
| Category Q | Region X | Product Z | 3400 |
| Category R | Region X | Product Y | 3500 |
| Category R | Region X | Product Z | 3600 |
| Category S | Region X | Product Y | 3700 |
| Category S | Region X | Product Z | 3800 |
| Category T | Region X | Product Y | 3900 |
| Category T | Region X | Product Z | 4000 |
| Category U | Region X | Product Y | 4100 |
| Category U | Region X | Product Z | 4200 |
| Category V | Region X | Product Y | 4300 |
| Category V | Region X | Product Z | 4400 |
| Category W | Region X | Product Y | 4500 |
| Category W | Region X | Product Z | 4600 |
| Category X | Region X | Product Y | 4700 |
| Category X | Region X | Product Z | 4800 |
| Category Y | Region X | Product Y | 4900 |
| Category Y | Region X | Product Z | 5000 |
| Category Z | Region X | Product Y | 5100 |
| Category Z | Region X | Product Z | 5200 |
| Category AA | Region X | Product Y | 5300 |
| Category AA | Region X | Product Z | 5400 |
| Category BB | Region X | Product Y | 5500 |
| Category BB | Region X | Product Z | 5600 |
| Category CC | Region X | Product Y | 5700 |
| Category CC | Region X | Product Z | 5800 |
| Category DD | Region X | Product Y | 5900 |
| Category DD | Region X | Product Z | 6000 |
| Category EE | Region X | Product Y | 6100 |
| Category EE | Region X | Product Z | 6200 |
| Category FF | Region X | Product Y | 6300 |
| Category FF | Region X | Product Z | 6400 |
| Category GG | Region X | Product Y | 6500 |
| Category GG | Region X | Product Z | 6600 |
| Category HH | Region X | Product Y | 6700 |
| Category HH | Region X | Product Z | 6800 |
| Category II | Region X | Product Y | 6900 |
| Category II | Region X | Product Z | 7000 |
| Category JJ | Region X | Product Y | 7100 |
| Category JJ | Region X | Product Z | 7200 |
| Category KK | Region X | Product Y | 7300 |
| Category KK | Region X | Product Z | 7400 |
| Category LL | Region X | Product Y | 7500 |
| Category LL | Region X | Product Z | 7600 |
| Category MM | Region X | Product Y | 7700 |
| Category MM | Region X | Product Z | 7800 |
| Category NN | Region X | Product Y | 7900 |
| Category NN | Region X | Product Z | 8000 |
| Category OO | Region X | Product Y | 8100 |
| Category OO | Region X | Product Z | 8200 |
| Category PP | Region X | Product Y | 8300 |
| Category PP | Region X | Product Z | 8400 |
| Category QQ | Region X | Product Y | 8500 |
| Category QQ | Region X | Product Z | 8600 |
| Category RR | Region X | Product Y | 8700 |
| Category RR | Region X | Product Z | 8800 |
| Category SS | Region X | Product Y | 8900 |
| Category SS | Region X | Product Z | 9000 |
| Category TT | Region X | Product Y | 9100 |
| Category TT | Region X | Product Z | 9200 |
| Category YY | Region X | Product Y | 9300 |
| Category YY | Region X | Product Z | 9400 |
| Category ZZ | Region X | Product Y | 9500 |
| Category ZZ | Region X | Product Z | 9600 |
| Category AA | Region X | Product Y | 9700 |
| Category AA | Region X | Product Z | 9800 |
| Category BB | Region X | Product Y | 9900 |
| Category BB | Region X | Product Z | 10000 |

Water Fall

Power BI Week 4

More Visuals

Custom Visuals : Bullet Chart : view Appsource

Power BI Visuals

AppSource | My organization

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Search

Sort by: Recommended ▾

Category

Editor's Picks

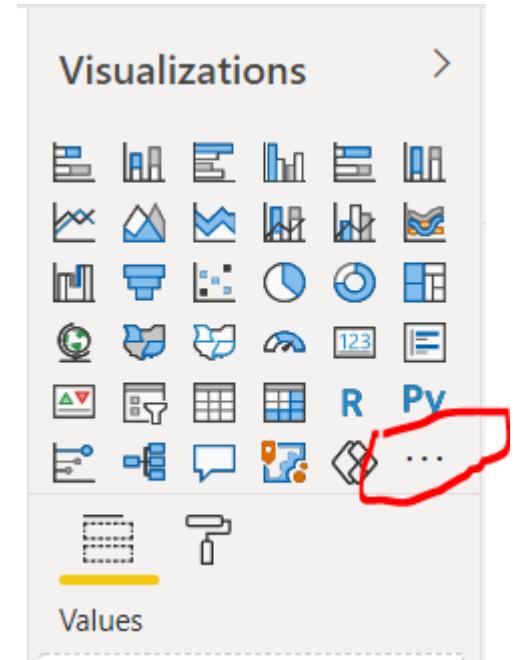
All

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

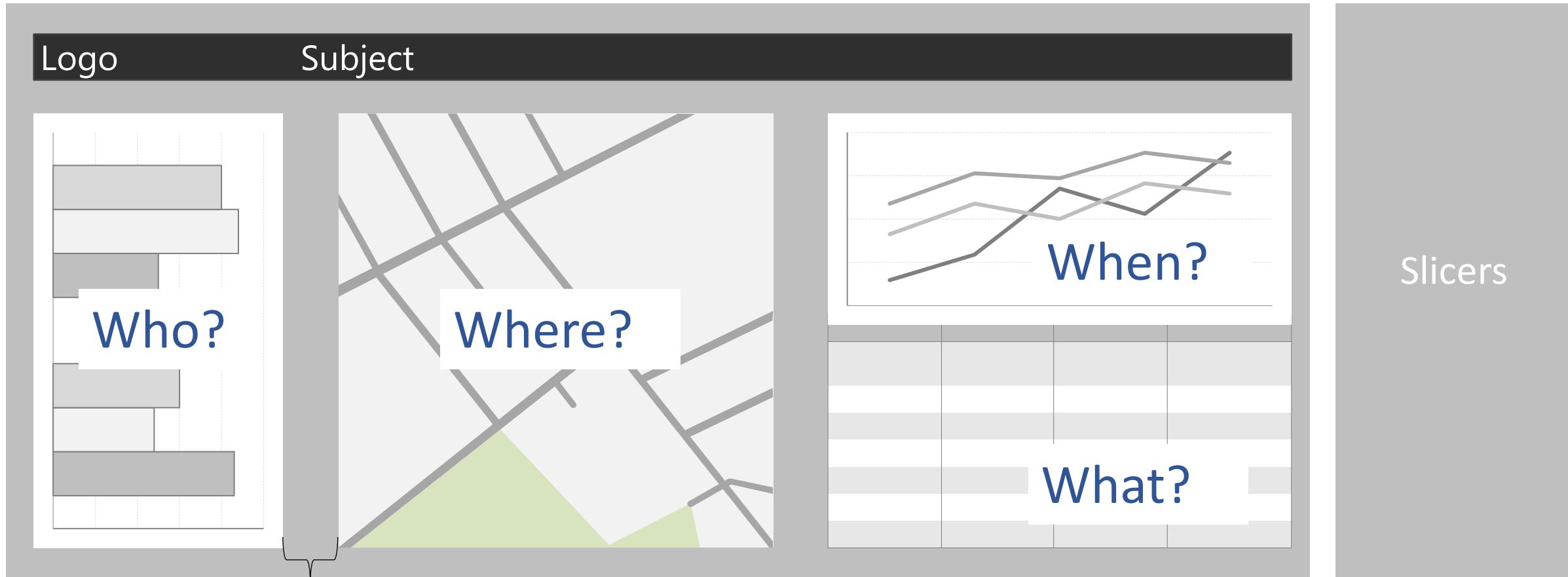
KPIs DETAILS

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 main sections: 'Logo' (containing a bar chart), 'Subject' (containing a map with 'Where?' and 'Who?' callouts), 'When?' (containing a line chart), and 'What?' (containing a solid grey box). To the right of the slide is a large, semi-transparent 'Slicers' box. The ribbon at the top has the 'Storyboarding' tab selected. A yellow arrow points from the 'Storyboard Shapes' icon in the ribbon to the open 'Storyboard Shapes' ribbon gallery on the right. This gallery lists various shapes under categories like 'My Shapes', 'Annotation', 'Backgrounds', 'Common', and 'Icons'. A second yellow arrow points from the 'Icons' category to the 'Icons' section of the gallery, which displays a grid of icons including arrows, a calendar, a phone, a camera, a checkmark, a file, a folder, a mail icon, a search icon, and a play button.

