✓ 100 XP



Exercise - Create custom tables and columns

20 minutes

In this exercise, you'll create a new custom table named Machine Order, and you'll add columns that are necessary for tracking the machine requests. You'll also create a server-side business rule that will default the estimated ship date.

(!) Note

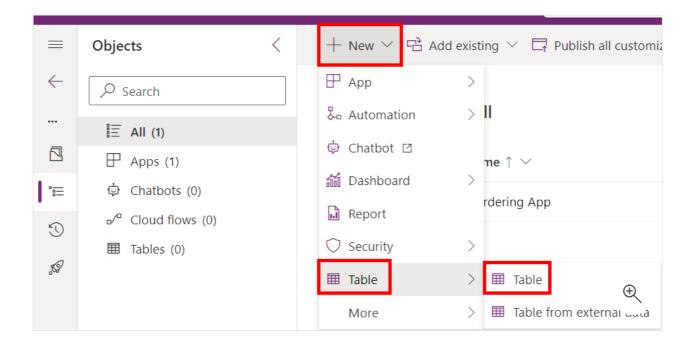
To complete the exercises, you'll need to use a few files. Download the App in a Day for use in this module. The file folders that are in this download include:

- Completed modules with instructions Package files to import the completed exercise steps.
- Machine-Order-Data.xlsx File used in the exercises.

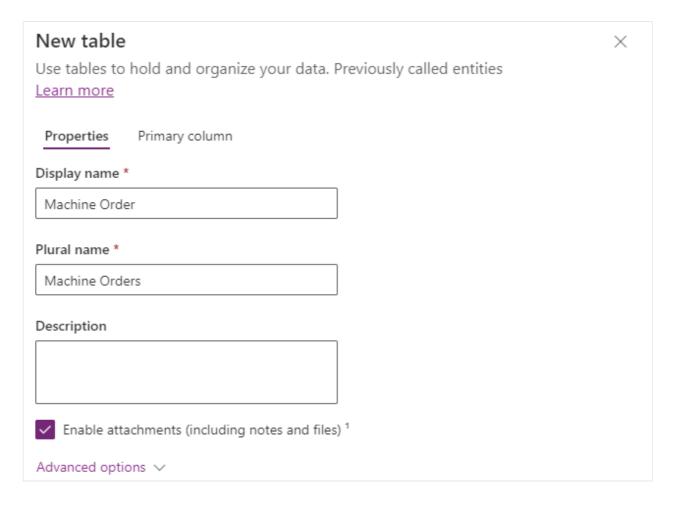
Task - Create a custom table

In this task, you'll create a custom table to store machine order requests.

- 1. Select **Solutions** and then open the **Contoso Coffee** solution.
- 2. Select New and then select Table.

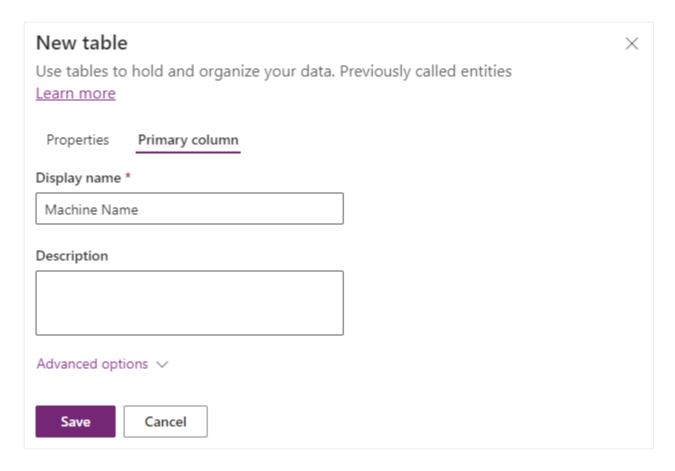


3. Enter Machine Order in the Display name field. The Plural name field will automatically populate based on your entry in the Display name field. These fields are editable if you need to make changes. The system uses the plural name by default whenever a set of rows are shown. Select the Enable attachments option because it will allow you to create notes on the machine order.



