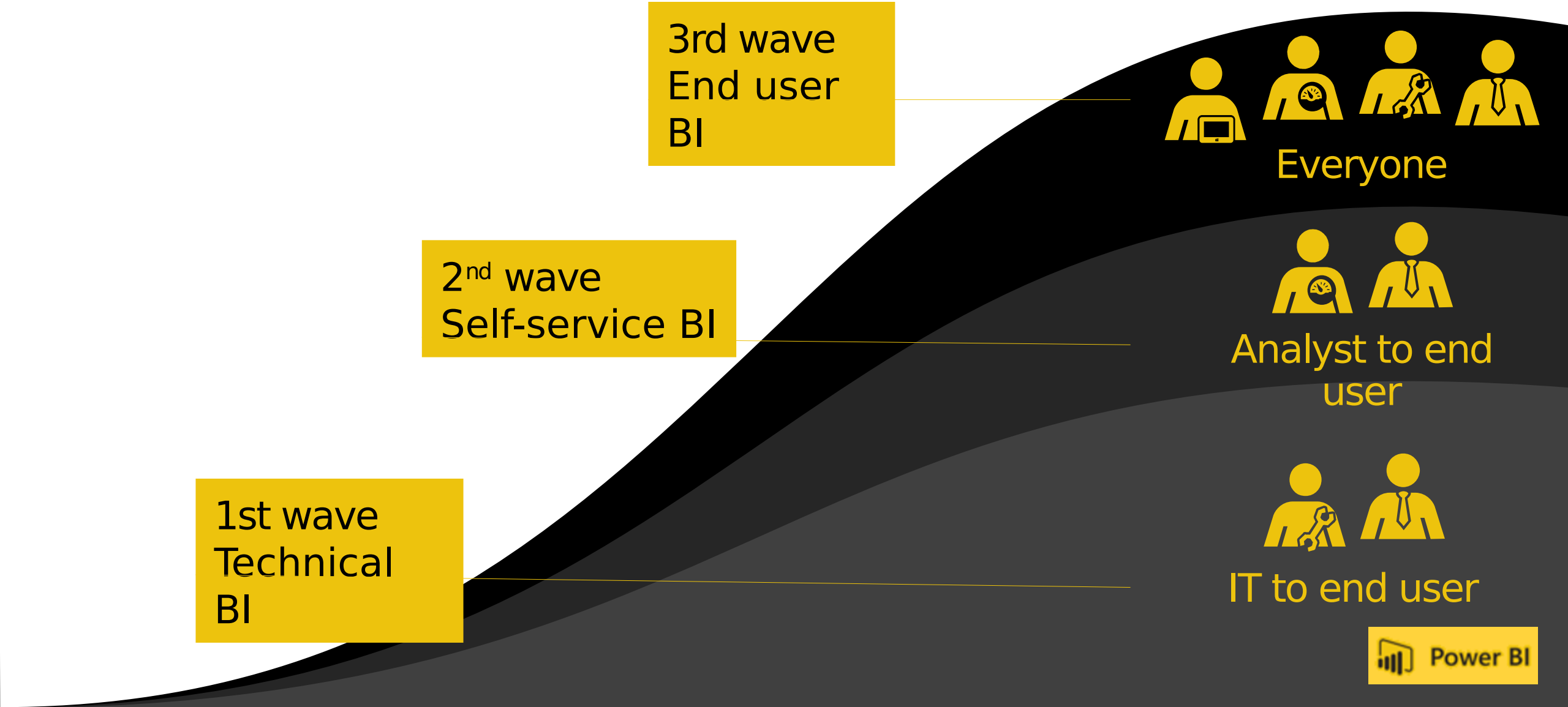
Let us help you bring your data to Life

Power BI

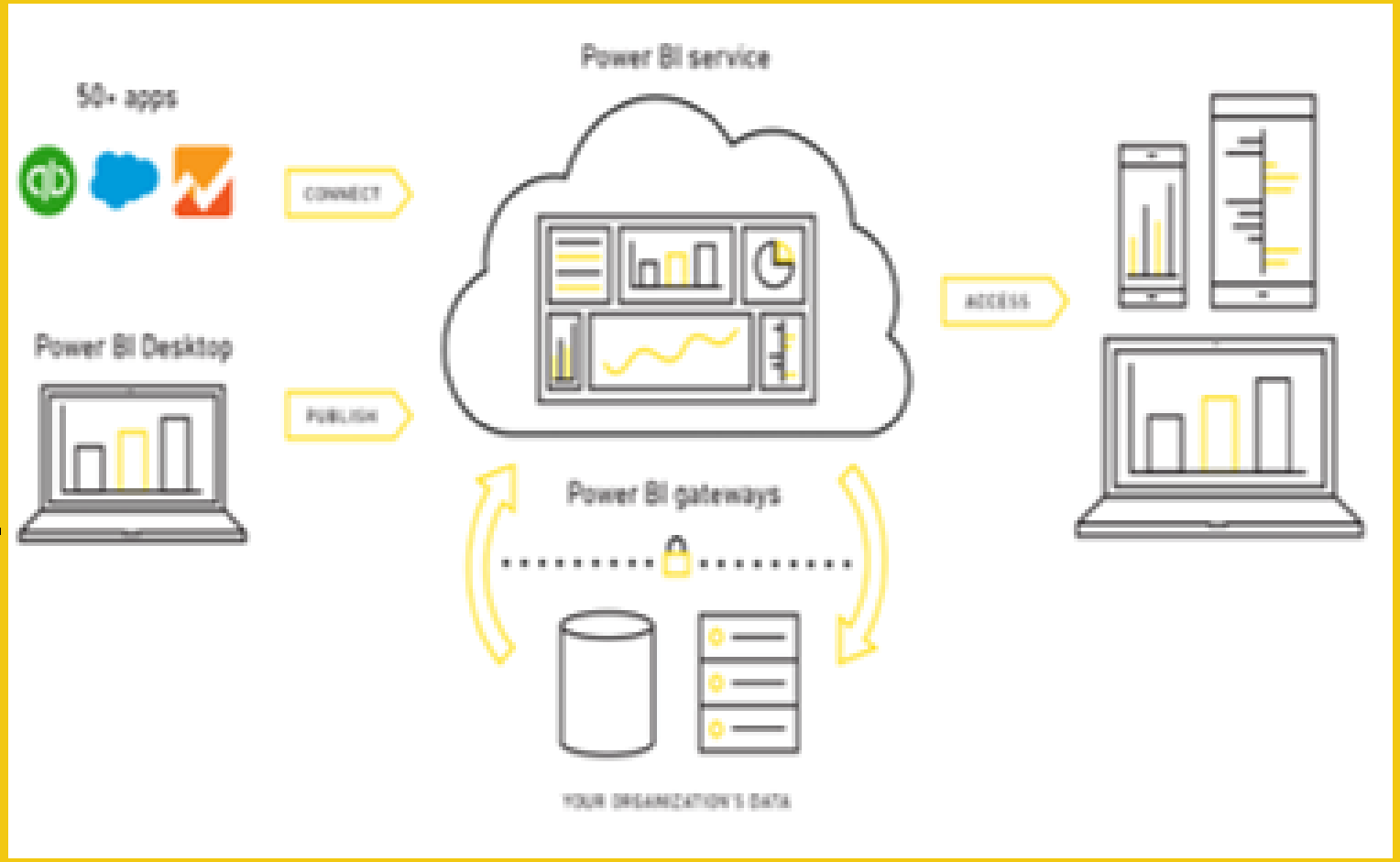
“The world is changing.
Big will not beat small anymore.
It will be the fast beating the slow.”
Rupert Murdoch
Power BI

