

BLETCHLEY PARK 2022

A Microsoft 365 Community
COLLABORATION CONFERENCE

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Dataverse basics for the recovering SharePoint addict

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- ✓ Power Platform architect
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Why companies go for SharePoint

SharePoint is so easy to set up

The business already uses SharePoint, so it's familiar to them

It's just a simple, small application... now

Dataverse is for Dynamics, it's too complex

They don't want to pay for the extra license that Dataverse requires

Someone accidentally deleted,
modified or renamed a column

People are modifying data directly in
SharePoint instead of through the app

The application has grown and now
performance is degraded

You have spent a lot of time and
money on fixing issues

The flip-side

Recognize these things?

It's time to discover Dataverse*!

* Not Dataverse for Teams

♥♥♥♥♥♥♥♥♥♥
YOUR
--- SHAREPOINTLIST ---
IS NOT
a relational database.
JSYK

Agenda

- Terminology
- Setup
- Relationships
- Security
- Performance
- Resources





Terminology

Terminology

	Column 1	Column 2	Column 3	Column 4
Row 1	Value 11	Value 12	Value 13	Value 14
Row 2	Value 21	Value 22	Value 33	Value 44
Row 3
Row 4

SharePoint

- List
- Columns (metadata)
- Rows

Dataverse

- Table (entity)
- Columns (fields)
- Rows (records)



Setup

Create your data table

SharePoint

- Create a list
- Add columns
- Create rows using the OOTB form
- View data using the OOTB view
- Create additional views
- Modify the form

Dataverse

- Create a table
- Add columns
- Modify the main form
- Create rows using the main form
- View data using the OOTB views
- Create additional views
- Create additional forms
- Add the table to a model-driven app (optional)

Data types

Column name:

The type of information in this column is:

- ☒ Single line of text
- ☐ Multiple lines of text
- ☐ Choice (menu to choose from)
- ☐ Number (1, 1.0, 100)
- ☐ Currency (\$, ¥, €)
- ☐ Date and Time
- ☐ Lookup (information already on this site)
- ☐ Yes/No (check box)
- ☐ Person or Group
- ☐ Hyperlink or Picture
- ☐ Calculated (calculation based on other columns)
- ☐ Image
- ☐ Task Outcome
- ☐ External Data
- ☐ Managed Metadata

The image shows a screenshot of the SharePoint 'Text' column type configuration pane. The left pane shows the 'Text' type selected. The right pane shows a list of data types including Date Time, Choice, Currency, Customer, Decimal Number, File, Floating Point Number, Image, Lookup, Multiline Text, and Yes/No.

Text

- Text
- Text Area
- Email
- URL
- Ticker Symbol
- Phone
- Autonumber
- Whole Number**
- Whole Number
- Duration
- Timezone
- Language

Date Time

- Date and Time
- Date Only

Choice

- Choices

Currency

Customer

Decimal Number

File

Floating Point Number

Image

Lookup

Multiline Text

Yes/No




Relationships

A background image showing two hands, one darker-skinned and one lighter-skinned, clasped together in a supportive grip. The hands are positioned centrally, with the fingers interlaced. The lighting is soft, highlighting the texture of the skin and the connection between the hands.

What is a
relationship?

A relationship is established
between two database tables
when one table uses a foreign
key that references the primary
key of another table.



SharePoint does not have
a primary key column

The ID could be seen as the primary
key, but this is not what you HAVE to
select in a “Lookup” column





There is no 2-way link between
“related” items in SharePoint lists

A relationship
established in
Dataverse can be
accessed from both
sides





Security

Security

SharePoint	Dataverse
Everyone can access all items	Users can only access specific records
A user has the same access to all items	Users can have different access to different items
A user sees all columns of the list	Users can have access to only a few of the columns
Cannot really hide columns or make them read-only	Can hide columns or make them read-only
Cannot prevent people from bypassing the app	Can only make the data available through a specific app

Dataverse

- Use security roles to cover most business needs
- Use field security profiles for advanced scenario's

Security Role: Basic User								
Details Core Records Sales Service Business Management Service Management Customization Missing Entities Business Process Flows Custom Entities								
Table	Create	Read	Write	Delete	Append	Append To	Assign	Share
Account	🟡	🟡	🟡	🟡	🟡	🟡	🟡	🟢
ACIViewMapper	🔴	🟢	🔴	🔴				
Action Card	🟡	🟡	🟡	🔴	🟡	🟢	🔴	
Action Card User Settings	🟡	🟡	🟡	🟡				🟡
Activity	🟡	🟡	🟡	🟡	🟡	🟡	🟡	🟢
Advanced Similarity Rule	🔴	🔴	🔴	🔴	🔴	🔴		
Announcement	🔴	🟢	🔴	🔴		🔴		
Application File	🔴	🟢	🔴	🔴				
Category	🔴	🟢	🔴	🔴	🟢	🟢	🔴	🔴
Connection	🟡	🟢	🟢	🟡	🟢	🟢	🟡	🟢
Connection Role	🔴	🟢	🔴	🔴	🔴	🔴		
Contact	🟡	🟡	🟡	🟡	🟡	🟡	🟡	🟢
Customer Relationship	🟡	🟡	🟡	🟡	🟡	🟡	🟡	🟢
Data Import	🟡	🟡	🟡	🟡	🟡	🟡	🟡	🟢
Data Map	🟡	🟢	🟡	🟡	🟡	🟡	🟡	🟢
Data Performance Dashboard	🔴	🔴	🔴	🔴	🔴	🔴		
Document Location	🟢	🟢	🟢	🔴	🟢	🟢	🟢	🟢



