



# CDS SATURDAY



**What is the Common Data Service?**

Nick Doelman, MVP, MCT

# Nick Doelman

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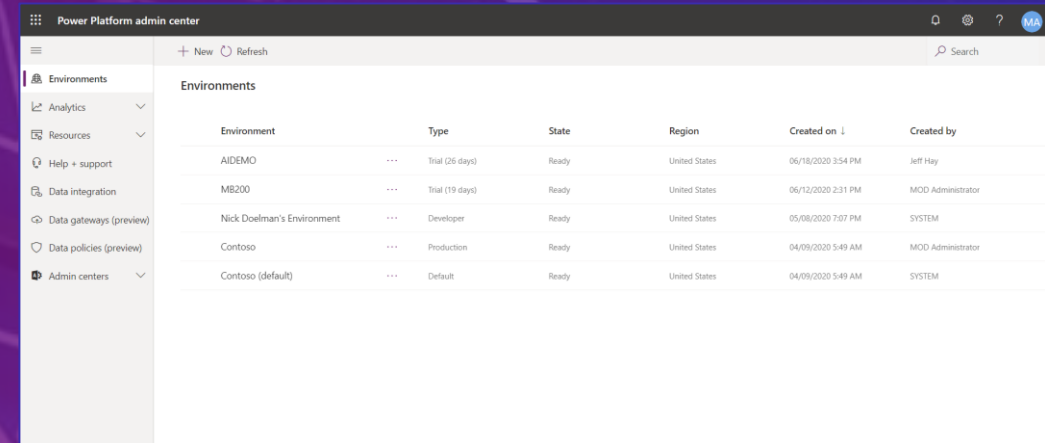
# What is the Common Data Service?

The Common Data Service (CDS) is a powerful feature of the Power Platform that is more than just a data store option. This session demystifies what the Common Data Service actually is and how it works. Learn how CDS evolved from its roots in Dynamics CRM to a central pillar in the Power Platform. See how using CDS provides security, logic, data, storage and integration features to your Power Platform applications (including Dynamics 365). Understand how CDS implements the Common Data Model (CDM) and its key advantages over using SharePoint Lists and AzureSQL.



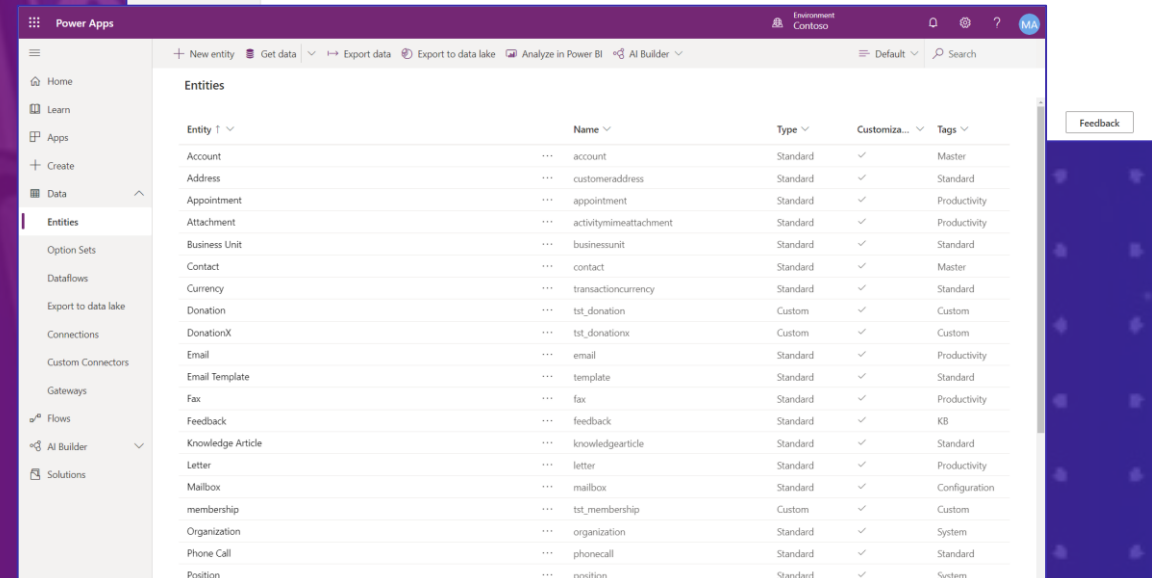
# How do I get it? – you got it!

- If you have Dynamics 365 “Customer Engagement” apps, you already have it!
- <https://admin.powerplatform.microsoft.com/>
- <https://make.powerapps.com>



The screenshot shows the 'Power Platform admin center' interface. The left sidebar contains navigation links: Environments, Analytics, Resources, Help + support, Data integration, Data gateways (preview), Data policies (preview), and Admin centers. The main content area displays a table titled 'Environments' with columns: Environment, Type, State, Region, Created on, and Created by. The table lists several environments, including AIDEMO, MB200, Nick Doelman's Environment, Contoso, and Contoso (default).

Environment	Type	State	Region	Created on	Created by
AIDEMO	Trial (26 days)	Ready	United States	06/18/2020 3:54 PM	Jeff Hay
MB200	Trial (19 days)	Ready	United States	06/12/2020 2:31 PM	MOD Administrator
Nick Doelman's Environment	Developer	Ready	United States	05/08/2020 7:07 PM	SYSTEM
Contoso	Production	Ready	United States	04/09/2020 5:49 AM	MOD Administrator
Contoso (default)	Default	Ready	United States	04/09/2020 5:49 AM	SYSTEM



The screenshot shows the 'Power Apps' interface, specifically the 'Entities' page. The left sidebar contains navigation links: Home, Learn, Apps, Create, Data, Entities, Option Sets, Dataflows, Export to data lake, Connections, Custom Connectors, Gateways, Flows, AI Builder, and Solutions. The main content area displays a table titled 'Entities' with columns: Entity, Name, Type, Customization, and Tags. The table lists various entities such as Account, Address, Appointment, Attachment, Business Unit, Contact, Currency, Donation, DonationX, Email, Email Template, Fax, Feedback, Knowledge Article, Letter, Mailbox, membership, Organization, Phone Call, and Position.

Entity	Name	Type	Customization	Tags
Account	account	Standard	✓	Master
Address	customeraddress	Standard	✓	Standard
Appointment	appointment	Standard	✓	Productivity
Attachment	activitymimeattachment	Standard	✓	Productivity
Business Unit	businessunit	Standard	✓	Standard
Contact	contact	Standard	✓	Master
Currency	transactioncurrency	Standard	✓	Standard
Donation	tst_donation	Custom	✓	Custom
DonationX	tst_donationx	Custom	✓	Custom
Email	email	Standard	✓	Productivity
Email Template	template	Standard	✓	Standard
Fax	fax	Standard	✓	Productivity
Feedback	feedback	Standard	✓	KB
Knowledge Article	knowledgearticle	Standard	✓	Standard
Letter	letter	Standard	✓	Productivity
Mailbox	mailbox	Standard	✓	Configuration
membership	tst_membership	Custom	✓	Custom
Organization	organization	Standard	✓	System
Phone Call	phonecall	Standard	✓	Standard
Position	position	Standard	✓	System

# Microsoft Power Platform

The low-code platform that spans Office 365, Azure, Dynamics 365, and standalone applications



## Power BI

Business analytics



## Power Apps

Application development



## Power Automate

Process automation

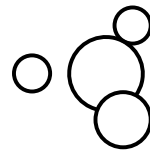


## Power Virtual Agents

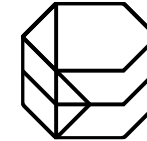
Intelligent virtual agents



**Data  
connectors**

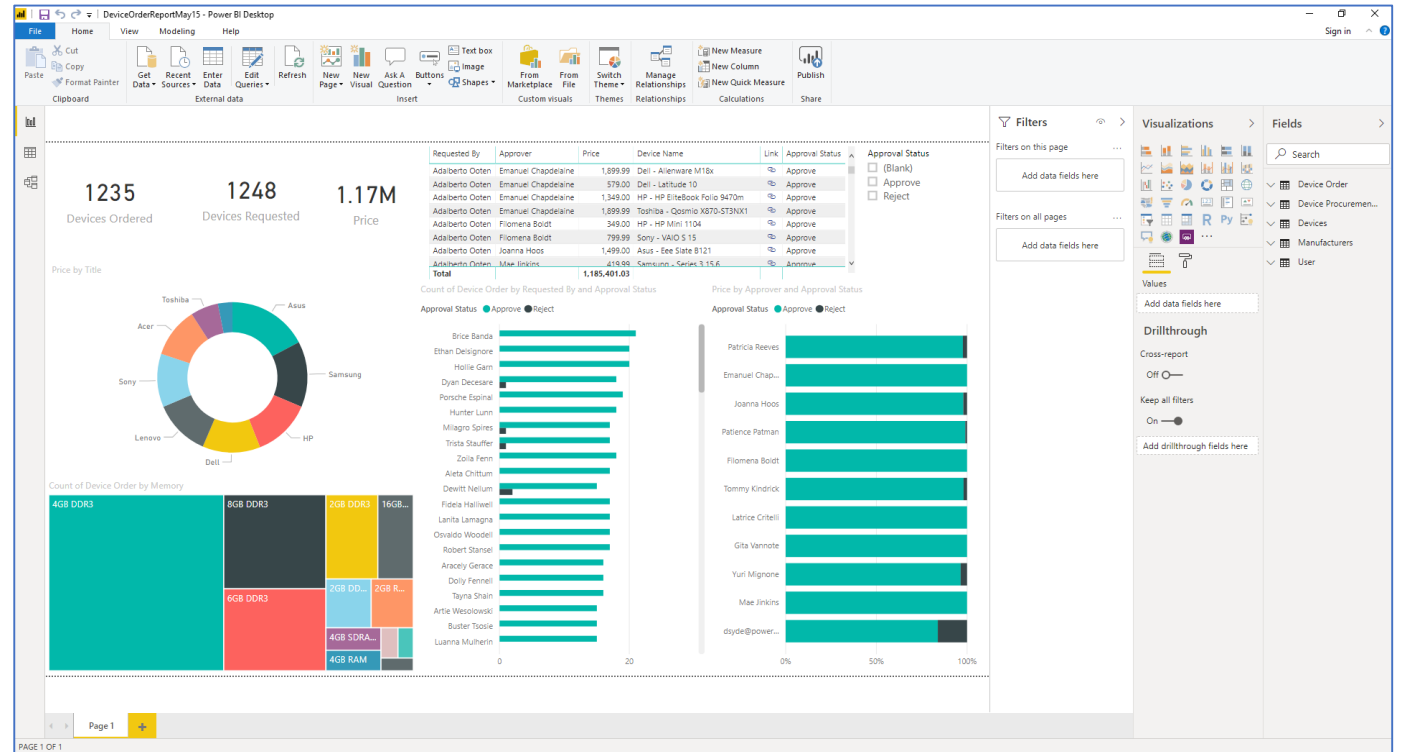


**AI Builder**

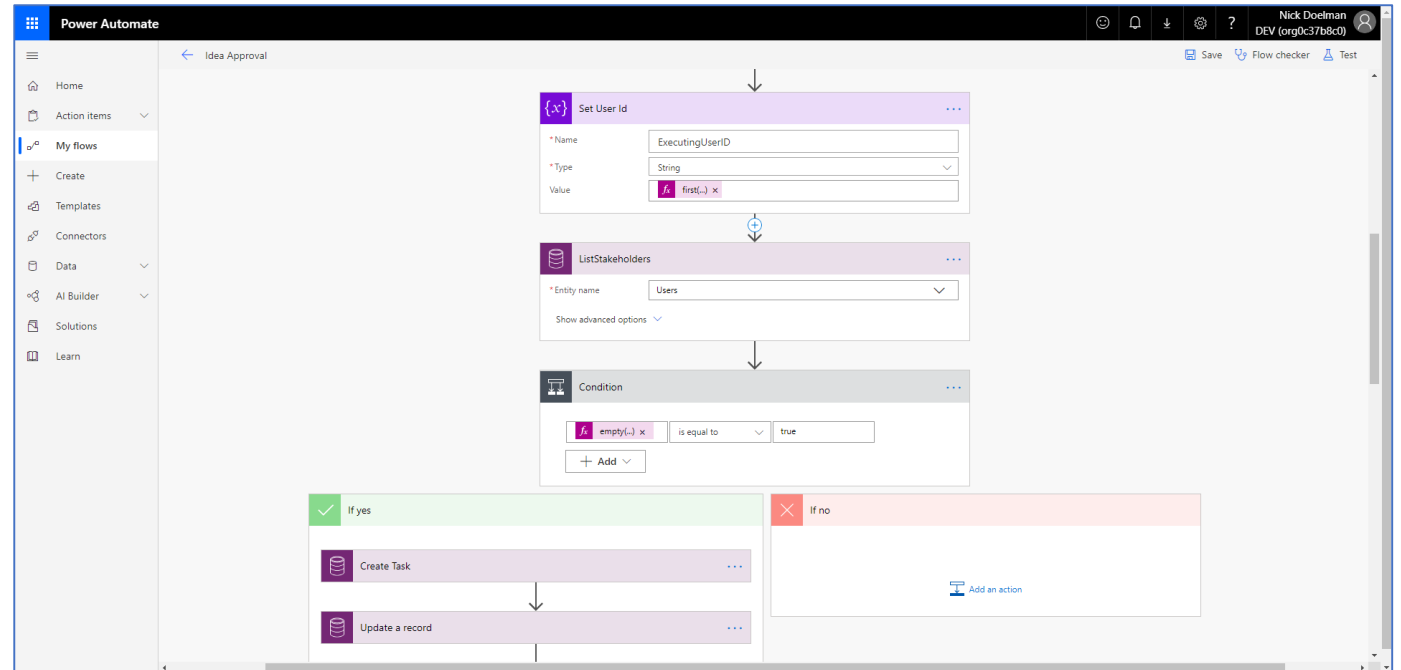


**Common  
Data Service**

# Power BI



# Power Automate



# Power Virtual Agents

The screenshot displays the Power Virtual Agents interface, divided into two main sections: a chat test on the left and a flowchart editor on the right.