4. Select the **Primary column** tab.

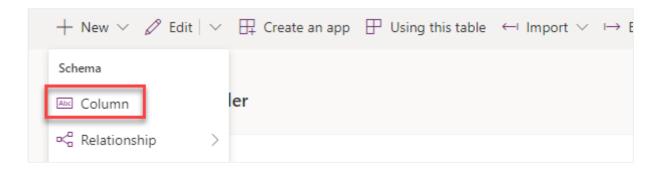
- 5. Change the **Display name** field to **Machine Name**. The **Primary** column will default to being named **Name**. For some scenarios, that label might not be the best one, so you can customize it if needed. However, the **Primary** column is always a text column that isn't changeable.
- 6. Select Save.



Task - Create custom columns

In this task, you'll create custom columns for the Machine Order table. It might take a few minutes for your new Machine Order table to provision. Begin these steps after it has finished.

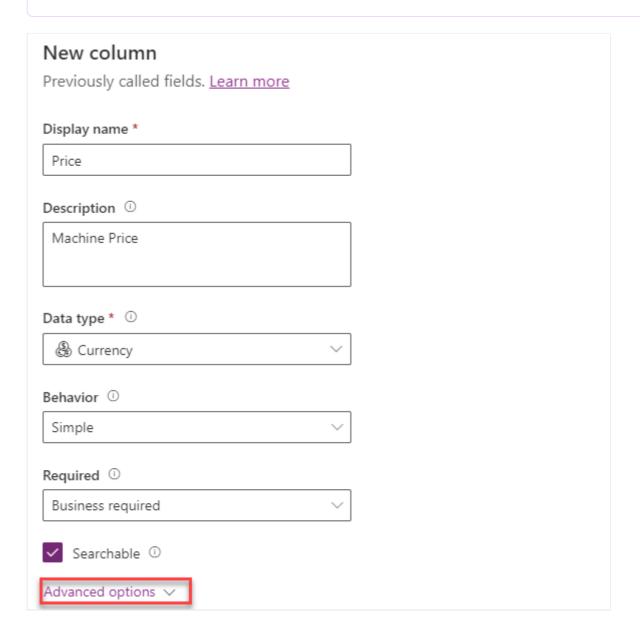
- 1. Select to open the Machine Order table that you created.
- 2. Select New and then select Column.



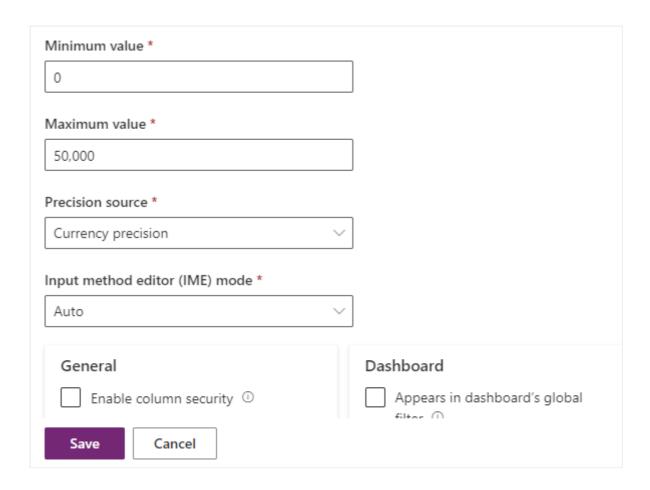
3. Enter **Price** in the **Display name** field, enter **Machine Price** in the **Description** box, and then select **Currency** from the **Data type** dropdown menu. From the **Required** dropdown menu, make the column **Business Required**. Select the **Searchable** option and then select **Advanced options**.