Performance

Performance

SharePoint

- List view threshold (5000 items)
- Make sure to set indexes before reaching the list view threshold
- Limited support for “complex column types” (lookup, person or group)
- Limited delegation support
- Slower response times (Canvas Apps)

Dataverse

- Built for large amounts of data
- No limitations on database operations on a table basis
- No (real) limitations on number of complex columns
- Extensive delegation support
- Fastest response times (Canvas Apps)

The background of the image is a close-up, shallow depth-of-field shot of numerous round, pink and white tablets. The pills are scattered across the frame, with some in sharp focus in the foreground and others blurred in the background. The lighting is soft and even, highlighting the texture of the pills.

Resources

How to get started?

- [Get started using Microsoft Dataverse - Learn | Microsoft Docs](#)
- [What is Microsoft Dataverse? - Power Apps | Microsoft Docs](#)
- [Microsoft Dataverse Intro in 20 Minutes #Dataverse – YouTube](#) (April Dunnam)
- Create a developer environment (if you don't have one yet)
[Power Apps Developer Plan | Microsoft Power Apps](#)
- Start creating your first tables 😊

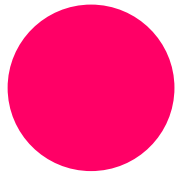
Questions?

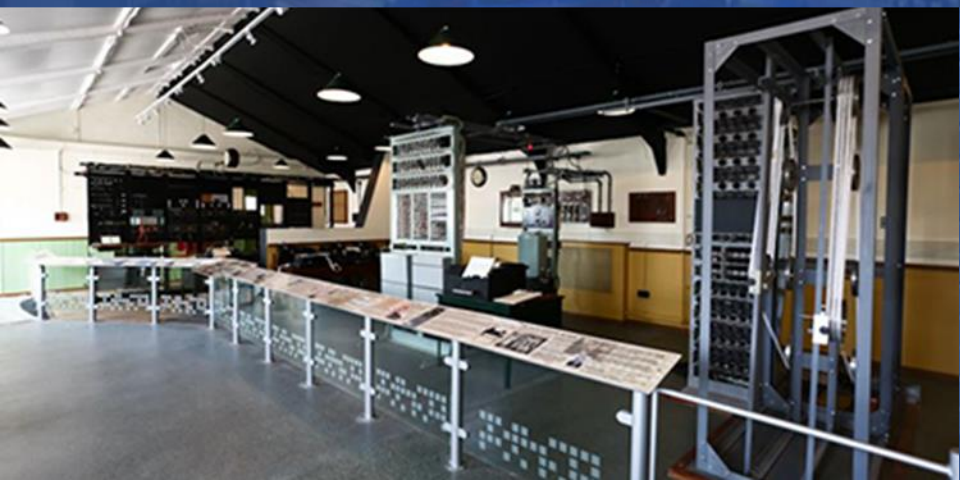
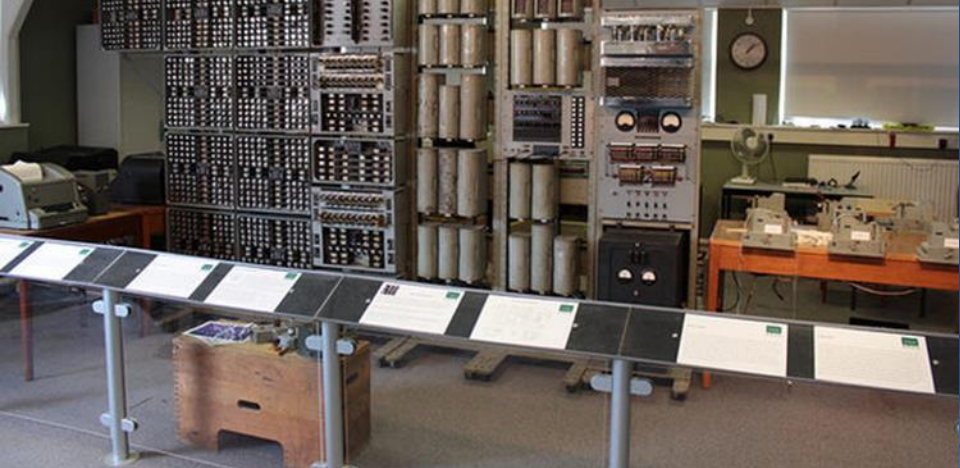


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Thank You!

