

Module 1 – Data Modeling with Dataverse

Goal

To design and implement the data model for Inspections while adhering to best practices.

You will learn how to:

- Work with Dataverse tables and configure table settings (metadata)
- Configure columns with various data types
- Create relationships
- Configure relationship behavior
- Add alternate keys

Table Of Contents

Tables.....	1
Columns.....	18
Relationships.....	23
Column Mappings	26
(Alternate) Keys.....	31

Tables

We will begin by exploring tables and learn how to navigate across the various components.

1. Browse to <https://make.powerapps.com>
2. Select the environment assigned to you
3. Navigate to **Solutions** and open the **Vehicle Inspections** solution

4. By default you'll land on the **Objects** screen that lists all components added to the solution

The screenshot shows the 'Objects' screen for a solution named 'Vehicle Inspections'. The left sidebar contains a navigation menu with 'Objects' selected. The main area displays a table of components. The table has columns: Display name, Name, Type, Managed, and Customized. The components listed are:

Display name	Name	Type	Managed	Customized
Car	ppcc_Car	Web Resource (S...	No	Yes
Checklist	ppcc_Checklist	Web Resource (S...	No	Yes
Checklist Item	ppcc_checklistitem	Table	No	Yes
Checklist Item Condi...	ppcc_checklistite...	Choice	No	Yes
Contact	contact	Table	Yes	No
Customer Decision	ppcc_customer...	Choice	No	Yes
Inspection	ppcc_inspection	Web Resource (S...	No	Yes
Inspection	ppcc_inspection	Table	No	Yes
Inspection Area	ppcc_inspection...	Web Resource (S...	No	Yes
Inspection Area	ppcc_inspectiona...	Table	No	Yes

5. You can add a new component from anywhere in a solution by selecting the **+New** button in the top command bar. As you can see there are dozens of solution component types. The most commonly used ones are listed in the first level dropdown, then second level, and the remaining scrollable list under *Other*.

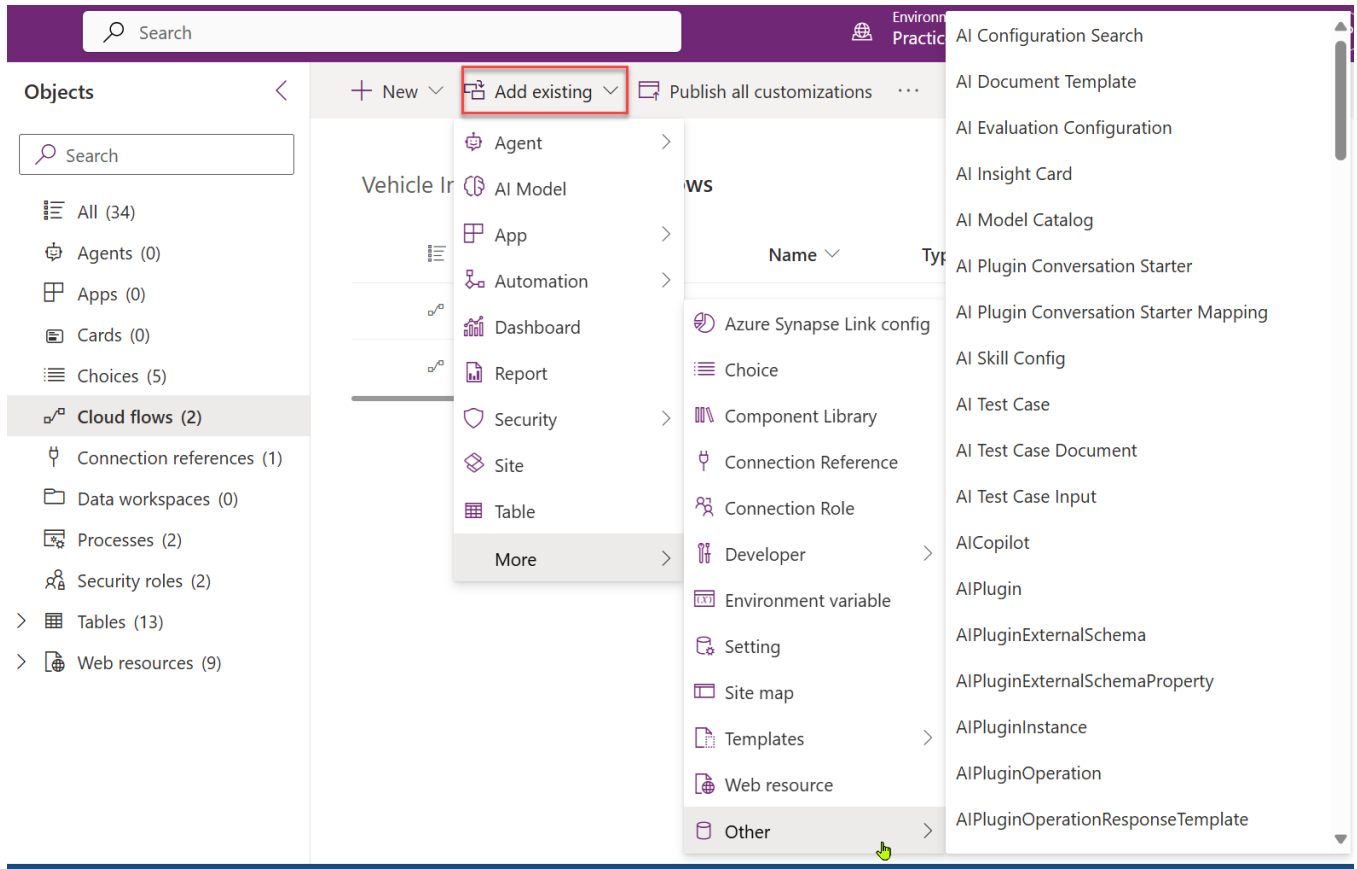
The screenshot shows the 'Objects' screen for a solution named 'Vehicle Inspections'. The left sidebar contains a navigation menu with 'Objects' selected. The main area displays a table of components. The '+New' button in the top command bar is highlighted, and the dropdown menu is open, showing a list of component types. The list includes:

- Agent
- App
- Automation
- Dashboard
- Report
- Security
- Table
- More

The 'More' option is expanded, showing a scrollable list of component types under the 'Other' category:

- Choice
- Component Library
- Connection Reference
- Connection Role
- Environment variable
- Setting
- Templates
- Web resource
- Other

6. You can also add existing components that are not already part of the solution by selecting **Add existing**. You'll see the same list of component types.



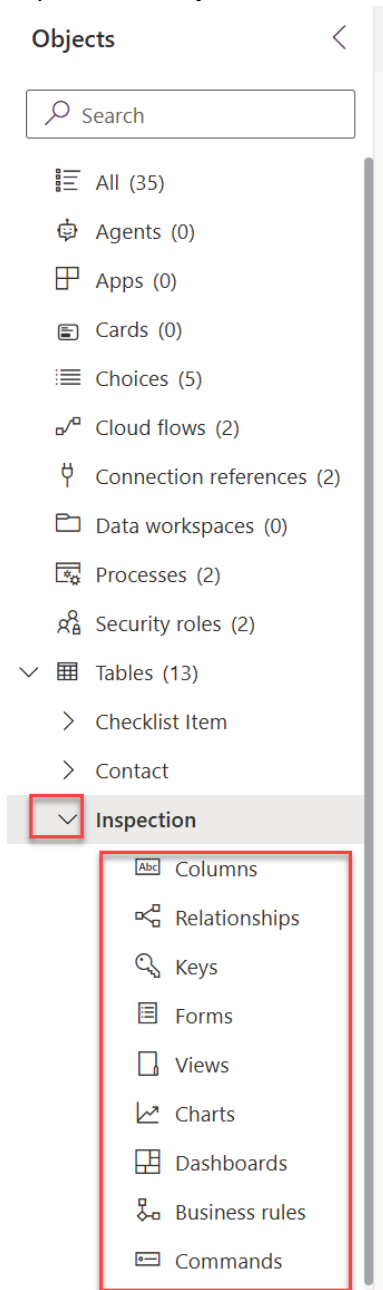
7. Under the **Objects** tree, select **Tables**.
8. Here you will see all tables currently added to the solution.

