

- **Vendor: Microsoft**
- **Exam Code: PL-100**
- **Exam Name: Microsoft Power Platform App Maker**
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QUESTION 224**Case Study 3 - A culinary arts college****Background**

A culinary arts college trains world class chefs by offering a blend of theoretical and practical education. The culinary arts program enrolls two hundred students per term. The instructors split the students in groups of five to seven students, depending on the specialty selected. Each instructor is in charge of one group of students. The college uses several systems to manage the student classroom activities. The college plans to implement a Microsoft Power Platform solution to replace the existing system. The goal is to align the cooking curriculum to the taste preferences of their subscribers and automate as much as possible to reduce administrative overhead.

The college has two revenue streams: student enrollment fees and work placement brokerage

lunch catering to businesses, school cafeterias and other consumers via subscriptions

Subscribers place orders from a menu published by the instructors. The menu displays all the dishes and quantities that students will create during a cooking lesson.

The college partners with food banks to offer healthy meals to people in need. Students participate in the packaging and safe storage of any leftovers meals and notify the food banks about available meals. If 85 percent of the meals produced during a week sell out, the college makes the remaining 15 percent available to food banks only.

Current environment**Current systems**

The college manages subscribers and their dish preferences by using a SQL Server-based app that is hosted in the college's on-premises datacenter. Each week, data is extracted as a Microsoft Excel workbook and distributed to instructors.

Recipes are stored as Microsoft Word documents in SharePoint libraries. Access to recipes is restricted to instructors and students.

The college uses Microsoft 365 for emails, classroom and kitchen bookings, and document management.

Students will use a Microsoft Outlook calendar to see their group's schedule and to collaborate with instructors and other students.

Current environment**Current processes**

Instructors use Microsoft Excel workbooks to capture class attendance information for cooking classes.

Instructors develop the culinary arts program and refine it periodically.

Instructors are responsible for monitoring kitchen processes.

Instructors order the ingredients in bulk from food distributors. The instructors define threshold quantities that trigger inventory replenishment.

Students self-organize in teams and brainstorm to produce new recipes.

Students earn credits faster if they create new recipes in their specialty and the new recipe gains enough votes from subscribers.

Current environment**Cooking classes**

Each cooking class has a start date, a start and end time, a minimum and a maximum number of participants, and a cuisine specialty.

Students select one main cuisine to specialize in when applying for enrollment.

Students participating in a cooking class can participate as a chef or as a helper. There is only one chef per session.

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Everyone else is a helper.

Instructors select the chef and recipe for each cooking class and distribute a link to the recipe document before each class.

Each instructor performs quality checks on dishes that are offered for sale and evaluates both the chef and the helper.

Current environment

Subscriptions

The college offers the following types of subscriptions based on a client's commitment to order:

- Public `` lunch orders placed between 10:00 AM and noon from an open menu, subject to availability. Most occasional and high-volume subscribers became fans of the college after ordering from the public subscription.

- Occasional subscribers `` a fixed number of meals, either monthly or weekly.

- High volume `` businesses that provide their staff free lunches every workday.

A group of 25 business subscribers each order an average of 2,000 meals per day.

The number of occasional subscribers varies daily.

The college generates a QR code for high-volume subscribers to allow staff to vote for their favorite dishes.

Requirements

Class management

The solution must track credits earned by the students.

Students require a fixed number of credits in the chef's role to gain the cuisine specialization. Students can acquire credits by using any of the following methods:

- fans of the college
- number of hours in practical sessions as helpers
- number of hours as chefs
- popular votes from dishes prepared as chefs
- marks from the class instructor

Students must confirm their attendance by selecting Start at the beginning of each class and selecting Done at the end of the class.

The student's total number of practice hours and credits earned must display in the app.

Students team up together to create new recipes and must keep their recipes confidential.

The instructors photograph dishes that pass quality checks and upload the photographs to the daily menu that is made available to subscribers.

Dish votes are counted based on the number of people who marked the dish as a favorite.

The college requires a lively visual that displays marketing data on their public-facing website.

Requirements

Subscriptions

The subscriber administrators must approve the credit terms for high-volume subscribers.

