
Microsoft PowerPlatform

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Power What?



<https://tinyurl.com/powerplatformquestions>

Power Platform

Satya Nadella -- Chief Executive Officer

Yeah, one of the things that I talked about in my remarks this time was this power platform. One of the areas of, in fact, real breakout growth and differentiation as being in Power BI, Power Apps, and Flow, for the first time, in fact, in our own Microsoft history, we have an extensibility model that is the same for Office 365 and Dynamics 365. This has been a dream of mine for, I don't know, for 15 years, probably. And we're finally here and we are executing super well, but the interesting thing is it's not just even for our own SAAS applications -- it is the extensibility model for every SAAS application out there, including a common data model. So, I think that that's where the synergies lie because AI starts with having a data state that can really bring data from all of your applications -- siloes, in some sense -- together so that you can start building the analytical power that you can then visualize and put in the hands of people using Power BI or run an AI model that does some prediction that you can deploy in your system, whether it's forecasting, sales lead scoring, what have you.

Microsoft Corporation (MSFT) Q3 2018 Earnings Conference Call Transcript

MSFT earnings call for the period ending March 31, 2018.

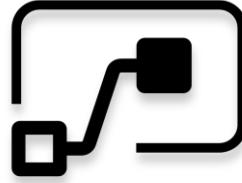
Microsoft Power Platform



Power BI

analyze

self-service analytics



Flow

automate

robotic process automation



PowerApps

interact

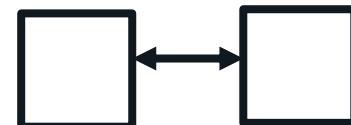
no-code/low code app dev



Data



Common Data Service



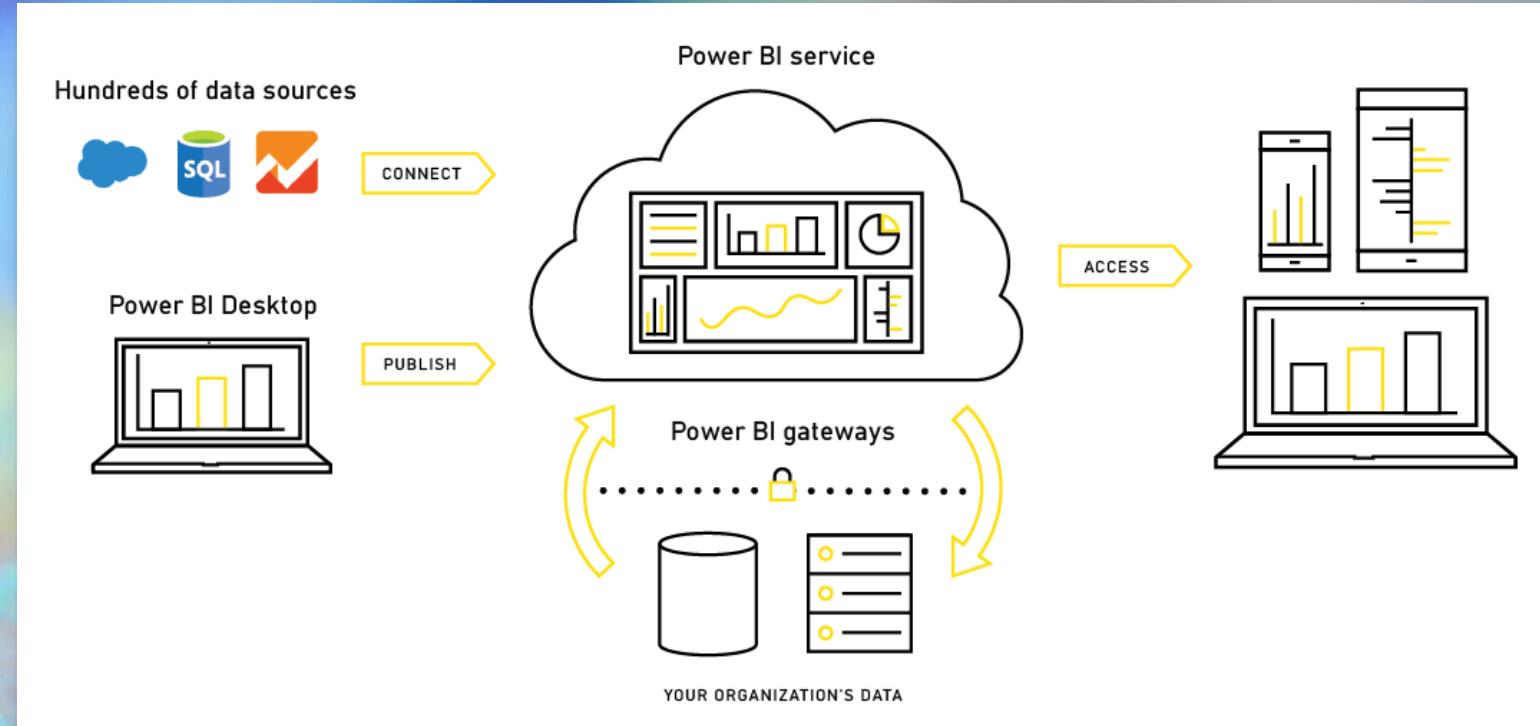
AI Builder

Connectors

<http://aka.ms/businessappsreleasenotes>



Power BI



Power Query

Power Pivot

Power Reporting

Power Apps

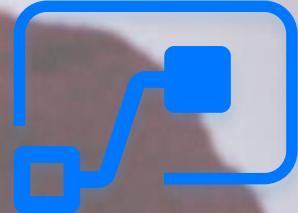
Business Applications

Across Web & Mobile

Rapid Application Development



Microsoft Flow



Workflows for business tasks

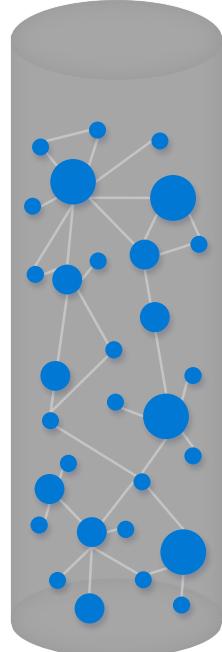
Give flow power to everyone!