Vehicle Inspections > Tables

Table	Name	Type	Managed	Customized	Customizable	Tags
Checklist Item	ppcc_checklistitem	Standard	No	Yes	Yes	Custom
Contact	contact	Standard	Yes	No	Yes	Core
Inspection	ppcc_inspection	Standard	No	Yes	Yes	Custom
Inspection Area	ppcc_inspectiona...	Standard	No	Yes	Yes	Custom
Inspection Checklist It...	ppcc_inspectionc...	Standard	No	Yes	Yes	Custom
Inspection Type	ppcc_inspectiont...	Standard	No	Yes	Yes	Custom
Inspection Type Area	ppcc_inspectiont...	Standard	No	Yes	Yes	Custom
Repair Quote	ppcc_repairquote	Standard	No	Yes	Yes	Custom
Vehicle	ppcc_vehicle	Standard	No	Yes	Yes	Custom
Vehicle Manufacturer	ppcc_vehicleman...	Standard	No	Yes	Yes	Custom
Vehicle Model	ppcc_vehiclemod...	Standard	No	Yes	Yes	Custom
Vehicle Model Year	ppcc_vehiclemod...	Standard	No	Yes	Yes	Custom
Vehicle Trim	ppcc_vehicletrim	Standard	No	Yes	Yes	Custom

9. Expand **Tables** under the solution object tree.

10. Expand the **Inspection** table. You will see all the sub-component types for tables.



11. Select the Inspection table to see a detailed overview of the table

The screenshot shows the 'Inspection' table overview. On the left, the 'Objects' sidebar lists various categories, with 'Inspection' highlighted under 'Tables (13)'. The main area displays the table's properties, schema, data experiences, and customizations. The 'Table properties' section shows the table name 'Inspection', its primary column 'Inspection Number', and its type 'Standard'. The 'Schema' section lists 'Columns', 'Relationships', and 'Keys'. The 'Data experiences' section lists 'Forms', 'Views', 'Charts', and 'Dashboards'. The 'Customizations' section lists 'Business rules', 'Commands', and 'Row summary'. Below these sections, the 'Inspection columns and data' table is shown, with columns for 'Created By', 'Created On', and 'Created By (Delegate)'. The table contains 32 rows of data, with the first row showing 'Chris Piasecki' and '10/17/2025 10:02 PM'.

Created By	Created On	Created By (Delegate)
Chris Piasecki	10/17/2025 10:02 PM	
Chris Piasecki	10/17/2025 10:02 PM	
Chris Piasecki	10/17/2025 10:02 PM	
Chris Piasecki	10/17/2025 10:02 PM	
Chris Piasecki	10/17/2025 10:02 PM	
Chris Piasecki	10/17/2025 10:02 PM	
Chris Piasecki	10/17/2025 10:02 PM	
Chris Piasecki	10/17/2025 10:02 PM	
Chris Piasecki	10/17/2025 10:02 PM	
Chris Piasecki	10/17/2025 10:02 PM	

12. You can select a table sub-component type from either the object tree or the table screen to view its list.

The screenshot shows the 'Inspection' table overview. On the left, the 'Objects' sidebar lists various categories, with 'Inspection' highlighted under 'Tables (13)'. The main area displays the table's properties, schema, data experiences, and customizations. The 'Table properties' section shows the table name 'Inspection', its primary column 'Inspection Number', and its type 'Standard'. The 'Schema' section lists 'Columns', 'Relationships', and 'Keys'. The 'Data experiences' section lists 'Forms', 'Views', 'Charts', and 'Dashboards'. The 'Customizations' section lists 'Business rules', 'Commands', and 'Row summary'. Below these sections, the 'Inspection columns and data' table is shown, with columns for 'Created By', 'Created On', and 'Created By (Delegate)'. The table contains 32 rows of data, with the first row showing 'Chris Piasecki' and '10/17/2025 10:02 PM'. Red arrows point from the 'Columns' sub-component type in the object tree and the 'Columns' button in the schema section to the 'Inspection columns and data' table.

Created By	Created On	Created By (Delegate)
Chris Piasecki	10/17/2025 10:02 PM	
Chris Piasecki	10/17/2025 10:02 PM	
Chris Piasecki	10/17/2025 10:02 PM	
Chris Piasecki	10/17/2025 10:02 PM	

SEARCH

All (35)

Agents (0)

Apps (0)

Cards (0)

Choices (5)

Cloud flows (2)

Connection references (2)

Data workspaces (0)

Processes (2)

Security roles (2)

Tables (13)

Checklist Item

Contact

Inspection

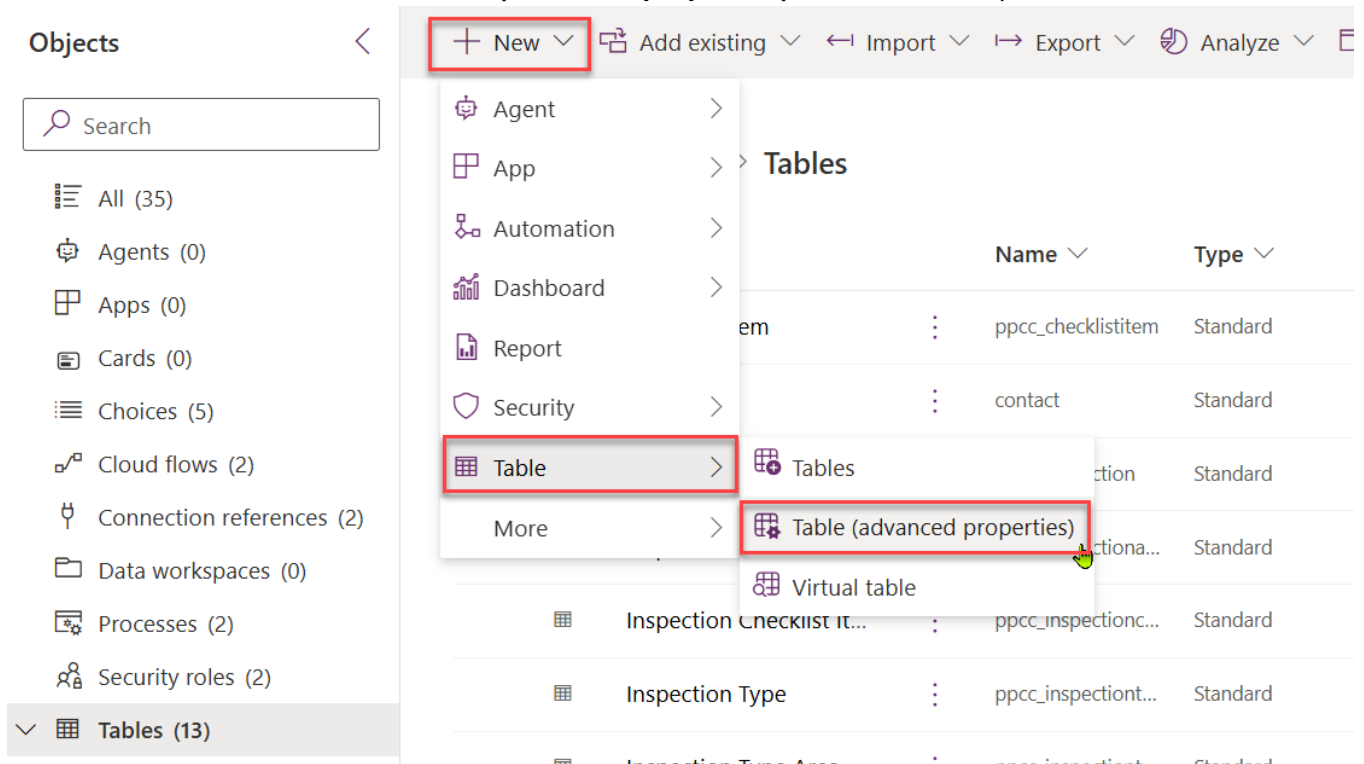
Columns

Vehicle Inspections > Tables > Inspection > Columns

Display name ↑ ▾		Name ▾	Data type ▾	Managed ▾
(Deprecated) Stage Id	:	stageid	Unique identifier	No
(Deprecated) Traverse...	:	traversedpath	Single line of text	No
Checklist Count	:	ppcc_ChecklistC...	Whole number	No
Checklist Count (Last ...	:	ppcc_ChecklistC...	Date and time	No
Checklist Count (State)	:	ppcc_ChecklistC...	Whole number	No
Completion Time	:	ppcc_Completio...	Date and time	No
Created By	:	CreatedBy	Lookup	No
Created By (Delegate)	:	CreatedOnBehalf...	Lookup	No
Created On	:	CreatedOn	Date and time	No

We will now explore the new Table creation process.