**Left Panel (Test bot):**

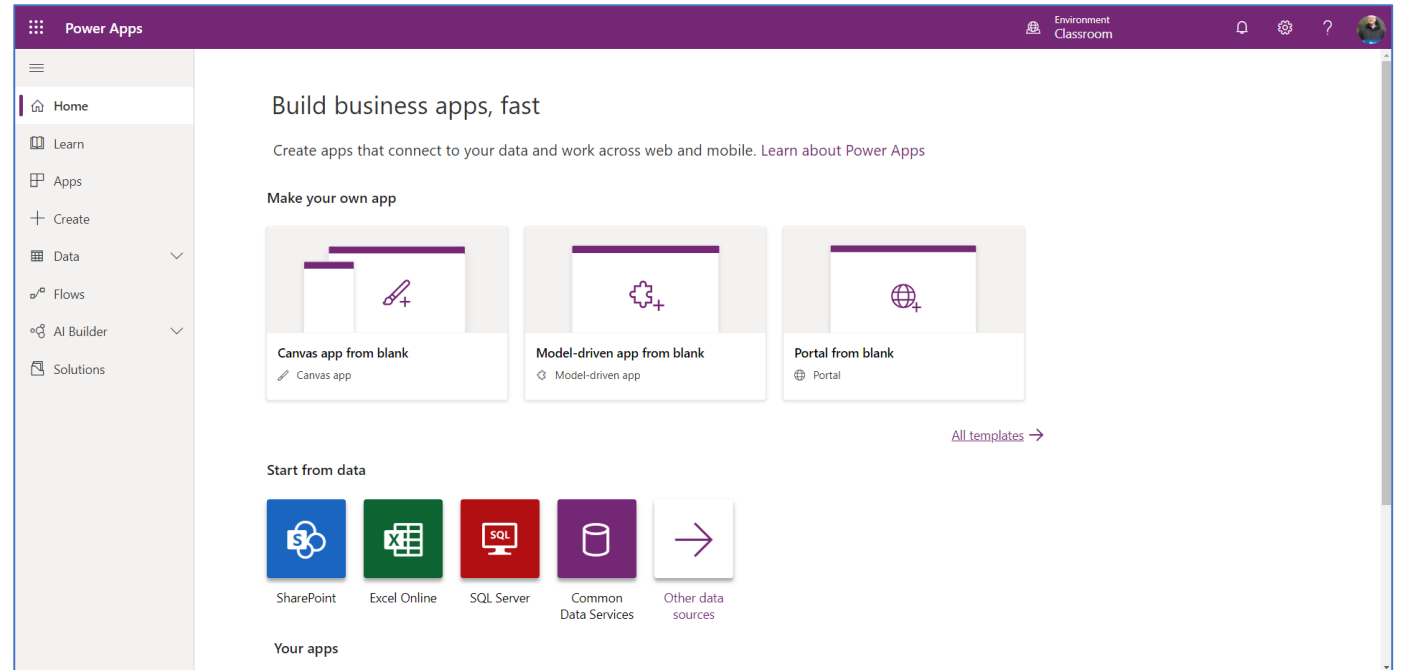
- Navigation:** Home, Topics, Entities, Analytics, Publish, Manage.
- Test bot:** A chat window titled "Test bot" with a "Track between topics" toggle and a "Reset" button.
- Chat Log:**
  - User: "gift card"
  - Bot: "I can check on that for you. Do you have the gift card number handy?"
  - User: "Yes"
  - Bot: "What's the gift card number and security code? I'll look it up."
  - User input field: "Gift card number, security code"
  - Input prompt: "Type your message"

**Right Panel (Flowchart Editor):**

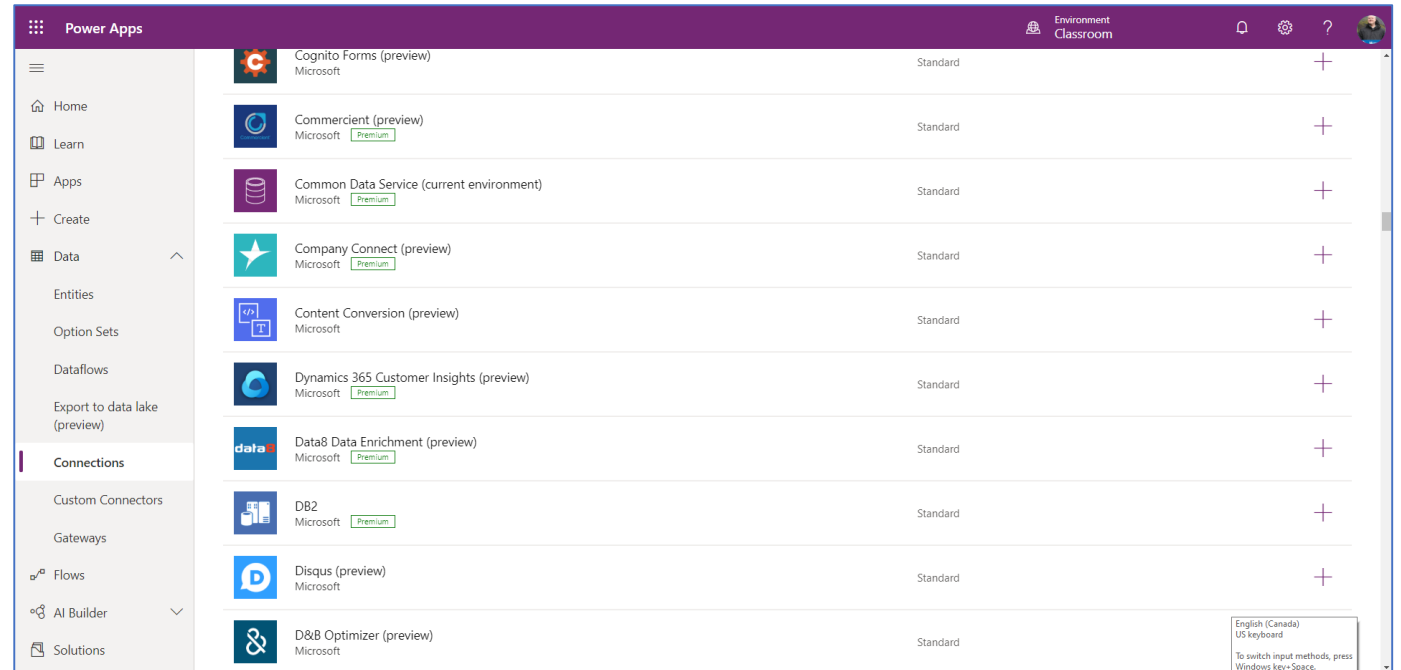
- Topic:** "Lookup balance of gift card"
- Flowchart:**
  - Trigger Phrases (3/5):** "Balance for gift cards", "Check balance of gift card", "Check gift card balance without PIN", "Check how much is on my gift card", "Do I have any money left on my gift card?"
  - Question:** "Ask a question: I can check on that for you. Do you have the gift card number handy?"
  - Identify:** "Multiple choice options" (Yes, No)
  - Options for user:** "Gift card number, security code"
  - Save response as:** "Var1 (Text)"
  - Condition:** "Var1 (Text) is" (is a number, No)
  - Question:** "Ask a question: What's the gift card number and security code? I'll look it up."
  - Identify:** "Multiple choice options" (Gift card number, security code)
  - Options for user:** "Gift card number, security code"
  - Save response as:** "Var2 (Text)"
  - Condition:** "Var2 (Text) is" (is a number, No)
  - Question:** "Ask a question: No problem. I can look it up for you. What's your email?"
  - Identify:** "Multiple choice options" (johnson@contoso.com)
  - Options for user:** "johnson@contoso.com"
  - Save response as:** "Var3 (Text)"
  - Condition:** "All other conditions"



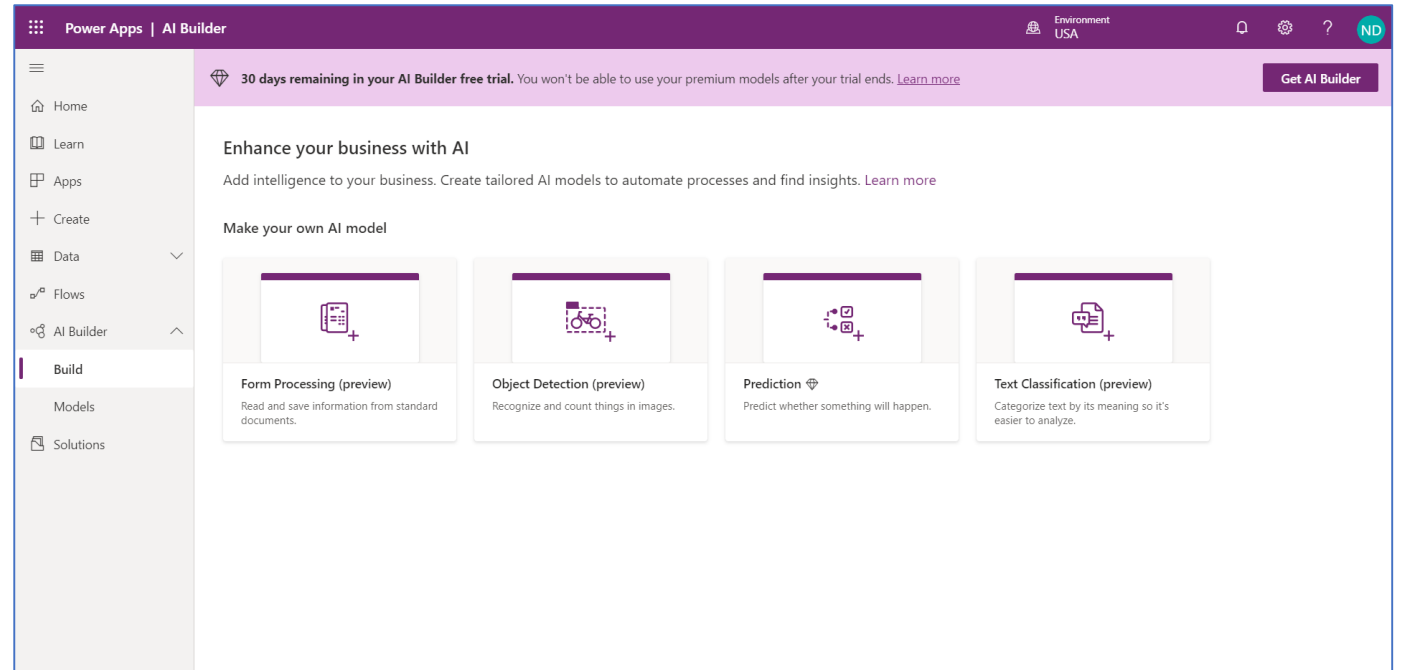
# Power Apps



# Data Connectors



# AI Builder



# Power App Types

The screenshot displays the Microsoft PowerApps portal interface. The top navigation bar is purple with the 'PowerApps' logo on the left and user information on the right. A left-hand sidebar contains navigation links: Home, Learn, Apps, Create, Data, Flows, AI Builder, and Solutions. The main content area is titled 'Build business apps, fast' and includes a sub-header 'Make your own app'. Below this, three cards offer 'Canvas app from blank', 'Model-driven app from blank', and 'Portal from blank'. A link for 'All templates' is positioned to the right. The 'Start from data' section features icons for SharePoint, Excel Online, SQL Server, Common Data Services, and Other data sources. At the bottom, the 'Your apps' section contains a table listing existing applications.

**Build business apps, fast**  
Create apps that connect to your data and work across web and mobile. [Learn about PowerApps](#)

**Make your own app**

- Canvas app from blank
- Model-driven app from blank
- Portal from blank

[All templates](#) →

**Start from data**

- SharePoint
- Excel Online
- SQL Server
- Common Data Services
- Other data sources

**Your apps**

Name	Modified	Owner	Type
Registration App	15 min ago	Nick Doelman	Canvas
Class Room App	15 min ago	Nick Doelman	Model-driven
Solution Health Hub	1 wk ago	SYSTEM	Model-driven
Asset Checkout	2 wk ago	Nick Doelman	Model-driven














**Environments**

- Classroom
- Nick Doelman's Environment
- ✓ Portal in a Day
- Project Management Development
- RBMSPOC2
- RBMSVirtualAgent
- ReadyBMS Ltd
- ReadyBMS Ltd (default) (Upgrade)
- readyxrm

# Canvas Apps

Power Apps | Northwind Orders (Canvas)

### Northwind Orders

<b>Order 1000</b> Company Z \$ .00	>	Order Number 0936	Order Status Invoiced	Order Date 6/4/2006	Paid Date 6/4/2006															
<b>Order 0938</b> Company F \$ 2,870.00	>	Customer Company Y	Employee Marsh																	
<b>Order 0937</b> Company CC \$ 3,810.00	>	Notes <input type="text"/>																		
<b>Order 0936</b> Company Y \$ 1,170.00	>	<table><thead><tr><th>Product</th><th>Quantity</th><th>Unit Price</th><th>Extended</th><th></th></tr></thead><tbody><tr><td> Northwind Traders Cajun Seasoning</td><td>30</td><td>\$ 22.00</td><td>\$ 660.00</td><td></td></tr><tr><td> Northwind Traders Chocolate</td><td>40</td><td>\$ 12.75</td><td>\$ 510.00</td><td></td></tr></tbody></table>				Product	Quantity	Unit Price	Extended		 Northwind Traders Cajun Seasoning	30	\$ 22.00	\$ 660.00		 Northwind Traders Chocolate	40	\$ 12.75	\$ 510.00	
Product	Quantity	Unit Price	Extended																	
 Northwind Traders Cajun Seasoning	30	\$ 22.00	\$ 660.00																	
 Northwind Traders Chocolate	40	\$ 12.75	\$ 510.00																	
<b>Order 0935</b> Company I \$ 606.50	>	<div>Select Product <input type="text"/> \$ .00 +</div>																		
<b>Order 0934</b> Company BB \$ 230.00	>	<b>Totals:</b> 70 \$ 1,170.00																		
<b>Order 0933</b> Company A \$ 736.00	>																			

# Model Driven Apps

PowerApps | Innovation Challenge | Innovation > Challenges > Connected Operations | SANDBOX

Home | Recent | Pinned | Dashboards | Innovation | Challenges | Ideas | Team Projects

Connected Operations Challenge

5 Number of Ideas | 4/29/2018 Accept new ideas till | Active Status | Active Status Reason

Challenge Management ... Active for 30 days | Setup | Track (30 D) | Select And Execute | Close And Award

Details | Timeframe | Related

Details

Name	Connected Operations
Description	Industry 4.0 is a term used to describe a collection of technologies and processes, including intelligent machines, connected
Owner	SYSTEM
Communicate via	

Stakeholders

Challenge Sponsor

Review Committee

Nick Doelman org0c37b8c0

Contributed Ideas

Cq	Connected quality control	Connected Operations	10	...
Fa	Fleet automation	Connected Operations	8	...
Is	Integrated service management	Connected Operations	6	...
At	Automobile fuel consumption	Connected Operations	1	...

