

Module 2: Work with Dataverse

Scenario

You are a functional consultant for your organization Contoso. You are assigned to work on a project for your client Fabrikam. Fabrikam would like to encourage their employees to continuously learn. They want to build an application that allow a small set of employees to create knowledge assessments and then make them available to all employees to test their knowledge. The employees need to be able to pick an assessment and quickly complete it in just a few minutes. In this practice, you will be creating a data model to support the applications.

Working with the client, you have determined the following basic needs for storing data:

- A Knowledge Assessment table will represent the actual assessment and contain one or more questions from a Knowledge Question table
- A Knowledge Test Result table will track when employees take an assessment
- The employee who took the assessment will be tracked using the existing Common Data Model (CDM) User table
- The existing Common Data Model (CDM) Feedback table will be used to allow employees to express their opinions on the assessment

Exercise 1 – Create the Knowledge Assessment Table

In this exercise, you will be creating the Knowledge Assessment table and its columns. Knowledge Assessment will be a new custom table you create. You also enable the feedback option for this table, this will cause the system to create the relationship between Knowledge Assessment and the CDM Feedback table.

Task 1 – Create a table

1. Navigate to <https://make.powerapps.com>.
2. Make sure you are in the **Right** environment you created.
3. Select **Solutions**.
4. Click to open the **Assessment**.
5. Click **+New** and select **Table > Table**.
6. Enter **Knowledge Assessment** for **Display Name** in the **Properties** section. Click on the **Primary Column** tab and enter **Title** for **Display Name**.
7. Select **Enable Attachments**.
8. Click to expand **Advanced options** under the **Properties** section and scroll to **Rows in this table** section.

9. Check the **Can be linked to feedback** checkbox.
10. Click **Save**. It may take a few minutes for your table to be created.
11. Once the table is created it will be listed in the **All** screen , Select the table **Knowledge Assessment** and click **+New column** from the top menu.
12. Enter **Start Date** for **Display Name** and select **Date and time > Date Only** for **Data Type**.
13. Click **Save**.
14. Click **+New column** again.
15. Enter **End Date** for **Display Name** and select **Date and time > Date Only** for **Data Type**.
16. Click **Save**.
17. You will now add an **Choice** type column. Click **+New column**.
18. Enter **Difficulty** for **Display Name** and select **Choice** for **Data Type**.
19. Under **Sync this choice with**, select **New Choice**.
20. Enter **Difficulty** for **Display Name**.
21. Enter **Beginner** for **Item 1** and click **+New choice**.
22. Enter **Intermediate** for **Item 2** and click **+New choice**.
23. Enter **Advanced** for **Item 3** and click **Save**.
24. Select **Difficulty** from drop-down for **Sync this choice with** and then select **Beginner** for the **Default choice**.
25. Click **Save** at the bottom of the screen.

Task 2 – Create a calculated column

1. Click **+New column**.
2. Enter **Days Remaining** for **Display Name** and select **Number > Whole Number** for **Data Type**.
3. Click **Advanced Options**.
4. Enter **0** for **Minimum Value** and **1000** for **Maximum Value**.
5. Select **Calculated** from **Behavior drop-down**.
6. Click **Save and edit**. A pop-up window should appear allowing you to configure the calculation. (You may need to disable a pop-up blocker.)
7. A new browser opens click **+ Add Action**.
8. Enter the following formula:

DIFFINDAYS(NOW(), crXXX_enddate)

Note: That crXXX is environment-dependent and the name of your environment will be different. To find your environment-specific designation, type **cr** and wait for the field to auto-fill your environment name.

9. Click the check mark. (Depending on your window size, you may need to click out of the text box to see the check mark.)
10. Click **Save and Close**.

Exercise 2 – Create the Knowledge Question Table

In this exercise, you will be creating the Knowledge Question table and its columns.

Task 1 – Create a table

1. Navigate to <https://make.powerapps.com> and make sure you are in your **Practice** environment.
2. Select **Solutions**.
3. Open the **Assessment**.
4. Click **+ New** and select **Table**.
5. Enter **Knowledge Question** for Display Name.
6. Go to the **Primary Column** section.
7. Change the **Display Name** to **Question**. Click **Save**.
8. Click the newly added table **Knowledge Question** from the tables list. Click **+ New column** from the top menu.
9. Enter **Answer 1** for **Display Name**, select **Text** for **Data Type** and click **Save**.
10. Repeat the step 9 and create **3** more columns with the below values:
 - Name: **Answer 2**, Data Type: **Text**.
 - Name: **Answer 3**, Data Type: **Text**.
 - Name: **Answer 4**, Data Type: **Text**.
11. Click **+New column**.
12. Enter **Answer 1 Points** for **Display Name**, select **Whole Number** for **Data Type** and click **Save**.
13. Repeat the step 12 and add 3 more filed with values below. These will store the points awarded if someone picks this answer.
 - Name **Answer 2 Points** Data Type **Whole Number**.

- Name **Answer 3 Points** Data Type **Whole Number**.
- Name **Answer 4 Points** Data Type **Whole Number**.

Note: There are many ways you could model the answers depending on the complexity of your requirements. The approach shown here is simplified for practice purposes to focus on demonstrating how to work with the table creation process.

Exercise 3 – Create the Knowledge Test Result Table

In this exercise, you will be creating the Knowledge Test Result table and its columns.

Task 1 – Create a table

1. On the navigation menu, click **Assessment** to return to the solution.
2. Click **+New** and select **Table**.
3. Enter **Knowledge Test Result** for **Display Name** and click **Save**.
4. Select the newly added table **Knowledge Test Result** from the table list and click **+New column**.
5. Enter **Total Points** for **Display Name** and select **Whole Number** for **Data Type**.
6. Click **Save**.

Exercise 4 – Add existing tables to the solution

In this exercise, you will be adding the existing tables Feedback and User. This ensures when relationships are created later between these tables, they will be tracked as part of the solution.

Task 1 – Add existing tables

1. From the navigation menu, click **Assessment** to return to the solution.
2. Click **Add Existing** and select **Table**.
3. Select the **Feedback** and **User** tables and click **Next**.
4. Leave the **Include All Objects** and **Include Table Metadata** unchecked and click **Add**.
5. Your solution will now have **5 tables** and **1 Choice** in addition to your apps.