13. Select the **New button > Table > Table (advanced properties)** to create the Inspection table



14. Enter a **Display Name** of *Inspection*. Display names should always be singular

15. The plural name is automatically populated but can be updated. Leave it as **Inspections**

16. Copy/paste the following into the description **description**:

This table contains records of vehicle inspections

17. Check **Enable attachments (including notes and files)**.

Properties Primary column

Display name *

Inspection

Plural name *

Inspections

Description

This table contains records of vehicle inspections

☒ Enable attachments (including notes and files) ¹

18. Select the **Primary Column** tab and set the display name to *Inspection Number* and optionally enter a description Change the maximum character count to 20.

19. Switch back to the **Properties** tab and expand **Advanced options**.

Properties Primary column

Display name *

Plural name *

Description

This table contains records of vehicle inspections

☐ Enable attachments (including notes and files) ¹

Advanced options ^

Schema name *

ppcc_ Inspection

20. Leave **Type** as the default **Standard** for the Inspection table.

Advanced options ^

Schema name *

ppcc_ Inspection

Type *

Standard

Standard


Activity

Virtual

Elastic

+ New image web resource

Color

 Enter color code

21. The **Record Ownership** cannot be changed after creation. Always default to using **(User or Team)**.

[Advanced options](#) ^

Schema name *

ppcc_ Inspection

Type *

Standard

Record ownership *

User or team

User or team

Organization

+ New image web resource

Color

Enter color code

22. There are various **options** that can be enabled for a table. Some options can't be turned off once enabled, including the **Enable attachments (including notes and files)** option previously selected.

Refine how data in this table is used and managed. Options marked with ¹ can't be turned off if enabled. [Learn more](#)

For this table

- | | |
|---|--|
| <input checked="" type="checkbox"/> Apply duplicate detection rules ⓘ | <input type="checkbox"/> Audit changes to its data ⓘ |
| <input type="checkbox"/> Track changes ¹ ⓘ | <input type="checkbox"/> Leverage quick-create form if available ⓘ |
| <input type="checkbox"/> Provide custom help ⓘ | <input type="checkbox"/> Enable long term retention ⓘ |
| Help URL
<input type="text"/> | <input type="checkbox"/> Enable recycle bin ⓘ |

Make this table an option when

- | | |
|---|--|
| <input type="checkbox"/> Creating a new activity ¹ ⓘ | <input type="checkbox"/> Setting up SharePoint document management ⓘ |
| <input checked="" type="checkbox"/> Doing a mail merge ⓘ | |

Rows in this table

- | | |
|---|--|
| <input type="checkbox"/> Can have connections ¹ ⓘ | <input type="checkbox"/> Appear in search results |
| <input type="checkbox"/> Can have a contact email ¹ ⓘ | <input type="checkbox"/> Can be taken offline ⓘ |
| <input type="checkbox"/> Have an access team ⓘ | <input type="checkbox"/> Can be added to a queue ¹ ⓘ |
| <input type="checkbox"/> Can be linked to feedback ¹ ⓘ | <input type="checkbox"/> When rows are created or assigned, move them to the owner's default queue |

23. Uncheck default options such as **Apply duplicate detection rules** and **Doing a mail merge** unless you know from the start you need it (we will not need it for Inspection).

Refine how data in this table is used and managed. Options marked with ¹ can't be turned off if enabled. [Learn more](#)