- Citizen Integrators
- IT decision makers

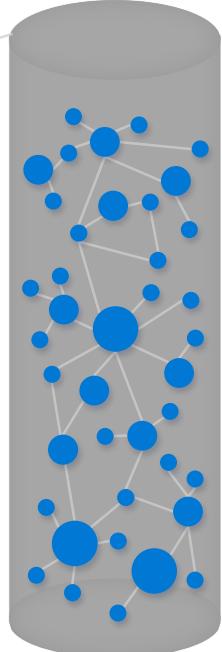


Need a shared data model with rich semantics

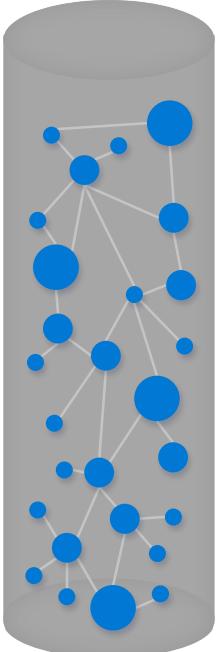
Mobile/Web



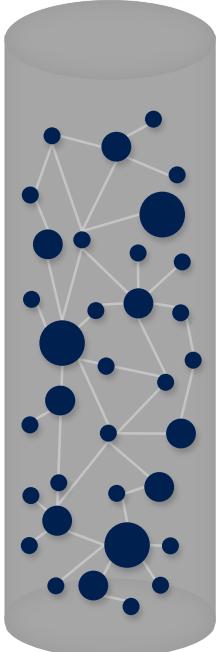
Transactions



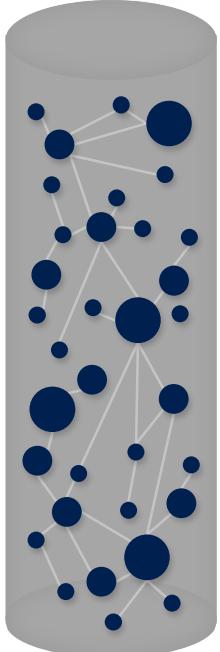
IoT



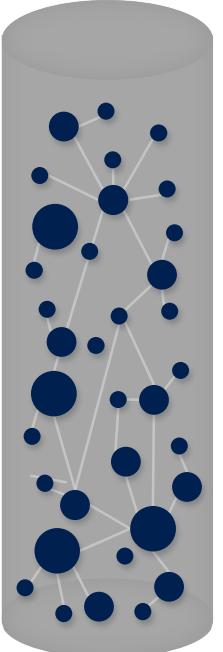
Social



Advertising



Marketplace



Data is stored within internal and external silos

Mobile/Web



Transactions



IoT



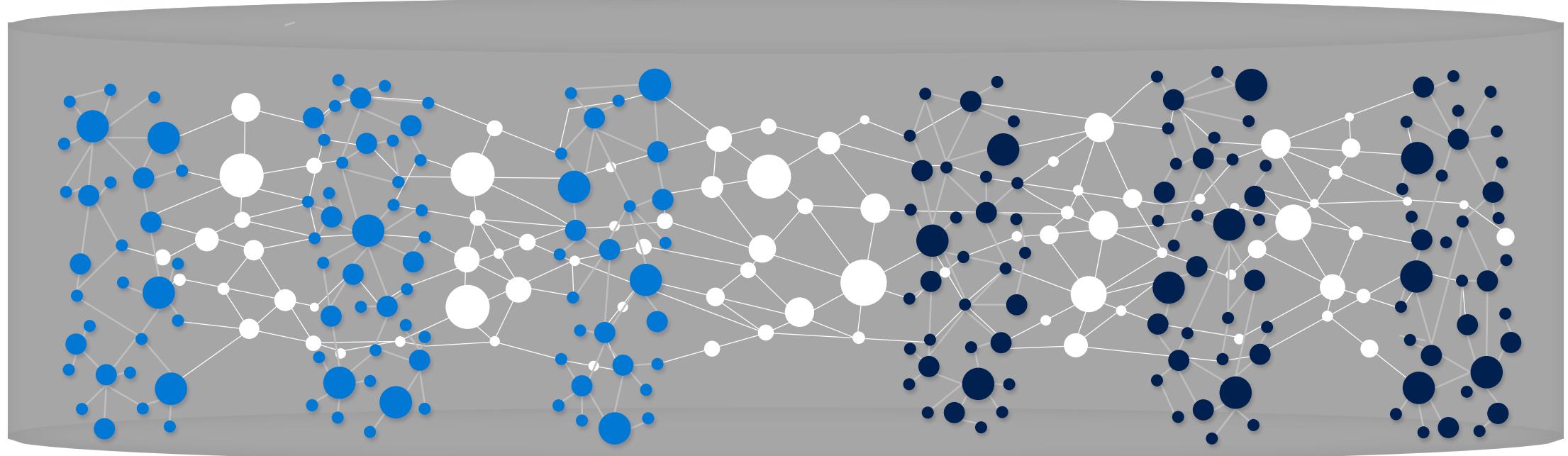
Social



Advertising



Marketplace



Common Data Model

Data Schema

- Standardized, modular, extensible

consist of

- *entities*
- *attributes*
- *semantic metadata*
- *relationships*

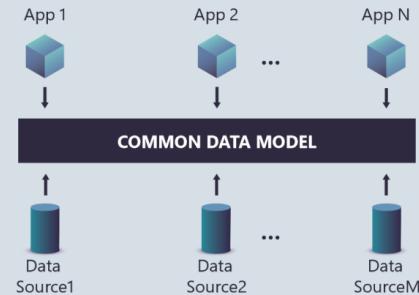


INTEGRATE & DISAMBIGUATE DATA WITH THE COMMON DATA MODEL

An **open-sourced** definition of modular and extensible **business entities** with **semantic metadata** that **simplify the challenges of application development and data integration**.



CDM unifies data in a well-known schema with semantic consistency.



App developers and backend integrators can develop **independently**.



Enables quick application deployment and development, out-of-the-box intelligence, and much more.