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

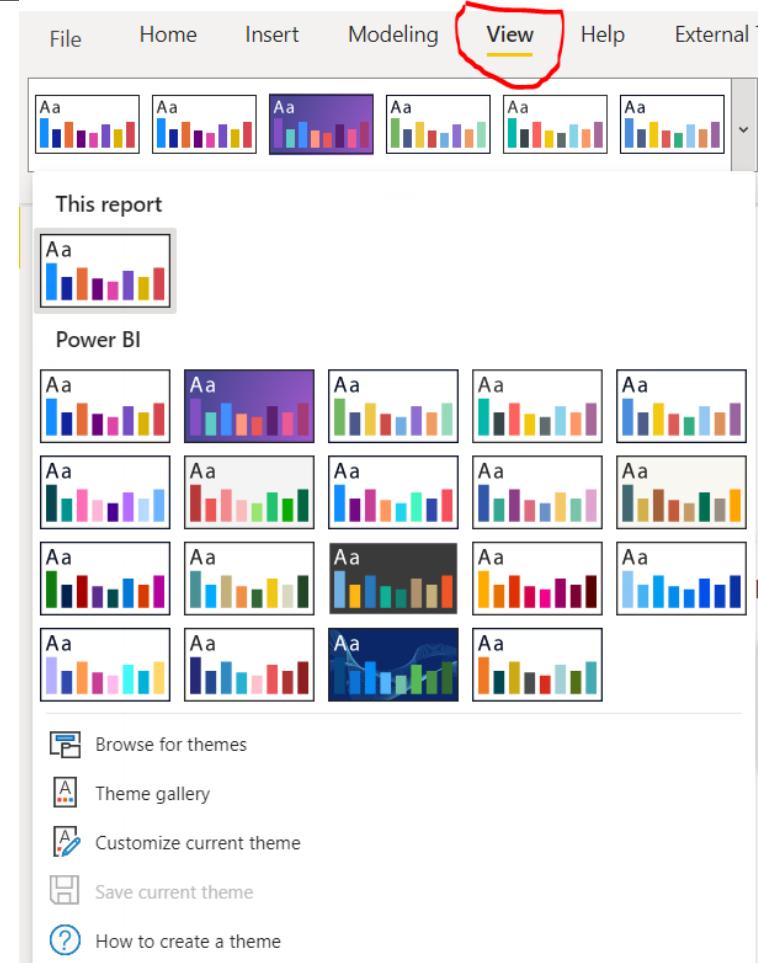
Power BI Week 4

Page Design Layout & Themes

Themes

Edit current theme

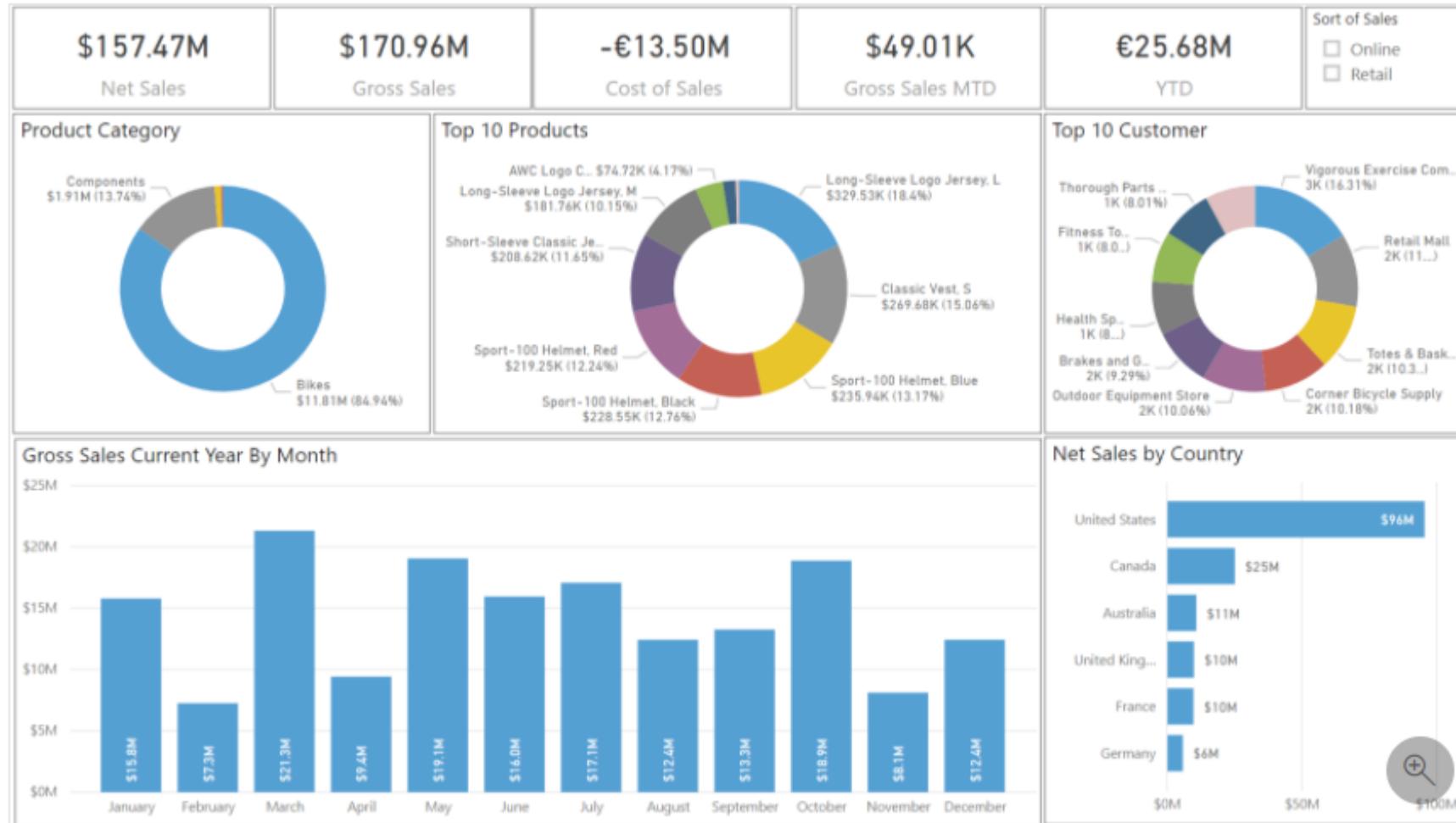
Import a theme .pbbit



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

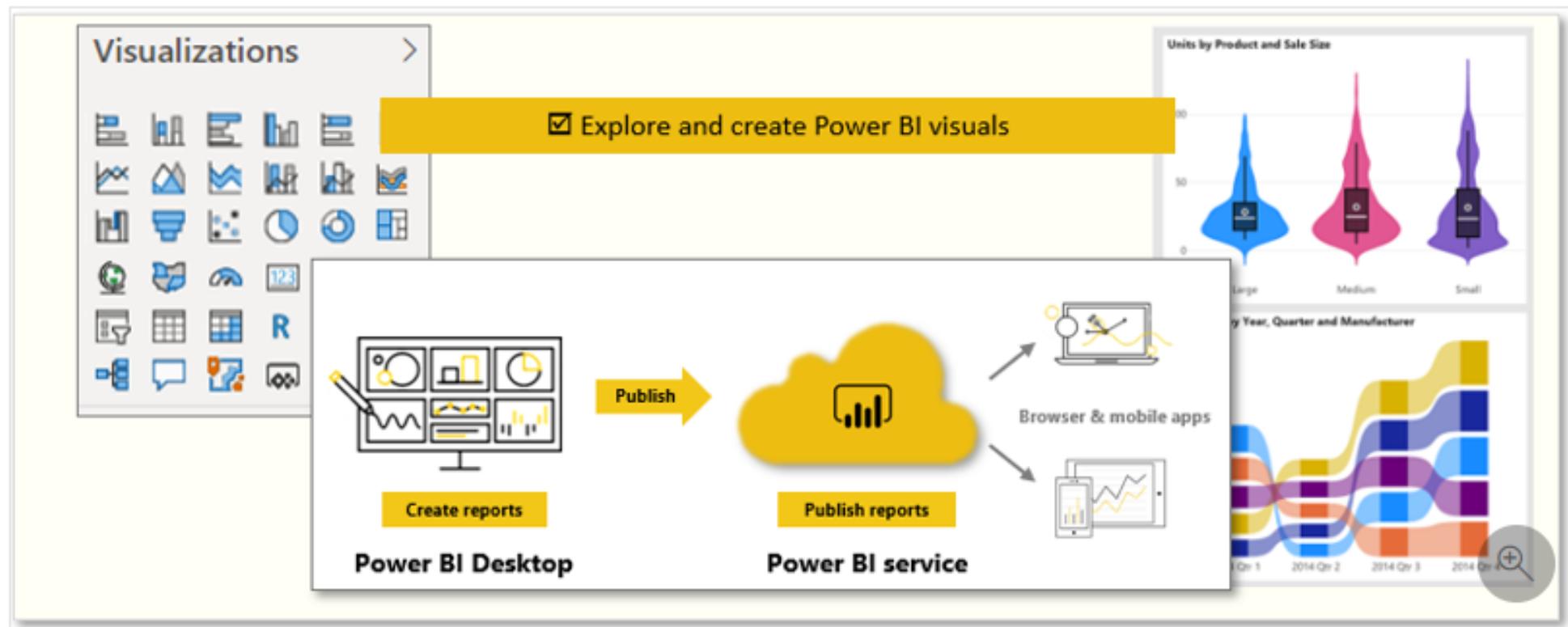
Power BI Week 4

Nearly finished your report



Power BI Week 4

Publish reports to the Power BI Service

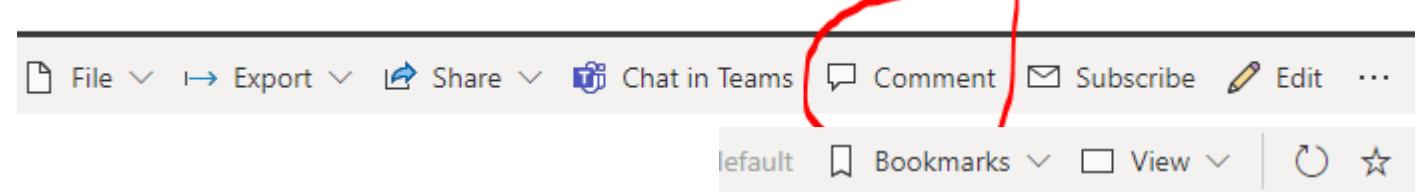


Power BI Week 4

Report in Service



Power BI DA-100 2021 10 week online



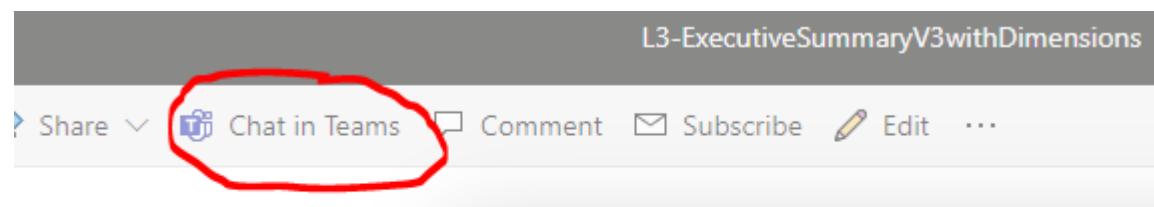
View report in Service

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 8th 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

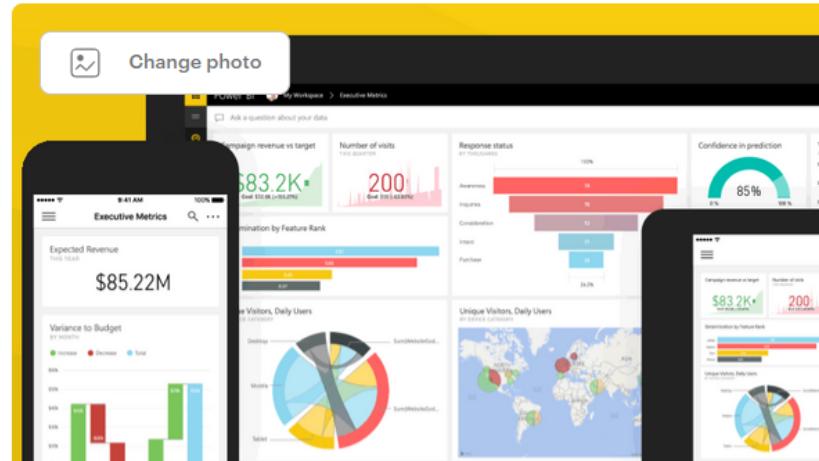
<https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>

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 8th 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 18th Jan 2021 : Introduction to Power BI and your first Power BI report.
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NEXT WEEK : Power BI Week 5

15th 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 15th 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

15th February

Add user friendly report navigation features, slicers & tooltips.