For this table

☐ Apply duplicate detection rules ¹ ⓘ

☐ Track changes ¹ ⓘ

☐ Provide custom help ⓘ

Help URL

☐ Audit changes to its data ⓘ

☐ Leverage quick-create form if available ⓘ

☐ Enable long term retention ⓘ

☐ Enable recycle bin ⓘ

Make this table an option when

☐ Creating a new activity ¹ ⓘ

☐ Doing a mail merge ⓘ

☐ Setting up SharePoint document management ⓘ

Rows in this table

☐ Can have connections ¹ ⓘ

☐ Can have a contact email ¹ ⓘ

☐ Have an access team ⓘ

☐ Can be linked to feedback ¹ ⓘ

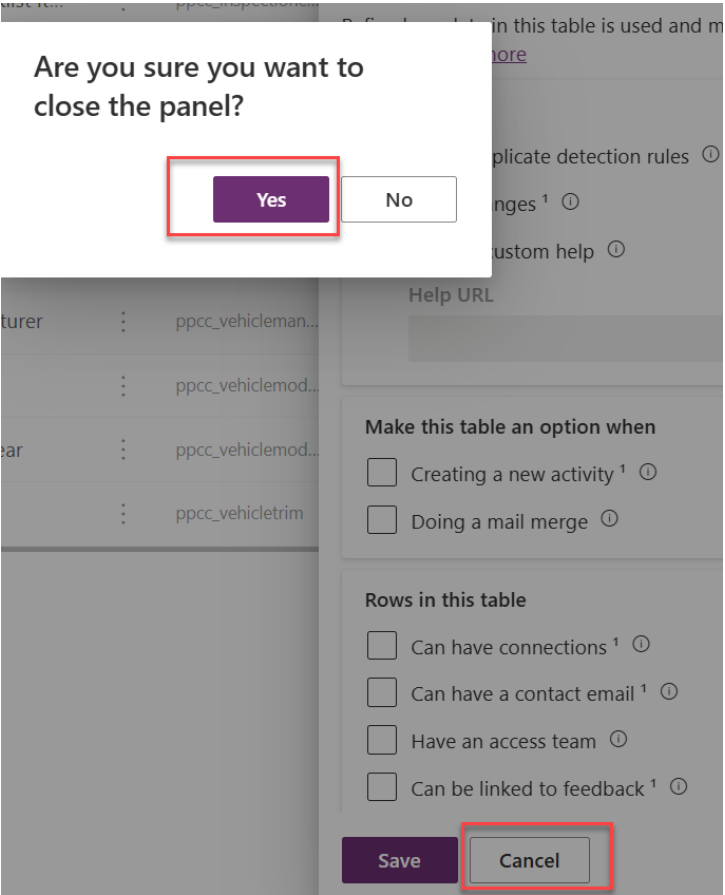
☐ Appear in search results

☐ Can be taken offline ⓘ

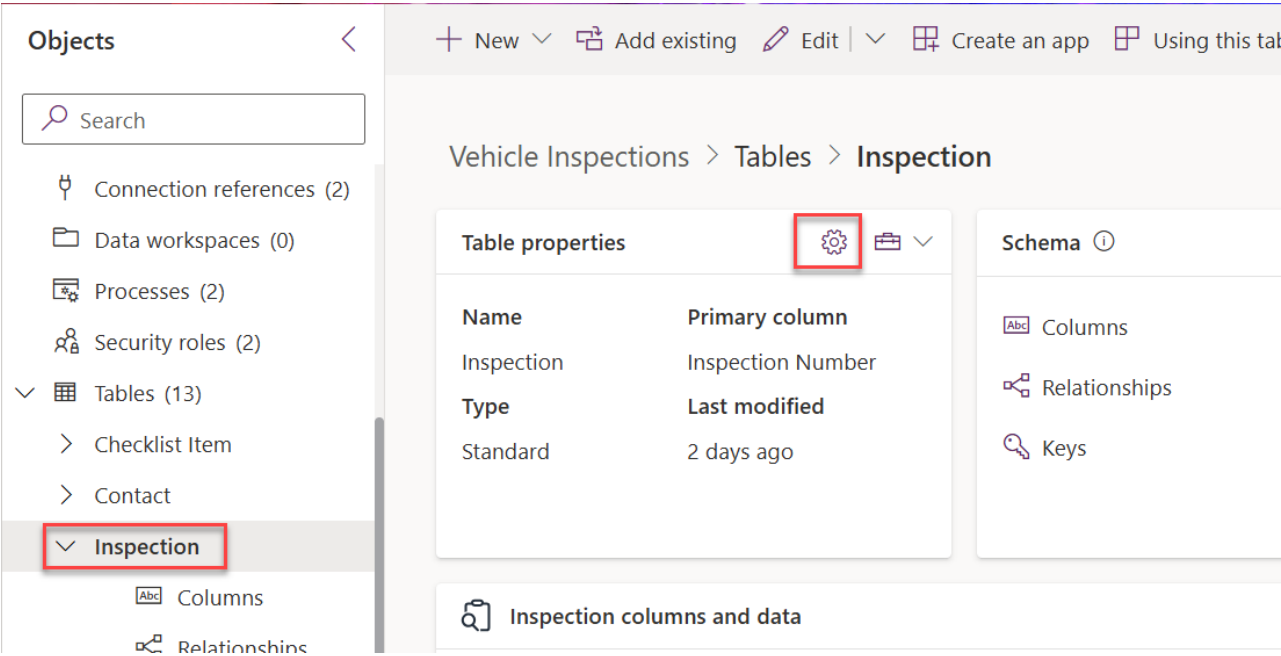
☐ Can be added to a queue ¹ ⓘ

☐ When rows are created or assigned, move them to the owner's default queue

24. Since Inspection is already created, we will stop here. Click **Cancel** , then Yes when prompted with Are you sure you want to close the panel?.



25. You can view/edit table settings for an existing table.



26. Settings such as the schema name, logical name, type, and ownership are not editable after creation.

Edit table ✕

Use tables to hold and organize your data. Previously called entities

[Learn more](#)

Properties Primary column

Display name *

Inspection

Plural name *

Inspections

Description

This table contains records of vehicle inspections

☒ Enable attachments (including notes and files) ¹

[Advanced options](#) ^

Schema name *

ppcc_inspection

Logical name

ppcc_inspection

Type *

Standard

Record ownership *

User or team

Choose table image

Inspection, ppcc_inspection

+ New image web resource

Color



Enter color code

Primary row image

None

Refine how data in this table is used and managed. Options marked with ¹ can't be turned off if enabled. [Learn more](#)

For this table

☒ Apply duplicate detection rules ⓘ

☐ Track changes ¹ ⓘ

☐ Provide custom help ⓘ

☐ Audit changes to its data ⓘ

☐ Leverage quick-create form if available ⓘ

☐ Enable long term retention ⓘ

27. You can view/edit up to 10 existing rows from the table screen.

28. Clicking **Add more rows** or **Edit** will open a full screen where you can work with an infinite scrolling list of records.

Inspection columns and data

Update forms and views

Edit

Created By	Created On	Modified On	Inspection Number	Inspection Type	Vehicle
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0011-202509030329	Safety Inspection	2019 BMW 3 Series (Nancy And...
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0018-202509030334	Safety Inspection	2013 Honda Accord (Patrick San
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0019-202509030334	Comprehensive Inspection	2005 Hyundai Elantra (Paul Canr
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0021-202509030334	Comprehensive Inspection	2016 Nissan Altima (Robert Lyor
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0023-202509030335	Comprehensive Inspection	2017 Volkswagen Golf (Sidney H
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0024-202509030335	Safety Inspection	2023 Toyota Camry (Scott Koner
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0025-202509030335	Comprehensive Inspection	2018 Mercedes-Benz C-Class (Ru
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0026-202509030335	Safety Inspection	2010 Chevrolet Malibu (Susanna
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0027-202509030335	Comprehensive Inspection	2006 Nissan Maxima (Paul Cann
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0028-202509030335	Safety Inspection	2015 Hyundai Sonata (Nancy Ar

+ 13 additional rows

Add more rows

Back

New row

New column

Refresh

Create an app

Edit table properties

Update form

Inspections

Created By	Created On	Modified On	Inspection Number	Inspection Type	Vehicle
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0001-202509030211	Safety Inspection	2012 Toyota Corolla (Jim Glynn)
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0002-202509030229	Safety Inspection	2006 Nissan Maxima (Paul Cannon)
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0010-202509030329	Comprehensive Inspection	2014 Audi A4 (Jim Glynn)
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0011-202509030329	Safety Inspection	2019 BMW 3 Series (Nancy Ander...
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0015-202509030331	Comprehensive Inspection	2014 Audi A4 (Jim Glynn)
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0016-202509030333	Safety Inspection	2019 BMW 3 Series (Nancy Ander...
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0017-202509030334	Comprehensive Inspection	2020 Chevrolet Silverado (Maria C...
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0018-202509030334	Safety Inspection	2013 Honda Accord (Patrick Sands)
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0019-202509030334	Comprehensive Inspection	2005 Hyundai Elantra (Paul Cannon)
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0020-202509030334	Safety Inspection	2009 BMW X5 (Susan Burk)
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0021-202509030334	Comprehensive Inspection	2016 Nissan Altima (Robert Lyon)
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0022-202509030334	Safety Inspection	2012 Toyota Corolla (Thomas And...
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0023-202509030335	Comprehensive Inspection	2017 Volkswagen Golf (Sidney Hig...
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0024-202509030335	Safety Inspection	2023 Toyota Camry (Scott Koners...
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0025-202509030335	Comprehensive Inspection	2018 Mercedes-Benz C-Class (Ren...
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0026-202509030335	Safety Inspection	2010 Chevrolet Malibu (Susanna S...
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0027-202509030335	Comprehensive Inspection	2006 Nissan Maxima (Paul Cannon)
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0028-202509030335	Safety Inspection	2015 Hyundai Sonata (Nancy And...
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0029-202509030336	Comprehensive Inspection	2018 Ford C-Class (Maria Campbell)
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0030-202510030955	Comprehensive Inspection	2005 Hyundai Elantra (Paul Cannon)
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	1000-202510110635	Safety Inspection	2012 Toyota Corolla (Thomas And...
Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	1001-202510110637	Comprehensive Inspection	2012 Toyota Corolla (Thomas And...
				Select lookup	Select lookup

29. Columns can be shown or hidden in a couple different ways.

The screenshot shows the 'Inspections' table in a data management interface. The table has columns for 'Created By', 'Created On', 'Modified On', and 'Inspection Number'. A '+32 more' dropdown menu is visible in the top right corner of the table header. A dialog box titled 'Show existing column' is open, displaying a list of columns that can be shown or hidden. The dialog includes a search bar and a list of columns with checkboxes next to them. The columns listed are: (Select All), Created By, Created On, Modified On, Inspection Number (Primary) *, Inspection Type *, Vehicle *, (Deprecated) Stage Id, (Deprecated) Traversed Path, and Checklist Count. The 'Save' and 'Cancel' buttons are at the bottom of the dialog.

	Created By	Created On	Modified On	Inspection Number
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	000
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	000
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	000
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	001
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	001
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	001
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	001
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	001
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	001
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	002
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	002
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	002
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	002
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	002

Show existing column

This table has additional existing columns. Select from the list below to show.

Search

- ☐ (Select All)
- ☒ Created By
- ☒ Created On
- ☒ Modified On
- ☒ Inspection Number (Primary) *
- ☒ Inspection Type *
- ☒ Vehicle *
- ☐ (Deprecated) Stage Id
- ☐ (Deprecated) Traversed Path
- ☐ Checklist Count

Save Cancel

The screenshot shows the 'Table columns' dialog box open on the left side of the screen. The dialog has a search bar, a '+ New table column' button, and a checkbox for 'Show only unused table columns' which is checked. Below this, there is a list of columns that can be shown or hidden. The columns listed are: (Deprecated) Stage Id, (Deprecated) Traversed Path, Checklist Count (Last Updated...), Checklist Count (State), Completion Time, and Created By (Delegate). The 'Inspections' table is visible in the background on the right side of the screen. The table has columns for 'Created By', 'Created On', 'Modified On', and 'Inspection Number'. A '+31 more' dropdown menu is visible in the top right corner of the table header.