There's a growing collection of solutions that store data in CDM form:



Power BI



Dynamics 365



PowerApps



Azure

Open Data Initiative

As announced at Microsoft Ignite (2018), the Common Data Model is evolving as part of the [Open Data Initiative](#), a jointly-developed vision by Microsoft, Adobe, and SAP.

Taken from <https://aka.ms/cdmPoster>

<https://aka.ms/cdmrepo>

CDM GitHub Repo

Common Data Service (CDS)

CDM is the definition, but..

.. **CDS stores Common Data Model (CDM) Data**

CDS for Apps

- Dynamics365
- PowerApps

More Logic and Validation

- Business rules
- Business process flows

The screenshot shows the PowerApps interface for managing the Account entity in the Common Data Model. The left sidebar has a 'Data' section selected, which includes 'Entities'. The main area shows the 'Fields' tab for the Account entity. The fields listed are:

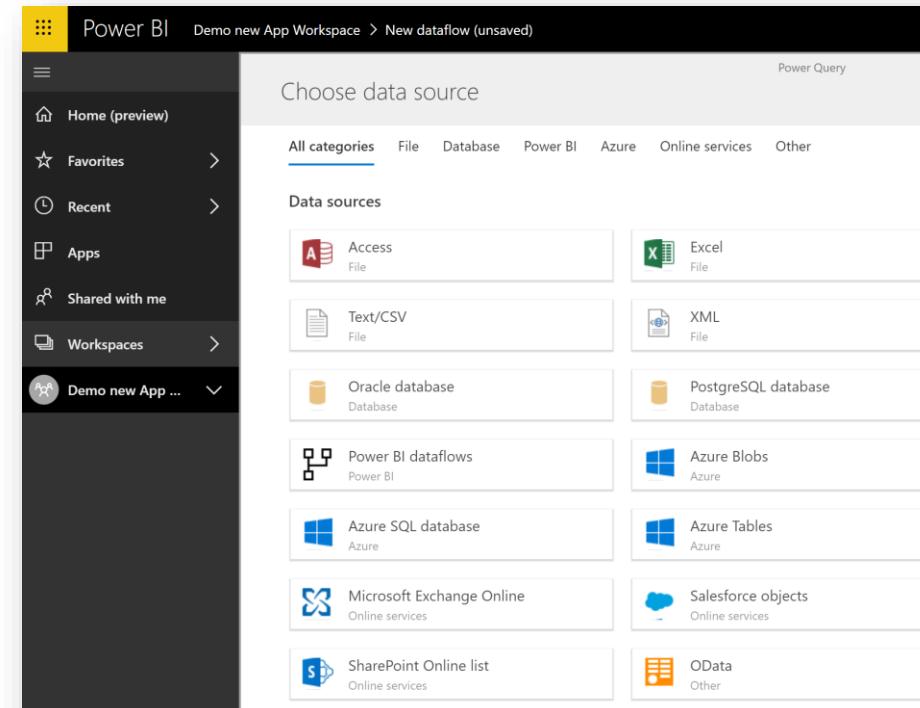
Field Name	Type
Account Name	Text
Account Number	Text
Account Rating	Option
Address 1	Multiline Text
Address 1: Address Type	Option
Address 1: City	Text
Address 1: Country/Region	Text
Address 1: County	Text
Address 1: Fax	Text
Address 1: Freight Terms	Option