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Lesson 5 of 10 Power BI Beginner

Power BI user friendly reports

MONDAY 15th FEB 17:00 GMT

Lesson 5 of 10 Power BI Beginner

Power BI user friendly reports

MONDAY 15th FEB 17:00 GMT

Use for LinkedIn Events publicity

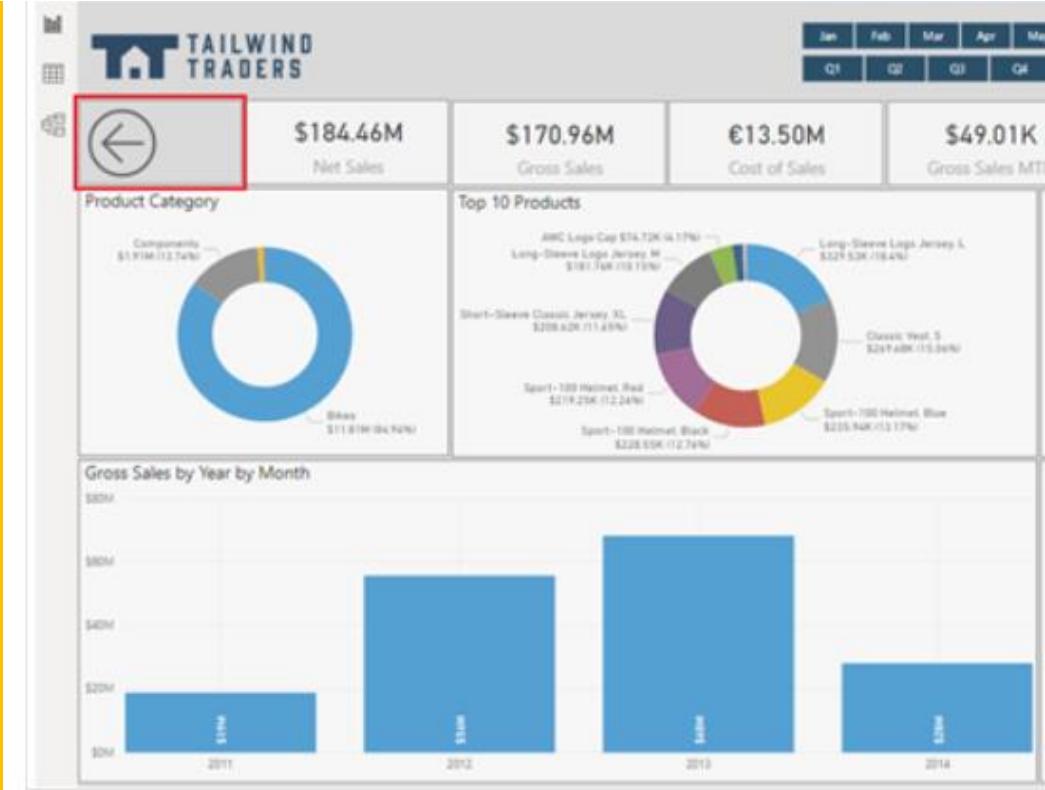
Power BI Beginner - NOW

Power BI Q&A Workshop

MONDAY 15th FEB 21:00 GMT

Lesson 5 of 10 Power BI Beginner

Power BI navigation, buttons, drillthrough



MONDAY 15th FEB 17:00 GMT

Power BI – LESSON 5 of 10

beginners free 10 weeks online training course



Power BI Week 5

Monday 15th 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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 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 15th Feb 2021

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

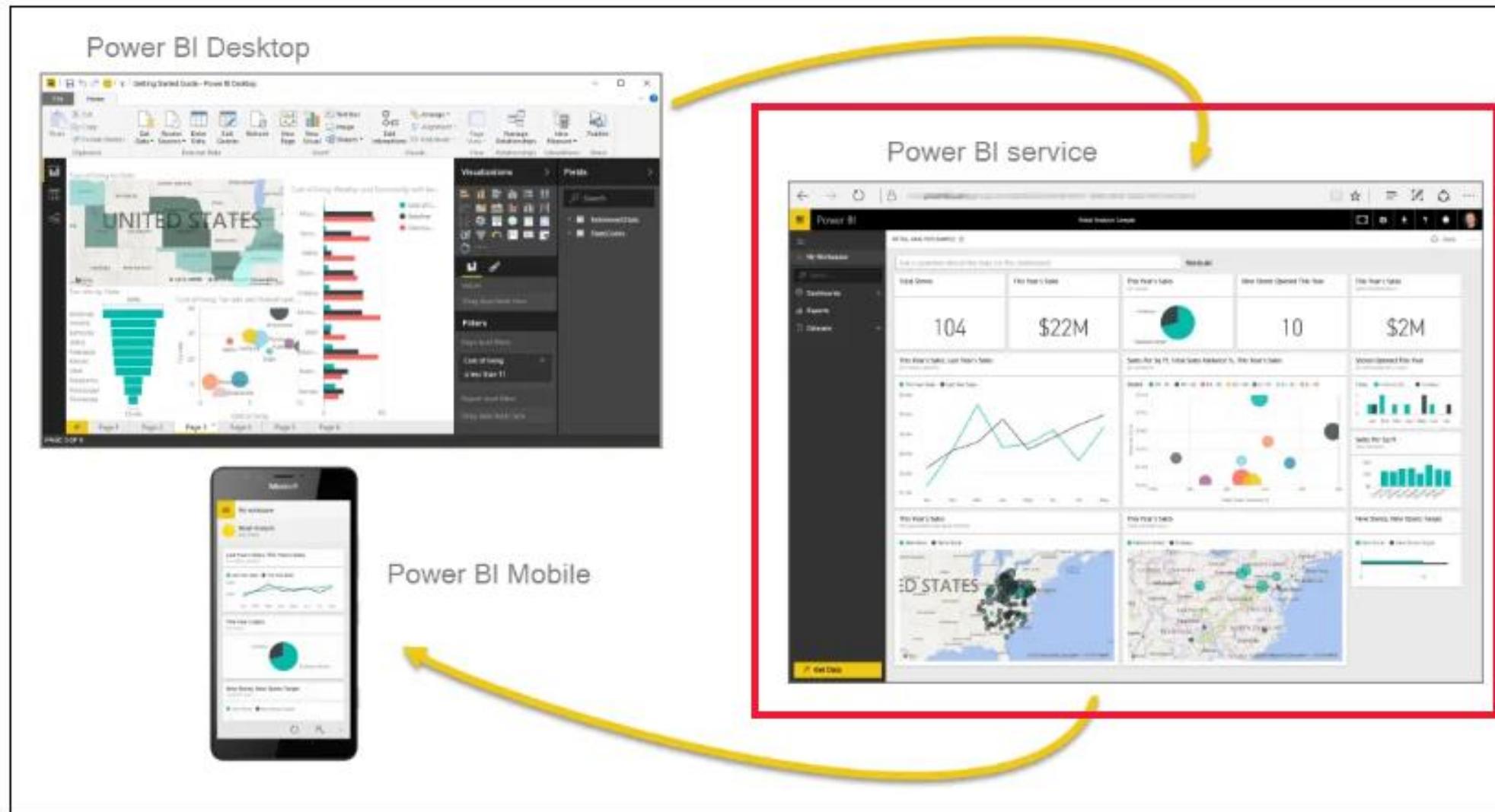


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- Week 10: Monday 22nd March 2021: Power BI at work with workspaces, datasets & security.

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

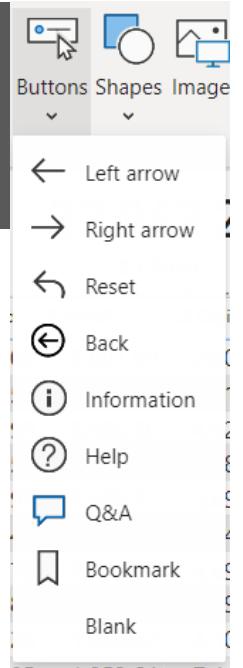
Configure Conditional Formatting

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' row in the table's conditional formatting pane. The table displays regional sales data with color-coded rows based on sales amount.

| 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.....

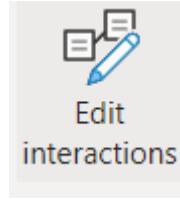
Next in target report set page report settings to Cross Report is On and populate fields value.