Occasional and high-volume subscribers must be able to place orders online.

Subscribers should be able to mark a dish as favorite directly from their order.

Requirements

Food management

Instructors must be able to reserve the quantities of ingredients that they require for cooking sessions.

Each ingredient has a primary unit of measure for bulk ordering and a second unit of measure for using in a recipe. (For example, flour in pounds when ordering and in cups for use in a recipe).

The app must display the current inventory and reserved quantities for each ingredient needed for a recipe. The display must be consistent for appropriate roles.

Food banks must be able to access the food pool online and place their orders from a filtered list based on their location.

The college must replace the food bank notifications with an automated system that food bank users can access directly from the college's public website.

The app must use a chatbot to replace the food bank notifications so that food bank users can see food available for pickup by food banks.

Issues

One instructor discovers discrepancies in the ingredient inventory and requests the standardization of the units of measures for all ingredients. Each time an ingredient is used in a recipe, the secondary unit of measure must be populated and be read only.

Students report that they are not able to see their total practice hours in the app.

Question

You need to implement reporting to support the college marketing efforts.

Which type of dashboard should you use?

- A. Interactive
- B. Model driven
- C. Power BI
- D. Power BI
- E. Power BI

Answer: C

QUESTION 225

Case Study 3 - A culinary arts college

Background

A culinary arts college trains world class chefs by offering a blend of theoretical and practical education. The culinary arts program enrolls two hundred students per term. The instructors split the students in groups of five to seven students, depending on the specialty selected. Each instructor is in charge of one group of students.

The college uses several systems to manage the student classroom activities. The college plans to implement a Microsoft Power Platform solution to replace the existing system. The goal is to align the cooking curriculum to the taste preferences of their subscribers and automate as much as possible to reduce administrative overhead.

The college has two revenue streams: student enrollment fees and work placement brokerage lunch catering to businesses, school cafeterias and other consumers via subscriptions

Subscribers place orders from a menu published by the instructors. The menu displays all the dishes and quantities that students will create during a cooking lesson.

The college partners with food banks to offer healthy meals to people in need. Students participate in the packaging and safe storage of any leftovers meals and notify the food banks about available meals. If 85 percent of the meals produced during a week sell out, the college makes the remaining 15 percent available to food banks only.

Current environment

Current systems

The college manages subscribers and their dish preferences by using a SQL Server-based app that is hosted in the college's on-premises datacenter. Each week, data is extracted as a Microsoft Excel workbook and distributed to instructors.

Recipes are stored as Microsoft Word documents in SharePoint libraries. Access to recipes is restricted to instructors and students.

The college uses Microsoft 365 for emails, classroom and kitchen bookings, and document management.

Students will use a Microsoft Outlook calendar to see their group's schedule and to collaborate with instructors and other students.

Current environment

Current processes

Instructors use Microsoft Excel workbooks to capture class attendance information for cooking classes.

Instructors develop the culinary arts program and refine it periodically.

Instructors are responsible for monitoring kitchen processes.

Instructors order the ingredients in bulk from food distributors. The instructors define threshold quantities that trigger inventory replenishment.

Students self-organize in teams and brainstorm to produce new recipes.

Students earn credits faster if they create new recipes in their specialty and the new recipe gains enough votes from subscribers.

Current environment

Cooking classes

Each cooking class has a start date, a start and end time, a minimum and a maximum number of participants, and a cuisine specialty.

Students select one main cuisine to specialize in when applying for enrollment.

Students participating in a cooking class can participate as a chef or as a helper. There is only one chef per session. Everyone else is a helper.

Instructors select the chef and recipe for each cooking class and distribute a link to the recipe document before each class.

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Dish votes are counted based on the number of people who marked the dish as a favorite.

The college requires a lively visual that displays marketing data on their public-facing website.

Requirements

Subscriptions

The subscriber administrators must approve the credit terms for high-volume subscribers.

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Subscribers should be able to mark a dish as favorite directly from their order.

Requirements

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One instructor discovers discrepancies in the ingredient inventory and requests the standardization of the units of measures for all ingredients. Each time an ingredient is used in a recipe, the secondary unit of measure must be populated and be read only.