① Note

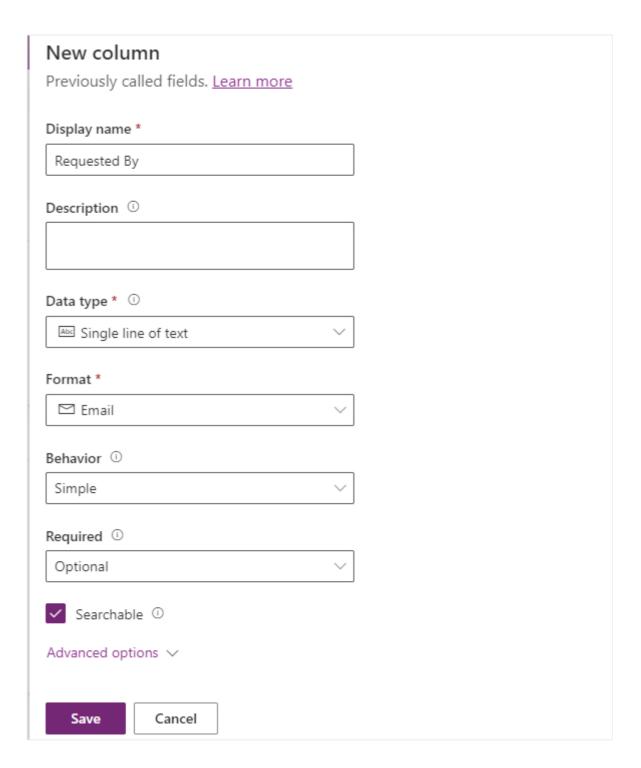
Currency is a special data type that allows you to build multi-currency solutions. For each currency column that you add, another currency column will be added with the prefix _Base on the name. This column stores the calculation of the value of the currency column that you added and the base currency. For more information, see Using currency fields.



4. Enter **0** in the **Minimum value** field, enter **50000** in the **Maximum value** field, and then select **Save**.



- 5. Select **New** and then select **Column** again.
- 6. Enter Requested By in the Display name field, select Single line of text from the Data type dropdown menu, select Email from the Format dropdown menu, make the column Searchable, and then select Save.