Table columns

Search

+ New table column



☒ Show only unused table columns





















- ☐ (Deprecated) Stage Id
- ☐ (Deprecated) Traversed Path
- ☐ Checklist Count (Last Updated...)
- ☐ Checklist Count (State)
- ☐ Completion Time
- ☐ Created By (Delegate)

Inspections



	Created By	Created On	Modified On
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:0
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:0
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:0
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:0
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:0
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:0










30. You can filter, sort, drag columns to change ordering, or hide the column.

 **Inspections** 

	 Created By 	 Created On 	 Modified On 	 Inspection Number *  	 Inspection Type * 
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0001-202509030211	 Edit column
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0002-202509030229	 Hide
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0010-202509030329	 Insert column
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0011-202509030329	 A to Z
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0015-202509030331	 Z to A
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0016-202509030333	 Filter by
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0017-202509030334	 Move left
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0017-202509030334	 Move right
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0018-202509030334	 Delete column

31. The column metadata/options can also be viewed/edited.

 **Inspection Type *** 

 Edit column
 Hide
 Insert column
 A to Z
 Z to A
 Filter by
 Move left
 Move right
 Delete column

Edit column

Previously called fields. [Learn more](#)

Display name *

Inspection Type

Description ⓘ

Data type * ⓘ

Lookup

Required ⓘ

Business required

☒ Searchable ⓘ

☒ Allow form fill assistance (preview) ⓘ

Related table *

Inspection Type

Advanced options ^

Schema name * ⓘ

ppcc_InspectionTypeld

32. Selecting an existing row shows options to edit or delete the row.
Note: Be careful as to not accidentally Delete as this view does not prompt you to confirm deletions.

← Back

Insert row above

Insert row below

Edit row using form

Delete 1 record(s)

☰

Abc

Inspections

✎

	Created By <div>📅</div>	Created On <div>📅</div>	Modified On <div>📅</div>	Inspection Number* <div>📅</div>
	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0000-202507240307
<div><div><div></div></div></div>	Chris Piasecki	10/17/2025 10:02 PM	10/17/2025 10:02 PM	0001-202509030211

Columns

Next, we will explore how columns are created and a few of the most frequently used types.

- 33. Navigate to the *Inspection* table
- 34. Click **Columns** to view the existing list.

Objects

Search

All (35)

Agents (0)

Apps (0)

Cards (0)

Choices (5)

Cloud flows (2)

Connection references (2)

Data workspaces (0)

Processes (2)

Security roles (2)

Tables (13)

Checklist Item

Contact

Inspection

Columns

Relationships

Keys

New

Add existing

Edit

Create an app

Using this table

Import

Export

Advanced

Remove

Vehicle Inspections > Tables > Inspection

Table properties

Name

Inspection

Type

Standard

Primary column

Inspection Number

Last modified

2 days ago

Schema

Columns

Relationships

Keys

Data experiences

Forms

Views

Charts

Dashboards

Customizations

Business rules

Commands

Row summary

Inspection columns and data

Update forms and views

Edit

Created by	Created On	Created By (Delegate)	
Chris Piasecki	10/17/2025 10:02 PM		
Chris Piasecki	10/17/2025 10:02 PM		
Chris Piasecki	10/17/2025 10:02 PM		
Chris Piasecki	10/17/2025 10:02 PM		

Search

All (35)

Agents (0)

Apps (0)

Cards (0)

Choices (5)

Cloud flows (2)

Connection references (2)

Data workspaces (0)

Processes (2)

Security roles (2)

Tables (13)

Checklist Item

Contact

Inspection

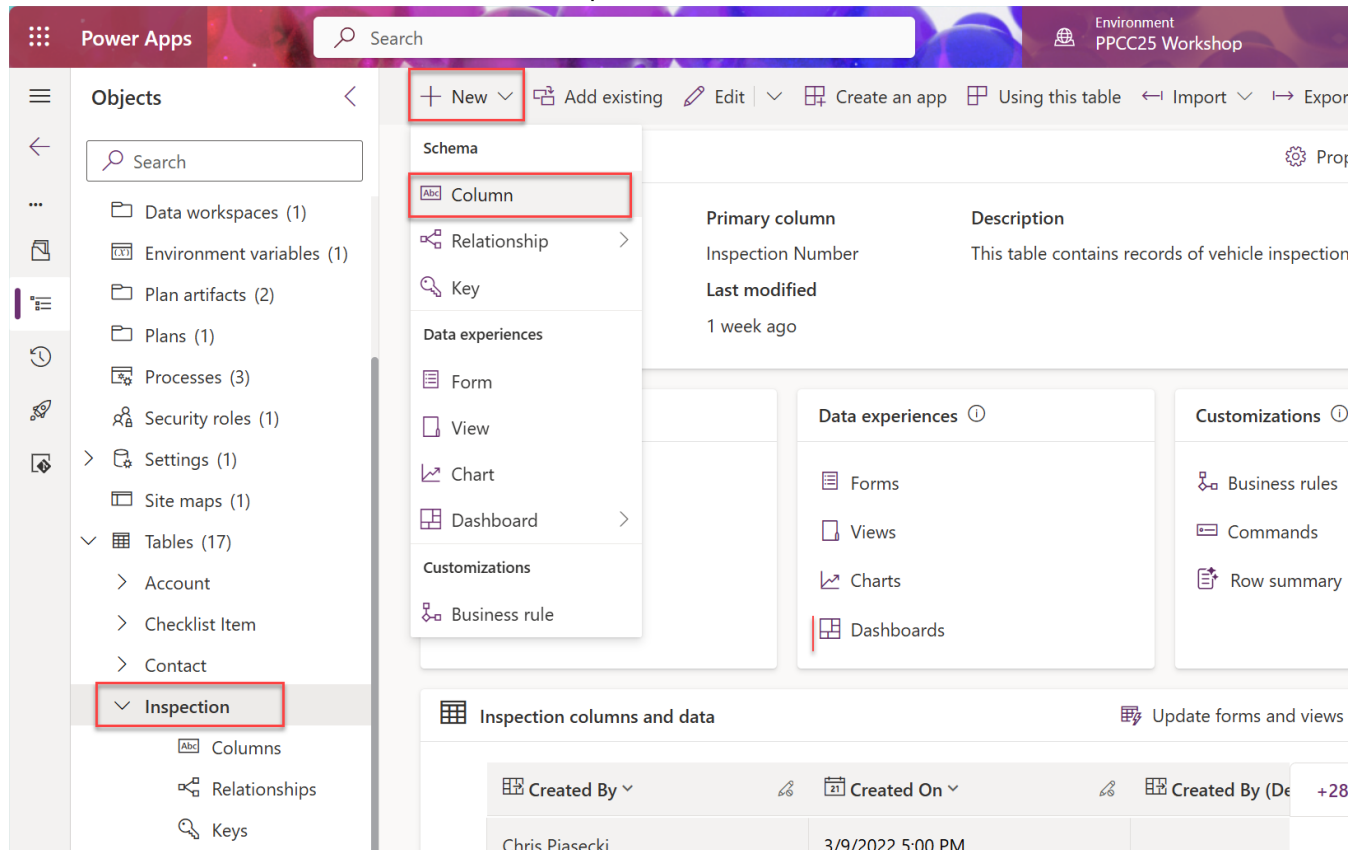
Columns

Vehicle Inspections > Tables > Inspection > Columns

Display name ↑	Name	Data type	Managed
(Deprecated) Stage Id	stageid	Unique identifie	No
(Deprecated) Traverse...	traversedpath	Single line of te	No
Checklist Count	ppcc_ChecklistC...	Whole number	No
Checklist Count (Last ...	ppcc_ChecklistC...	Date and time	No
Checklist Count (State)	ppcc_ChecklistC...	Whole number	No
Completion Time	ppcc_Completio...	Date and time	No
Created By	CreatedBy	Lookup	No
Created By (Delegate)	CreatedOnBehalf...	Lookup	No
Created On	CreatedOn	Date and time	No

18

35. To create a new column, select **+New** at the top of the screen,, then **Column**.



- Like Tables, you enter a **display name** which will appear in user interfaces.
- A **description** is always recommended to further clarify the purpose or provide instruction for data entry to the user. The description is displayed as a tooltip when you hover over the column in a model-driven app form.
- Selecting a **Data type** and **format** is the most important part of column creation. This cannot be changed after creation; you must create a new column if you want a different type.