Today, BI extends to everyone



Agenda

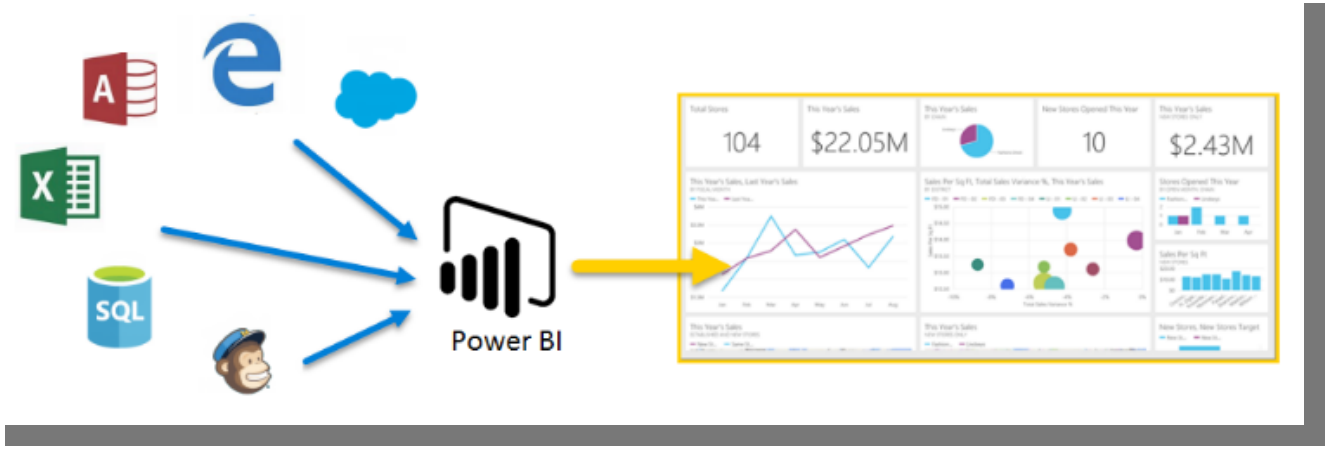
- Introduction.
- What’s PowerBI?
- What’s New in PowerBI.
- Query Editor Introduction.
- Relationships introduction.
- DAX introduction.
- Visualisation introduction.
- PowerBI platform introduction.



Power BI

Why Do you Want to Learn PowerBI?

- There are other tools available eg Tableau, Qliksense/view, OBIEE, Informatica etc.
- Business Intelligence is dead, Augumented Intelligence is the new flavour.



WHY FREE?

How can you Learn PowerBI?

- Use Sam.
- PowerBI Youtube videos.
- PowerBI meetup group https://www.meetup.com/powerbidax/
- PowerBI daily downloads https://onedrive.live.com/?authkey=%21AAgrneBx3oI8Rak&id=B5A9CCD6892588B1%21104&cid=B5A9CCD6892588B1
- PowerBI Radio channel https://crm.audio/category/powerbi/
- PowerBi Slack channel https://join.slack.com/t/pbidax/shared_invite/enQtMjg3ODg0NDE0Mzg5LTllNGY4Mzc3ZDc5NDhkZDE1ZGUyN2Y2MmRhNjIxZGE1ZDBmZjE4OWNmYmZiNWIxYjgxOWVjNDM3MTU1NGFhOWQ
- PowerBI Whatsapp group https://chat.whatsapp.com/34s8dOL0TeVGupcChEK97e
- PowerBI Youtube channel https://www.youtube.com/channel/UCEgbg0lTIL8QM4E0XhmM8sw

What will you achieve with PowerBI

Top Tier Companies using PowerBI

The following is a list of top brands or large organizations

1. Facebook - For behavior analysis related to status updates and profile pictures.
2. Google - For advertising effectiveness and economic forecasting.
3. Twitter - For data visualization and semantic clustering
4. Microsoft -
5. Uber - For statistical analysis
6. Airbnb - Scale data science.
7. IBM -
8. ANZ - For credit risk modeling
9. HP
10. Ford
11. Novartis
12. Roche
13. New York Times - For data visualization
14. Mckinsey
15. BCG
16. Bain

What will you achieve with PowerBI Course

You will learn MS Excel and DAX free along with PowerBI.

DATA minning , DATA minting ,DATA visualisation help others using R.

Can be a speaker to attract new possibilities in Data sector.

Able to develop new dashboards for sharing your expertise in data.

Can be an active community in Nordic PowerBI Group.

Of course pros

Jobfinder Jobindex

Power BI

Who this Course is for?

- Business Intelligence Developers.
- Business Intelligence Consultants.
- Data Enthusiasts.
- Business Intelligence Architects.
- Decision Makers.
- PowerBI application developers.
- Business Analysts want to play with data and develop new tricks.

Any Experience Level on Data or Information Technology or Excel

Between 0-15 years of Industry experience holders.

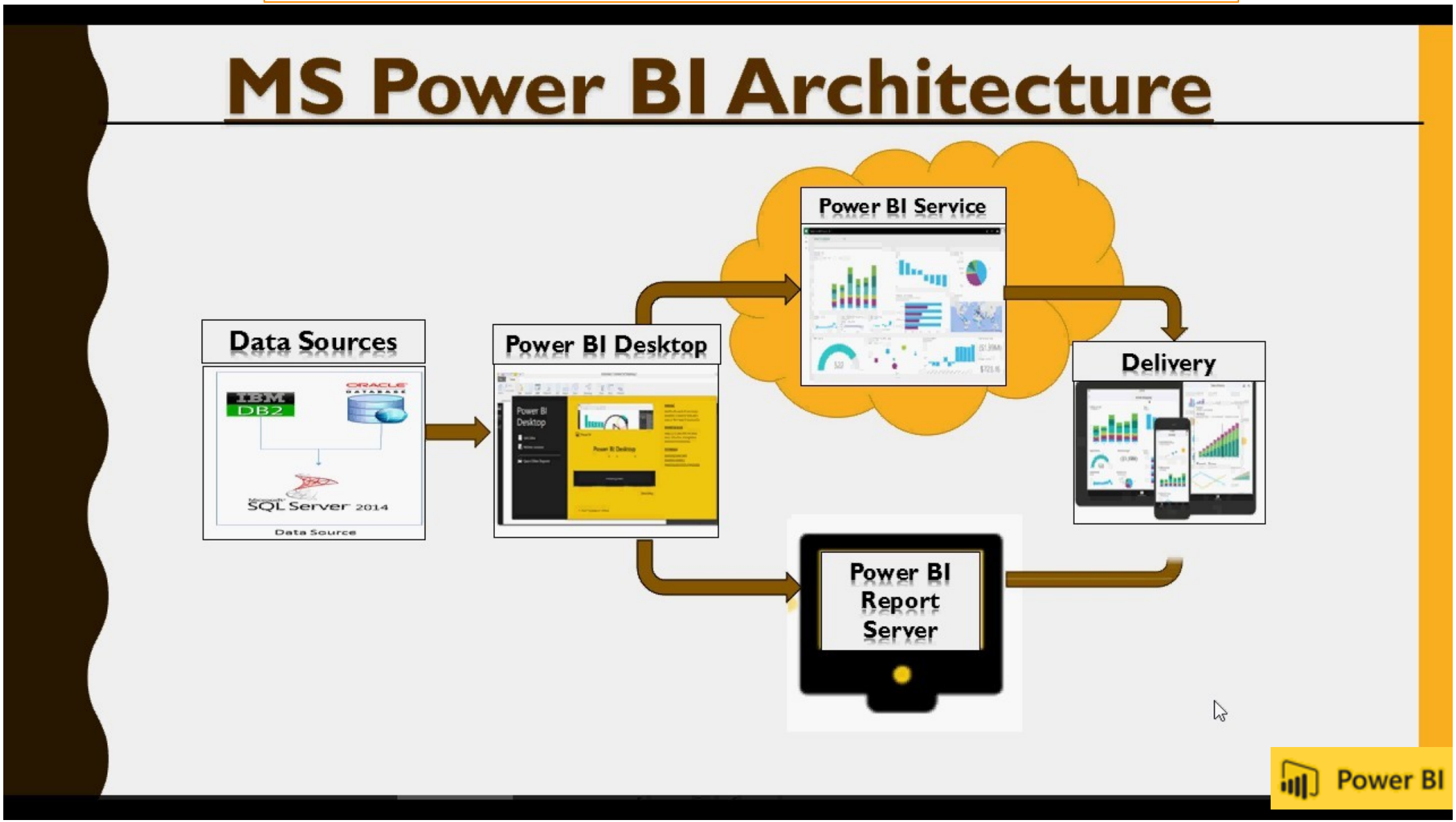
Sam Chatterjee

Business Intelligence Developer at H&M, Denmark.