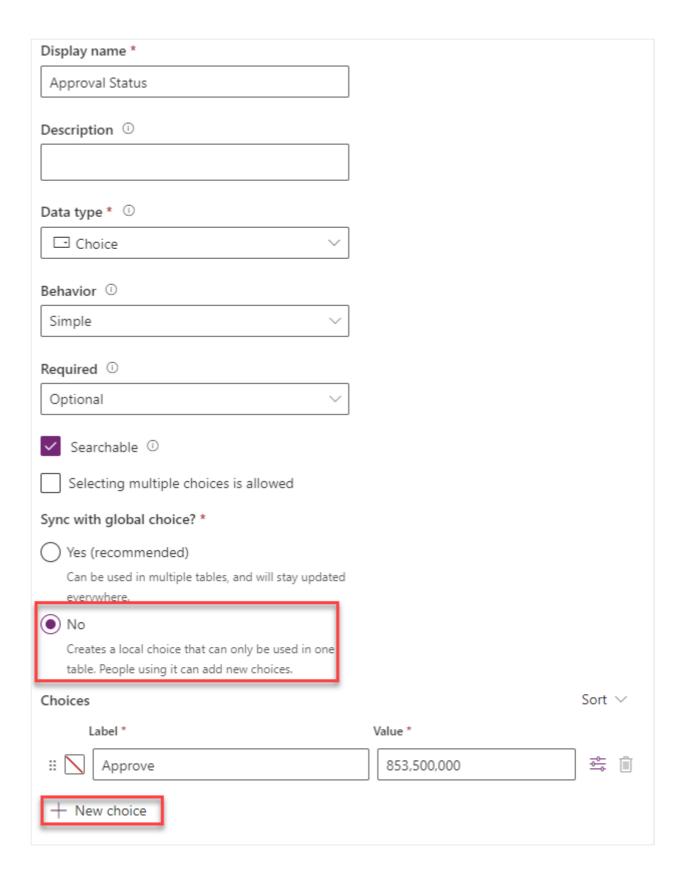


7. Repeat the **Add column** process and add the following columns:

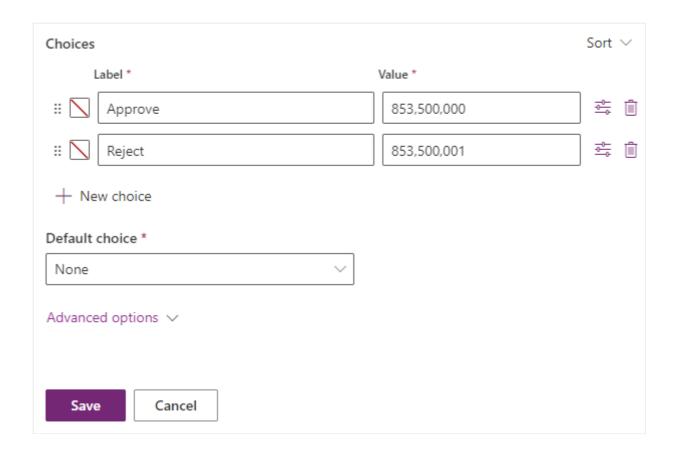
| Display name | Data type | Format |
|---------------------|------------------------|-----------|
| Request Date | Date and time | Date only |
| Approver | Single line of text | Email |
| Comments | Multiple lines of text | Text |
| Estimated Ship Date | Date and time | Date only |

| Display name | Data type | Format |
|---------------|---------------|-----------|
| Approved Date | Date and time | Date only |

- 8. Now, you'll create the **Approval Choice**. You're adding it as a choice (as opposed to a two-option) because users will likely have more than **Yes/No** options to choose from. Select **New** and then select **Column**.
- 9. Enter **Approval Status** in the **Display name** field, select **Choice** from the **Data type** dropdown menu, select **No** beneath the **Sync with global choice** option, enter **Approve** in the **Label** field, and then select **New choice**.



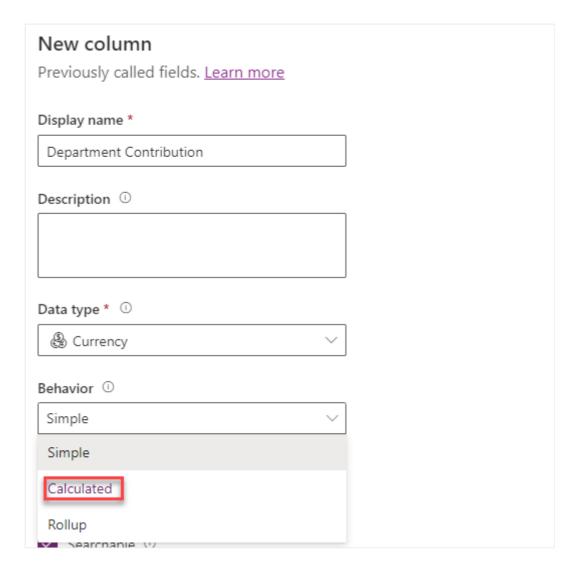
10. Enter **Reject** in the **Label** field and then select **Save**.



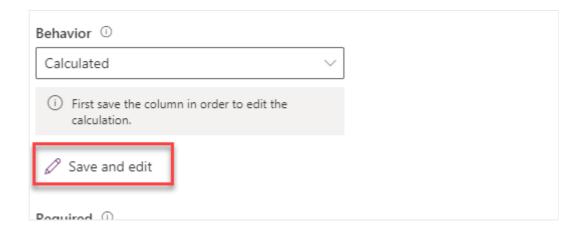
Task - Create a calculated column

In this task, you'll add a **Department Contribution** column and set its value to 10 percent of the price. In this scenario, this amount will come from the department manager's budget. Calculated columns are special columns that automatically perform the calculation when the data is retrieved. When you create or modify a calculated column, you're setting the formula that's used in the calculation.

- 1. Select **New** and then select **Column**.
- 2. Enter **Department Contribution** in the **Display name** field, select **Currency** from the **Data type** dropdown menu, and then select **Calculated** from the **Behavior** dropdown menu.