Start Team Chat

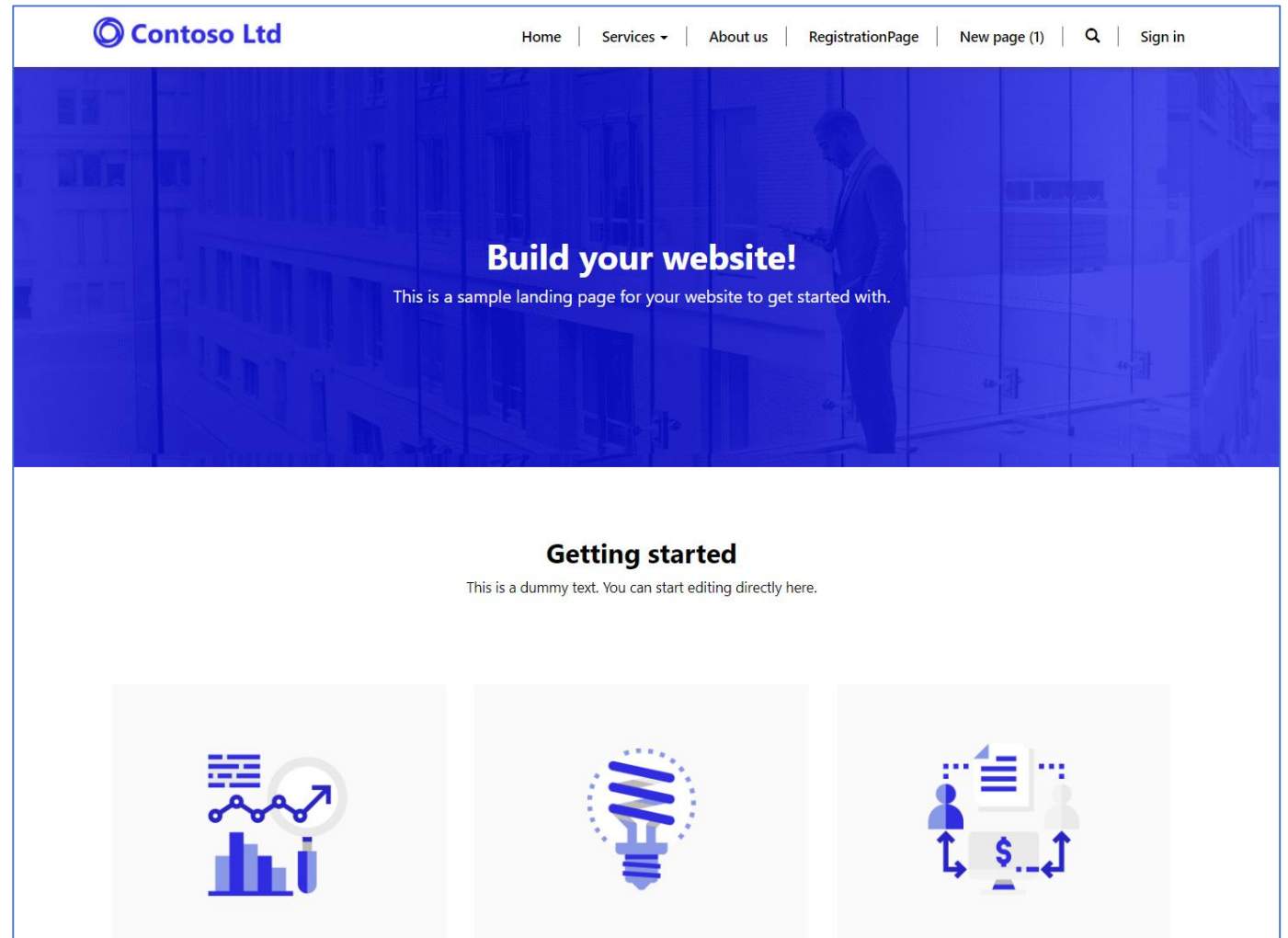
Team One

General

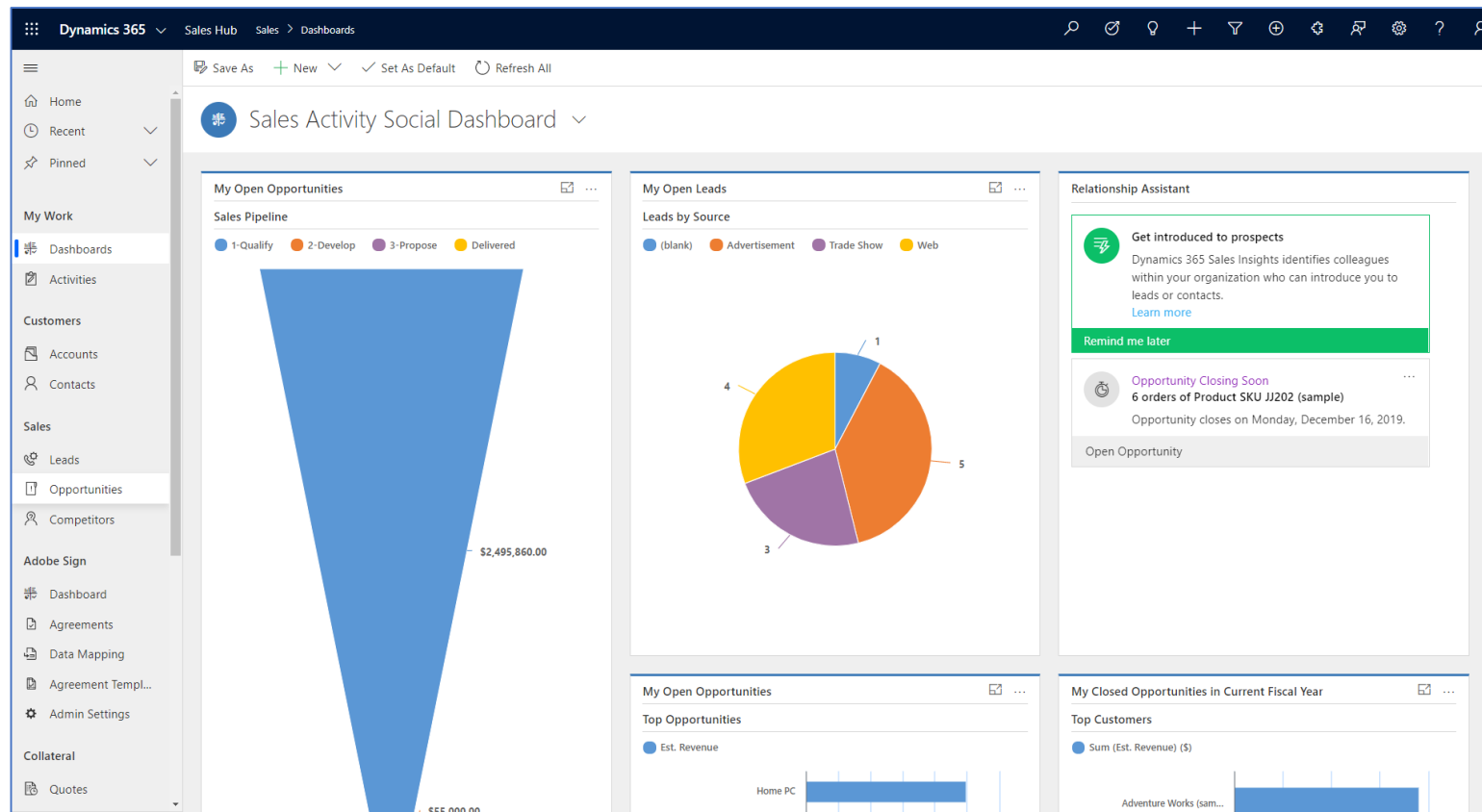


# Portal Apps

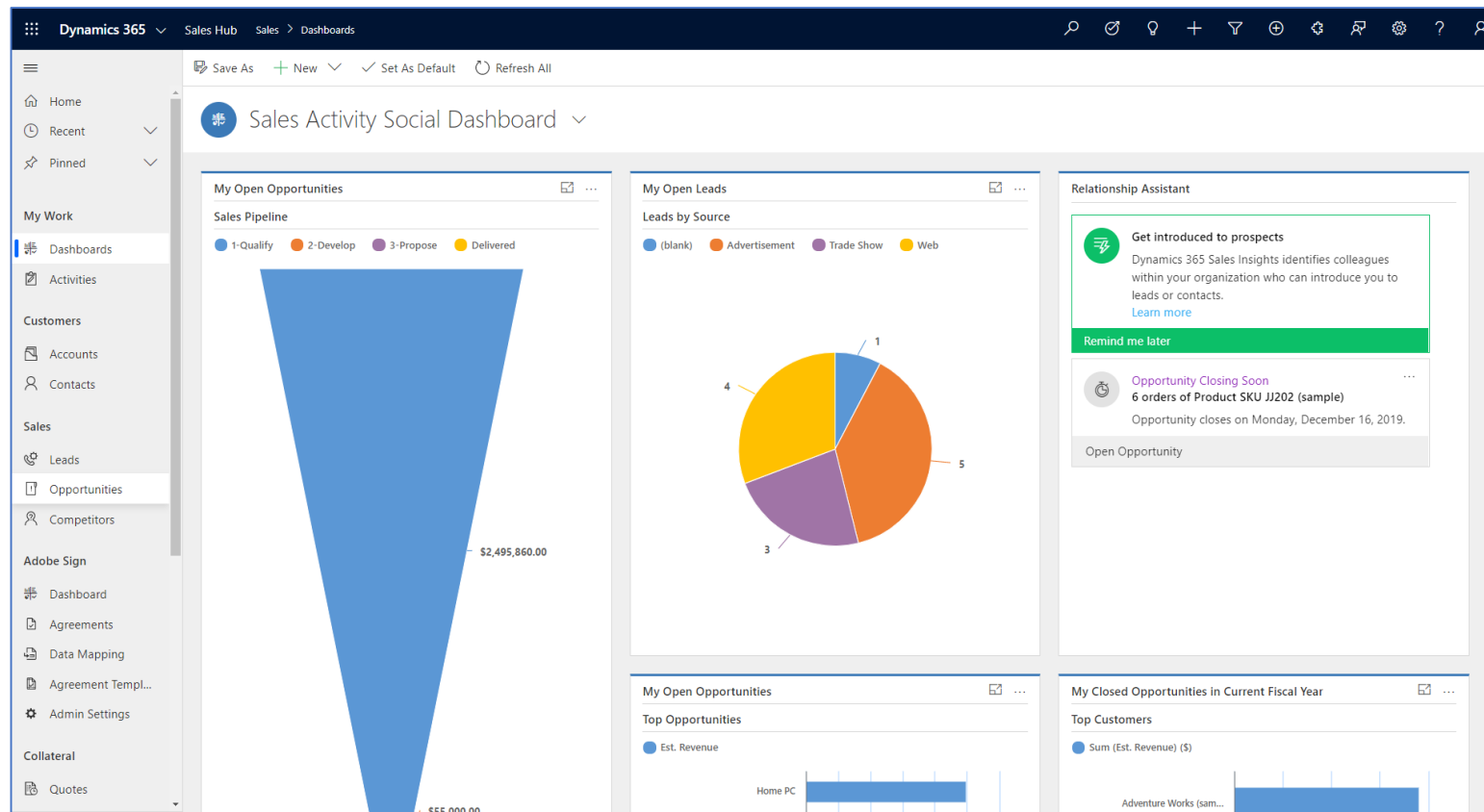
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# Dynamics 365



# Dynamics 365 is a Power App



# Microsoft Power Platform

The low-code platform that spans Office 365, Azure, Dynamics 365, and standalone applications