- Speaker in Microsoft, lyngby 2017.
- Meetup groups in PowerBI Denmark, Norway, Australia.
- Youtube channel in sambidata.
- Whatsapp group on Global PowerBI and R ML .

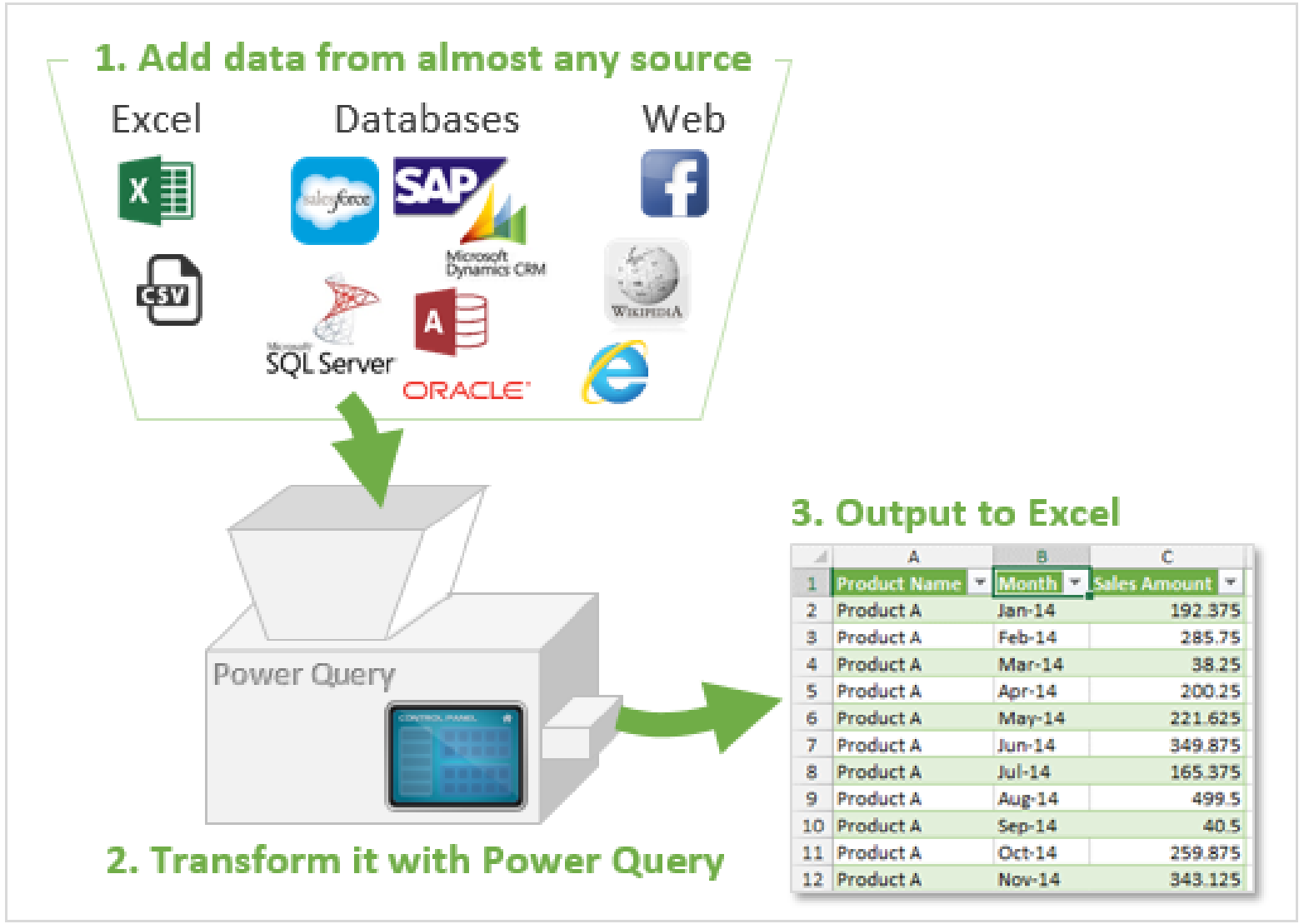
@bidata

What’s PowerBI?



Power Query

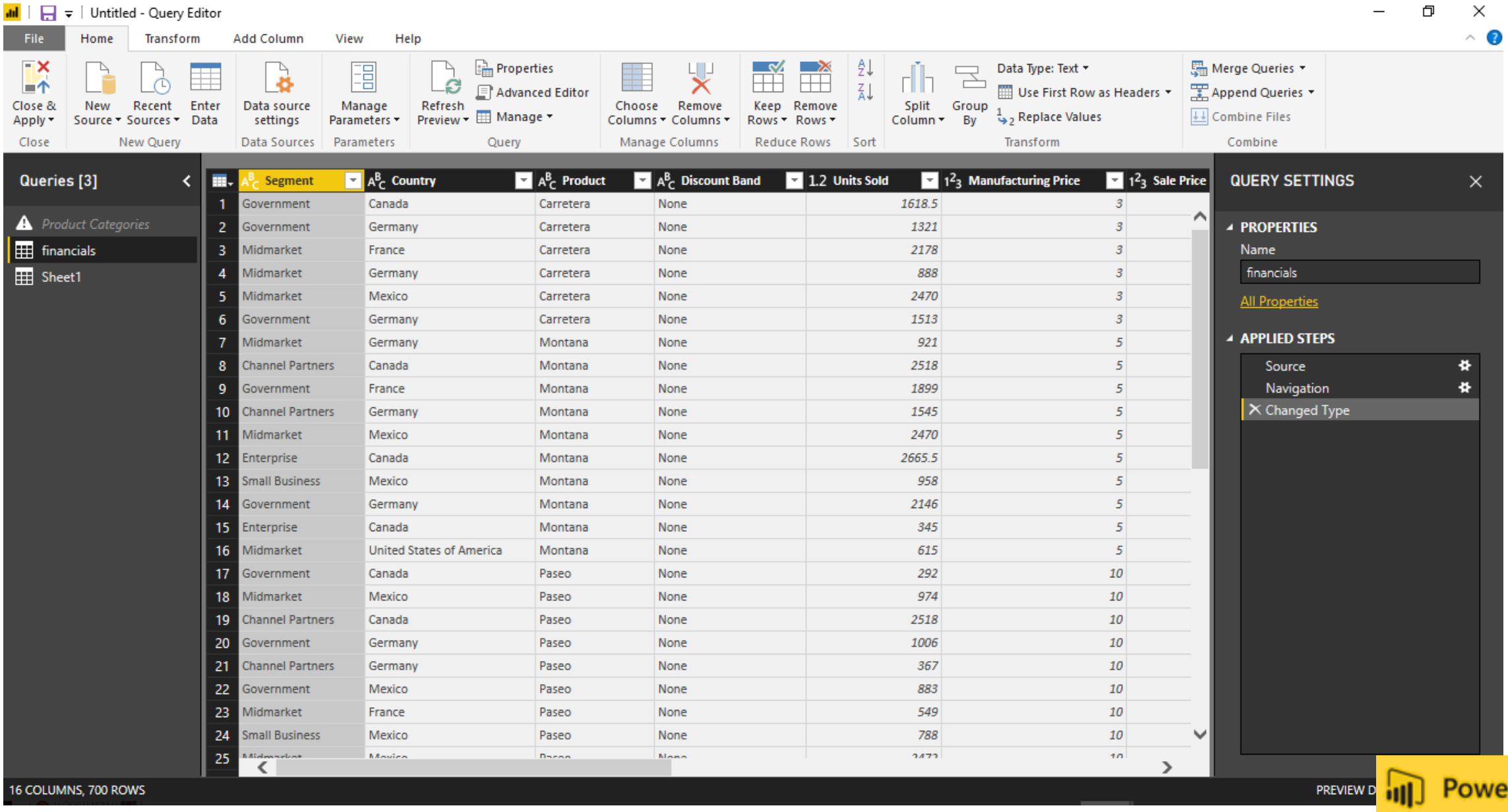
Power Query Transforms Your Data



	A	B	C
1	Product Name	Month	Sales Amount
2	Product A	Jan-14	192.375
3	Product A	Feb-14	285.75
4	Product A	Mar-14	38.25
5	Product A	Apr-14	200.25
6	Product A	May-14	221.625
7	Product A	Jun-14	349.875
8	Product A	Jul-14	165.375
9	Product A	Aug-14	499.5
10	Product A	Sep-14	40.5
11	Product A	Oct-14	259.875
12	Product A	Nov-14	343.125

