Power Hour

PMI Rochester PDD

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Power Learning Resources

- Power Apps & Power Automate: Shane Young - PowerApps911
  - https://www.youtube.com/channel/UC7_OGRP8BYvtGB8eZdPG6Ng

- Power Apps - Model Driven & Dataverse: Lisa Crosby
  - https://www.youtube.com/c/LisaCrosbie

- Power BI: Guy in a Cube
  - https://www.youtube.com/channel/UCFp1vaKzpfvoGai0vE5VJ0w

- Power BI: Reid Havens
  - https://www.youtube.com/channel/UCjIfQwqb-0S40XQ8seYPLSw

Power Automate

https://make.powerautomate.com/

- The behind the scenes work
- Examples
  - **Automatically save email attachments**: If you receive an email with an attachment, Power Automate can save it directly to a specified folder in SharePoint[1].
  - **Manage holiday requests and approvals**: Employees can submit time-off requests, and managers can approve them, all through an automated process set up in Power Automate[1].
  - **Document approval notifications**: When a new document is uploaded to SharePoint, Power Automate can request approval and notify team members via Microsoft Teams[1].
  - **Get notified when you receive an email from your boss**: Set up Power Automate to send you a push notification whenever your boss sends you an email, so you never miss an important message[1].
  - **Automated meeting scheduling**: Power Automate can help schedule meetings automatically based on responses to emails or forms[2].
  - **Onboarding new hires**: Automate the process of onboarding new employees by setting up tasks, sending welcome emails, and organizing necessary documents[2].
  - **Customer service ticket management**: Automatically create, assign, and manage customer service tickets based on incoming emails or form submissions[2].

Power Automate - Connectors

https://make.powerautomate.com/

- [Power Automate Trigger Reference - Manuel T. Gomes (manueltgomes.com)](https://manueltgomes.com)

- **Trigger** is the starting point of any flow. It's an event that automatically prompts the execution of a workflow. Here's a more detailed definition:

- **Trigger**: A mechanism that initiates the execution of a flow when a specific event occurs or a certain condition is met.

- For example, a trigger can be set up to start a flow when:

- A new email arrives in your inbox.

- A new item is added to a SharePoint list.

- A scheduled date and time is reached.

- Triggers are essential in automating tasks and processes, allowing workflows to run without manual intervention based on predefined conditions. They help in creating efficient, automated systems that save time and reduce the need for repetitive actions.

Power Automate
https://make.powerautomate.com/

- Simply put, Connectors are items you are able to link to or act on
- Link to Automate Connectors:
  - List of all Power Automate connectors | Microsoft Learn

- List of **non-premium connectors** available in Power Automate:
  - **Office 365 Outlook**
  - **Office 365 Users**
  - **OneDrive for Business**
  - **SharePoint**
  - **Microsoft Forms**
  - **Microsoft To Do**
  - **Twitter**
  - **Google Calendar**
  - **Google Drive**
  - **Google Sheets**

Power Apps

- Think of Power Apps as the Suitcase for your data.
  - The App empowers users to engage with data on-demand, providing a dynamic and responsive experience. Developers have the flexibility to tailor the app's functionality, orchestrating the flow of questions based on timing and context, managing user permissions for specific responses, and pre-filling information to streamline the process.

- You are able to
  - Interact with multiple datasets
    - Create
    - Edit
    - Delete
  - Trigger flows
  - Leverage connectors (see list in Automate slide)
  - Send emails
  - Send Teams messages
  - Route to other pages

Power Apps – Canvas App

https://make.powerapps.com/

- **Canvas Apps**: These are like a blank canvas where you can create an app just the way you want it. You can drag and drop elements onto your screen and connect to many different data sources. Its great for making apps that look exactly how you want with lots of customization options.