User can select Drillthrough : Page Name [Report Name]



Power BI Week 5

Edit Interactions

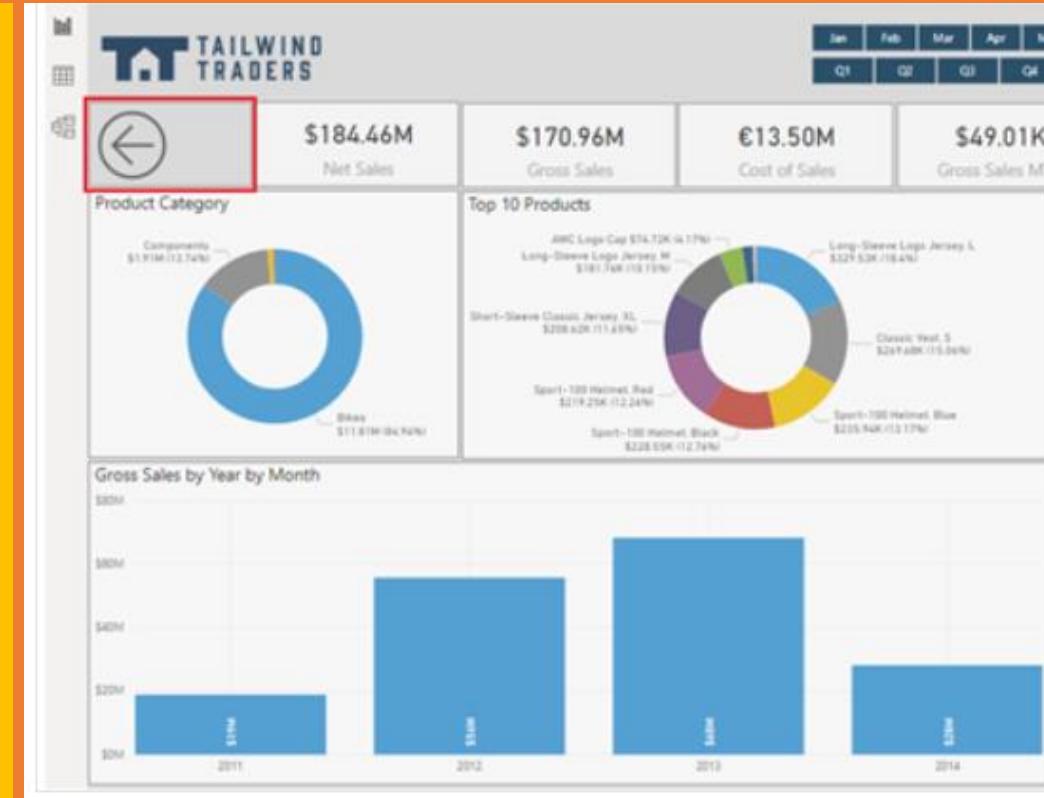


Edit Interactions

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 15th 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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 Exam DA-100: Analyzing Data with Microsoft Power BI

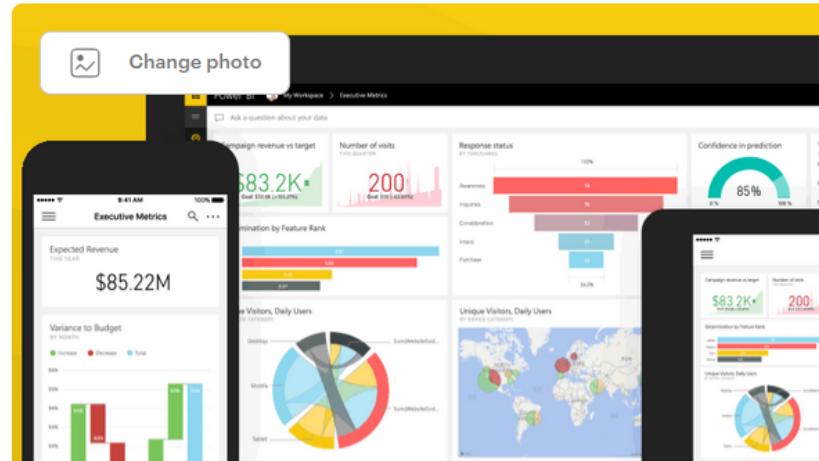
<https://docs.microsoft.com/en-us/learn/certifications/exams/da-100>

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 window for a specific video titled 'Power BI Beginners Training 2021 Lesson 1 - 10'. The video has a duration of 1:04:05. The player interface includes controls for play, volume, and full screen. Below the video, the video title and channel name 'wottabyte' are visible. To the left of the video frame, there are navigation icons for back, forward, and search. The video content itself shows a Microsoft Power BI interface with various charts and data visualizations.

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

Monday 15th 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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- Week 6: Monday 22nd Feb 2021: More user friendly reports : Power BI slicers, bookmarks & custom tooltips
- Week 7: Monday 1st March 2021: Publish & share Power BI reports & dashboards Get to grips with Power BI cloud service & mobile features.
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NEXT WEEK : Power BI Week 6

22nd 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 22nd FEB 17:00 GMT

Lesson 6 of 10 Power BI Beginner

Power BI slicers, bookmarks & custom tooltips



MONDAY 22nd 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 22nd FEB 17:00 GMT

Lesson 6 of 10 Power BI Beginner

Power BI slicers & custom tooltips

MONDAY 22nd FEB 17:00 GMT

Power BI Beginner - NOW

Power BI Q&A Workshop 6

MONDAY 22nd FEB 21:00 GMT

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/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 ?”

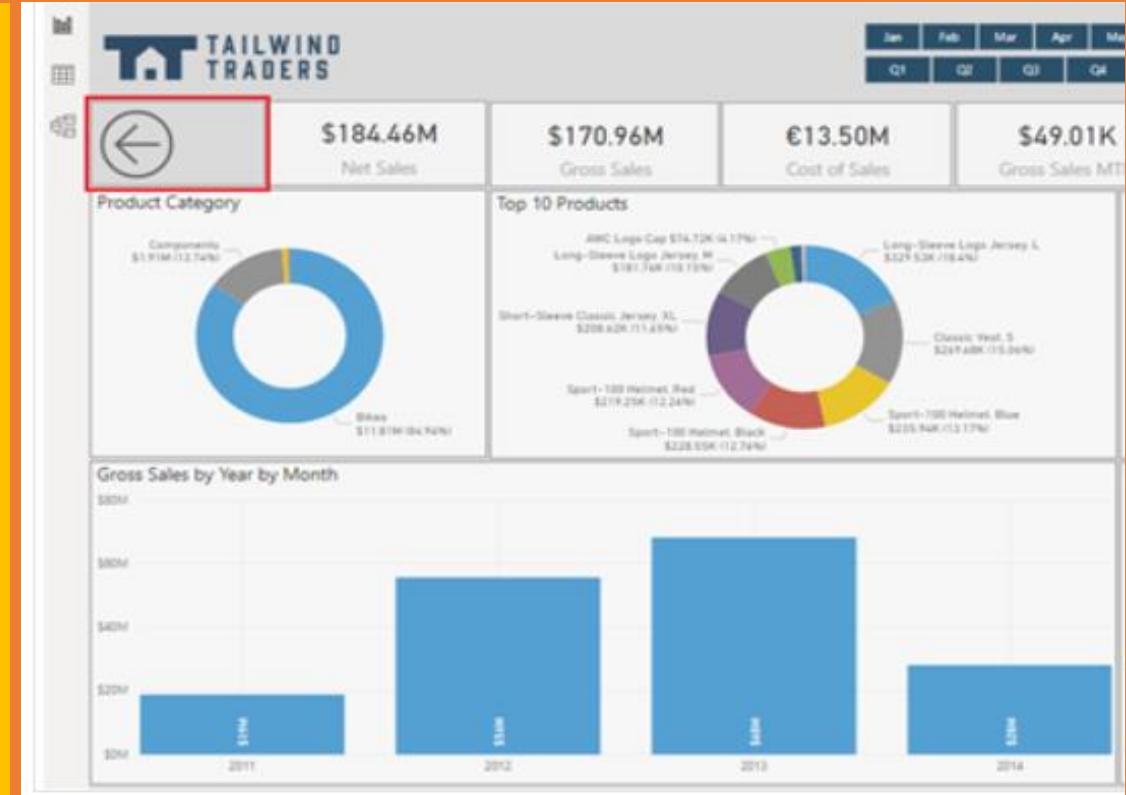
“???”

David share screen again for recording.

POWER BI



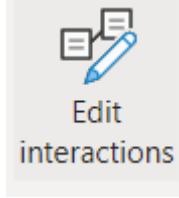
Power BI Beginners 10 week online course with labs



Trainers : David Moss & Conrad Moss

Power BI Week 6

Cross Filtering & Edit Interactions



Demoed last week

1st 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

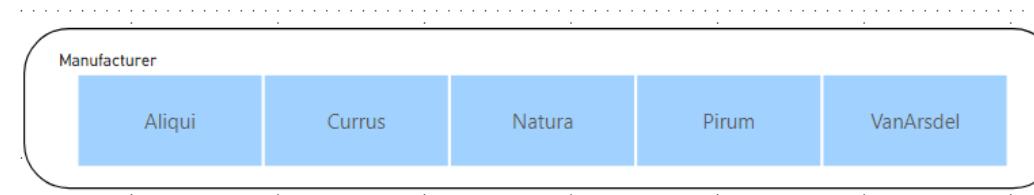
Slicing Filtering & Sorting : Use features in unison to achieve perfect results.

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

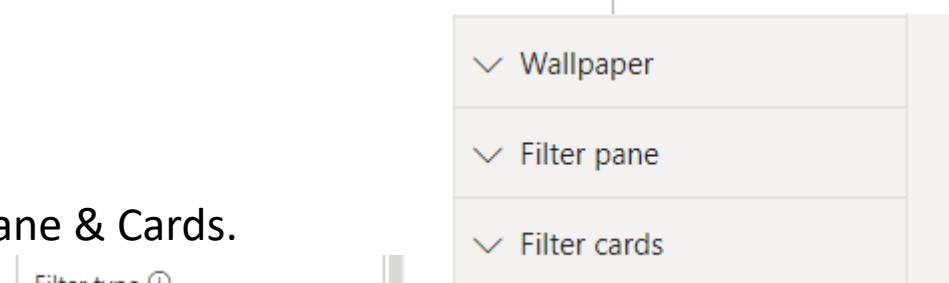
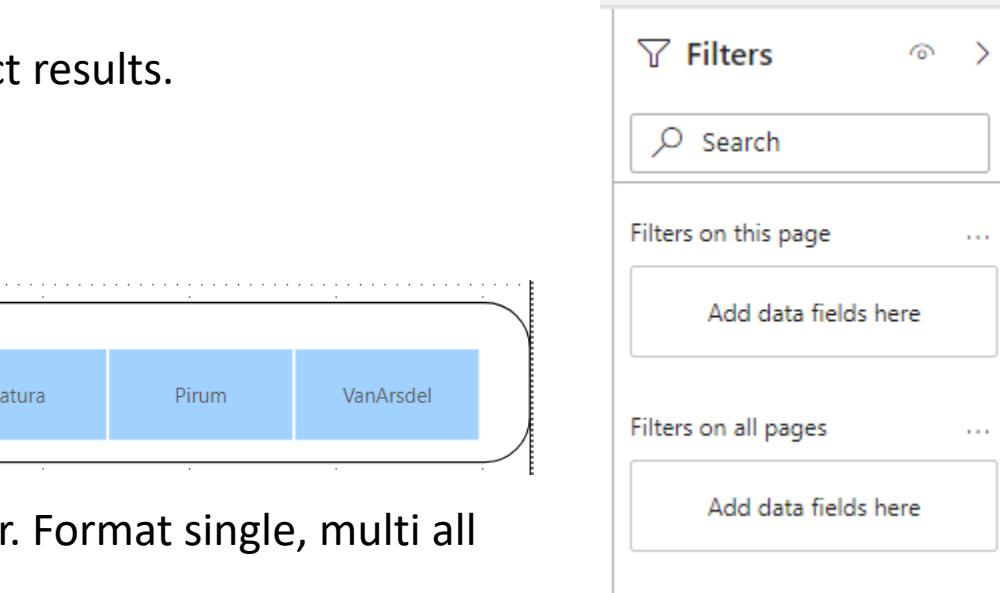
Sliding slicers with Bookmark technique.