CDS (for Power BI) – PBI data flows

Data integration

CDM target entities

- Azure Data Lake Storage Gen2
- CDM Folders



Action!

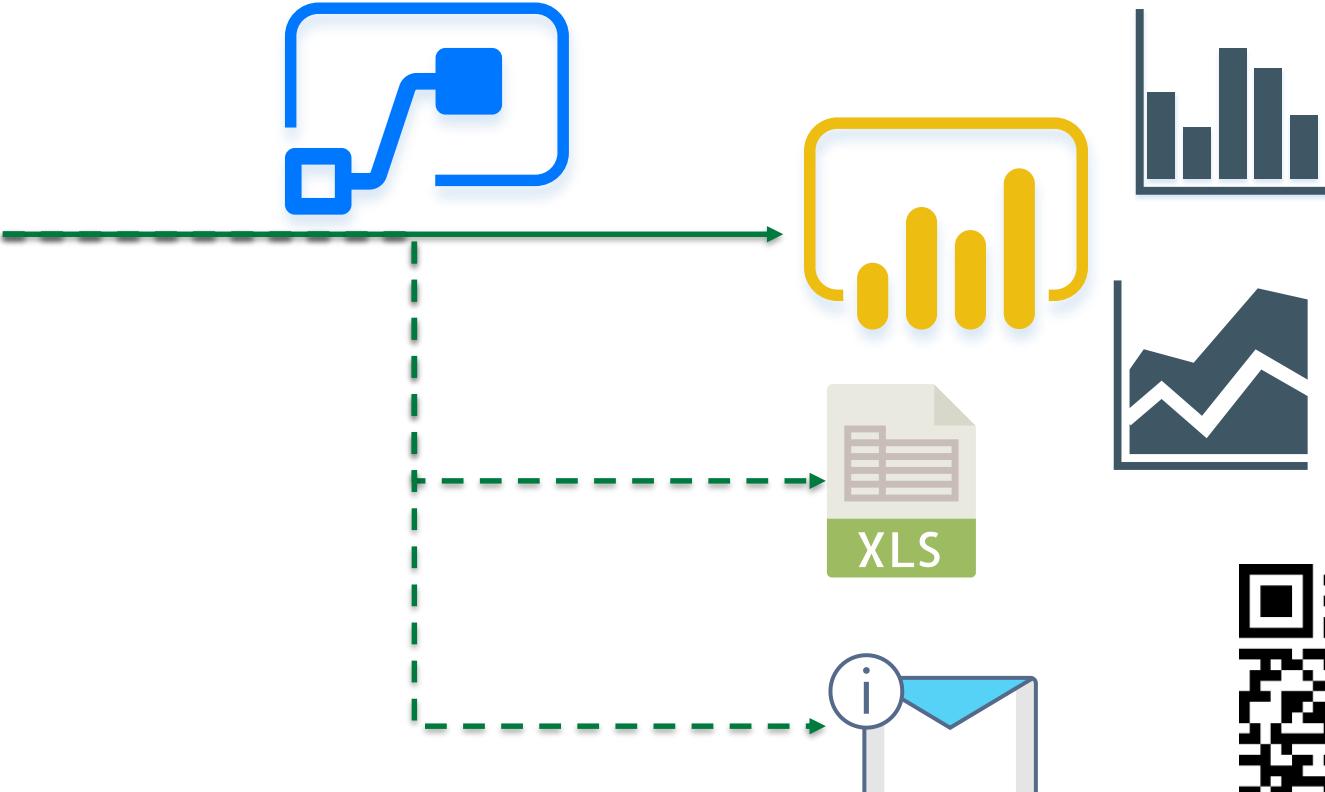
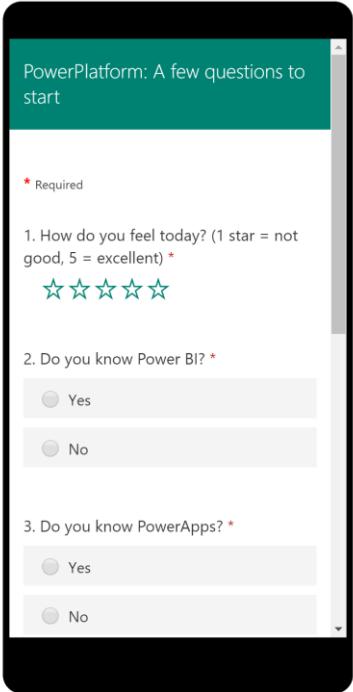


<https://tinyurl.com/powerplatformslovenia>



<https://tinyurl.com/powerplatformquestions>

Demo Setup



<https://tinyurl.com/powerplatformquestions>



Integration



Teamwork



PowerApps and Flow

The screenshot shows the Microsoft Flow editor interface. At the top, there's a navigation bar with icons for Home, My flows, Approvals, Templates, Connectors, Learn, and a search bar. Below the navigation bar, the title "Flow Session" is displayed, along with a "Save" button.