## Power BI

Business analytics



## Power Apps

Application development



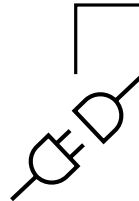
## Power Automate

Process automation

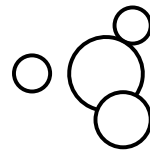


## Power Virtual Agents

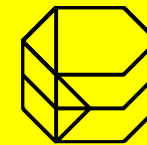
Intelligent virtual agents



**Data  
connectors**



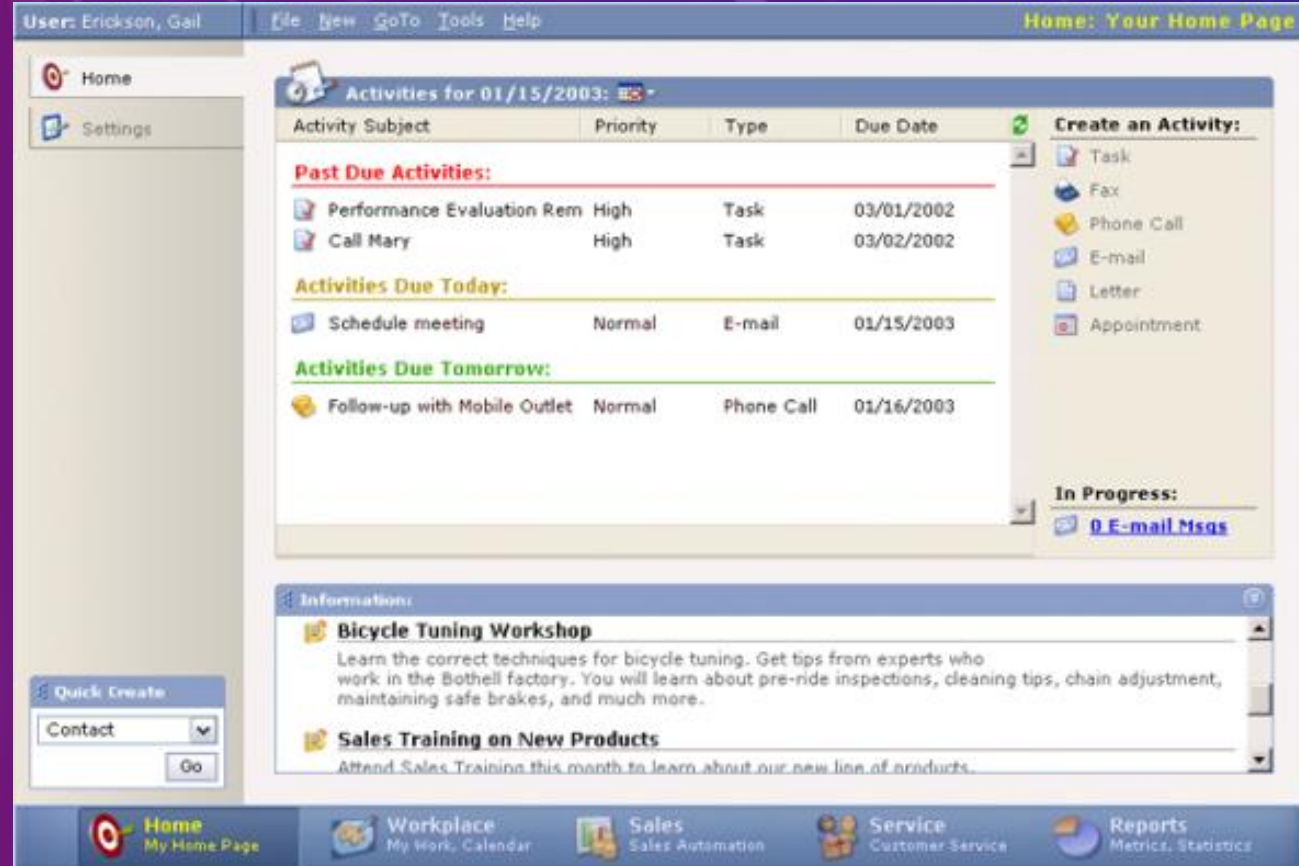
**AI Builder**



**Common  
Data Service**

# Quick History

- Microsoft Business Solutions Customer Relationship Management v1.0 released in 2003
- Customizable Business Application Layer in between CRM application and SQL Server
- Eventually evolved into what we call the Common Data Service today

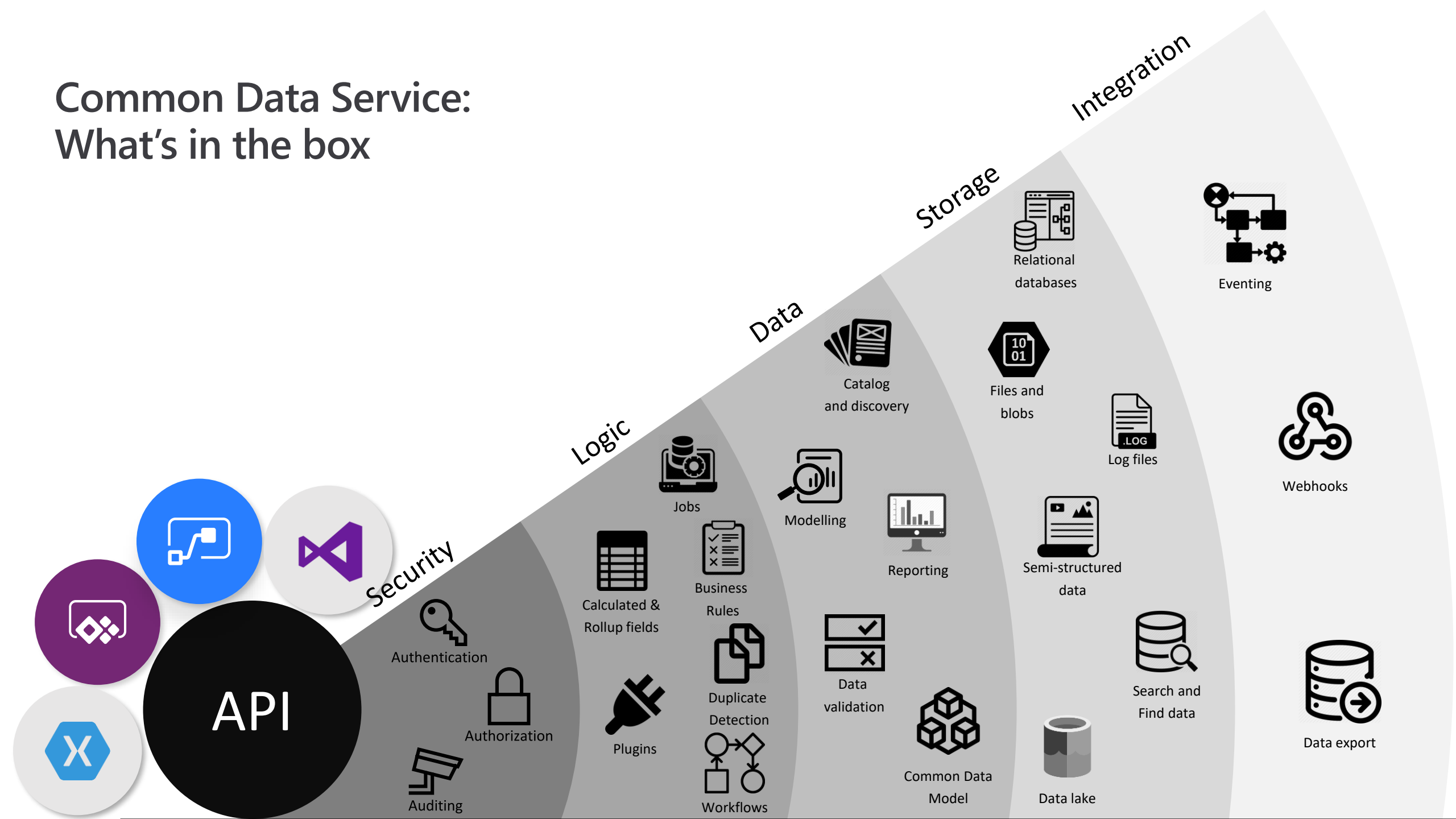


The background is a dark blue gradient with a subtle grid of small white dots. Overlaid on this are several large, semi-transparent geometric shapes: a large circle on the left, a large hexagon in the center, and a large triangle on the right. These shapes are composed of white lines. In the top left corner, there is a red plus sign and a white vertical line. A small yellow horizontal line is positioned below the main text.

# **Is the Common Data Service just a database?**

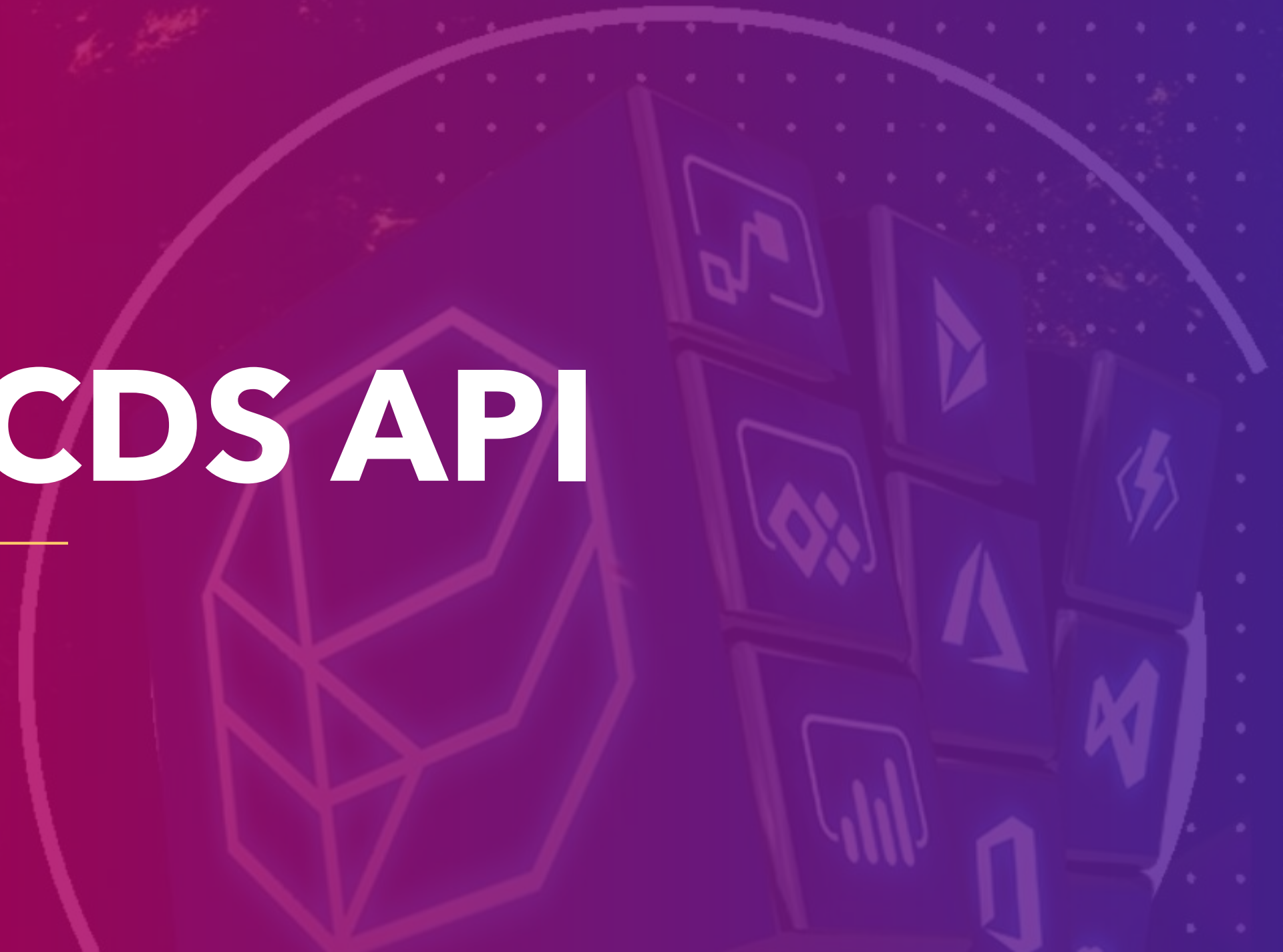


# Common Data Service: What's in the box





# CDS API



# Power Platform Apps Connect to CDS

Built-in Connectors (Power Automate, Canvas Apps)

CDS SQL endpoint

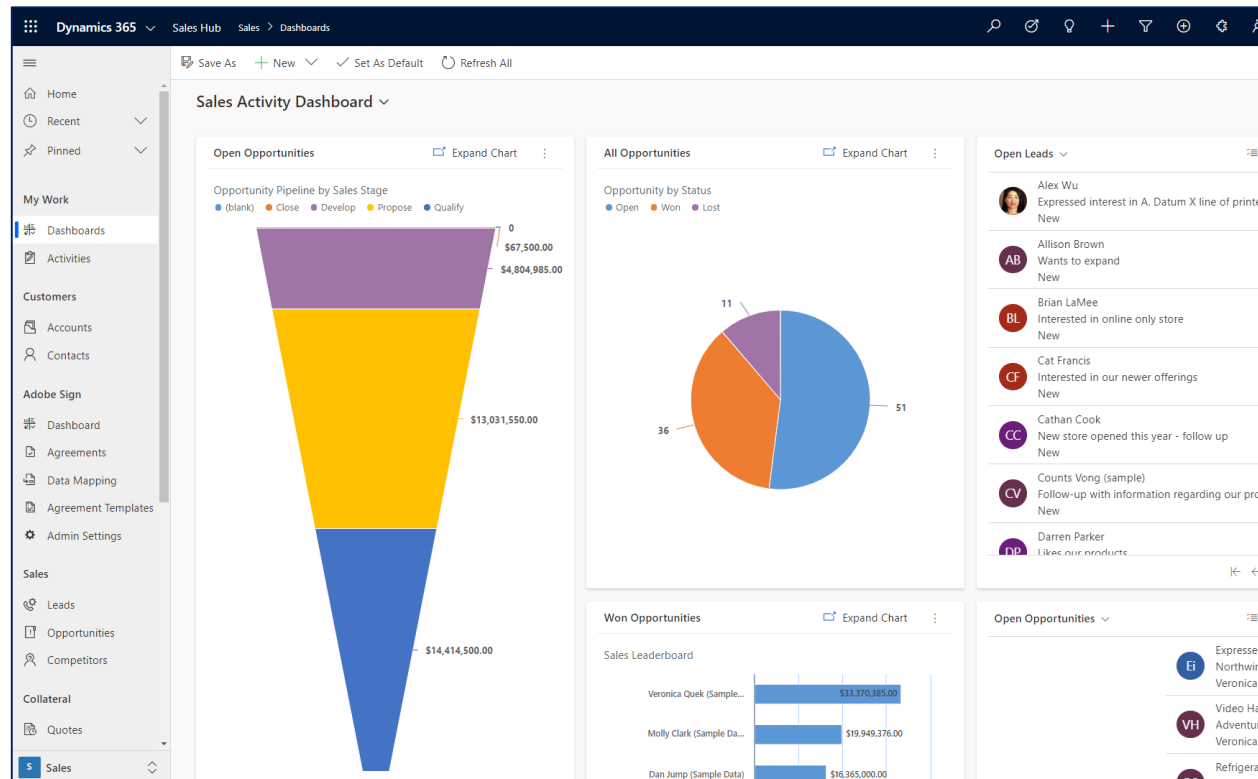
Automatic for model-driven apps and Power App portals

Default for Canvas apps

WebAPI



# Model-driven Power Apps



- App type with forms, views, dashboards and navigation
- Default functionality for searching, exporting, integration to Office 365 applications
- Allows specialized controls
- Seem familiar? **Dynamics 365 apps are model-driven apps on CDS**