Power BI

Power Query-II

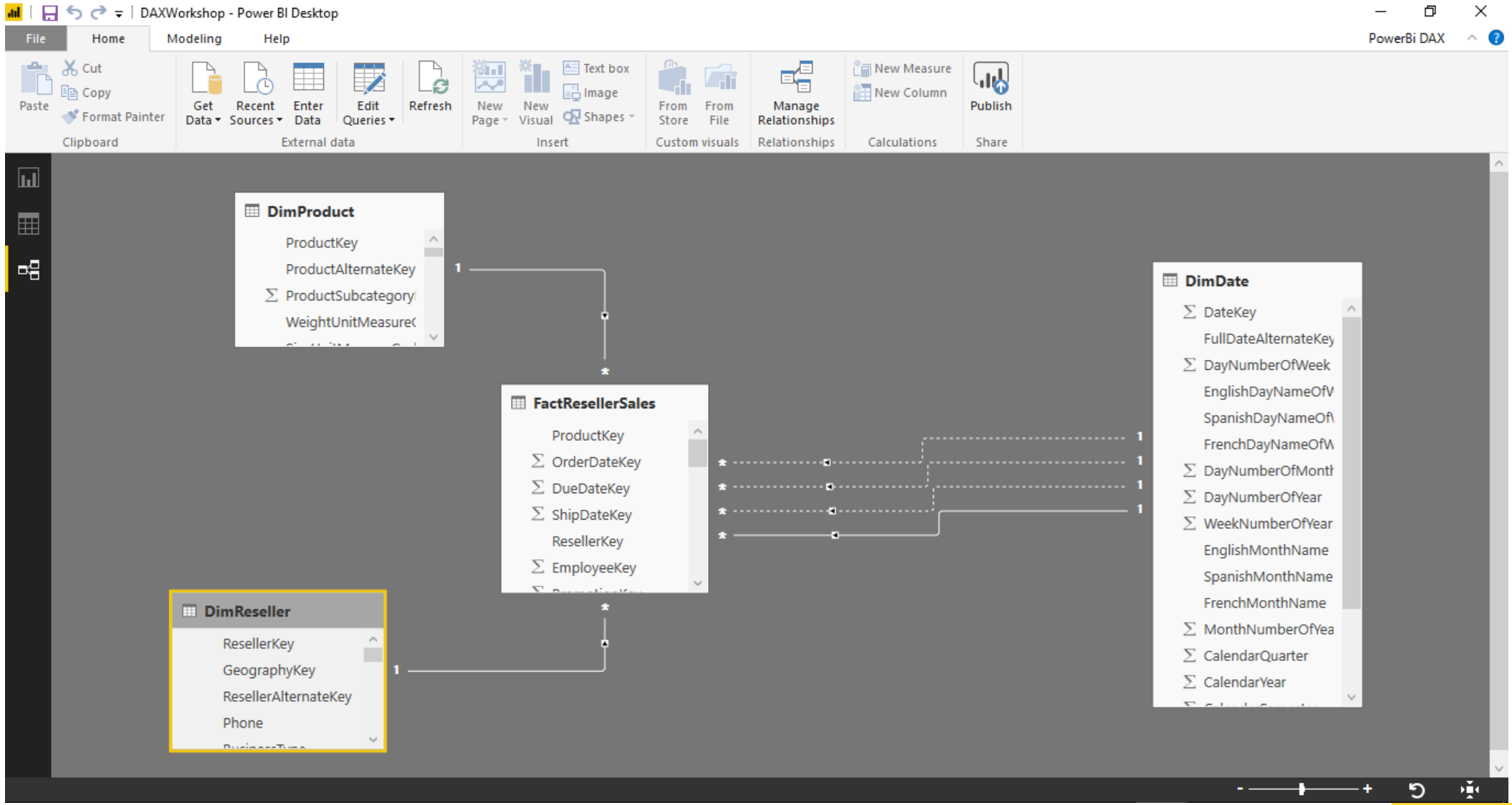


Power Query-III

- **Common Data Tasks Made Easy.**
- **Overview of the Power Query Add-in Menus**
- **Unpivot Data for Pivot Tables**
- **Append (Combine) Tables with Power Query.**
- **Merge Tables – A VLOOKUP Alternative**
- **Create Custom Functions**
- **Power Query Records Your Steps & Automates Processes**

Power BI

PowerPivot + Relationship Introduction



PowerPivot + Relationship Introduction-II

- Powerpivot is a datamodelling engine which works on xvelocity in memory based tabular modeling engine.
- The in-memory engine gives a fast response time and modeling engine to develop starschema.
- It helps to calculated measures and columns.
- It deploys a powerful language DAX.