The main area shows a step titled "Add rows to a dataset (Preview)". This step is part of a flow named "PowerApps". A plus sign icon indicates that new steps can be added below this one.

The "Add rows to a dataset" step has the following configuration:

- * Workspace: Demos01
- * Dataset: ScoreDataset
- * Table: RealTimeData
- Playername: Addrowstoada... (with a delete icon)
- Points: Addrowstoada... (with a delete icon)

At the bottom of the step configuration, there are two buttons: "+ New step" and "Save".

Power BI and PowerApps

The screenshot shows a Power BI dashboard on the left and a PowerApp on the right, both sharing the same URL.

Power BI Dashboard (Left):

- Title:** ScoreApp Dashboard
- Visuals:** A bar chart titled "Score BY NAME" showing scores for various users. The data is as follows:

Name	Score
Benutzer	32
Wolfgang	31
Kerstin	29
Thomas	15
User	13
chuck	10
Hans	10
Hans Zimmer	10
Thomas N	10
Winner	8
Wolfi	5

PowerApp (Right):

- UI Elements:** Name input field (containing "Winner"), Score input field (containing "10"), and a "Submit your Score" button.

PowerApps and Power BI

PowerApps

File Home Insert View Action

New screen Label Button Text Controls Media

Fill = $f(x)$ RGBA(255, 255, 255, 1)

Screens Search

Screen1

PowerBI1 Button1 Label1

Power BI tile in Power Apps

Points BY PLAYERNAMES

PlayerName	Points
sandy	20.0
adam	11.0
Wolfgang	1.0

Submit

The screenshot shows the Microsoft PowerApps studio interface. At the top, there's a navigation bar with 'File', 'Home', 'Insert' (which is underlined), 'View', and 'Action'. Below the navigation bar is a toolbar with icons for 'New screen', 'Label', 'Button', 'Text', 'Controls', and 'Media'. A color palette is also visible. The main workspace is titled 'Screens' and contains a search bar. A tree view shows a single screen named 'Screen1' containing three items: 'PowerBI1' (represented by a bar chart icon), 'Button1' (represented by a button icon), and 'Label1' (represented by a text icon). To the right of the workspace, a large rectangular area is labeled 'Power BI tile in Power Apps'. Inside this area, there's a bar chart titled 'Points BY PLAYERNAMES'. The chart has three bars: one for 'sandy' with a value of '20.0', one for 'adam' with a value of '11.0', and one for 'Wolfgang' with a value of '1.0'. At the bottom right of this area is a blue 'Submit' button.