New column

Previously called fields. [Learn more](#)

Display name *

Description ⓘ

Data type * ⓘ

Abc Single line of text ▼

🔍 Search

Type

- Abc Text
- 123 Number
- 📅 Date and time
- 🔍 Lookup
- 🗑 Choice
- 💰 Currency
- # Autonumber
- 📄 File
- fx Formula
- ⚡ Prompt (Preview)

Single line of text

- > Abc Plain text
- > Abc def Text area
- > A Rich text
- > 📧 Email
- 📞 Phone number
- 📈 Ticker symbol
- > 🔗 URL
- Multiple lines of text**
- Abc def Plain text
- A Rich text

Format

- The **Behavior** option is where you can select a non-default option such as *Calculated Column* or *Rollup* (if the data type supports it).

Data type * ⓘ

📅 Date and time ▾

Format *

📅 Date and time ▾

Behavior ⓘ

Simple ▾

Simple

Calculated

Rollup

Save Cancel

➡ Only available for some data types

New column

Previously called fields. [Learn more](#)

Display name *

Appointment Time

Description ⓘ

The scheduled date and time for the inspection.

Data type * ⓘ

 Date and time

Format *

 Date and time

Behavior ⓘ

Simple

Required ⓘ

Optional

☒ Searchable ⓘ

☒ Allow form fill assistance (preview) ⓘ

[Advanced options](#) ^

Schema name * ⓘ

ppcc_ AppointmentTime

Time zone adjustment *

User local

Input method editor (IME) mode *

Auto

Save

Cancel

36. Click **Cancel** and confirm **OK** to discard changes.

Relationships

When a Lookup column is created, a many-to-one (N:1) relationship is created between the table the column was added to and the related table option in the column setting.

You will now explore the other way of creating a relationship.

37. Navigate to the **Relationships** page for the *Inspection* table

The screenshot shows the Power Apps interface for the 'Inspection' table. The left sidebar shows the 'Objects' pane with 'Tables (17)' expanded, and 'Inspection' selected. Under 'Inspection', 'Columns' and 'Relationships' are listed, with 'Relationships' highlighted by a red box. The main pane shows the 'Table properties' for the 'Inspection' table. The 'Table properties' pane has a table with the following data:

Name	Primary column	Description
Inspection	Inspection Number	This table contains records of vehicle inspections
Type	Last modified	
Standard	1 week ago	

Below the 'Table properties' pane, there are three tabs: 'Schema', 'Data experiences', and 'Customizations'. The 'Schema' tab is active, showing 'Columns' and 'Relationships' (highlighted by a red box). The 'Data experiences' tab shows 'Forms', 'Views', 'Charts', and 'Dashboards'. The 'Customizations' tab shows 'Business rules', 'Commands', and 'Row summary'. At the bottom, the 'Inspection columns and data' pane shows a table with the following data:

Created By	Created On	Created By (De	+28 more
Chris Piasecki	3/9/2022 5:00 PM		

38. You will see the many-to-one relationships that were automatically created when the Lookup columns were created.

Power Apps

Search

Objects

Search

Data workspaces (1)

Environment variables (1)

Plan artifacts (2)

Plans (1)

Processes (3)

Security roles (1)

Settings (1)

Site maps (1)

Tables (17)

Account

Checklist Item

Contact

Inspection

Columns

Relationships

Keys

Forms

Views

+ New relationship

Add existing relationship

Advanced

Vehicle Inspections

Tables

Inspection

Relationships

Display name	Name	Related table	Relationship	Many-to-one
Vehicle	ppcc_inspection_...	Vehicle	Many-to-one	No
Type of Inspection	ppcc_inspection_...	Inspection Type	Many-to-one	No
Technician	ppcc_inspection_...	User	Many-to-one	No
Regarding Object Id	ppcc_inspection_...	Mailbox Auto Trackin...	One-to-many	No
Regarding	ppcc_inspection_...	Process Session	One-to-many	No
Regarding	ppcc_inspection_...	System Job	One-to-many	No
Regarding	ppcc_inspection_...	Sharepoint Document	One-to-many	No
Regarding	ppcc_inspection_...	Document Location	One-to-many	No
Record	ppcc_inspection_...	Sync Error	One-to-many	No
Ppcc_Inspection	bpf_ppcc_inspec...	Vehicle Inspection Pr...	One-to-many	No
Owning User	user_ppcc_inspec...	User	Many-to-one	No
Owning Team	team_ppcc_inspe...	Team	Many-to-one	No

Let’s look at how we would create a many-to-one relationship between *Inspection* and *Vehicle*.

Note: The relationship already exists – do not click Create/Save at the end

39. At the top of the screen, select **+New relationship**, then select **Many-to-one**

40. Enter in the relationship details:

- Table: *Vehicle*
- Lookup column display name: *Vehicle*
- Lookup column name: *VehicleId*
- Lookup column requirement: **Business Required**
- Relationship name: **inspection_VehicleId_ppcc_vehicle**

Many-to-one



Choose the **Related table** to which to create your relationship lookup. [Learn more](#)

Current (Many)

Table *

Inspection

Related (One)

Table *

Vehicle

* — 1

Lookup column display name *

Vehicle

Lookup column name *

ppcc_ VehicleId

Lookup column requirement *

Business Required

☒ Searchable

General

Relationship name *

ppcc_ inspection_VehicleId_ppcc_vehicle

Lookup column description

The vehicle to be inspected.

Advanced options

Related table display settings

Display option *

Use plural name

Custom label

Display area *

Details

Display order *

10000

41. Under Relationship behavior, configure the following:

- Type of behavior: **Custom**
- Delete: **Restrict**
- Assign: **Cascade None**
- Share: **Cascade None**
- Unshare: **Cascade None**
- Reparent: **Cascade None**

Relationship behavior

Type of behavior * ⓘ

Custom

Delete *

Restrict

Assign *

Cascade None

Share *

Cascade None

Unshare *

Cascade None

Reparent *

Cascade None

42. Click **Cancel** and **OK** in the confirmation dialog.

Column Mappings

To view column mappings, we must switch to the classic solution explorer as it has not been brought over to the modern maker experience.

43. At the top of the solution object tree, select All.

44. Select the **3 ellipses (...)** on the command bar, then **Switch to classic**.

The screenshot shows the Power Apps solution explorer interface. On the left, the 'Objects' pane is visible with a search bar and a list of object types: Agents (0), Apps (1), Cards (0), Choices (5), and Cloud flows (2). The 'All (38)' option is highlighted with a red box. On the right, the command bar shows '+ New', 'Add existing', 'Publish all customizations', and a three-dot menu. The three-dot menu is highlighted with a red box, and a 'Switch to classic' button is visible below it, also highlighted with a red box and a mouse cursor. The main area displays 'Vehicle Inspections > All' with a table of objects.