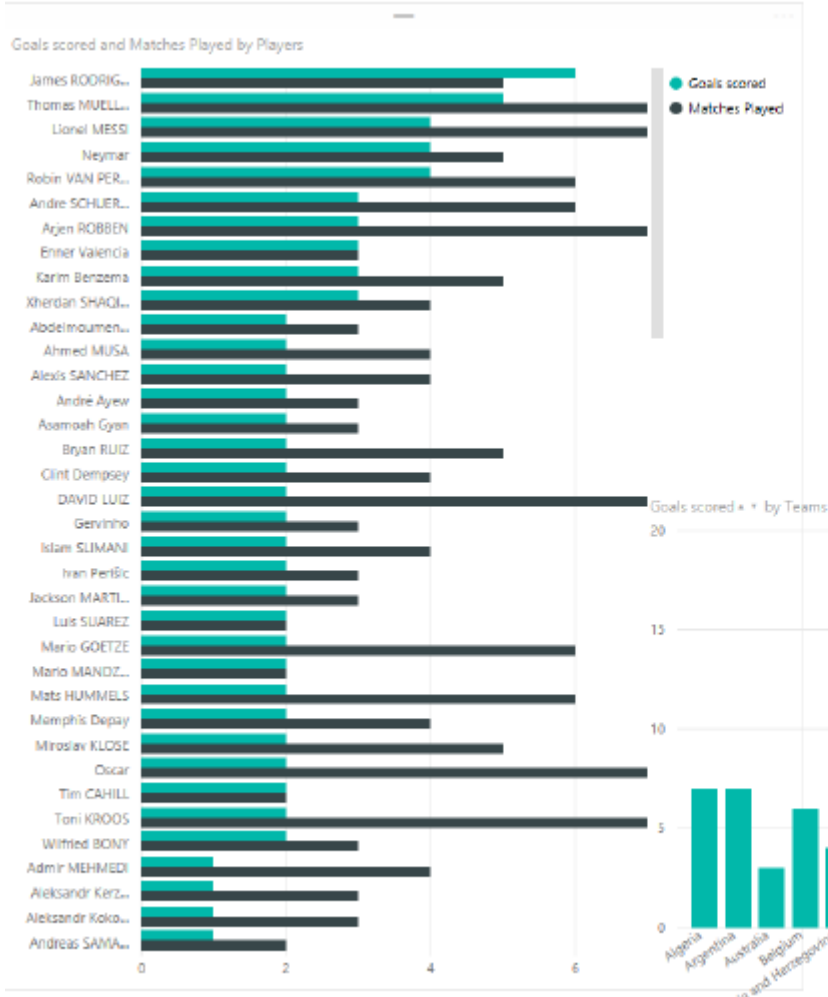
DAX Introduction

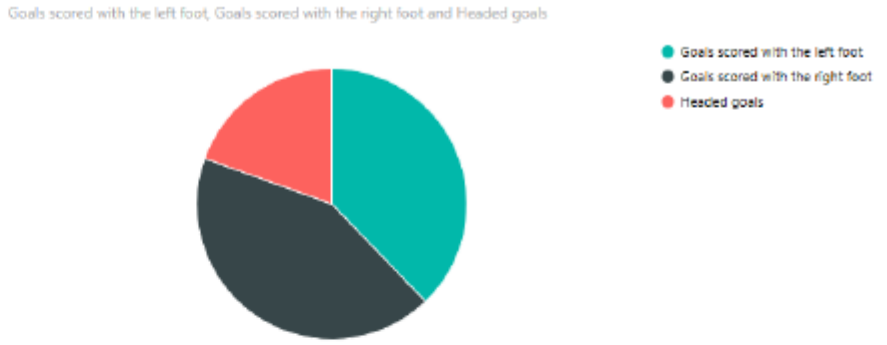
```
evaluate
(
    generate
        (
            Filter
                (
                    calculateTable
                        (
                            summarize
                                (
                                    DimSalesTerritory
                                   ,DimSalesTerritory[SalesTerritoryGroup]
                                )
                        ), DimSalesTerritory[SalesTerritoryGroup]="North America"

                ),--Table 1
```

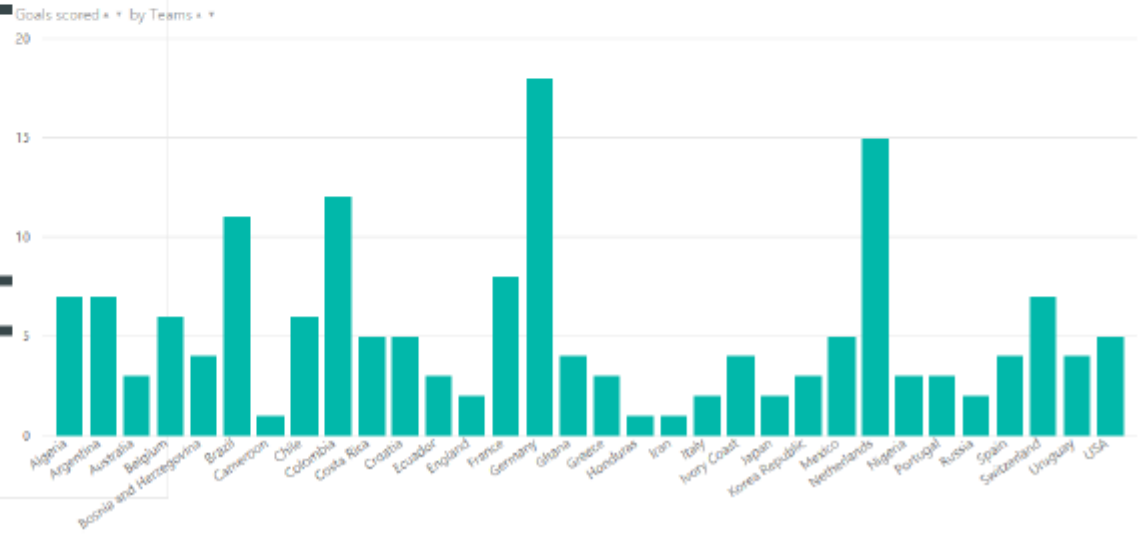
DAX Introduction

- DAX (Data Analysis Expressions) is a formula language that helps you create new information from the data that already exists in your Data Model.
- DAX formulas enable you to perform data modeling, data analysis, and use the results for reporting and decision making.
- It is a collection of functions, operators, and constants that can be used in a formula or expression to calculate and return one or more values.
- DAX is the formula language associated with the Data Model of Excel Power Pivot.
- DAX includes some of the functions that are used in Excel formulas, but with modified functionality and additional functions that are designed to work with relational data and perform dynamic aggregation.

PowerView


Goals scored and Matches Played by Players
James RODRIG...
Thomas MUELL...
Lionel MESSI
Neymar
Robin VAN PER...
Andre SCHLIER...
Arjen ROBBEN
Enner Valencia
Karim Benzema
Xherdan SHAQI...
Abdelmoumen...
Ahmed MUSA
Alexis SANCHEZ
André Ayew
Asamoah Gyan
Bryan RUIZ
Clint Dempsey
DAVID LUIZ
Gervinho
Islam SLIMANI
Ivan Perišic
Jackson MARTI...
Luis SUAREZ
Mario GOETZE
Mario MANDZ...
Mats HUMMELS
Memphis Depay
Miroslav KLOSE
Oscar
Tim CAHILL
Toni KROOS
Wilfried BONY
Admir MEHMEDI
Aleksandr Kerz...
Aleksandr Koko...
Andreas SAMA...
Goals scored
Matches Played
0
2
4
6