SharePoint and PowerApps

New item

Title *

Enter value here

ProductName

Enter value here

Details

Yes

Price

Enter a number

Availability

Enter a date

Color

Azure

Attachments

Add attachments



Save X Cancel Copy link Customize

ProductName

Data Monster

Details

Price

15

Availability

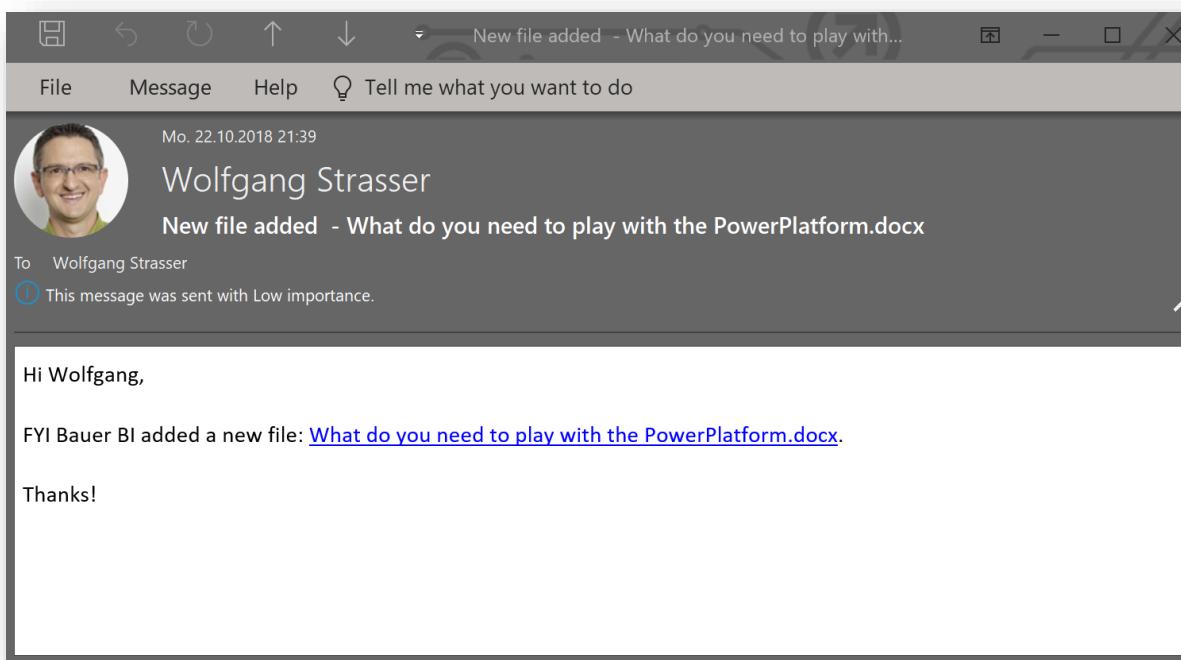
10/27/2018

Color

Green



SharePoint and Flow



A screenshot of a SharePoint "Documents" library. The ribbon bar at the top has a "Flow" tab selected, indicated by a blue border. A dropdown menu for "Flow" is open, showing two options: "Create a flow" and "See your flows". A large downward-pointing arrow is positioned below the ribbon bar.

A screenshot of the Microsoft Flow designer interface. A workflow is being created to "Send a customized email when a new file is added". The workflow consists of three steps:

- Step 1: "When a file is created (properties only)" - Set to Site Address: Demo - https://powerofbiat.sharepoint.com/sites/Demo, Library Name: Documents, Folder: /Shared Documents.
- Step 2: "Get my profile (V2)" - This step is currently highlighted in orange.
- Step 3: "Send an email" - Set to To: Mail, Subject: New file added - File name with ..., Body: Hi Given Name,

 FYI Created By Dis... added a new file: File name with ...,

 Thanks!

Arrows indicate the flow of the process: a large downward arrow from the SharePoint ribbon to the Flow designer, and a large leftward arrow from the Flow designer back to the SharePoint message window.

Excel and Flow

Excel Online | Demo > Shared Documents Book Wolfgang S

FILE HOME INSERT DATA REVIEW VIEW Tell me what you want to do OPEN IN EXCEL It's just you here now ▾

Refresh Selected Connection Refresh All Connections Calculate Workbook Connections Calculation Sort Ascending Sort Descending Filter Clear Flash Fill Reapply Data Validation Flow Automation