Students report that they are not able to see their total practice hours in the app.

Question

Hotspot Question

You need to implement the student attendance requirements.

What should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Requirement

Component

Cooking class ownership

	▼
User owned by students	
User owned by instructors	
User owned by chefs	
Organization owned	

Student attendance

	▼
Task	
Appointment	
Custom activity	
Recurring appointment	

Answer:

Answer Area

Requirement

Component

Cooking class ownership

	▼
User owned by students	
User owned by instructors	
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Organization owned	

Student attendance

	▼
Task	
Appointment	
Custom activity	
Recurring appointment	

QUESTION 226

Case Study 3 - A culinary arts college Background

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Current environment**Current systems**

The college manages subscribers and their dish preferences by using a SQL Server-based app that is hosted in the college's on-premises datacenter. Each week, data is extracted as a Microsoft Excel workbook and distributed to instructors.

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Current environment**Current processes**

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Instructors select the chef and recipe for each cooking class and distribute a link to the recipe document before each class.

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Current environment**Subscriptions**

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The college generates a QR code for high-volume subscribers to allow staff to vote for their favorite dishes.

Requirements**Class management**

The solution must track credits earned by the students.

Students require a fixed number of credits in the chef's role to gain the cuisine specialization. Students can acquire credits by using any of the following methods:

- fans of the college
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Dish votes are counted based on the number of people who marked the dish as a favorite.

The college requires a lively visual that displays marketing data on their public-facing website.

Requirements**Subscriptions**

The subscriber administrators must approve the credit terms for high-volume subscribers.

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Subscribers should be able to mark a dish as favorite directly from their order.

Requirements**Food management**

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The app must use a chatbot to replace the food bank notifications so that food bank users can see food available for pickup by food banks.

Issues

One instructor discovers discrepancies in the ingredient inventory and requests the standardization of the units of measures for all ingredients. Each time an ingredient is used in a recipe, the secondary unit of measure must be populated and be read only.

Students report that they are not able to see their total practice hours in the app.

Question

Hotspot Question

You need to select data types for the app.

Which data type should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Data element

Data type

Cuisine specialization

Rating
Choice
Global choice
Yes/No

Favorite dish

Rating
Whole number
Global choice
Yes/No

Dish vote

Rating
Whole number
Choice
Yes/No

Answer:

Answer Area

Data element	Data type
Cuisine specialization	<div>Rating</div> <div>Choice</div> <div>Global choice</div> <div>Yes/No</div>
Favorite dish	<div>Rating</div> <div>Whole number</div> <div>Global choice</div> <div>Yes/No</div>
Dish vote	<div>Rating</div> <div>Whole number</div> <div>Choice</div> <div>Yes/No</div>

Explanation:

Box 1: Choice

Students select one main cuisine to specialize in when applying for enrollment.

A choice (picklist) is a type of column that can be included in a table. It defines a set of options. When a choice is displayed in a form it uses a drop-down list control. When displayed in Advanced Find it uses a picklist control.

Sometimes choices are called picklists by developers.

You can define a choice to use a set of options defined within itself (locally) or it can use a set of options defined elsewhere (globally) which can be used by other choice columns.

Global choices are useful when you have a standard set of categories that can apply to more than one column.

Maintaining two separate choices with the same values is difficult and if they are not synchronized you can see errors, especially if you are mapping table columns in a one-to-many table relationship.

Note: If you define every choice as a global choice your list of global choices will grow and could be difficult to manage. If you know that the set of options will only be used in one place, use a local choice.

Box 2: Global choice

The college generates a QR code for high-volume subscribers to allow staff to vote for their favorite dishes.

Subscribers should be able to mark a dish as favorite directly from their order.

Box 3: Whole number

Dish votes are counted based on the number of people who marked the dish as a favorite.

Reference:

<https://docs.microsoft.com/en-us/power-apps/maker/data-platform/create-edit-global-option-sets>

QUESTION 227

Case Study 3 - A culinary arts college

Background

A culinary arts college trains world class chefs by offering a blend of theoretical and practical education. The culinary arts program enrolls two hundred students per term. The instructors split the students in groups of five to seven students, depending on the specialty selected. Each instructor is in charge of one group of students.