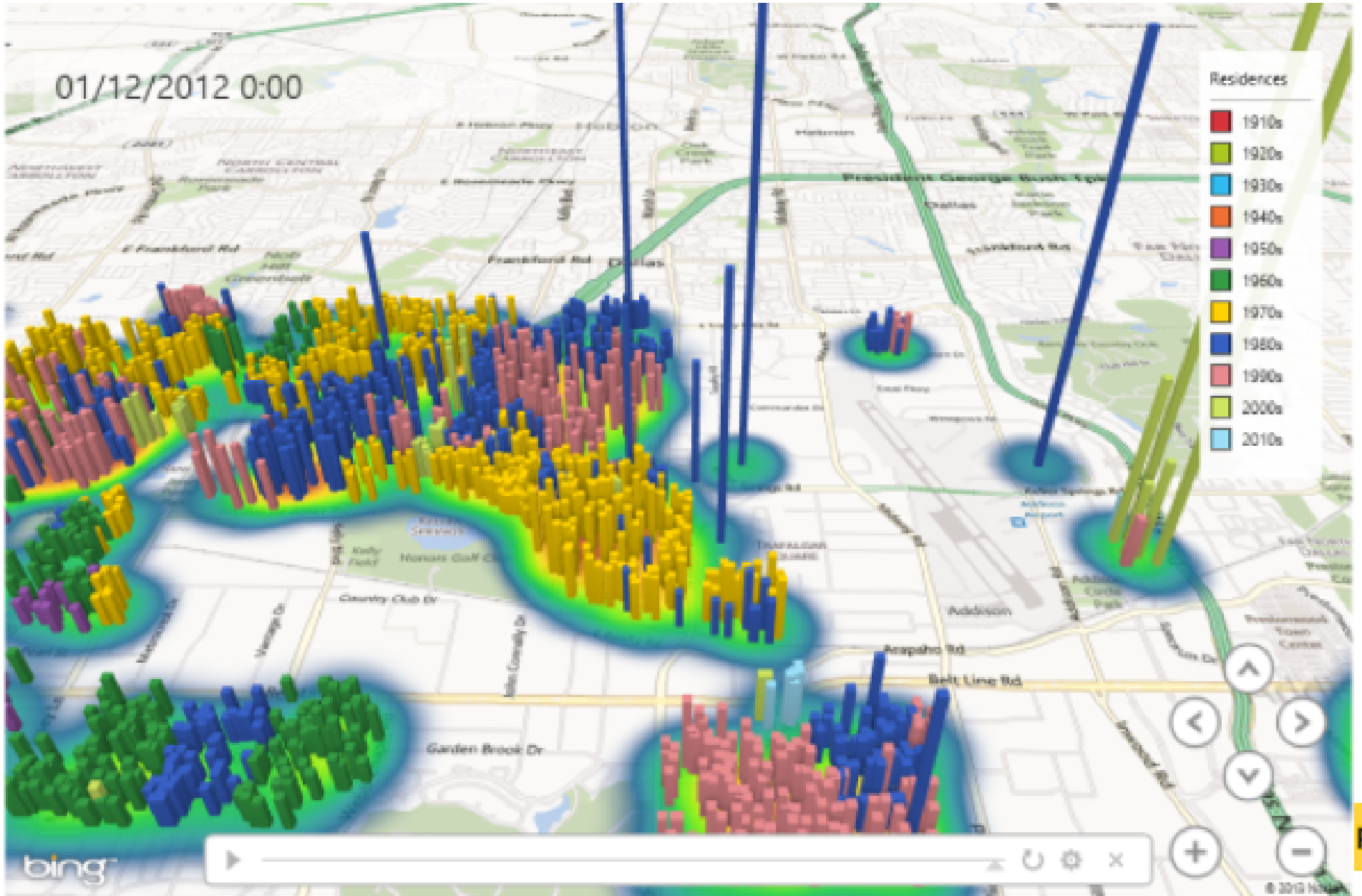

Goals scored with the left foot, Goals scored with the right foot and Headed goals
Goals scored with the left foot
Goals scored with the right foot
Headed goals


Goals scored by Teams
20
15
10
5
0
Algeria
Argentina
Australia
Belgium
Bosnia and Herzegovina
Brazil
Cameroon
Chile
Colombia
Costa Rica
Croatia
Ecuador
England
France
Germany
Ghana
Greece
Honduras
Iran
Italy
Ivory Coast
Japan
Korea Republic
Mexico
Netherlands
Nigeria
Portugal
Russia
Spain
Switzerland
Uruguay
USA

PowerView-II

- It is an interactive data visualisation that can connect to data sources.
- It fetches metadata to be used for data analysis graphically.
- It has many visualisation tools,charts, bar graphs, spiral, heatmap, slicers etc.
- It has slicing and dicing the data.
- These are interactive, that can highlight part of the data.