- Premium Licensing NOT required for users
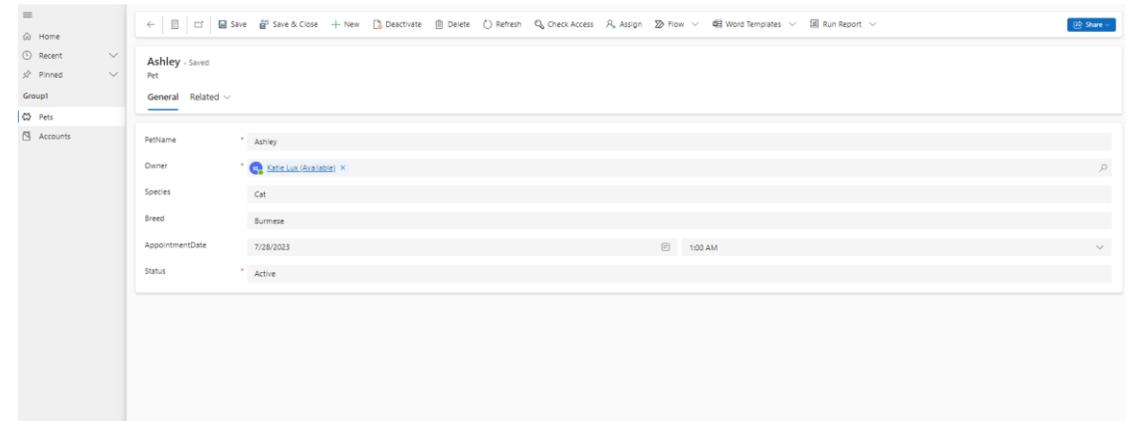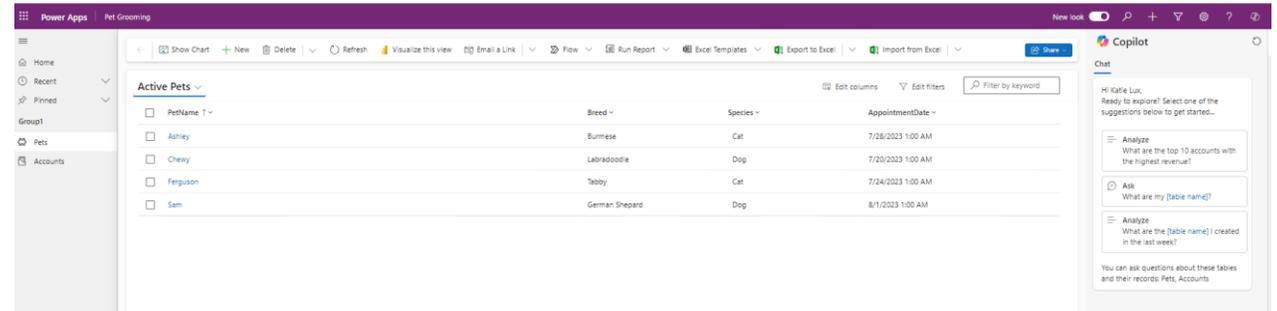 - ***unless using a premium connector

Power Apps – Model Driven App

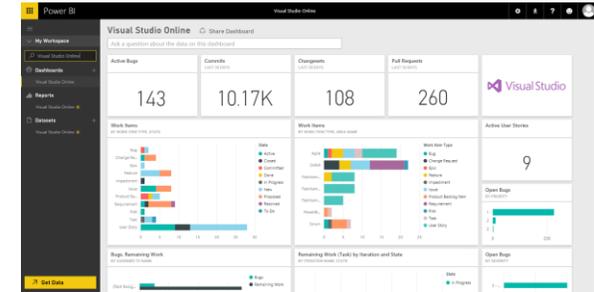- **Model-Driven Apps**: These apps are more structured. They are built around your data—specifically, the data in your Common Data Service (CDS). The app's design is largely determined by the data you use, and is good for complex scenarios where you need to follow certain rules and processes.

- Able to add and edit in bulk by excel import and export

- Premium Licensing IS ALWAYS required for users

Power BI

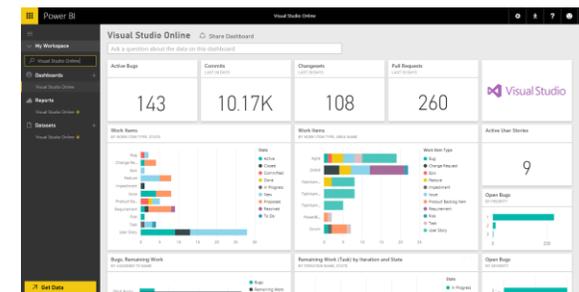https://www.microsoft.com/en-us/power-platform/products/power-bi