The college uses several systems to manage the student classroom activities. The college plans to implement a Microsoft Power Platform solution to replace the existing system. The goal is to align the cooking curriculum to the taste preferences of their subscribers and automate as much as possible to reduce administrative overhead.

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lunch catering to businesses, school cafeterias and other consumers via subscriptions

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The college partners with food banks to offer healthy meals to people in need. Students participate in the packaging and safe storage of any leftovers meals and notify the food banks about available meals. If 85 percent of the meals produced during a week sell out, the college makes the remaining 15 percent available to food banks only.

Current environment

Current systems

The college manages subscribers and their dish preferences by using a SQL Server-based app that is hosted in the college's on-premises datacenter. Each week, data is extracted as a Microsoft Excel workbook and distributed to instructors.

Recipes are stored as Microsoft Word documents in SharePoint libraries. Access to recipes is restricted to instructors and students.

The college uses Microsoft 365 for emails, classroom and kitchen bookings, and document management.

Students will use a Microsoft Outlook calendar to see their group's schedule and to collaborate with instructors and other students.

Current environment

Current processes

Instructors use Microsoft Excel workbooks to capture class attendance information for cooking classes.

Instructors develop the culinary arts program and refine it periodically.

Instructors are responsible for monitoring kitchen processes.

Instructors order the ingredients in bulk from food distributors. The instructors define threshold quantities that trigger inventory replenishment.

Students self-organize in teams and brainstorm to produce new recipes.

Students earn credits faster if they create new recipes in their specialty and the new recipe gains enough votes from subscribers.

Current environment

Cooking classes

Each cooking class has a start date, a start and end time, a minimum and a maximum number of participants, and a cuisine specialty.

Students select one main cuisine to specialize in when applying for enrollment.

Students participating in a cooking class can participate as a chef or as a helper. There is only one chef per session. Everyone else is a helper.

Instructors select the chef and recipe for each cooking class and distribute a link to the recipe document before each class.

Each instructor performs quality checks on dishes that are offered for sale and evaluates both the chef and the helper.

Current environment

Subscriptions

The college offers the following types of subscriptions based on a client's commitment to order:

- Public `` lunch orders placed between 10:00 AM and noon from an open menu, subject to availability. Most occasional and high-volume subscribers became fans of the college after ordering from the public subscription.

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A group of 25 business subscribers each order an average of 2,000 meals per day.

The number of occasional subscribers varies daily.

The college generates a QR code for high-volume subscribers to allow staff to vote for their favorite dishes.

Requirements

Class management

The solution must track credits earned by the students.

Students require a fixed number of credits in the chef's role to gain the cuisine specialization. Students can acquire credits by using any of the following methods:

- fans of the college
- number of hours in practical sessions as helpers
- number of hours as chefs

- popular votes from dishes prepared as chefs
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Food management

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Issues

One instructor discovers discrepancies in the ingredient inventory and requests the standardization of the units of measures for all ingredients. Each time an ingredient is used in a recipe, the secondary unit of measure must be populated and be read only.

Students report that they are not able to see their total practice hours in the app.

Question

You need to select tables to use for the main personas in the college implementation.

What should you use for each persona? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Persona

Table

Instructors

Microsoft Dataverse for Microsoft Teams
Microsoft Dataverse with a custom table
Microsoft Dataverse with the Contact table
Microsoft Dataverse with the User table

Students

Microsoft Dataverse for Microsoft Teams
Microsoft Dataverse with a custom table
Microsoft Dataverse with the Contact table
Microsoft Dataverse with the User table

Business subscribers

Microsoft Dataverse for Microsoft Teams
Microsoft Dataverse with a custom table
Microsoft Dataverse with the Contact table
Microsoft Dataverse with the User table

Answer:

Answer Area

Persona

Table

Instructors

Microsoft Dataverse for Microsoft Teams
Microsoft Dataverse with a custom table
Microsoft Dataverse with the Contact table
Microsoft Dataverse with the User table

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Business subscribers

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Explanation:

Box 1: Microsoft Dataverse with User table

The instructors split the students in groups of five to seven students, depending on the specialty selected. Each

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instructor is in charge of one group of students.