Power Map

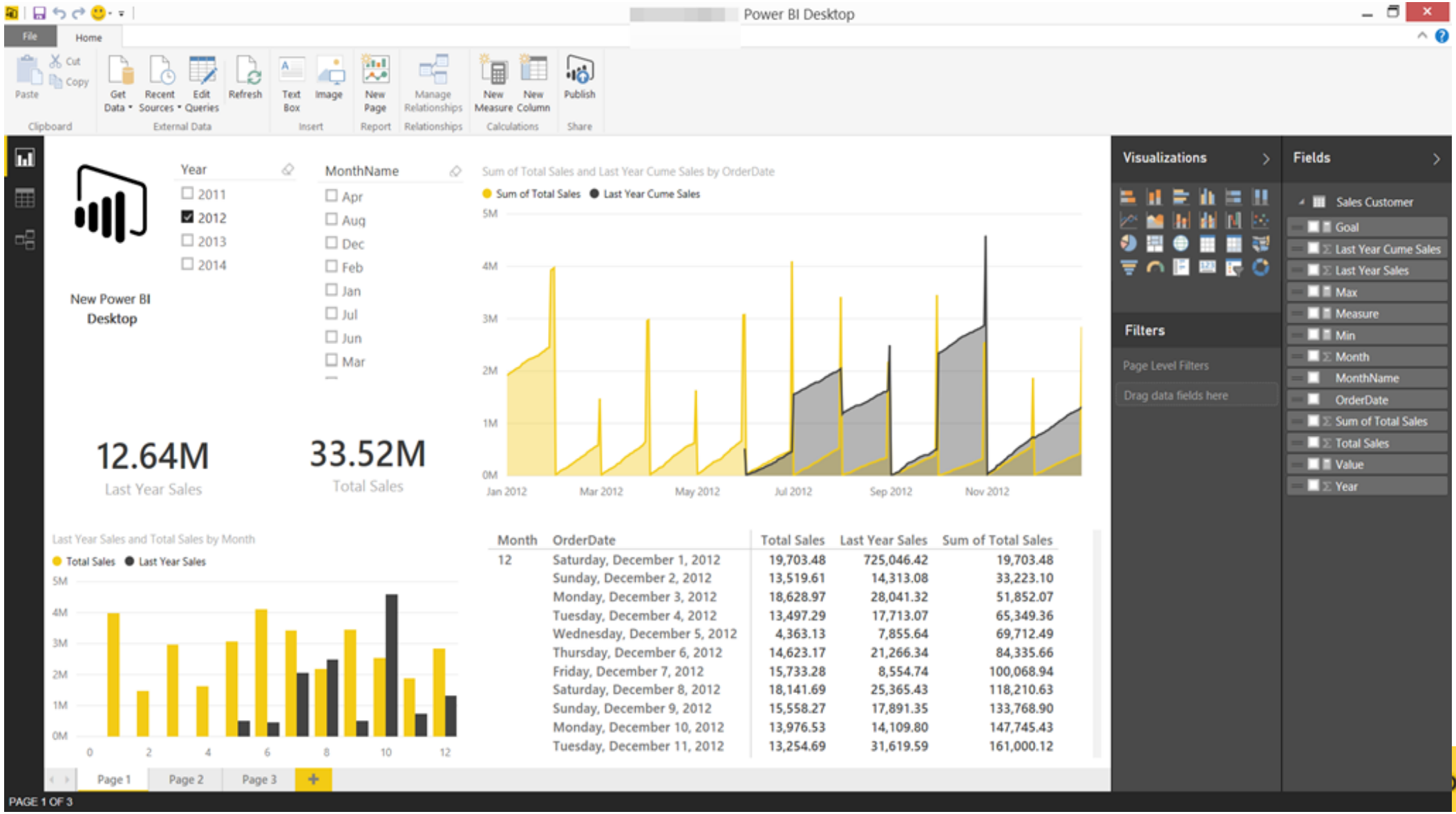


Power BI

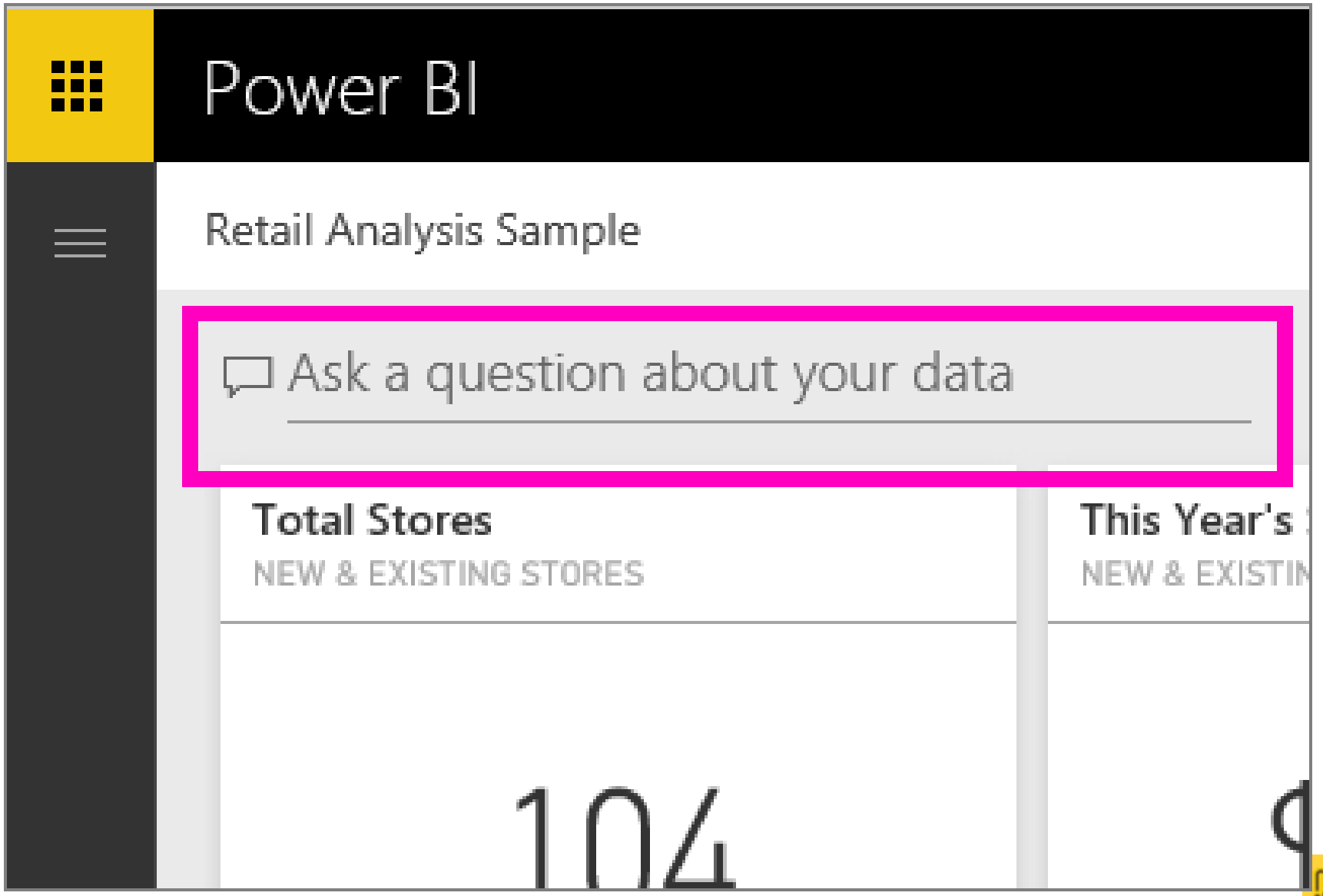
PowerMap

- It is for visualising Geo-spatial information in 3D mode.
- We can visualise two measures as height of a column in 3D and heatmap.
- It can based as country, city, state, street address.
- Power Map works with Bing maps to get best visualisation.
- It is an add-ins for excel 2013 and embedded in excel 2016.

PowerBI Desktop



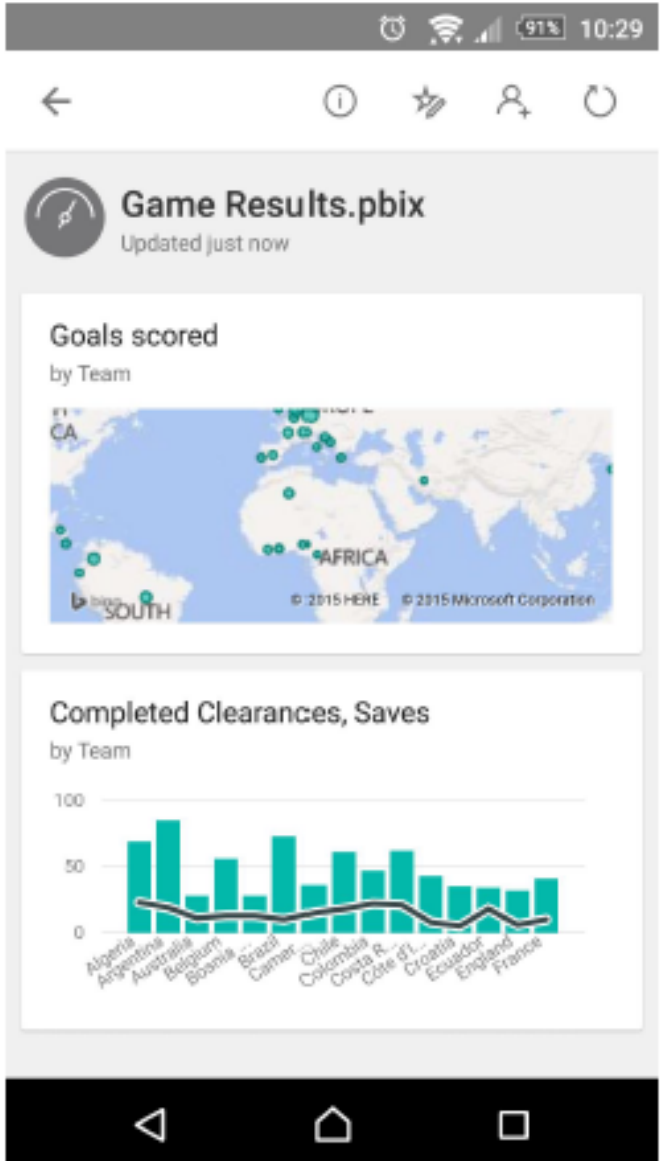
Power Q & A


Power BI
Retail Analysis Sample
Ask a question about your data
Total Stores
NEW & EXISTING STORES
104
This Year's
NEW & EXISTIN
Power BI

PowerBi Q&A-II

- It is a natural language engine for questions and answers to your data model.
- Once you built data model and deployed into powerbi website.
- It works with Power Q&A and works with Power View for the data visualisations.

PowerBI Mobile Apps



- These mobile apps for three main OS providers, Android, Apple and Windows.
- We can share the interactive reports using mobile app.

Power BI

What is NEW in PowerBI DECEMBER 2017

Reporting

- Q&A for report creation (preview)
- Cross-highlighting for bookmarks
- More bookmark flexibility
- Field properties pane and field descriptions
- Scatter visual from x- & y-axis groupings
- High density sampling for maps based on latitude and longitude
- Responsive slicers
- New custom visuals
  - Card Browser
  - Table Heatmap
  - Data Image by CloudScope
  - Power KPI Matrix
  - Text Filter
  - ChartAccent – LineChart

Analytics

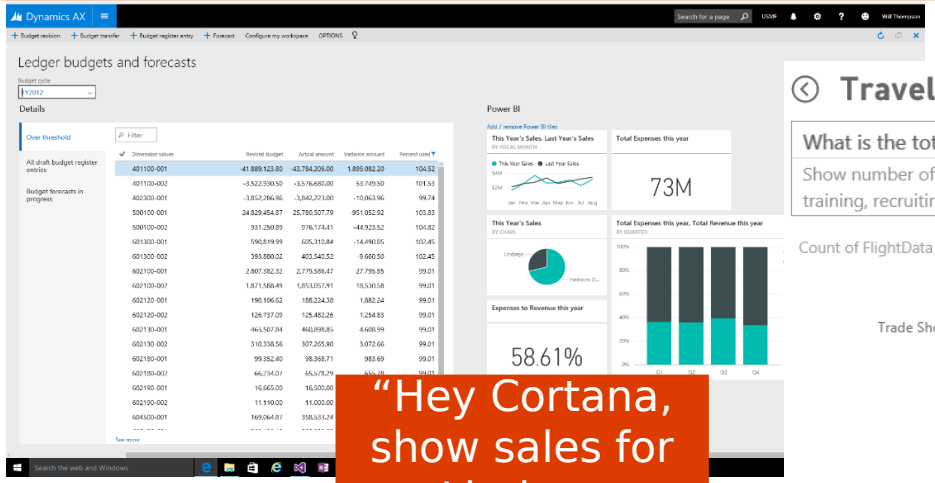
- Drill filters other visuals

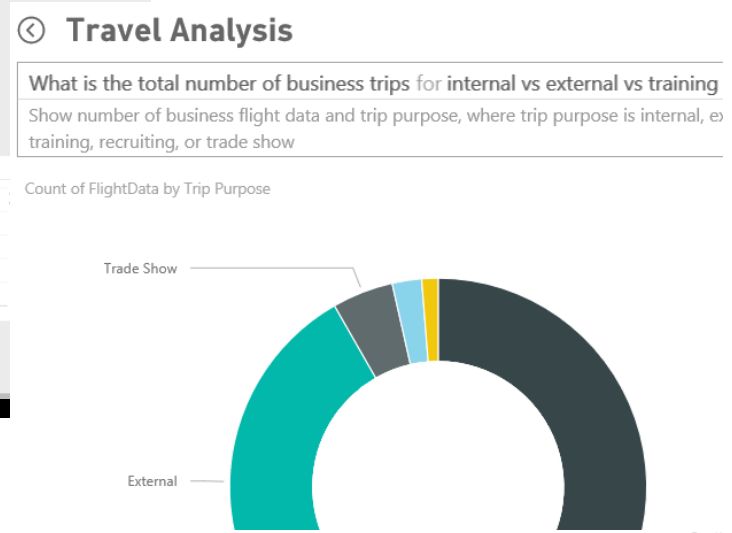
Data connectivity

- Adobe Analytics connector (preview)
- HDInsight Interactive Query connector
- Data.World connector
- SAP BW connector improvements:
  - Support for connecting to an SAP BW Message Server
  - Support for Windows Authentication
- IBM Netezza connector is now generally available