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



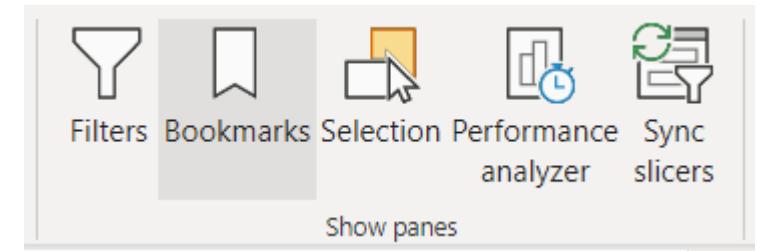
Sync Slicers across pages

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 L5-CondFormat-... | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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

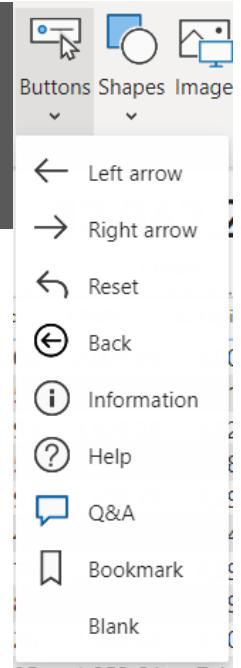
Drill down hierarchy and use for granular detail slicing (needs a good end user)

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



Power BI Week 6

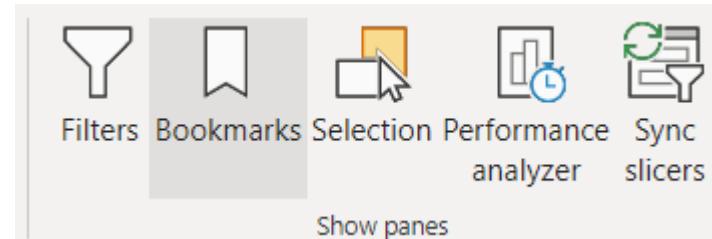
Bookmarks & Selection panel



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

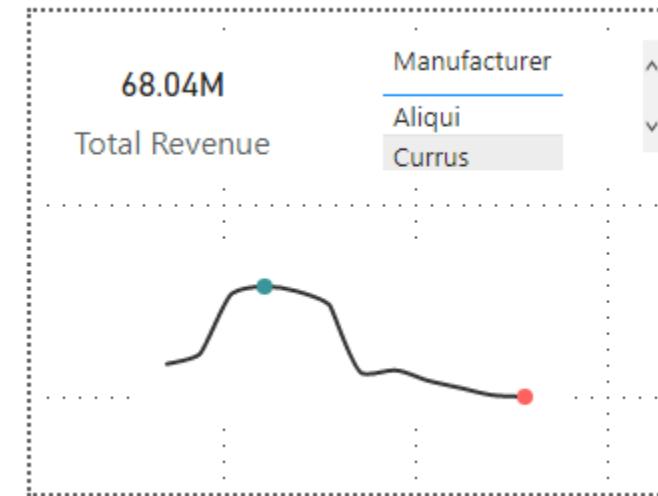
Custom Tooltips



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

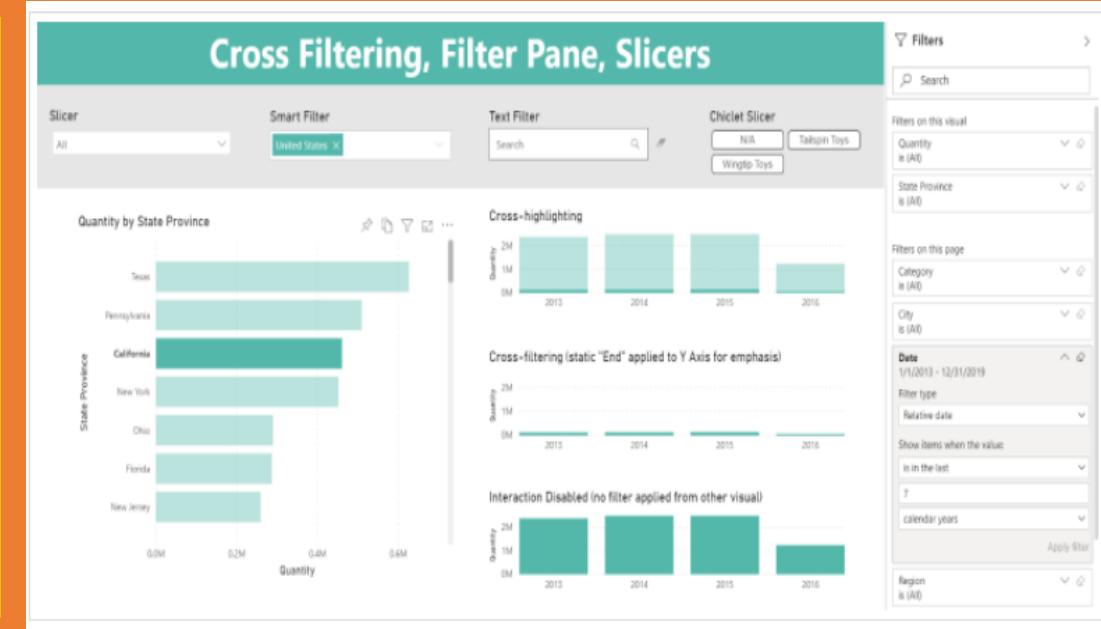
Search

| 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

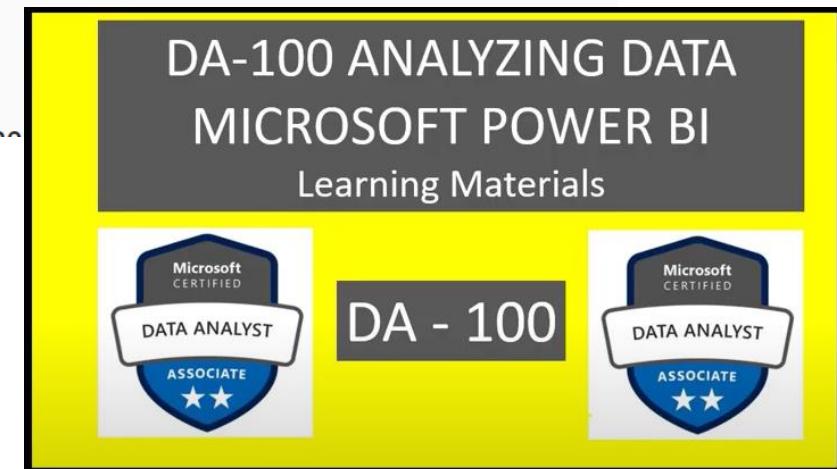
Docs / Learn / Browse Certifications / Exam DA-100: Analyzing Data with Microsoft Power BI - Learn

 Microsoft EXAM

Exam DA-100: Analyzing Data with Microsoft Power BI

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

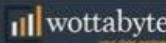
YOU Tube DA-100 : <https://www.youtube.com/watch?v=CI7hdjq0ZxI>



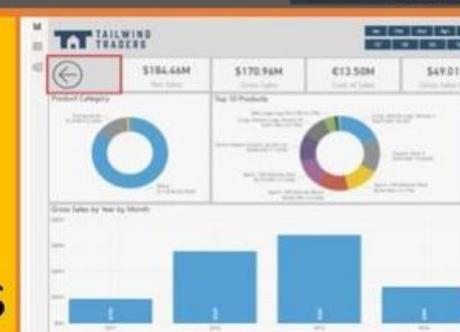
Social Media : Meetup , LinkedIn, YouTube

← → C meetup.com/The-Power-BI-Apprentice/

 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

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[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 window for a specific video titled 'Power BI Beginners Training 2021 Lesson 1 - 10'. The video has a duration of 1:04:05. The player interface includes controls for play/pause, volume, and progress. Below the video, the video title and channel name 'wottabyte' are visible. To the left of the video frame, there are numbered thumbnails for other videos in the series, such as 'Power BI Beginners Online Training 2021 Lesson 1 of 10' (duration 2:33), 'Power BI Beginners Course Lesson 1 of 10 Coursework' (duration 3:55), and 'Lesson 2 - Power BI Beginners Online Training 2021' (duration 1:01:45). The video player also shows a progress bar at approximately 3:04.