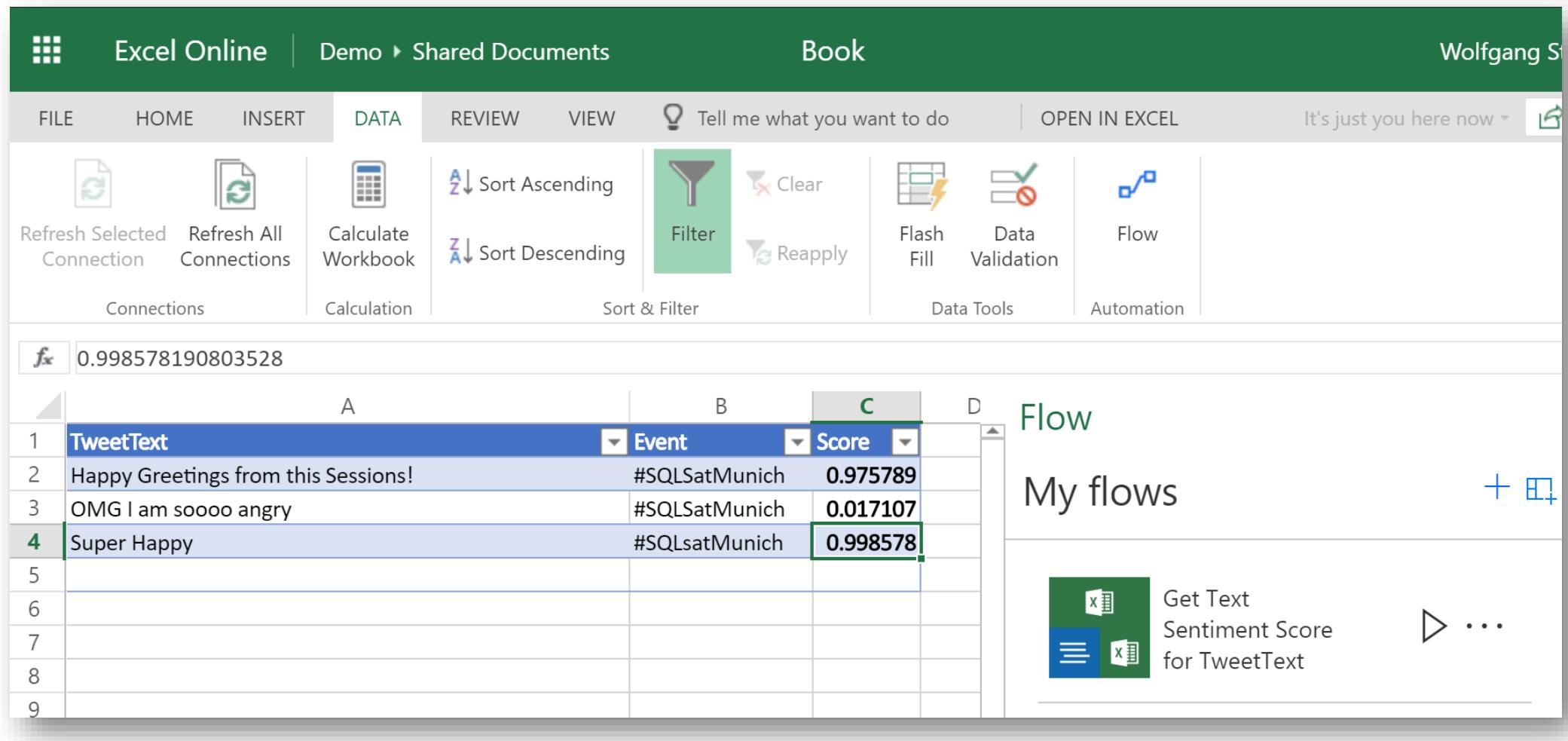
Sort & Filter Data Tools Automation

fx 0.998578190803528

	A	B	C	D
1	TweetText	Event	Score	
2	Happy Greetings from this Sessions!	#SQLSatMunich	0.975789	
3	OMG I am soooo angry	#SQLSatMunich	0.017107	
4	Super Happy	#SQLsatMunich	0.998578	
5				
6				
7				
8				
9				

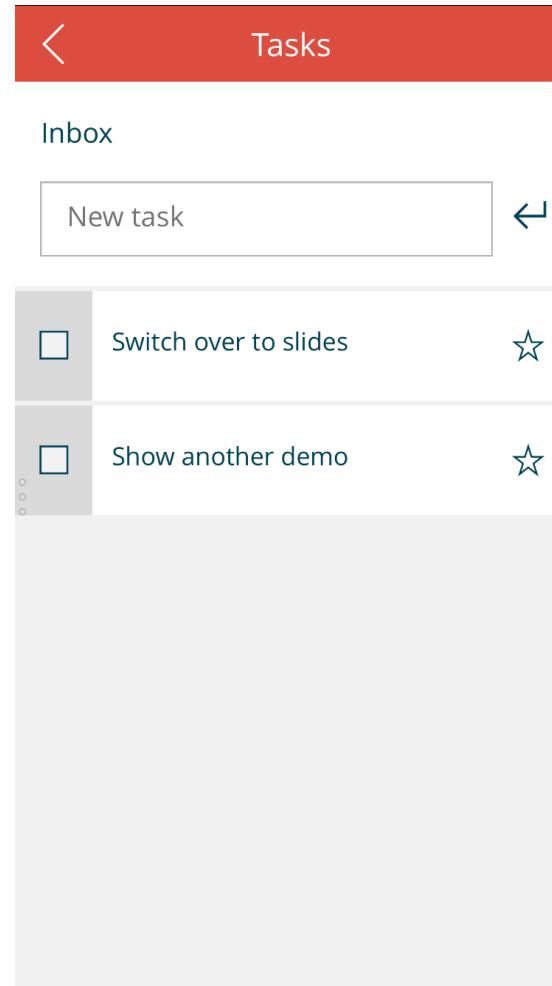
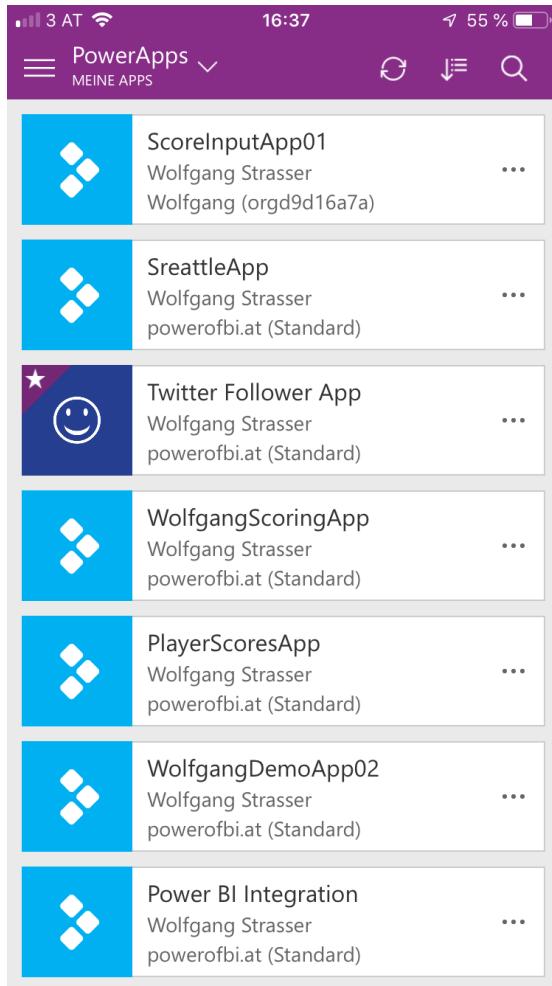
Flow My flows +

Get Text Sentiment Score for TweetText





PowerApps



Power BI (& PowerApps)

The image displays a Power BI dashboard titled "ScoreApp Dashboard - Power BI" and a corresponding mobile application interface.