Display name ↑	Name	Type	Mana
Car	ppcc_Car	Web Resource (S...	No
Checklist	ppcc_Checklist	Web Resource (S...	No
Checklist Item	ppcc_checklistitem	Table	No

45. A new browser tab will open to the legacy solution explorer.

Power Apps

Try New Experience There's a better way to customize the system Try New Experience

File Save and Close Show Dependencies Export Solution Translations Publish All Customizations Actions

Solution: Vehicle Inspections

Information

Solution Vehicle Inspections

Component Type All

New Add Existing Delete Remove Publish Show Dependencies Solution Layers Add Required Components Managed Properties

Display Name	Name	Type	State	Customizable	Description
BR - Inspection - Lock Issues F...	BR - Inspection - Lock ...	Process	Unmanaged	True	Click to add description
BR - Inspection - Set Always Re...	BR - Inspection - Set A...	Process	Unmanaged	True	Sets fields that should always be required.
Checklist Item	ppcc_checklistitem	Entity	Unmanaged	True	
Checklist Item Condition	ppcc_checklistitemcon...	Option Set	Unmanaged	True	
Contact	contact	Entity	Managed	True	Person with whom a business unit has a relation...
Customer Decision	ppcc_customerdecision	Option Set	Unmanaged	True	
Dropped Off Time must be bef...	Dropped Off Time mu...	Process	Unmanaged	True	Click to add description

46. Under **Components** > **Entities** > **Inspection** > **N:1 Relationships**

47. Double click on the row with the **Display Name** of **Vehicle**

Inspection

N:1 Relationships

Solution Vehicle Inspections

Type: All

New Many-to-1 Relationship More Actions

Schema Name	Primary Entity	Related Entity	Type of Behavior
lk_ppcc_inspection_cre...	User	Inspection	System
lk_ppcc_inspection_m...	User	Inspection	System
lk_ppcc_inspection_m...	User	Inspection	System
owner_ppcc_inspection	Owner	Inspection	System
ppcc_inspection_Cust...	Contact	Inspection	Referential
ppcc_inspection_Inspe...	Inspection Type	Inspection	Referential
ppcc_inspection_Tech...	User	Inspection	Referential
ppcc_inspection_Vehic...	Vehicle	Inspection	Referential, Restrict De...
processstage_ppcc_Ins...	Process Stage	Inspection	System
team_ppcc_inspection	Team	Inspection	System
user_ppcc_inspection	User	Inspection	System

48. A dialog window will open with the relationship details.

49. On the left hand navigation, select **Mappings**

Power Apps

File | Save and Close | Show Dependencies | Solution Layers | Managed Properties

Relationship
Vehicle to Inspection

Common
Information
Mappings

General

Relationship Definition

Primary Entity* Vehicle Related Entity

Name* ppcc_inspection_VehicleId_ppcc_vehicle

Searchable Yes

Hierarchical No

50. Existing mappings will be listed. By default a mapping is added between the Id column of the parent table in the relationship and the lookup column on the child table.

51. Click **New** to open the dialog to set up a new mapping.

Relationship
Vehicle to Inspection

Working on solution: Vehicle Inspections

Common
Information
Mappings

New | X | More Actions

Source Name	Source Display Name	Target Name	Target Display Name
ppcc_vehicleid	Vehicle	ppcc_vehicleid	Vehicle

52. Select the following

- Source: **Contact**
- Target: **Customer**
- Click **OK** to create the mapping

Create Field Mapping From Vehicle to Inspection

Create field mapping.

Source Entity Fields

Name	Display Name	Type (Size)
<input checked="" type="checkbox"/> ppcc_contact	Contact	Lookup
<input type="checkbox"/> ppcc_licenseplate	License Plate #	Single Line of Text(10)
<input type="checkbox"/> ppcc_makeid	Make	Lookup
<input type="checkbox"/> ppcc_modelid	Model	Lookup

1 - 28 of 28 (1 selected)

Target Entity Fields

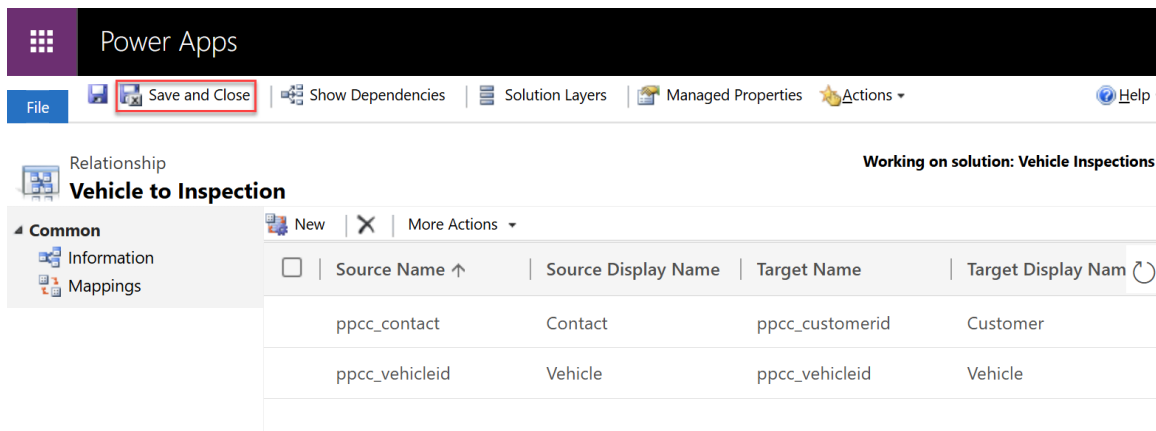
Name	Display Name	Type (Size)
<input type="checkbox"/> ownerid	Owner	Owner
<input type="checkbox"/> ppcc_appointmenttime	Scheduled T...	Date and Time
<input type="checkbox"/> ppcc_completiontime	Completion T...	Date and Time
<input checked="" type="checkbox"/> ppcc_customerid	Customer	Lookup

1 - 22 of 22 (1 selected)

Help | OK | Cancel

53. You will see the new mapping show in the list.

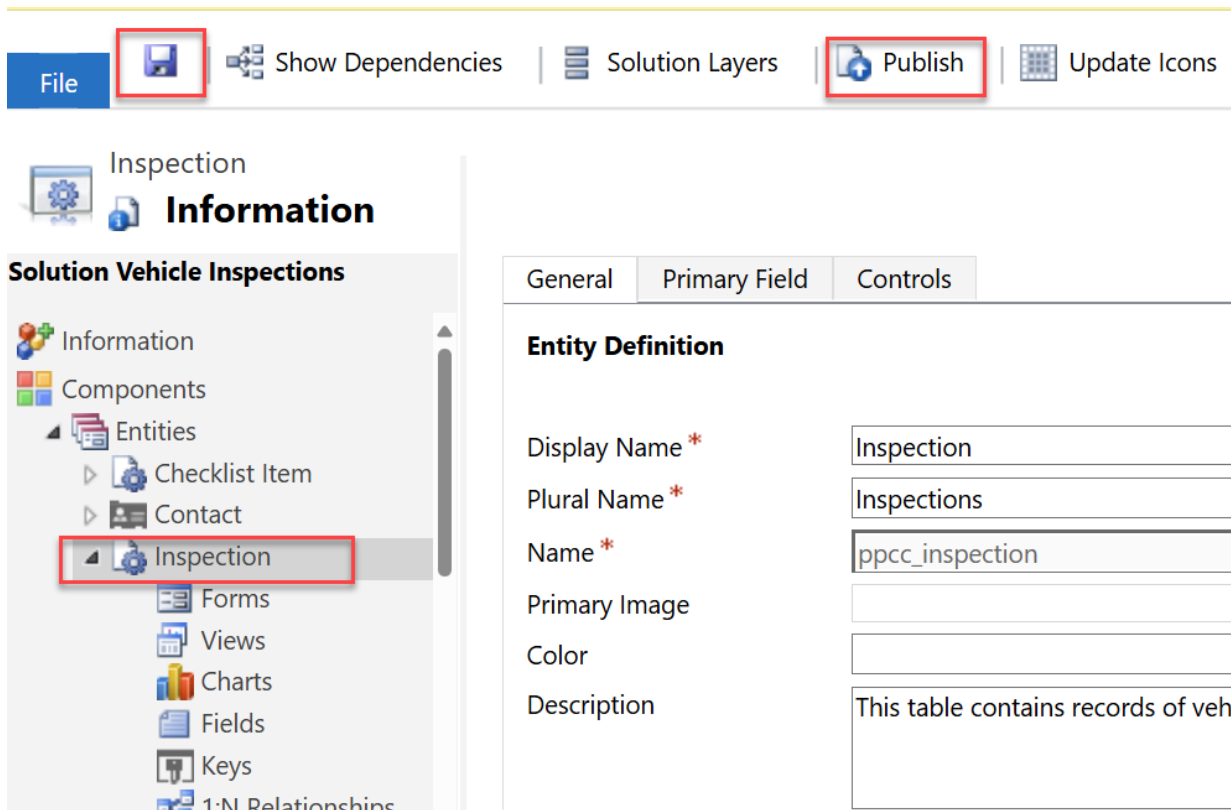
54. Click **Save & Close**.