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

NEXT WEEK : Power BI Week 7

1st March

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

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

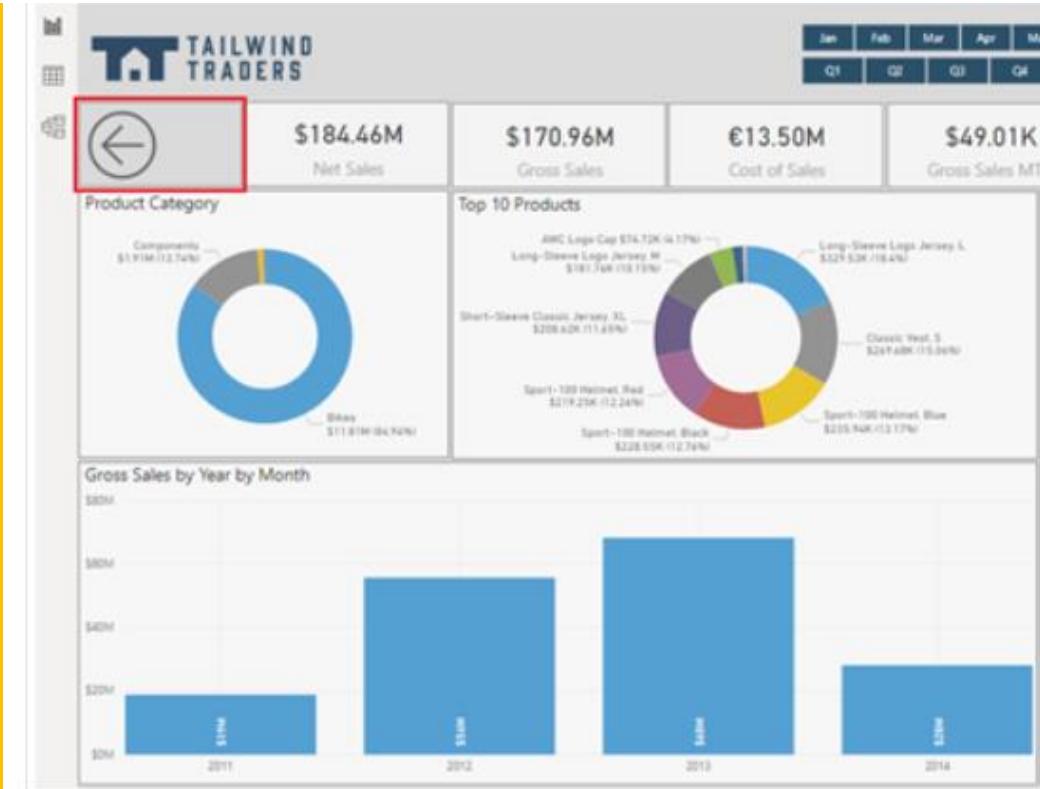
Lesson 7 of 10 Power BI Beginner

Publish & share Power BI reports

MONDAY 1st MAR 17:00 GMT

Lesson 7 of 10 Power BI Beginner

Publish & share Power BI reports & dashboards



MONDAY 1st 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

1st March

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

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Lesson 7 of 10 Power BI Beginner

Publish & share Power BI reports

MONDAY 1st MAR 17:00 GMT

Lesson 7 of 10 Power BI Beginner

Publish & share Power BI reports

MONDAY 1st March 17:00 GMT

Flyer for LinkedIn Events

Power BI Beginner - NOW

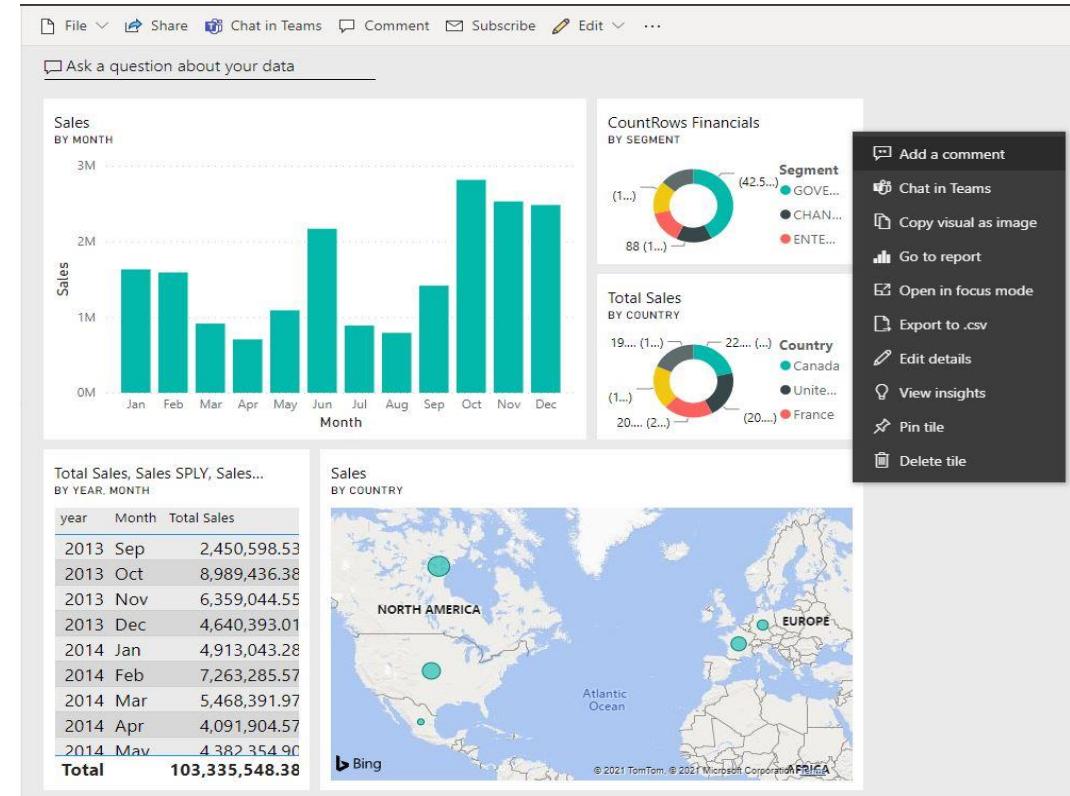
Power BI Q&A Workshop 7

MONDAY 1st March 21:00 GMT

Flyer for LinkedIn Events

Lesson 7 of 10 Power BI Beginner

Publish & share Power BI reports & dashboards



MONDAY 1st 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



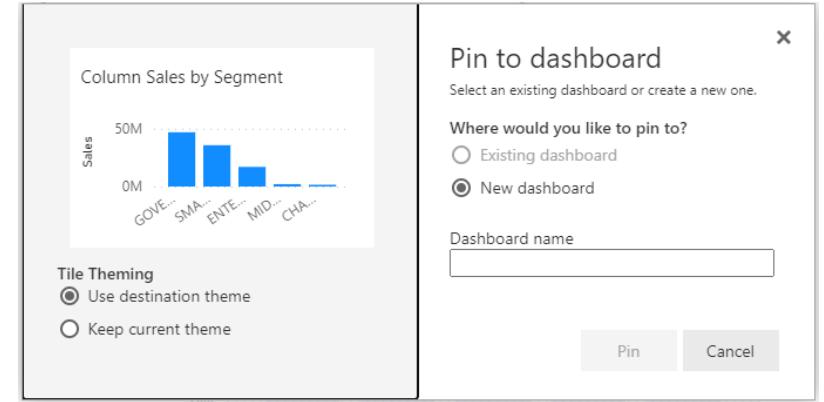
Create Dashboards

Rearrange tiles

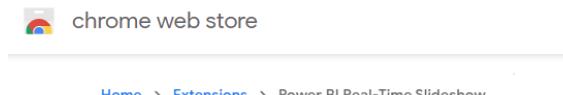
All types of tiles

Streaming tiles : brief intro about streaming

Tiles menu



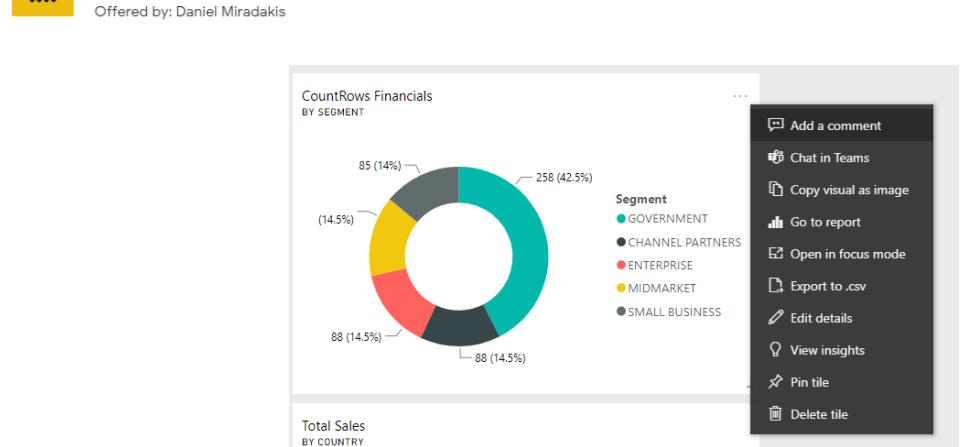
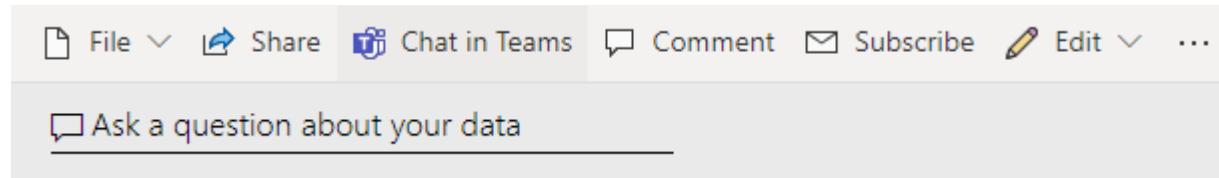
Dashboards in the office lobby : Chrome extension