# CDS Connectors



## Dynamics 365 Connector

- Deprecated
- Connect to Dynamics 365 Customer Engagement apps
- Use CDS Connector instead



## Common Data Service Connector

- Need to specify environment
- Connect across environments
- Run "on demand" flows in model-driven app



## Common Data Service Connector (current Environment)

- Uses environment where app or flow resides
- Many more actions
- No "on demand" triggers (yet)

# Use SQL to Query CDS Data

- SQL Connection to Common Data Service Endpoint
- Preview
- Read-only
- Used for Power BI, custom development

The screenshot displays the Microsoft SQL Server Management Studio interface. The title bar indicates the connection to 'readyxrm.crm3.dynamics.com,5558.readyxrm (nick.doelman@readybms.com (54))'. The Object Explorer on the left shows the 'dbo.account' table structure with various columns and their data types. The main query window contains the following SQL query:

```
select name,websiteurl, [primarycontactid] from account
```

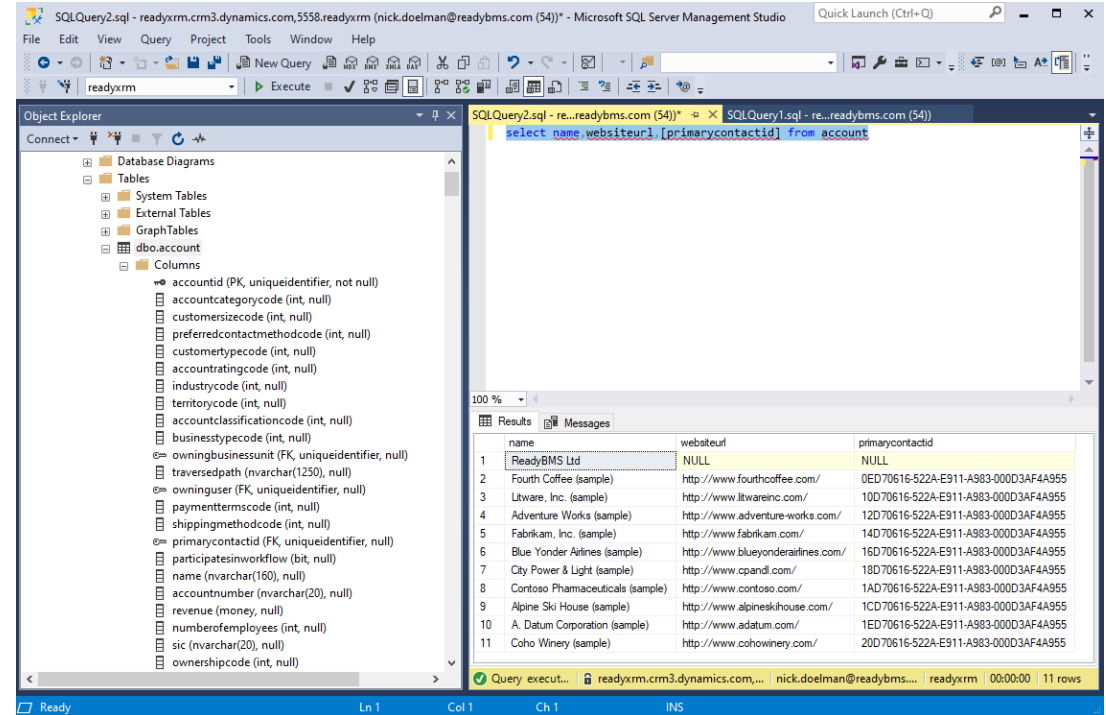
The Results pane at the bottom shows the query output as a table with 11 rows. The status bar at the bottom indicates 'Query execut...' and '11 rows'.

	name	websiteurl	primarycontactid
1	ReadyBMS Ltd	NULL	NULL
2	Fourth Coffee (sample)	http://www.fourthcoffee.com/	0ED70616-522A-E911-A983-000D3AF4A955
3	Litware, Inc. (sample)	http://www.litwareinc.com/	10D70616-522A-E911-A983-000D3AF4A955
4	Adventure Works (sample)	http://www.adventure-works.com/	12D70616-522A-E911-A983-000D3AF4A955
5	Fabrikam, Inc. (sample)	http://www.fabrikam.com/	14D70616-522A-E911-A983-000D3AF4A955
6	Blue Yonder Airlines (sample)	http://www.blueyonderairlines.com/	16D70616-522A-E911-A983-000D3AF4A955
7	City Power & Light (sample)	http://www.cpandl.com/	18D70616-522A-E911-A983-000D3AF4A955
8	Contoso Pharmaceuticals (sample)	http://www.contoso.com/	1AD70616-522A-E911-A983-000D3AF4A955
9	Alpine Ski House (sample)	http://www.alpineskihouse.com/	1CD70616-522A-E911-A983-000D3AF4A955
10	A. Datum Corporation (sample)	http://www.adatum.com/	1ED70616-522A-E911-A983-000D3AF4A955
11	Coho Winery (sample)	http://www.cohowinery.com/	20D70616-522A-E911-A983-000D3AF4A955



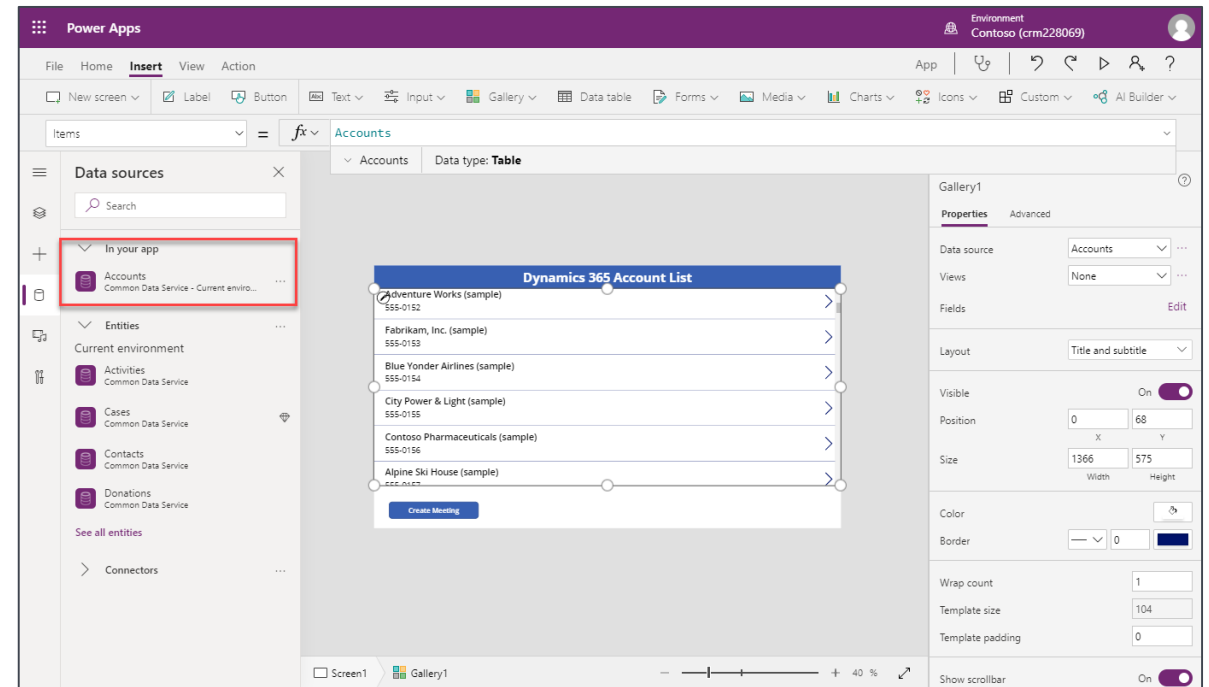
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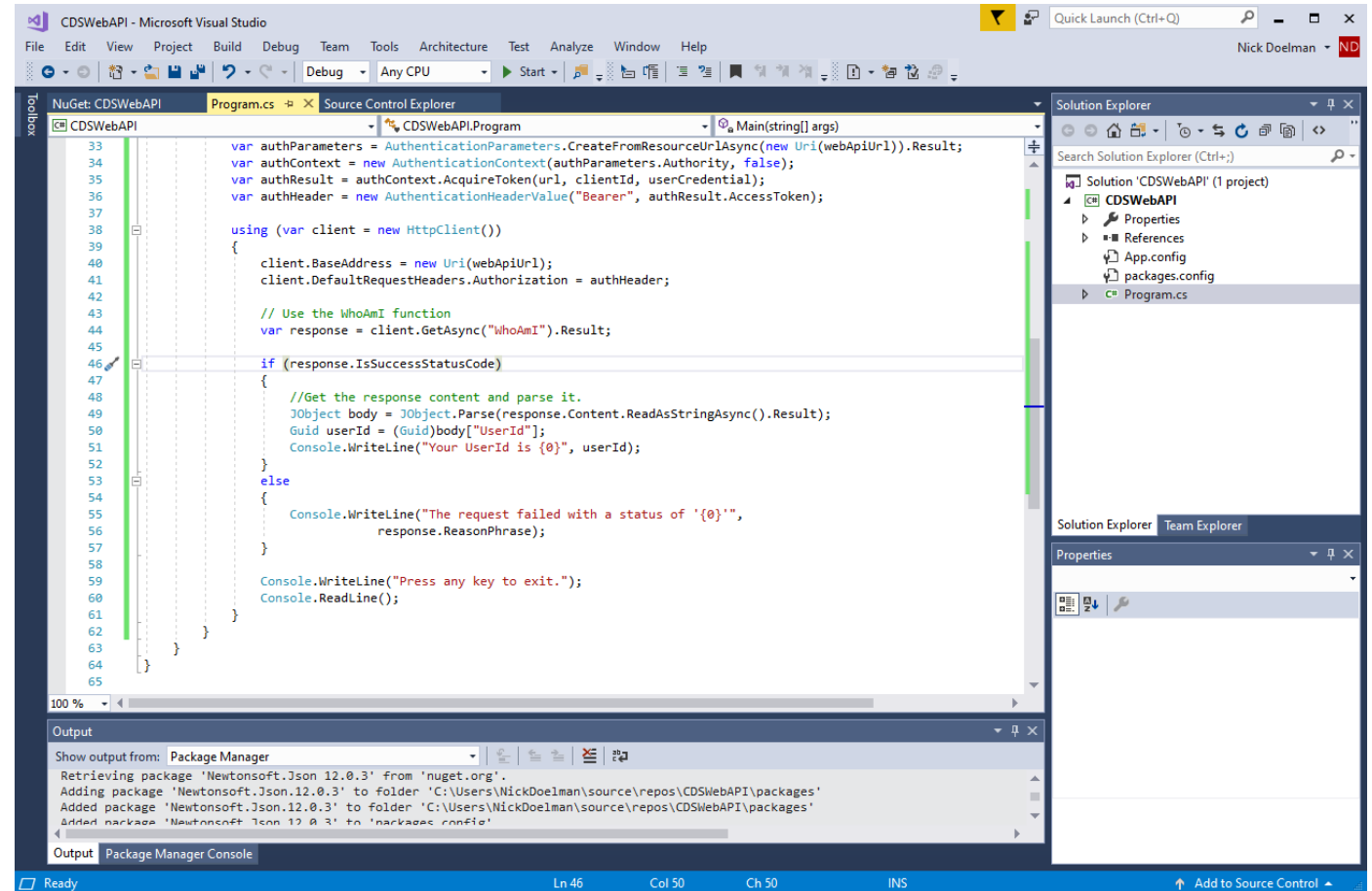
# CDS Data in Power Platform Apps

- Connectors in Power Automate and Canvas Apps
- Automatic data source for model-driven and portals (including Dynamics 365 CE)
- Default for Canvas Apps



# CDS Web API

- Connect to CDS using a variety of programming languages, platforms and devices



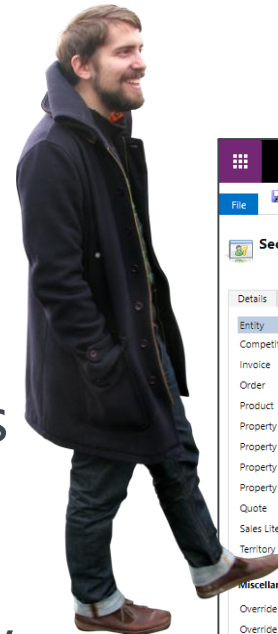


# CDS Security

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# Security Overview

- Security at platform level
- Users (Microsoft 365 Users)
  - Users assigned one or many security roles
- Security Roles define access and permissions to CDS records
- Users can belong to Teams or Business Units to ease administrator or add granularity to data



Power Apps

File Save and Close Actions Help

Security Role: Account Manager Working on solution: Default Solution

Entity	Create	Read	Write	Delete	Append	Append To	Assign	Share
Competitor	●	●	●	●	●	●	●	●
Invoice	●	●	●	●	●	●	●	●
Order	●	●	●	●	●	●	●	●
Product	●	●	●	●	●	●	●	●
Property	●	●	●	●	●	●	●	●
Property Association	●	●	●	●	●	●	●	●
Property Instance	●	●	●	●	●	●	●	●
Property Option Set Item	●	●	●	●	●	●	●	●
Quote	●	●	●	●	●	●	●	●
Sales Literature	●	●	●	●	●	●	●	●
Territory	●	●	●	●	●	●	●	●