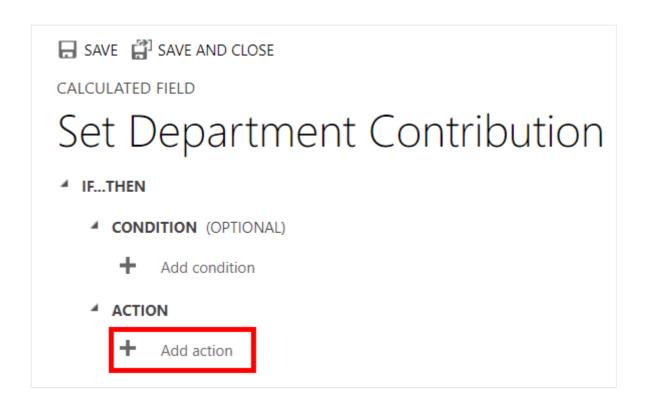
3. Select Save and edit.



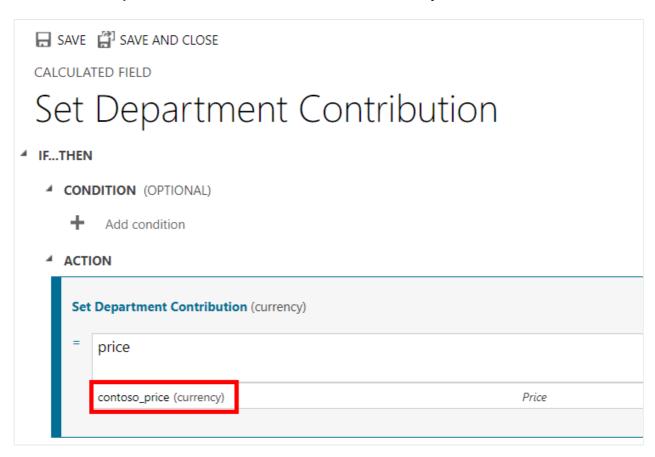
4. If you haven't yet allowed pop-up windows from Power Apps, you'll be prompted to do so now.



5. Select Add action.



6. Enter the word **price** and then select the **Price** column that you created.



7. Add an asterisk (*) and 0.1 as a suffix (*0.1) and then select the **check mark** button.



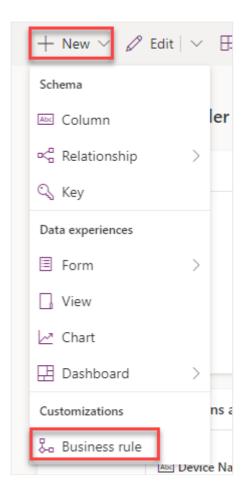
8. Select Save and Close.



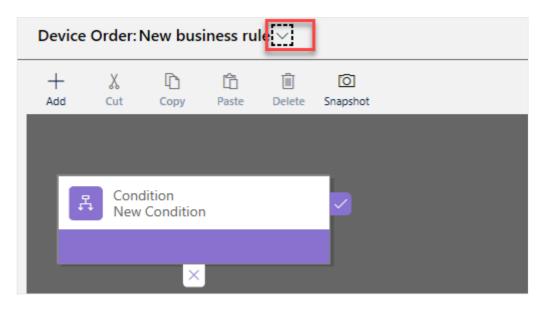
Task - Create a business rule

In this task, you'll create a business rule that will set the Estimated Delivery Date to 14 days after the order has been approved.

1. Select New and then select Business rule.



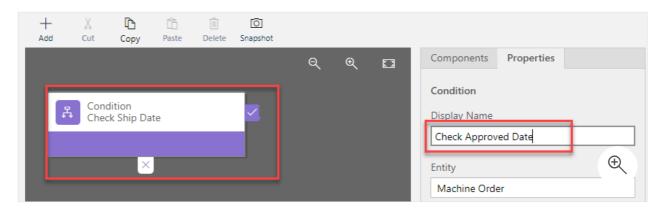
2. Select the arrow to **Show Details**.