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

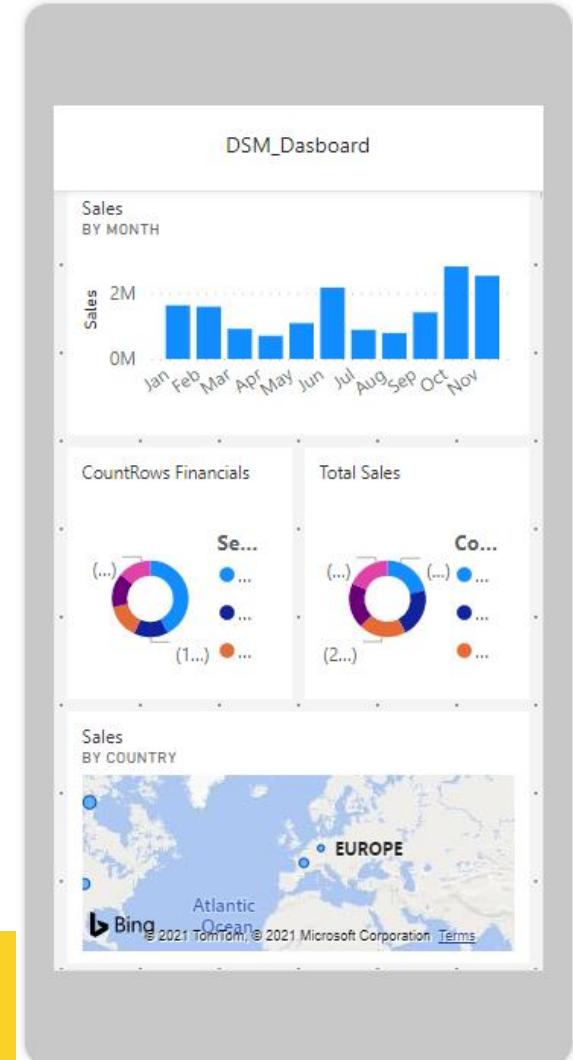
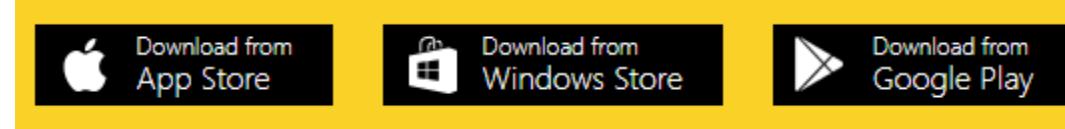
Use Power BI Mobile app to display Power BI

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



Vysor

Offered by: vysor.io



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.

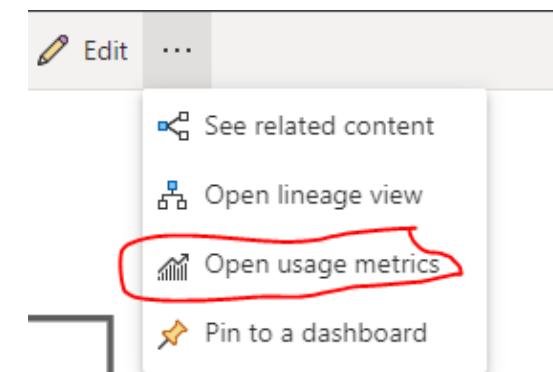
Teams: Chat in Teams

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



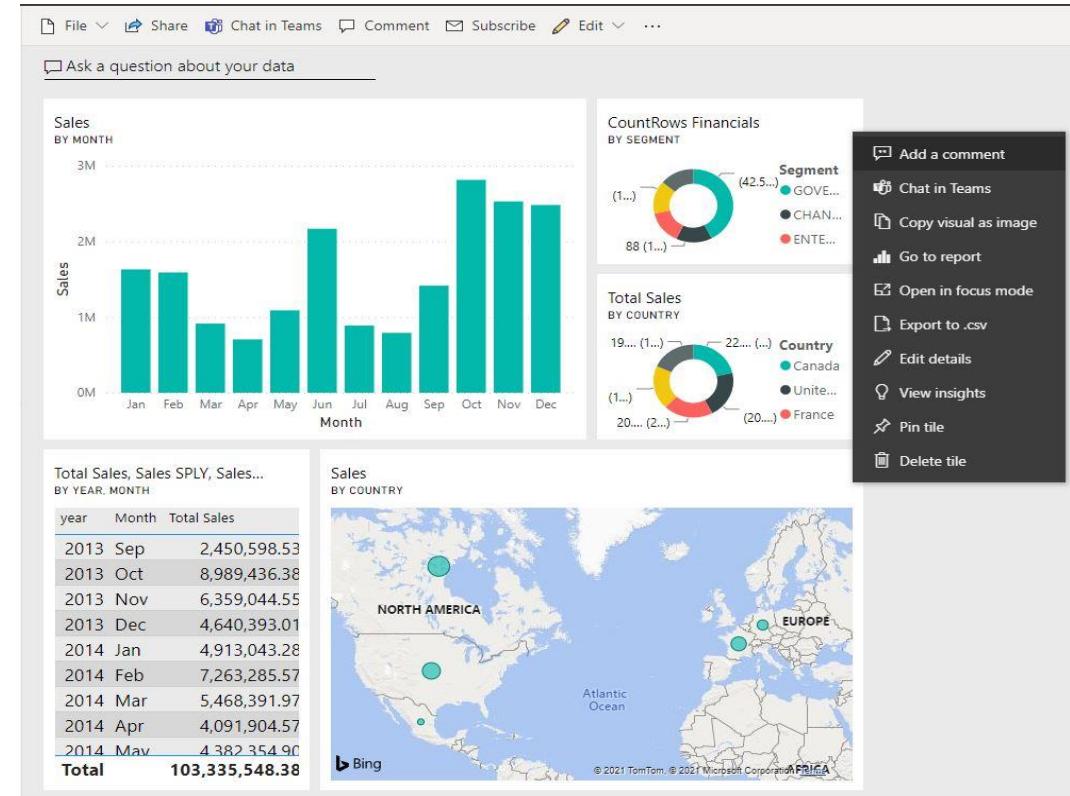
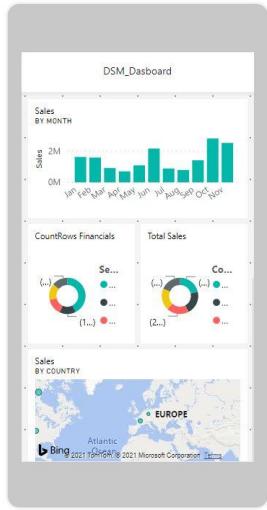
Power BI Week 7

Template



Lesson 7 of 10 Power BI Beginner

Publish & share Power BI reports & dashboards



Course Work Explained

Power BI Week 7 CourseWork

Monday 1st 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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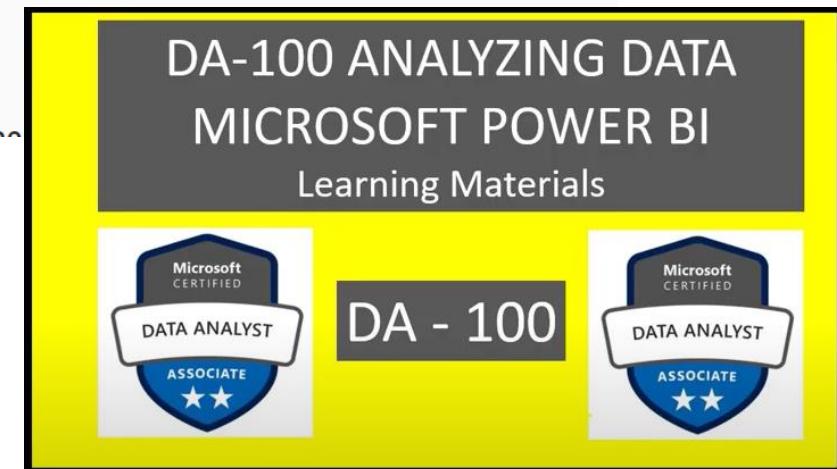
Docs / Learn / Browse Certifications / Exam DA-100: Analyzing Data with Microsoft Power BI - Learn



Exam DA-100: Analyzing Data with Microsoft Power BI

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

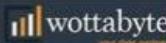
YOU Tube DA-100 : <https://www.youtube.com/watch?v=CI7hdjq0ZxI>



Social Media : Meetup , LinkedIn, YouTube

← → C meetup.com/The-Power-BI-Apprentice/

 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.



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www.wottabyte.com

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...

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

The screenshot shows a video player window for a specific video titled 'Power BI Beginners Training 2021 Lesson 1 - 10'. The video duration is 1:04:05. The video frame displays a Microsoft Power BI interface with various charts and data visualizations. Below the video frame, there are controls for volume, playback progress, and a full-screen button. To the left of the video frame, there are two small thumbnail images: one for 'Power BI Beginners Online Training 2021 Lesson 1 of 10' and another for 'Power BI Beginners Course Lesson 1 of 10 Coursework'. To the right of the video frame, there is a list of related videos with their titles, durations, and upload dates. The first video in the list is 'Power BI Beginners Online Training 2021 Lesson 1 of 10' by wottabyte, with a duration of 2:33. The second is 'Power BI Beginners Course Lesson 1/10 Coursework' by wottabyte, with a duration of 3:55. The third is 'Lesson 2 - Power BI Beginners Online Training 2021' by wottabyte, with a duration of 1:01:45. The fourth is 'DA-100 Power BI learning material' by wottabyte, with a duration of 3:04. The fifth is 'Lesson 3 - Power BI Beginners Online Training 2021' by wottabyte, with a duration of 57:42. The sixth is '3/10 Power BI Beginners Coursework Lesson 3' by wottabyte, with a duration of 57:42. The video player also includes a search bar at the top and a navigation bar with icons for back, forward, and search.