Miscellaneous Privileges

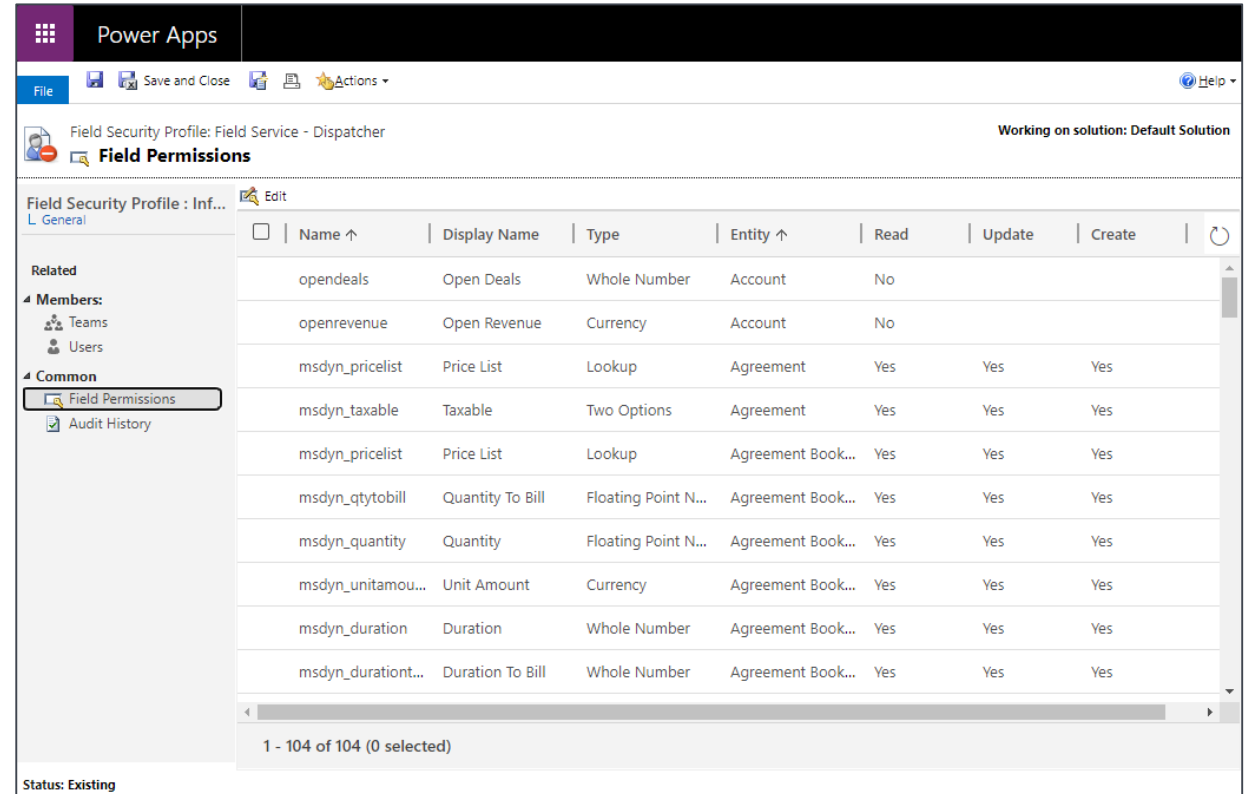
Override Invoice Pricing	●	Override Opportunity Pricing	●
Override Order Pricing	●	Override Quote Order Invoice Delete	●
Override Quote Pricing	●		

Key

○ None Selected ● User ● Business Unit ● Parent/Child Business Units ● Organization

# Field Level Security

- Provides security to individual fields on CDS records



The screenshot displays the 'Field Permissions' configuration page in Power Apps. The page title is 'Field Security Profile: Field Service - Dispatcher'. The left sidebar shows the 'Field Permissions' tab selected under the 'Common' section. The main area contains a table with the following columns: Name, Display Name, Type, Entity, Read, Update, and Create. The table lists 10 fields with their respective permissions.

Name	Display Name	Type	Entity	Read	Update	Create
opendeals	Open Deals	Whole Number	Account	No		
openrevenue	Open Revenue	Currency	Account	No		
msdyn_pricelist	Price List	Lookup	Agreement	Yes	Yes	Yes
msdyn_taxable	Taxable	Two Options	Agreement	Yes	Yes	Yes
msdyn_pricelist	Price List	Lookup	Agreement Book...	Yes	Yes	Yes
msdyn_qtytoBill	Quantity To Bill	Floating Point N...	Agreement Book...	Yes	Yes	Yes
msdyn_quantity	Quantity	Floating Point N...	Agreement Book...	Yes	Yes	Yes
msdyn_unitamou...	Unit Amount	Currency	Agreement Book...	Yes	Yes	Yes
msdyn_duration	Duration	Whole Number	Agreement Book...	Yes	Yes	Yes
msdyn_durationt...	Duration To Bill	Whole Number	Agreement Book...	Yes	Yes	Yes

1 - 104 of 104 (0 selected)


Status: Existing



# Data Auditing

- When enabled, track changes made to Common Data Service records, by whom and when
- Audit Storage usage tracked separately
- Reporting is awkward

## Update

Changed By  Microsoft Flow    Entity    Flow Approval

Changed Date 6/6/2020 9:28 PM

Field Name	Old Value	New Value
Status	Active	Inactive
Status Reason	WaitingForApproval	Completed

[Help](#)[Close](#)

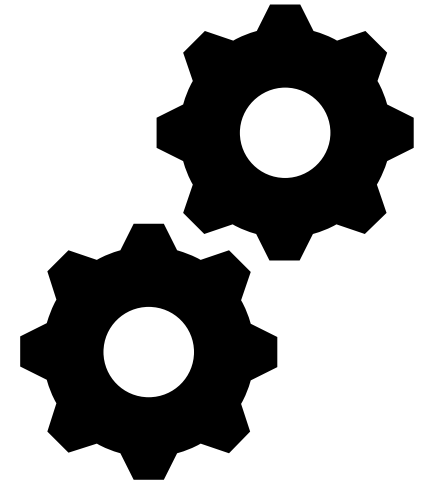
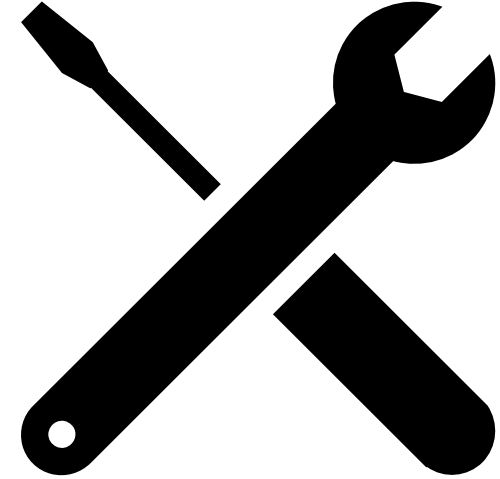


# CDS Logic

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# Common Data Service Logic

- Logic at Platform Level
  - Calculated and Rollup fields
  - Plugins
  - Classic Workflows
  - Business Rules
  - Schedule Jobs (Bulk delete)
  - Duplicate Detection





# Calculated and Rollup Fields

- Fields that don't store data but show result of calculations
- Rollup fields aggregate data from related child records to show sum or count of data

SAVE SAVE AND CLOSE

CALCULATED FIELD

Set To Be Invoiced

IF...THEN

- CONDITION (OPTIONAL)
  - + Add condition
- ACTION
  - Set To Be Invoiced to To be Invoiced Hours \* Hourly Rate

SAVE SAVE AND CLOSE

ROLLUP FIELD

To be Invoiced Hours

SOURCE ENTITY

Source: **Project**

Use Hierarchy: **NO**

RELATED ENTITY

Related: **Time Entries (Project)**

FILTERS (OPTIONAL)

- If **Billing Status** equals **"Not Invoiced"** and **Charge** equals **"Billable"**
  - + Add condition

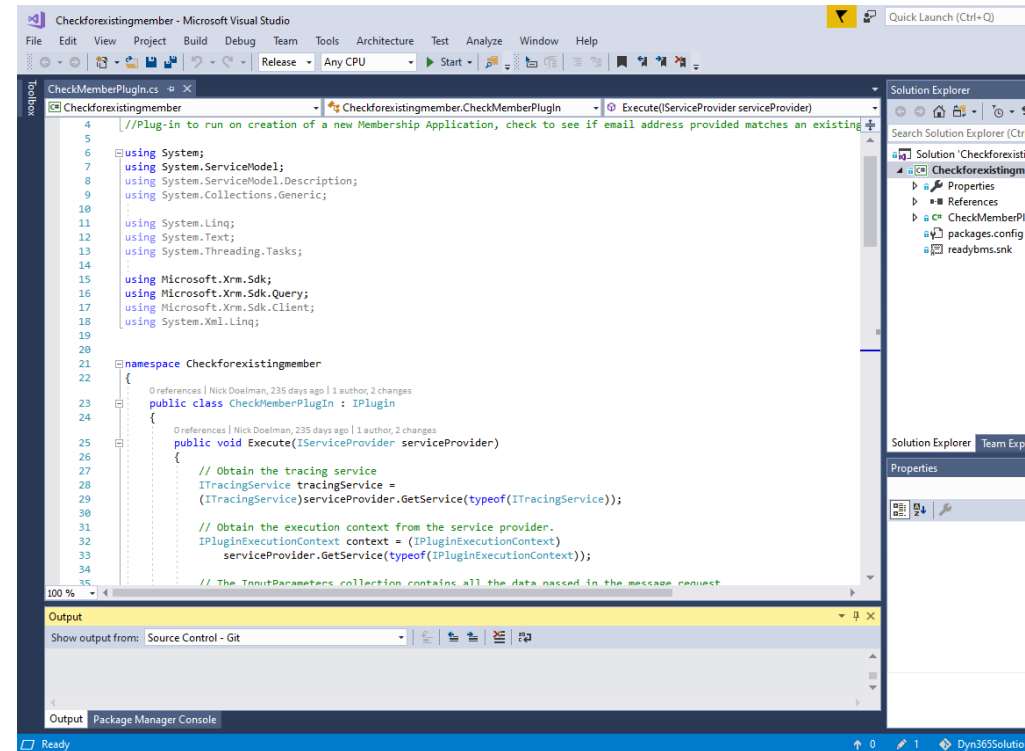
AGGREGATION

**SUM of Hours**

**i** The "Mass calculate the rbms\_project.rbms\_tobeinvoicedhours rollup field" mass calculation job will automatically be scheduled to run approximately 12 hours from the time that the rollup field is saved. If you need to change the time when its run, a system administrator can access this job from the Recurring System Jobs view and change the time.

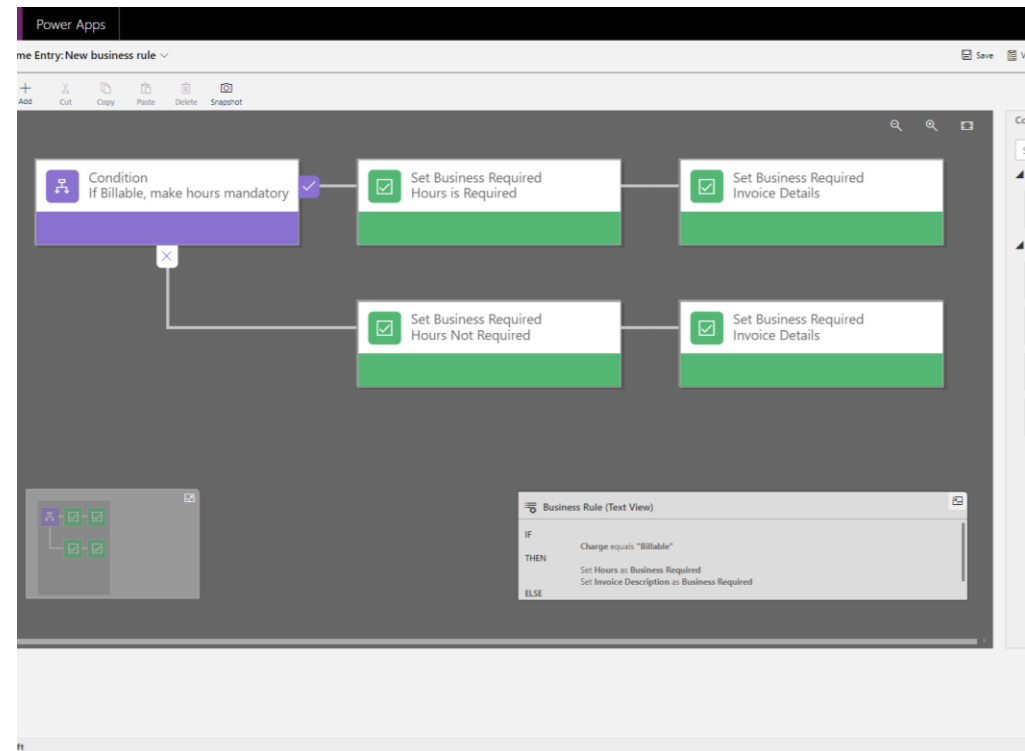
# Plug-ins

- Plugins
  - Developers write C# code in response to system or user actions and perform actions to CDS records, e.g. calculations, create records, trigger process



# Business Rules

- Business Rules
  - Short actions to change user interface on model-driven forms or update data or change data requirements



# Other Built In Logic

- **Classic Workflows**
  - Replaced by Power Automate
  - Still some items better implemented using Workflow
- **Business Process Flows**
  - Guide user on model-driven apps to enter and work with CDS data
- **Jobs**
  - Processes to delete records on a schedule
- **Duplicate Detection**
  - Identify records that could represent the same information (Duplicate contacts)

The screenshot displays the Power Apps interface. The top section shows a workflow diagram for a 'Candidate Approval Process'. The workflow starts with a 'Condition: Check Status Reason' step. If the condition is met (indicated by a green checkmark), it proceeds to 'CMCP Application: Employer And Contact' and then 'CMCP Application: Occupation + Level'. If the condition is not met (indicated by a red X), it proceeds to 'CMCP Application: Candidate Not Approved'. The bottom section shows the configuration for a 'Duplicate Detection Rule'. The rule is named 'Accounts with the same e-mail address' and has a status of 'Published'. The description is 'Detects account records that have the same value in the email address field.' The 'Duplicate Detection Rule Criteria' section shows 'Base Record Type' set to 'Account' and 'Matching Record Type' set to 'Account'. The 'Case-sensitive' checkbox is unchecked, and the 'Exclude inactive matching records' checkbox is also unchecked. The bottom table lists the criteria for the duplicate detection rule.