User and team management is the area of Microsoft Dataverse where you can create and maintain user accounts and profiles.

* A user is any person who works for a business unit who uses Dataverse. Each user has a user account. All users must be associated with only one business unit. This association controls which customer data the user will have access to. Included in the user's account is information such as the user's telephone numbers, email address, and a link to the user's manager. Each user has privileges and rights to manage their own personal settings. Each user corresponds to a user in the Azure Active Directory for that organization. When you create a user, you must assign the user to at least one security role. Even if the user is part of a team that has assigned roles, the user should be assigned to a role.

* A team is a group of users. Teams let users across an organization collaborate and share information.

Box 2: Microsoft Dataverse for Teams

Students self-organize in teams and brainstorm to produce new recipes.

Students team up together to create new recipes and must keep their recipes confidential.

* A team is a group of users. Teams let users across an organization collaborate and share information.

Box 3: Microsoft Dataverse with the Contact table

The account and contact tables in Microsoft Dataverse are essential for identifying and managing customers, selling products and services, and providing superior service to the customers

Reference:

<https://docs.microsoft.com/en-us/power-apps/developer/data-platform/user-team-entities>

<https://docs.microsoft.com/en-us/power-apps/developer/data-platform/customer-entities-account-contact>

QUESTION 228

Case Study 3 - A culinary arts college

Background

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Students require a fixed number of credits in the chef's role to gain the cuisine specialization. Students can acquire credits by using any of the following methods:

- fans of the college
- number of hours in practical sessions as helpers
- number of hours as chefs
- popular votes from dishes prepared as chefs
- marks from the class instructor

Students must confirm their attendance by selecting Start at the beginning of each class and selecting Done at the end of the class.

The student's total number of practice hours and credits earned must display in the app.

Students team up together to create new recipes and must keep their recipes confidential.

The instructors photograph dishes that pass quality checks and upload the photographs to the daily menu that is made available to subscribers.

Dish votes are counted based on the number of people who marked the dish as a favorite.

The college requires a lively visual that displays marketing data on their public-facing website.

Requirements**Subscriptions**

The subscriber administrators must approve the credit terms for high-volume subscribers.

Occasional and high-volume subscribers must be able to place orders online.

Subscribers should be able to mark a dish as favorite directly from their order.

Requirements**Food management**

Instructors must be able to reserve the quantities of ingredients that they require for cooking sessions.

Each ingredient has a primary unit of measure for bulk ordering and a second unit of measure for using in a recipe. (For example, flour in pounds when ordering and in cups for use in a recipe).

The app must display the current inventory and reserved quantities for each ingredient needed for a recipe. The display must be consistent for appropriate roles.

Food banks must be able to access the food pool online and place their orders from a filtered list based on their location.

The college must replace the food bank notifications with an automated system that food bank users can access directly from the college's public website.

The app must use a chatbot to replace the food bank notifications so that food bank users can see food available for pickup by food banks.

Issues

One instructor discovers discrepancies in the ingredient inventory and requests the standardization of the units of

measures for all ingredients. Each time an ingredient is used in a recipe, the secondary unit of measure must be populated and be read only.

Students report that they are not able to see their total practice hours in the app.

Question

You need to create the solution for subscriber orders.

What should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Component	Action
Solution	<div> <div></div> <div>Create a canvas app.</div> <div>Create a model-driven app.</div> <div>Create a portal page.</div> <div>Create an app in Microsoft Teams.</div> </div>
Sample subscriber data	<div> <div></div> <div>Import SQL subscriber data from a Microsoft Excel template.</div> <div>Create a connection using the SQL Server connector to the SQL subscriber data.</div> <div>Import SQL subscriber data into Microsoft Dataverse by using data flows.</div> </div>

Answer:

Answer Area

Component	Action
Solution	<div> <div></div> <div>Create a canvas app.</div> <div>Create a model-driven app.</div> <div>Create a portal page.</div> <div>Create an app in Microsoft Teams.</div> </div>
Sample subscriber data	<div> <div></div> <div>Import SQL subscriber data from a Microsoft Excel template.</div> <div>Create a connection using the SQL Server connector to the SQL subscriber data.</div> <div>Import SQL subscriber data into Microsoft Dataverse by using data flows.</div> </div>

Explanation:

Box 1: Create a portal page

Occasional and high-volume subscribers must be able to place orders online.