Power BI Dashboard: The dashboard shows a bar chart titled "Score BY NAME" with the following data:

Name	Score
Wolfgang	20.0
Thomas	17.0
Michael	15.0
Player 1	11.0

Mobile Application (iPhone7 von Wolfgang): The app has two fields: "Name" and "Score". The "Name" field contains "Wolfgang" and the "Score" field contains "10". A blue button at the bottom right is labeled "Submit your Score".

Flow Mobile App

The screenshot shows the 'Feed' section of the app. It displays five recent flow executions:

- E-Mail mit meinem Standort an mich senden** (10:20 PM) - Flow was 1-time successful.
- Fotos nach OneDrive for Business hochladen** (10:17 PM) - Flow was 2-times successful.
- Send a customized email when a new file is added** (9:38 PM) - Flow was 2-times successful.
- Updates aus dem Flow-Blog erhalten** (7:02 PM) - Flow was 1-time successful.
- A message from the Flow blog: "Flow blog update - Repair tips in email for failed flows and other... Click here to read more" (7:02 PM).

At the bottom, there are navigation icons for Aktivität, Suchen, Schaltfl., Flows, and Konto.

The screenshot shows the 'Schaltfl.' (Flows) section. It lists two active flows:

- Fotos nach OneDrive for Business hochladen** (blue circle)
- E-Mail mit meinem Standort an mich senden** (teal circle)

Both flows have a '...' button next to them. At the bottom, there are navigation icons for Aktivität, Suchen, Schaltfl., Flows, and Konto.

The screenshot shows the 'Flow abschließen' (Finish Flow) screen. A flow named "In 10 Minuten Erinnerung an mich selbst senden" is being created. The flow consists of the following steps:

- Delay** (blue step)
- Send a push notification** (red step)

For the 'Delay' step, it says: "Es werden die Standardwerte für die Parameter verwendet." and has a 'Bearbeiten' button. For the 'Send a push notification' step, it says: "Es werden die Standardwerte für die Parameter verwendet." and has a 'Bearbeiten' button. There are also fields for 'Link' (Include a link in the notification) and 'Link label' (The display name for the link). At the bottom, it says "Verbunden mit 'Notifications'".

Power!

In the Platform

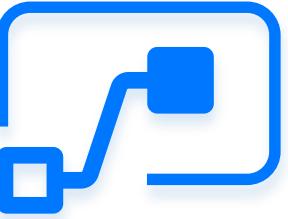


<https://workingondata.wordpress.com/2018/09/04/power-platform-link-collection/>

And.. Try it out & learn more!



PowerBI.Microsoft.com

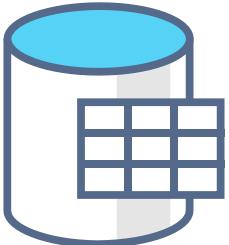


PowerApps.Microsoft.com



Flow.Microsoft.com

github.com/Microsoft/CDM



24 Days of PowerPlatform – <https://workingondata.wordpress.com>

<https://workingondata.wordpress.com/2018/09/04/power-platform-link-collection/>

Vienna, Austria

- Dates
 - **29-30 October 2019**
- Location
 - JUFA Hotel Wien City, Vienna, Austria
- About
 - 24+ breakout sessions designed for the Citizen Developer, Technical, Business, and New User
 - Add an additional day of training with an Academy Workshop*

**Additional registration required*



Register at: powerplatformworldtour.com

Save the Date!



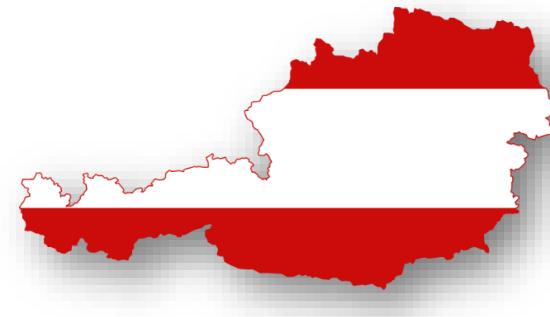
SQLSATURDAY



PASS
AUSTRIA

Friday, 24th January 2020

Wolfgang Strasser



Working @ CUBID

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wolfgang@powerofbi.at

@wstrasser

Read more at

<https://workingondata.wordpress.com>