Field	Criteria	No. of Characters
Email	Exact Match	



# CDS Data

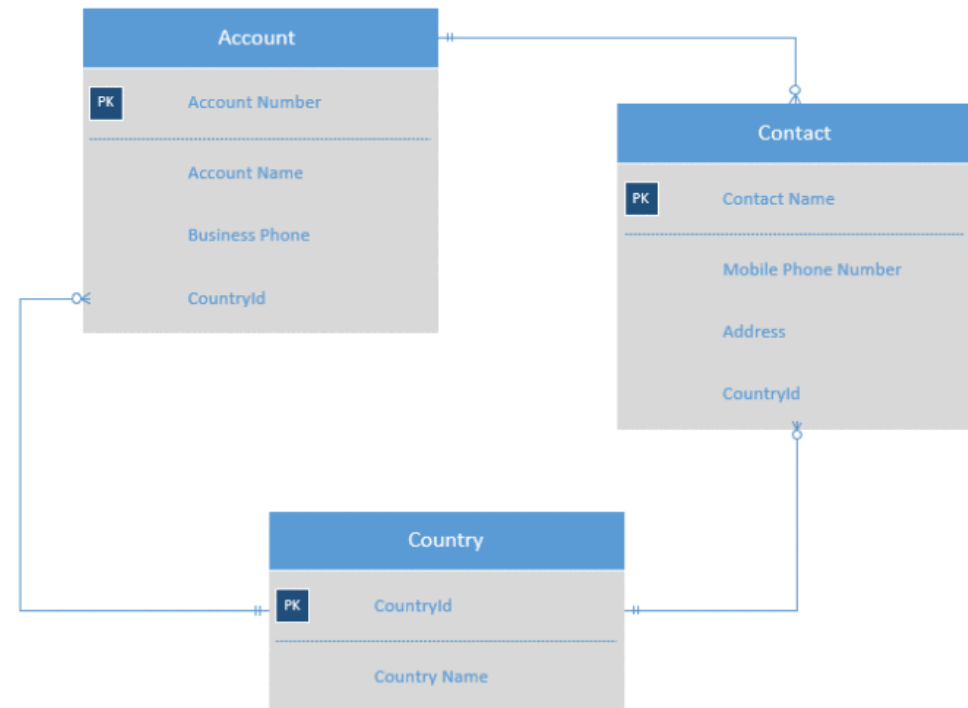
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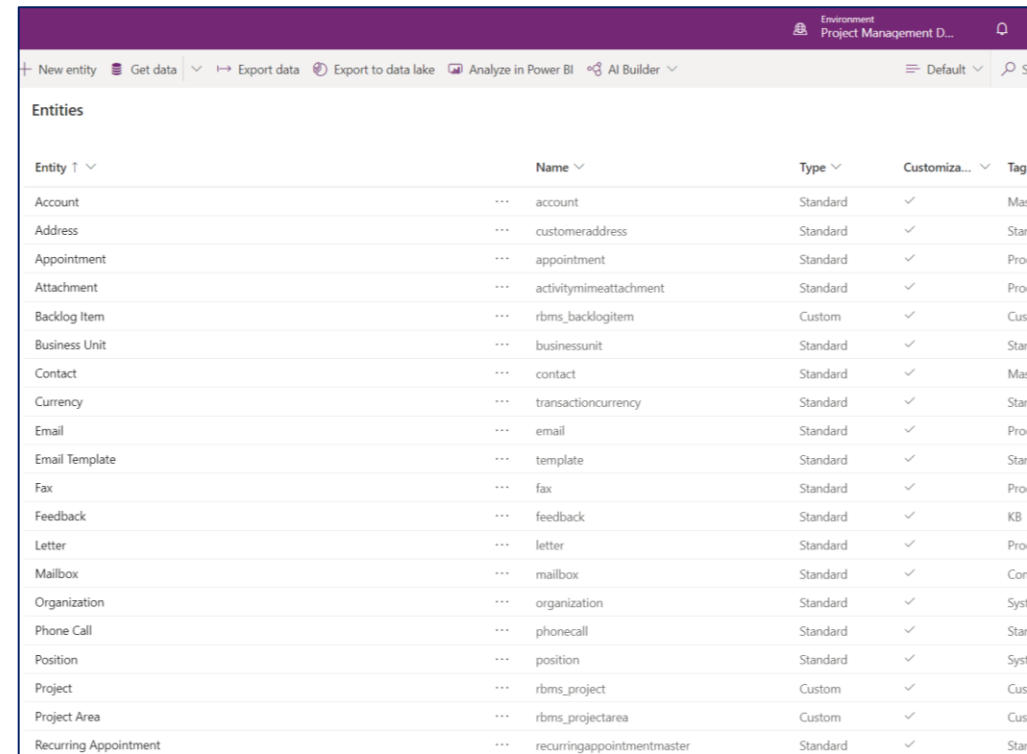
# CDS Data

- Entities and Fields
- Relationships
- Field Types
- Common Data Model
- Reports



# Creating CDS Entities

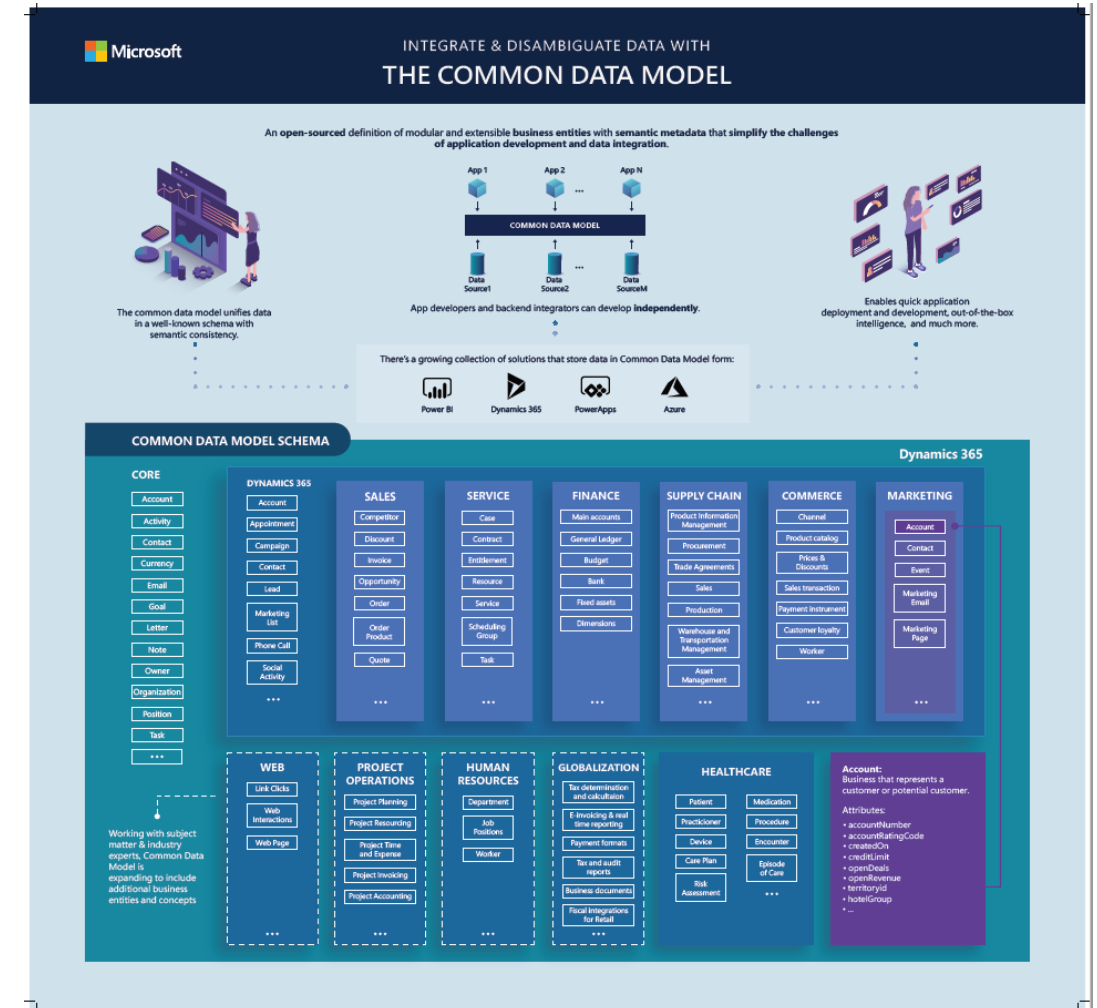
- Create an entity to represent a real world object
- Create entity attributes to describe that object
- Relate entity to others to represent real world relationships
- E.g. Project entity

A screenshot of the SAP CDS (Core Data Service) Entities list. The interface shows a table of entities with columns for Entity, Name, Type, Customization, and Tag. The entities listed include Account, Address, Appointment, Attachment, Backlog Item, Business Unit, Contact, Currency, Email, Email Template, Fax, Feedback, Letter, Mailbox, Organization, Phone Call, Position, Project, Project Area, and Recurring Appointment. The 'Project' entity is highlighted in blue.

Entity ↑ ▾	Name ▾	Type ▾	Customiza... ▾	Tag
Account	...	Standard	✓	Max
Address	...	Standard	✓	Star
Appointment	...	Standard	✓	Pro
Attachment	...	Standard	✓	Pro
Backlog Item	...	Custom	✓	Cus
Business Unit	...	Standard	✓	Star
Contact	...	Standard	✓	Max
Currency	...	Standard	✓	Star
Email	...	Standard	✓	Pro
Email Template	...	Standard	✓	Star
Fax	...	Standard	✓	Pro
Feedback	...	Standard	✓	KB
Letter	...	Standard	✓	Pro
Mailbox	...	Standard	✓	Cor
Organization	...	Standard	✓	Syst
Phone Call	...	Standard	✓	Star
Position	...	Standard	✓	Syst
Project	...	Custom	✓	Cus
Project Area	...	Custom	✓	Cus
Recurring Appointment	...	Standard	✓	Star

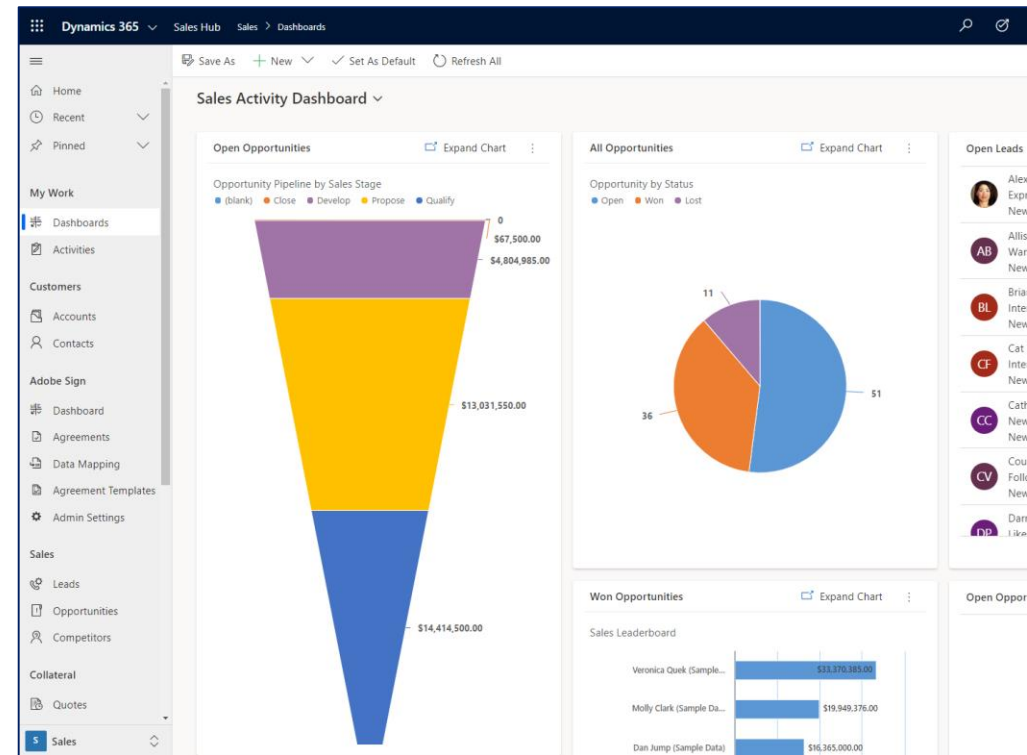
# Common Data Model

- A standard to represent objects based on real world experiences, existing applications or industry standards
- "Vanilla" CDS has a set of "core" Common Data model entities
- Other CDM entities added from installation of apps or accelerators



# Reports

- Built-in SQL Server Reporting Services
- Model-driven charts and dashboards
- Integration to Power BI



The background is a gradient of purple and blue. It features a large, faint, circular grid pattern. Overlaid on this are several geometric shapes: a large hexagon on the left, a series of overlapping rectangles on the right, and a small plus sign in the top left corner. The text 'CDS Storage' is prominently displayed in the center-left.