55. Back in the solution explorer, select the **Inspection** entity.

56. Click the **Save** (floppy disk) icon.

57. Select **Publish**.



58. Once the **Publishing Customizations** message clears, you can close the solution explorer.

59. In the modern solution select **Apps**.

60. Select the row for **Vehicle Inspection Management**.

61. Click **Play** on the top of the command bar.

62. The model-driven app will open in a new browser tab.

63. Navigate to **Vehicles**.

64. Open any existing row.

The screenshot shows a web application interface. On the left is a sidebar menu with options: Home, Recent, Pinned, New Group, Contacts, Inspections, Repair Quotes, and Vehicles (highlighted with a red box). The main area displays a table titled 'Active Vehicles'. The table has columns: Name, Year, and Make. The first row is '1994 Audi A4 (Jim Glynn)' (highlighted with a red box), 1994, Audi. Other rows include '2004 Audi Q5 (Sidney Higa)', '2005 Hyundai Elantra (Paul ...)', '2006 Nissan Maxima (Paul ...)', and '2008 Mercedes-Benz E-Clas...'. The top of the main area has a toolbar with 'Show Chart', 'New', 'Delete', and 'Refresh' buttons.

Name	Year	Make
1994 Audi A4 (Jim Glynn)	1994	Audi
2004 Audi Q5 (Sidney Higa)	2004	Audi
2005 Hyundai Elantra (Paul ...)	2005	Hyund
2006 Nissan Maxima (Paul ...)	2006	Nissan
2008 Mercedes-Benz E-Clas...	2008	Merce

65. Select the **Related** tab, then **Inspections**.

The screenshot shows the details page for '1994 Audi A4 (Jim Glynn) - Saved'. Below the title is a 'Vehicle' section. There are two tabs: 'General' and 'Related' (selected, with a red box around it). A dropdown menu is open for the 'Related' tab, showing two sections: 'Related - Common' and 'Related - Process Sessions'. Under 'Related - Common', there are three options: 'Activities', 'Audit History', and 'Inspections' (highlighted with a red box). Under 'Related - Process Sessions', there is one option: 'Background Processes'. The background shows a table with columns 'Name', 'Owner', and 'Status'.

1994 Audi A4 (Jim Glynn) - Saved

Vehicle

General Related

Related - Common

- Activities
- Audit History
- Inspections

Related - Process Sessions

- Background Processes

66. Click **+New Inspection**.

1994 Audi A4 (Jim Glynn) - Saved

Vehicle

General

Inspections

Related

▼

Show Chart

+ New Inspection

Add Existing Inspection

Inspection Associated View ▼

67. The target fields from the two column mappings are automatically populated with the value from the parent Vehicle.

New Inspection

Chris Piasecki

Owner

General

Timeline

Checklist

Admin

Form assi

DETAILS

Inspection Number

*

Inspection Type

*

🔍

Customer

*

🔍 Jim Glynn

×

🔍

Vehicle

*

🔍 1994 Audi...

×

🔍

Scheduled Time

🗓

Technician

🔍

VEHICLE INFORMATION

Make

*

🔒

🔍 Audi

Model

*

🔒

🔍 A4

Year

*

🔒

🔍 1994

Trim

🔒

🔍 Premium

Color

🔒

Black

VIN

🔒

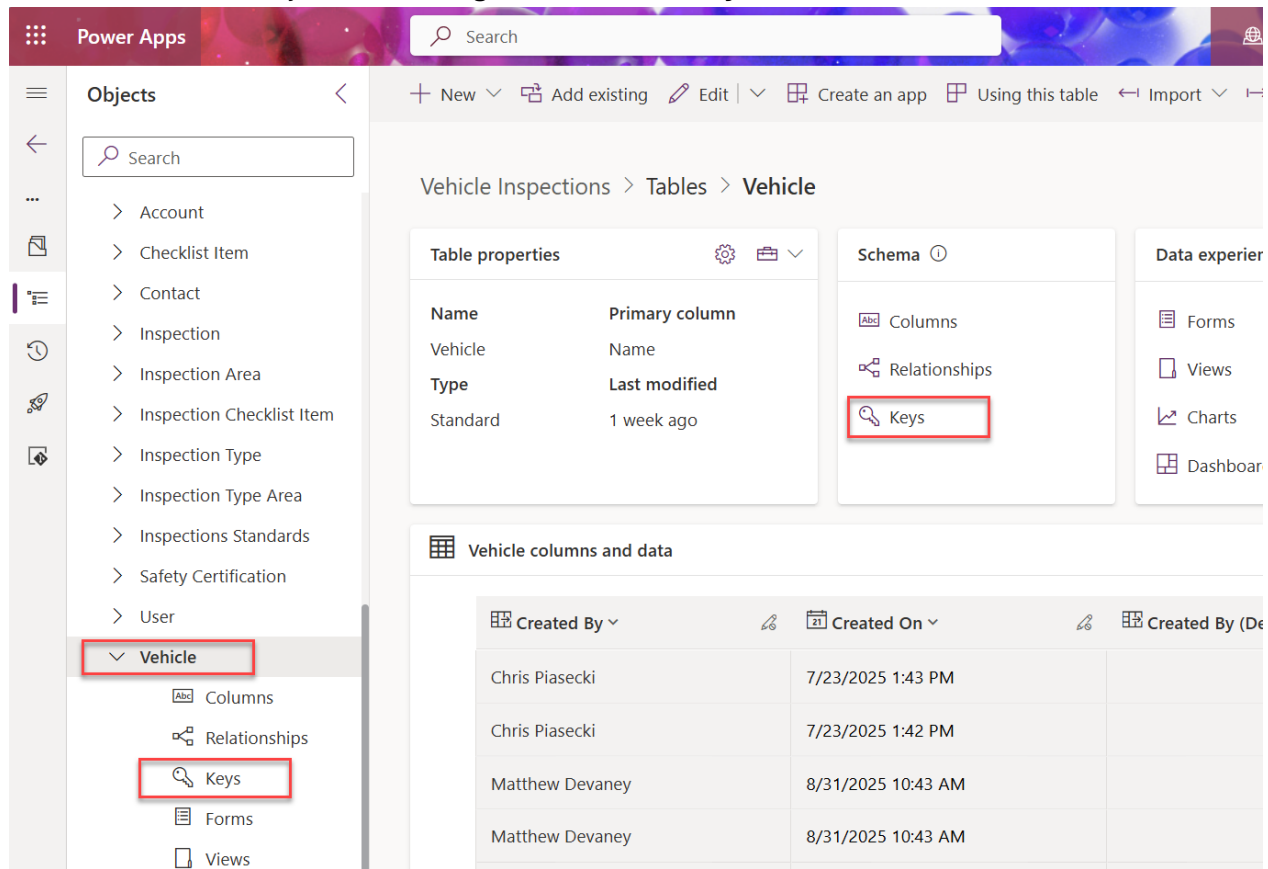
2G1FG3D33C91...

68. Click the back button without saving.

(Alternate) Keys

Now we want to add an alternate key to enforce uniqueness across records, prevent duplication, and overall improve data quality.

69. Under the Solution Objects tree, navigate to **Vehicle > Keys**.



70. At the top of the screen, select **+New Key**

71. Enter the following details then click save.

- Display Name: **VIN Key**
- Name: **VINKey**
- Columns: **VIN**

72. Once the key is saved, it will initially have a status of **Pending**. A background job creates the index in the database and indexes the rows.

+ New key Add existing key Refresh Advanced							Search
Vehicle Inspections > Tables > Vehicle > Keys							
Display name	Name	Columns	Managed	Customized	Customizable	Status	
VIN Key	ppcc_vinkey	VIN	No	Yes	No	Pending	

73. Once the indexing job is completed successfully, the status should change to **Active**.

New key

Add existing key

Refresh

Advanced

Search

Vehicle Inspections > Tables > Vehicle > Keys

Display name <div></div>		Name <div></div>	Columns <div></div>	Managed <div></div>	Customized <div></div>	Customizable <div></div>	Status <div></div>
VIN Key	<div></div>	ppcc_vinkey	VIN	No	Yes	No	Active