3. Change the **Business rule name** to **Calculate Ship Date**. You can add a description as well like "Set the ship date to 14 days". Then select the arrow to **Hide Details**.

| Machine Order: New business rule ^ | | | |
|------------------------------------|---------------------|--|--|
| Business rule name | Calculate Ship Date | | |
| Description | | | |
| Set the ship date to 14 days | | | |

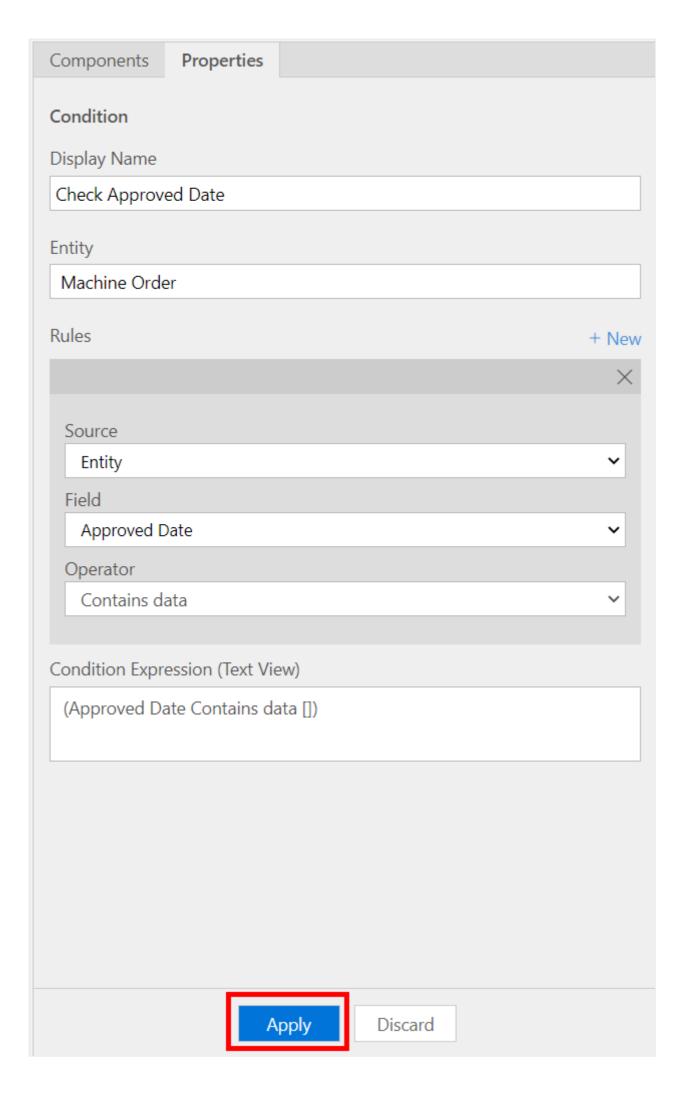
4. Select the Condition and then change the Display name to Check Approved Date.



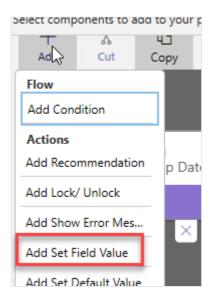
5. In the **Rules** section, select **Entity** from the **Source** dropdown menu, select **Approved Date** from the **Field** dropdown menu, select **Contains data** from the **Operator** dropdown menu, and then select **Apply**.

① Note

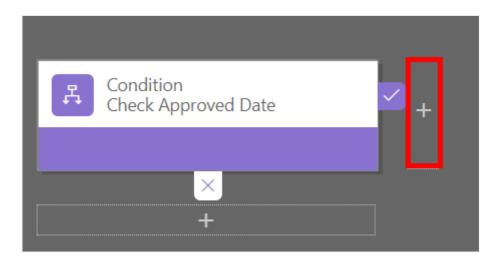
You might need to scroll down to the bottom of all scroll bars for the **Apply** button. Make sure that you select **Apply** after any change to the properties; otherwise, they will revert to the prior value. The **Business Rule (Text View)** will automatically update after you select **Apply** when you're done modifying the rule.