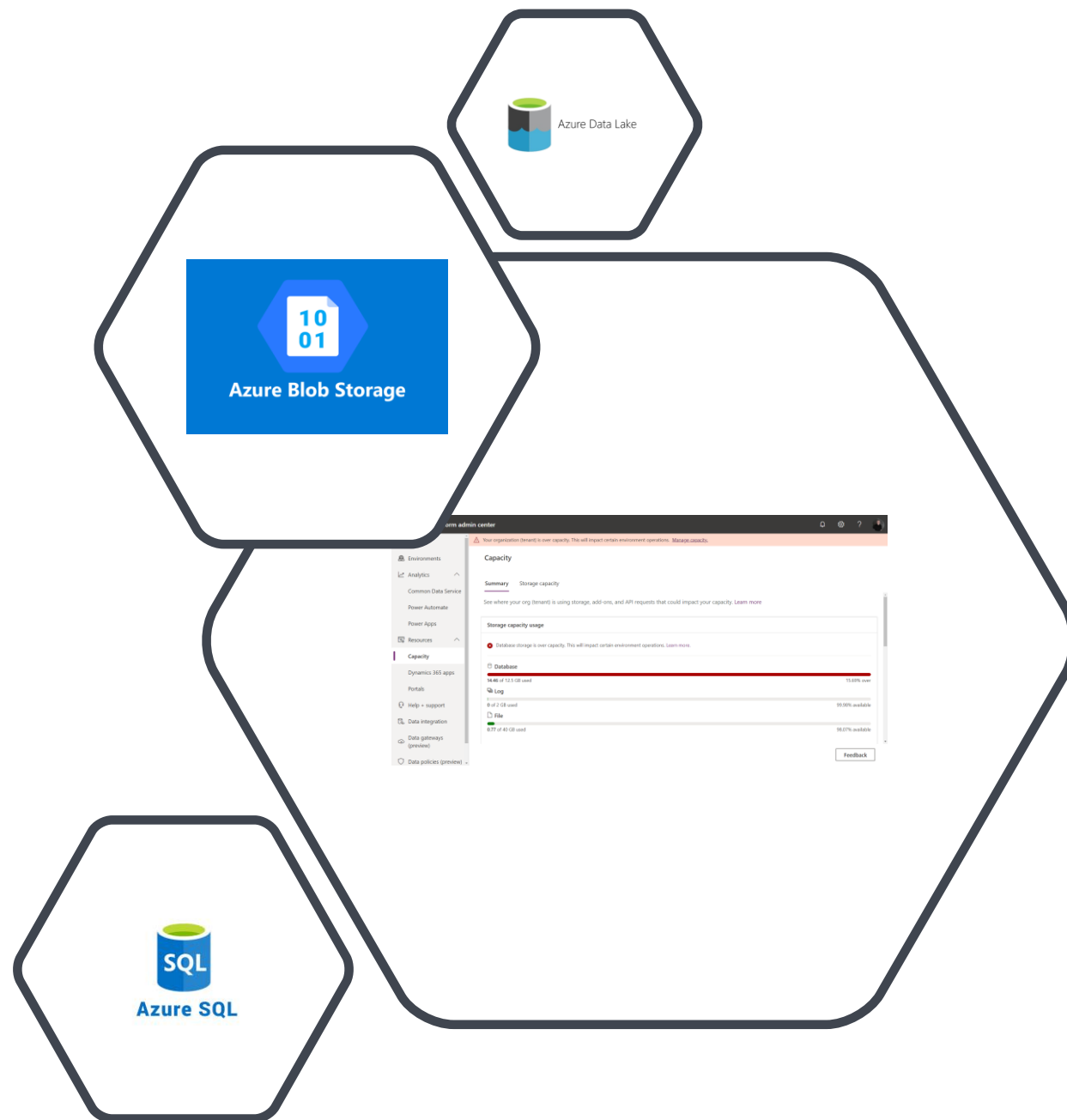
# CDS Storage

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# How data is stored in CDS

- Structured data in Azure SQL
- Files, Attachments in Azure Blob
- Azure Data Lake (Insights, Analytics)



The background is a gradient of purple and blue. It features a large, faint, circular grid pattern. Overlaid on this are several geometric shapes, including a large hexagon and various smaller polygons. There are also some abstract, glowing lines and shapes, such as a plus sign in the top left corner and a hand icon near the bottom center.

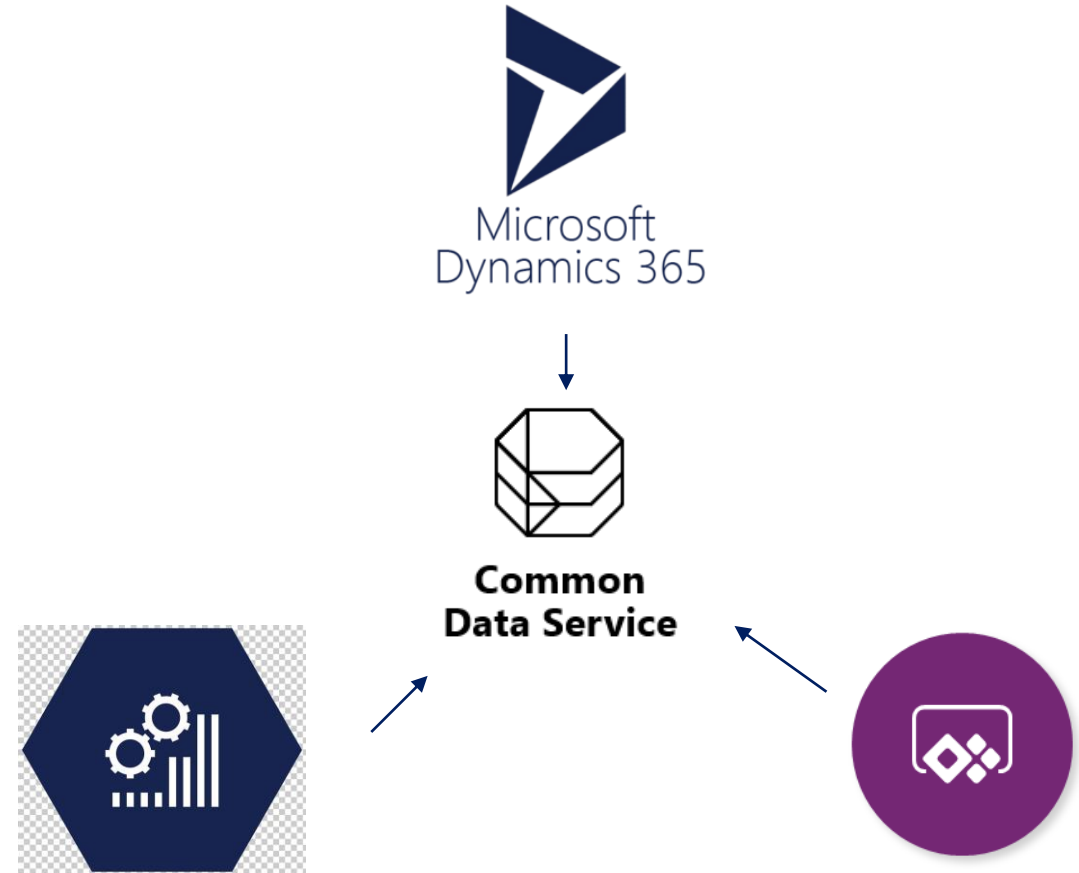
# CDS Integration

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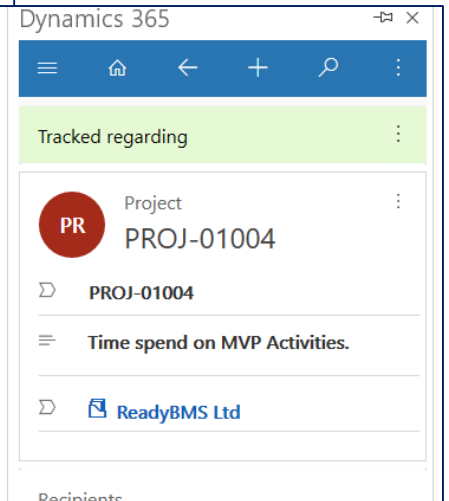
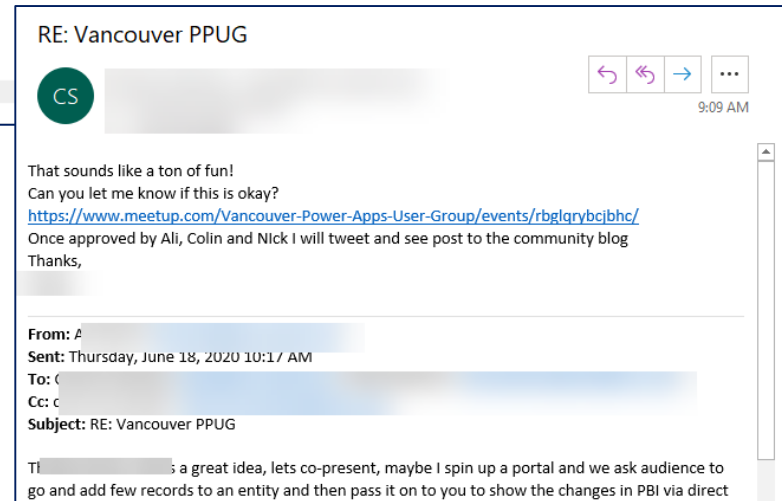
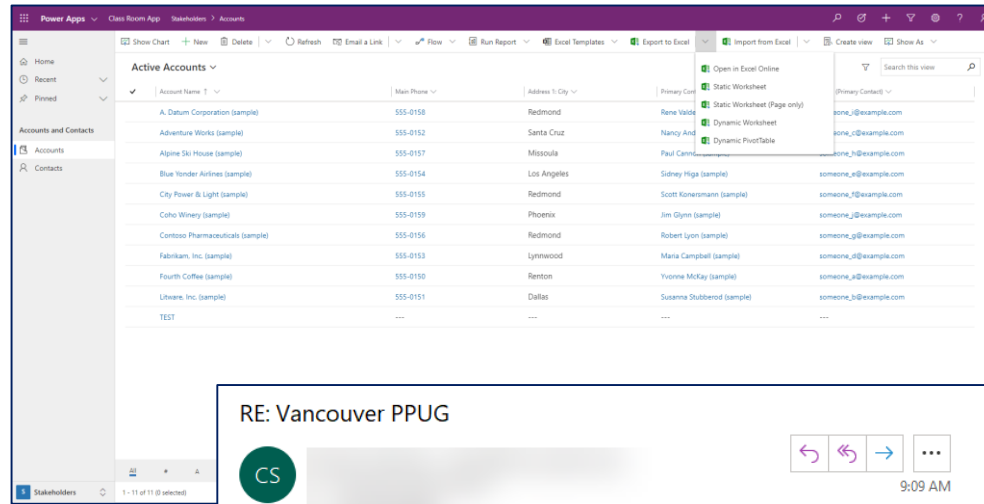
# CDS Integration – Data Operations

- Data Operations
  - Common Data Service accessed by many different apps
  - Dual-Write
  - Integration with other services/data connectors

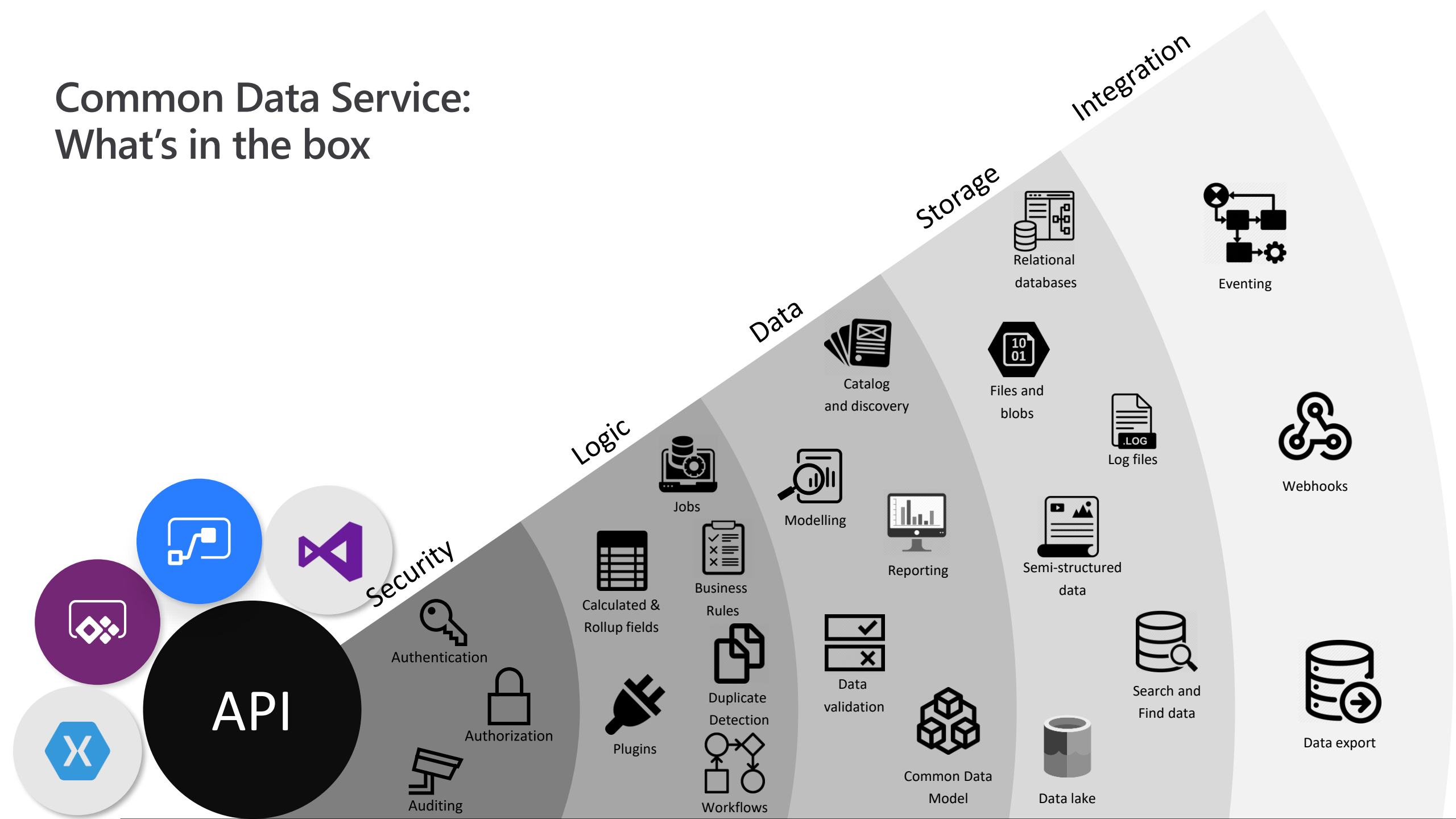


# CDS Integration – Office 365

- Office 365
  - Excel and Word Integration
  - Exchange
  - Outlook



# Common Data Service: What's in the box





365 +

*Saturday*

**CDS  
SATURDAY**





# UP NEXT!

## CDS for the Saras

## CDS for the Masses



**BASIC PERMISSIONS IN  
THE COMMON DATA  
SERVICE**

Sat 24th OCTOBER  
>>>

**Marc Gerner**  
POWERCOMMUNITY.COM



**HOW TO USE BOUND AND  
UNBOUND ACTIONS FOR  
CDS WITH POWER  
AUTOMATE**

Sat 24th OCTOBER  
>>>

**Elaiza Benitez**  
POWERCOMMUNITY.COM



## CDS for Techies



**FLEX YOUR DATA  
LIKE A PRO!**

Sat 24th OCTOBER  
>>>

**Mark Carrington**  
POWERCOMMUNITY.COM