- The Data Visualization Center
- Power BI is a powerful business intelligence tool from Microsoft that helps you turn data from various sources into interactive insights and reports. It's like a magic set that takes numbers and facts from different places—like Excel spreadsheets, databases, or the internet—and turns them into easy-to-understand charts and graphs. This way, you can see the big picture of your business or project at a glance and make smart decisions based on what the data tells you[1][2][3].
- It's made up of several parts that work together:
- **Power BI Desktop**: A Windows application where you can create detailed reports.
- **Power BI Service**: An online service where you can share and view reports and dashboards.
- **Power BI Mobile Apps**: Apps for your phone or tablet so you can see your data on the go.
- And for those who need more advanced features:
- **Power BI Report Builder**: For creating more formal, paginated reports.
- **Power BI Report Server**: An on-premises server where you can keep and manage your reports securely.
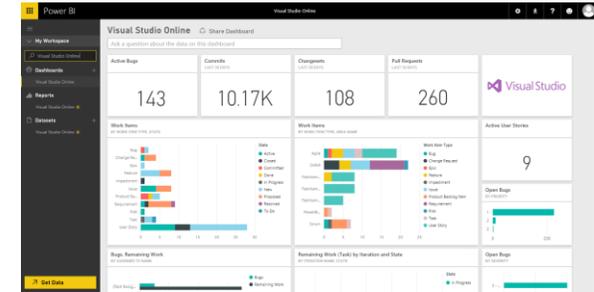
Power BI

- Actionable things you can do:
  - Allow users to subscribe to their personal filter selections, receiving slide decks, pdfs, word docs, or excel on their personally set schedules
  - Set up alerts when specified thresholds are met (Dashboards)
  - Create a single portal for all Solution parts for One Stop Usage
    - Include Power Apps for Users
    - Include Power BI Reports
    - Include hyperlinks to ANY url
    - Include Dashboards
    - Include Paginates reports (properly formatted outputs, 1 per specified item) - Think Invoices

Power BI

- Leverage Power BI in more than just the resting site

- Power BI Reports can be uses in multiple ways across the Power Platform
  - Power Automate
    - Send reports
    - Manipulate report data (filter, sort, etc) and do something
    - Include reports in emails
  - Power Apps – Canvas
    - Include simple visuals in the app
  - Power Apps – Model Driven
    - Include full reports

Copilot – Can Do

- Microsoft Copilot can significantly enhance your experience with Power Automate, Power Apps, and Power BI by providing AI-powered assistance. Here's what Copilot can do for you in each of these services:

- **Power Automate**:
  - **Create Flows**: Describe what you need in natural language, and Copilot can create a flow for you[1].
  - **Edit Flows**: Make changes to your flows easily with Copilot's guidance[2].
  - **Answer Questions**: Get answers about your flows and how to use Power Automate features[1].

- **Power Apps**:
  - **App Development**: Copilot helps you build solutions within Power Apps and offers suggestions for improvement[3].
  - **Data Management**: Moves data from Excel files into Dataverse and creates column headings & data types automatically[4].

- **Power BI**:
  - **Report Creation**: Generate reports automatically by selecting a topic or prompting Copilot on a particular topic[5].
  - **Narrative Visuals**: Create narrative visuals that generate summaries of your reports using generative AI[5].
  - **Enhanced Q&A**: Use synonyms and descriptions provided by Copilot to enhance the Q&A experience[5].
  - Copilot integrates the transformational power of generative AI to help you get the most from your data and automate your workflows more efficiently. Whether you're creating reports, developing apps, or setting up automated processes, Copilot acts as a smart assistant to streamline your tasks[5][1][4][3].

Copilot – Can Not

- While Microsoft Copilot can greatly assist with tasks in Power Automate, Power Apps, and Power BI, there are certain limitations to what it can do:
- **Power Automate**:
  - Copilot cannot physically interact with your devices or external systems.
  - It cannot troubleshoot hardware issues or provide real-time monitoring of your flows.
- **Power Apps**:
  - Copilot is not able to create complex custom code that may be required for advanced app functionality.
  - It cannot directly interact with users or dynamically respond to user input within the app.
- **Power BI**:
  - Copilot cannot interpret or analyze data that it has not been trained on or that is outside its scope of knowledge.
  - It cannot make business decisions or provide strategic advice based on the data.
  - In general, Copilot is designed to assist with the technical aspects of these platforms, but it cannot replace human judgment, creativity, and decision-making. It's a tool to enhance productivity, not a substitute for the nuanced understanding and expertise that professionals bring to their work.