6. Select Add and then select Add Set Field Value.

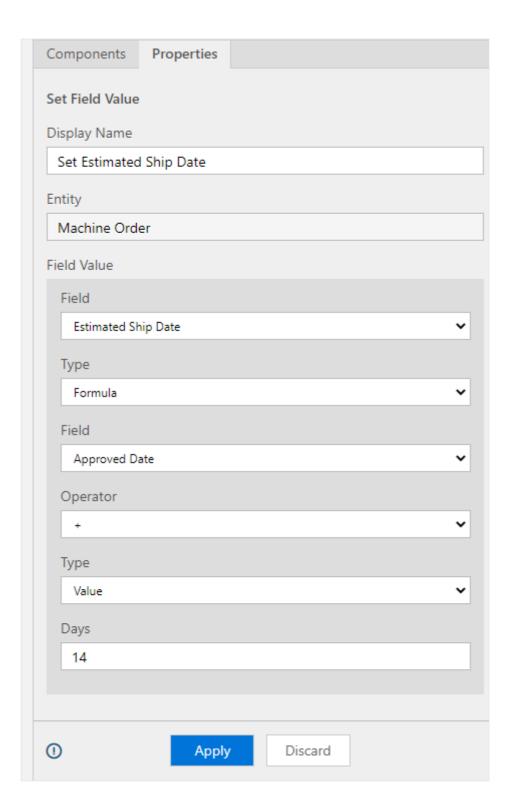


7. Select the true side of the condition.

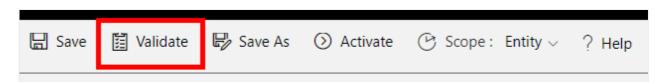


- 8. Enter the following information in the Set Field Value **Properties** pane:
 - Display name field Set Estimated Ship Date
 - Field dropdown menu Estimated Ship Date
 - Type dropdown menu Formula
 - Second Field dropdown menu Approved Date
 - Operator dropdown menu plus (+) sign
 - Second Type dropdown menu Value
 - Days field 14

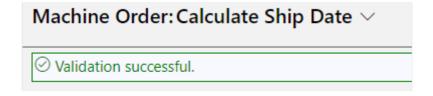
Select **Apply** when you're finished.



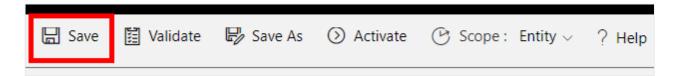
9. Select Validate.



10. Make sure that the validation succeeds.



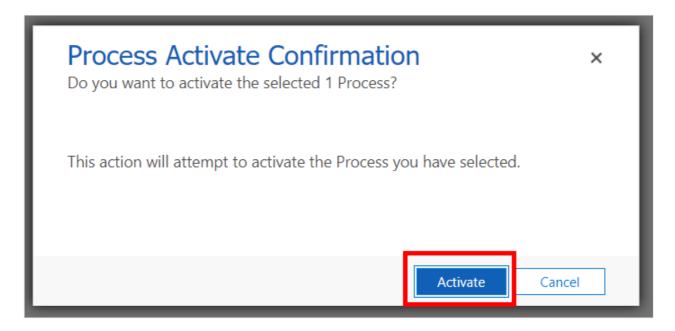
11. Select Save.



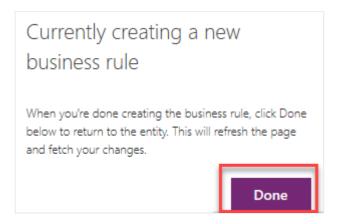
12. Select Activate.



13. Confirm activation. Business rules only run when they're activated. In the future, to make changes to rules, you'll need to deactivate them, make the change, and then reactivate the rule.



- 14. Close the process editor browser window or tab.
- 15. Select **Done**. The list should refresh and show the business rule that you created.



(i) Important

Don't navigate away from this page.

Next unit: Exercise - Connect data from the canvas app

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