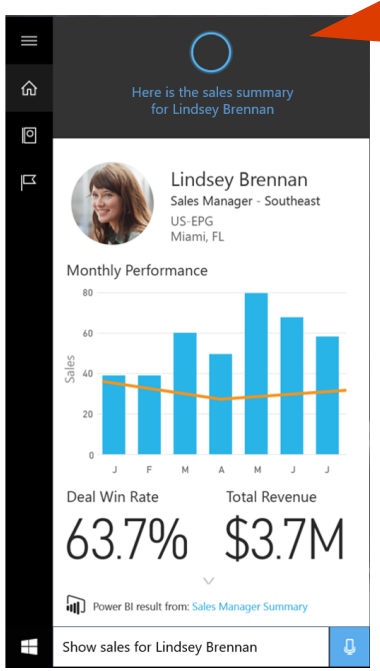
Power BI

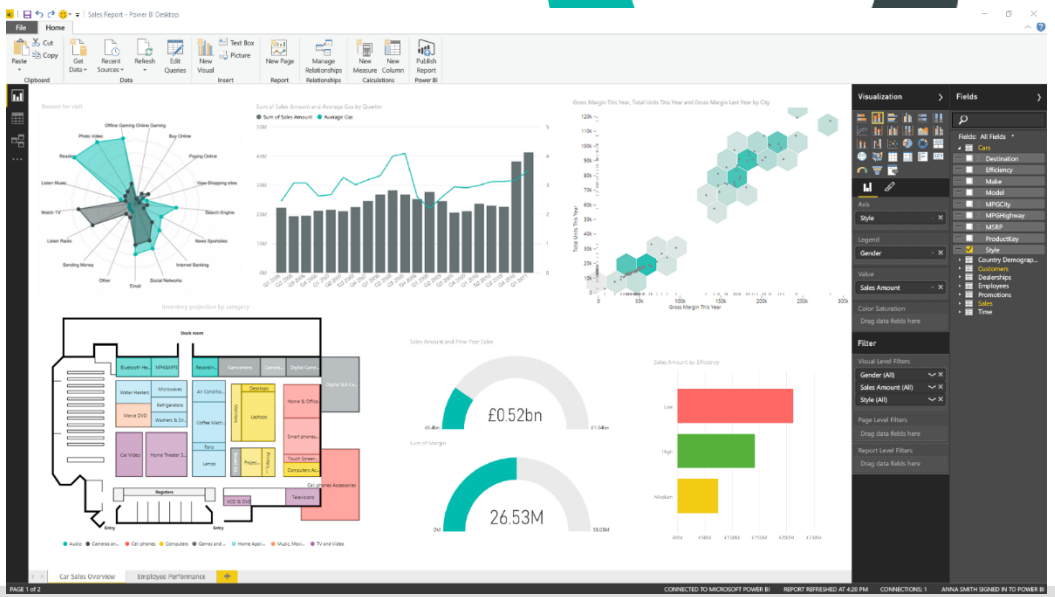
New User Experiences





"Hey Cortana, show sales for Lindsey Brennan"





Power BI

Natural Language Query – ask questions of your data in natural language with Q&A.

Cortana integration – with Power BI allows Cortana to access your business data.

Quick Insights – discover patterns and trends in your data automatically.

Custom Visualizations – gain new perspective with custom visualizations that bring data to life

Integrated into your apps – integrate Power BI visualizations into your applications.

Power BI Solution is like Baking Cookies… Yum!

Power Query

1. Prepare the cookies…

Power Pivot
Pivot Tables

2. Bake them…

Power View
Power Map

3. Present & share

Downloads

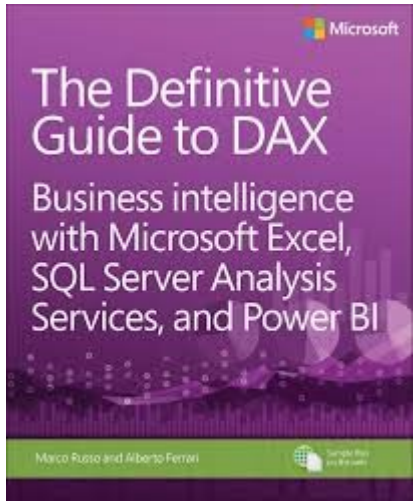
- To install PowerBI from Microsoft

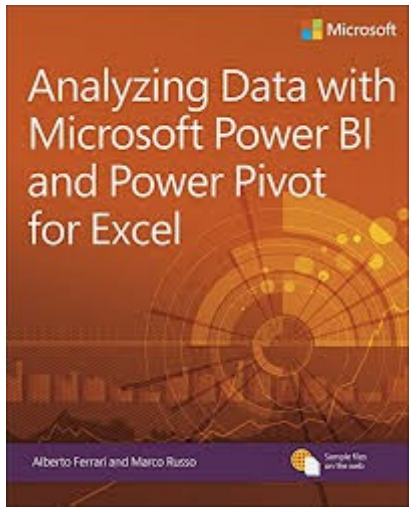
https://powerbi.microsoft.com/en-us/desktop/?WT.mc_id=Blog_Desktop_Update

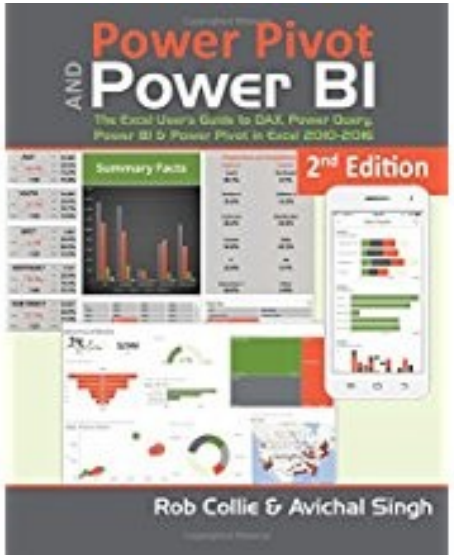
- Microsoft One drive
https://onedrive.live.com/?authkey=%21AAgrneBx3oI8Rak&id=B5A9CCD6892588B1%21104&cid=B5A9CCD6892588B1

- Microsoft Onedrive data sets
https://onedrive.live.com/?id=7B84B0F2C239489A%212078&cid=7B84B0F2C239489A

Resources







Get Power BI (Free) http://tinyurl.com/hj5hdg6

Power BI Jump Start http://bit.ly/1ktON16

Power BI Getting Started http://bit.ly/1FF88KA

Power BI Team Blog http://bit.ly/1vwbTLG

Power BI Channel 9 http://bit.ly/1a9Q0gv

Power BI https://powerbi.microsoft.com

Thankyou for Coming to PowerBI

Power BI

Mobile Solutions Pricing Support Developers Sign In

Let us help you bring your data to life

- Sign up for a free Preview account
- Take the Power BI Tour

Enter your work email address Use it free

By clicking Use it free, you agree to the Power BI Preview Terms of Service