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

Monday 1st 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 18th Jan 2021 : Introduction to Power BI and your first Power BI report.
- Week 2: Monday 25th Jan 2021 : Use Power Query Editor to get data & prepare your data.
- Week 3: Monday 1st Feb 2021 : Use Power BI desktop to structure & create datamodels.
- Week 4: Monday 8th Feb 2021 : Design & configure Power BI visuals like charts, maps & KPIs.
- Week 5: Monday 15th Feb 2021 : Add user friendly report navigation features, slicers & tooltips.
- Week 6: Monday 22nd Feb 2021: More user friendly reports : Power BI slicers, bookmarks & custom tooltips
- Week 7: Monday 1st March 2021: Publish & share Power BI reports & dashboards & Get to grips with Power BI cloud service & mobile features.
- Week 8: Monday 8th March 2021: Enhance your data with DAX for KPIs reporting & visualizations
- Week 9: Monday 15th March 2021: Data analytics reporting & AI features in Power BI.
- Week 10: Monday 22nd 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 8th MAR 17:00 GMT

Lesson 8 of 10 Power BI Beginner

Power BI DAX KPIs & visualizations



MONDAY 8th MARCH 17:00 GMT

Links

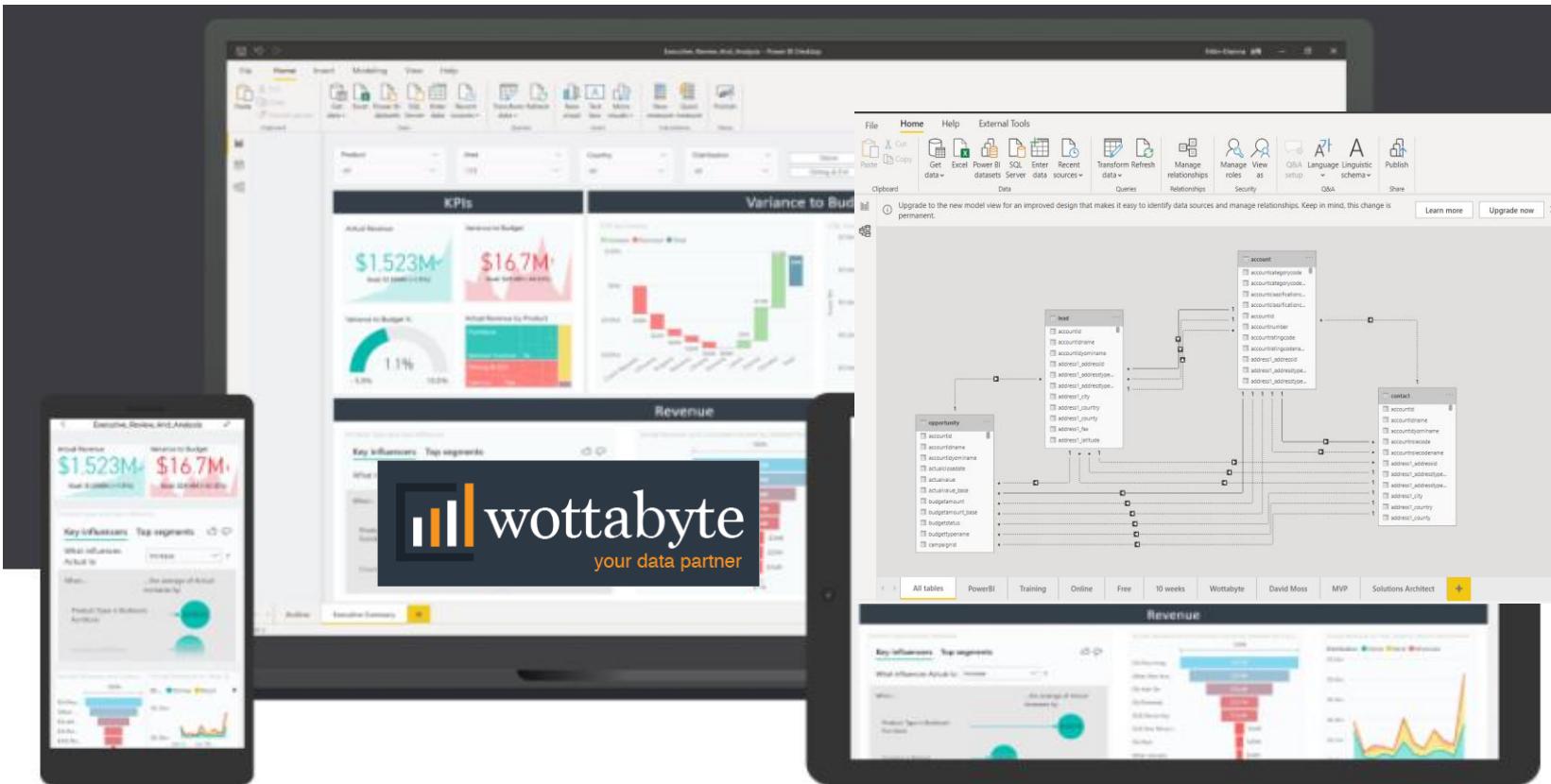
- Youtube Lesson 7: TBC
- Youtube courseworks Lesson 7: TBC
- Register Lesson 8: <https://www.meetup.com/The-Power-BI-Apprentice/events/276482326/>
- Register Q&A Workshop 8: <https://www.meetup.com/The-Power-BI-Apprentice/events/276482399/>
- Course Slides:
<https://github.com/wottabyte/PBITraining/raw/master/10WeekPBIconline2021/DA-100%2010%20weeks%20All%20Slides%20-%20Master.pdf>

LAST PAGE

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

Power BI – LESSON 8 of 10

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Lesson 8 of 10 Power BI Beginner

Power BI DAX KPIs & visualizations



MONDAY 8th MARCH 17:00 GMT

Lesson 8 of 10 Power BI Beginner

Power BI DAX & KPIs visuals

MONDAY 8th March 17:00 GMT

Flyer for LinkedIn Events

Power BI Beginner - NOW

Power BI Q&A Workshop 8

MONDAY 8th March 21:00 GMT

Flyer for LinkedIn Events

Power BI Week 8

Template



Agenda

Back to Dax basics

Calculated Columns

Measures

Sum

Time Intelligence

YTD, YoY

Filter

All

Financial reporting

Link to that famous DAX training course

Power BI Week 8

KPI stories



KPI stories

Reports with KPIs

Coffee shop dashboard

Red & green good & bad

100% store consumption

KPIs

Other cool visualizations

Lets create a dashboard that increments by interactions USE A FLOW that crowd can trigger.

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

Monday 8th March 2021

- **Q&A Workshop 8 - Power BI Beginner Training**
- <https://www.meetup.com/The-Power-BI-Apprentice/events/276627997/>



Power BI Week 8

Template



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

More AI features within Power BI AI toolkit !!

AI dataflows

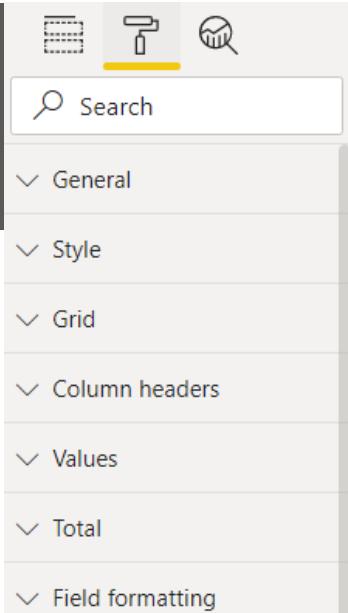
Consume AI models

Power BI Premium

Power Platform PL-900 intro

Power BI Week 9

Advanced Visuals



Custom Visuals : Bullet Chart : view Appsource

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 Visuals

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| Category | Visual | Actions |
|----------------|--------------|---------|
| Editor's Picks | Bullet Chart | Add |
| All | Bullet Chart | Add |

Search

Category

Editor's Picks

All

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

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

Power BI – LESSON 10 of 10

beginners free 10 weeks online training course



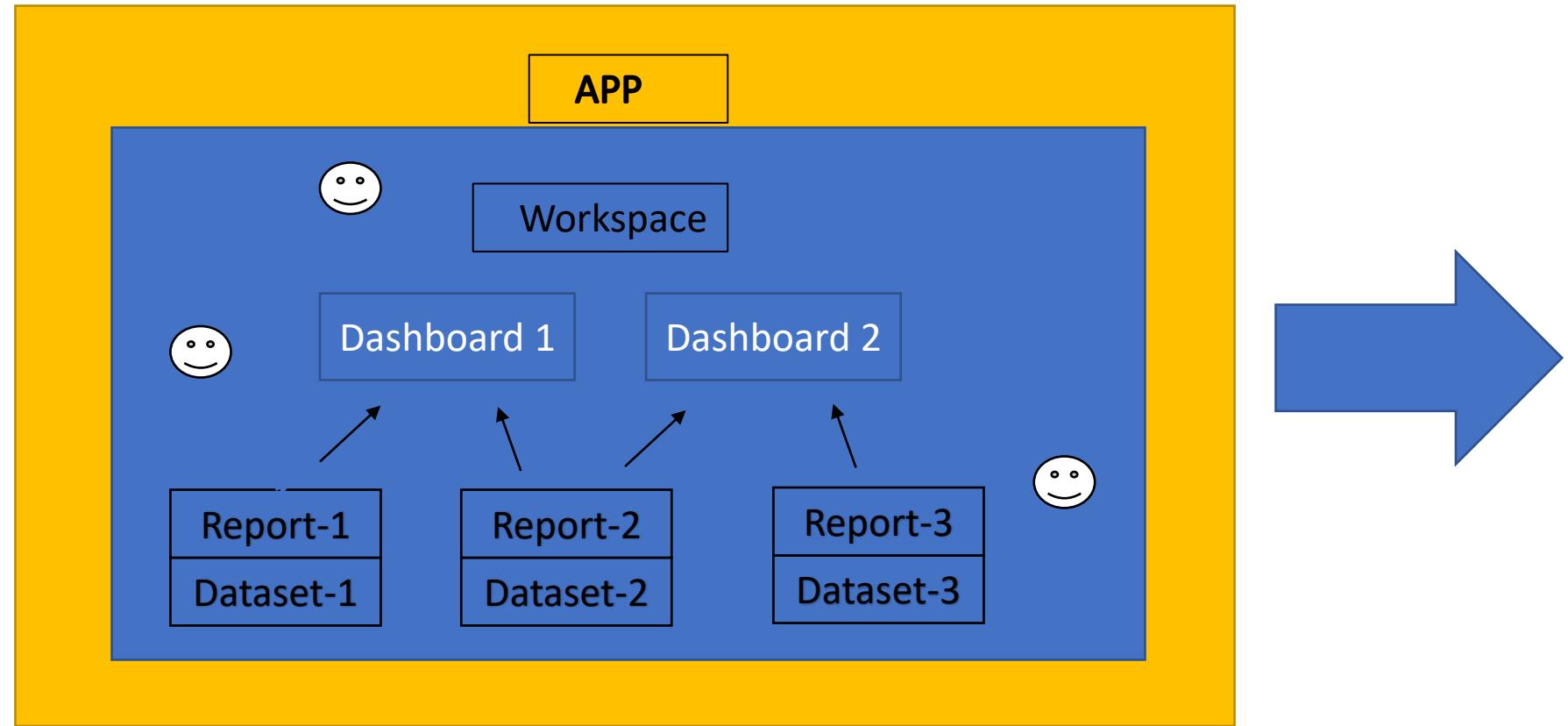
Power BI Week 10

Template



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

Template



Workspaces

Datasets

Row Level security

Power BI gateway

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