Use Power Apps portals to create external-facing websites that allow users outside their organizations to sign in with a wide variety of identities, create and view data in Dataverse, or even browse content anonymously.

Note:

Subscribers place orders from a menu published by the instructors. The menu displays all the dishes and quantities that students will create during a cooking lesson.

Subscribers place orders from a menu published by the instructors. The menu displays all the dishes and quantities that students will create during a cooking lesson.

Requirements. Subscriptions

- The subscriber administrators must approve the credit terms for high-volume subscribers.
- Occasional and high-volume subscribers must be able to place orders online.
- Subscribers should be able to mark a dish as favorite directly from their order.

Box 2: Create a connection using the SQL Server connector to the SQL subscriber data.

Current environment

Current systems

The college manages subscribers and their dish preferences by using a SQL Server-based app that is hosted in the

college's on-premises datacenter. Each week, data is ex-tracted as a Microsoft Excel workbook and distributed to instructors.

Reference:

<https://docs.microsoft.com/en-us/power-apps/maker/portals/>

QUESTION 229

Case Study 3 - A culinary arts college

Background

A culinary arts college trains world class chefs by offering a blend of theoretical and practical education. The culinary arts program enrolls two hundred students per term. The instructors split the students in groups of five to seven students, depending on the specialty selected. Each instructor is in charge of one group of students. The college uses several systems to manage the student classroom activities. The college plans to implement a Microsoft Power Platform solution to replace the existing system. The goal is to align the cooking curriculum to the taste preferences of their subscribers and automate as much as possible to reduce administrative overhead. The college has two revenue streams: student enrollment fees and work placement brokerage lunch catering to businesses, school cafeterias and other consumers via subscriptions. Subscribers place orders from a menu published by the instructors. The menu displays all the dishes and quantities that students will create during a cooking lesson. The college partners with food banks to offer healthy meals to people in need. Students participate in the packaging and safe storage of any leftovers meals and notify the food banks about available meals. If 85 percent of the meals produced during a week sell out, the college makes the remaining 15 percent available to food banks only.

Current environment

Current systems

The college manages subscribers and their dish preferences by using a SQL Server-based app that is hosted in the college's on-premises datacenter. Each week, data is extracted as a Microsoft Excel workbook and distributed to instructors.

Recipes are stored as Microsoft Word documents in SharePoint libraries. Access to recipes is restricted to instructors and students.

The college uses Microsoft 365 for emails, classroom and kitchen bookings, and document management.

Students will use a Microsoft Outlook calendar to see their group's schedule and to collaborate with instructors and other students.

Current environment

Current processes

Instructors use Microsoft Excel workbooks to capture class attendance information for cooking classes.

Instructors develop the culinary arts program and refine it periodically.

Instructors are responsible for monitoring kitchen processes.

Instructors order the ingredients in bulk from food distributors. The instructors define threshold quantities that trigger inventory replenishment.

Students self-organize in teams and brainstorm to produce new recipes.

Students earn credits faster if they create new recipes in their specialty and the new recipe gains enough votes from subscribers.

Current environment

Cooking classes

Each cooking class has a start date, a start and end time, a minimum and a maximum number of participants, and a cuisine specialty.

Students select one main cuisine to specialize in when applying for enrollment.

Students participating in a cooking class can participate as a chef or as a helper. There is only one chef per session. Everyone else is a helper.

Instructors select the chef and recipe for each cooking class and distribute a link to the recipe document before each class.

Each instructor performs quality checks on dishes that are offered for sale and evaluates both the chef and the helper.

Current environment

Subscriptions

The college offers the following types of subscriptions based on a client's commitment to order:

- Public `` lunch orders placed between 10:00 AM and noon from an open menu, subject to availability. Most occasional and high-volume subscribers became fans of the college after ordering from the public subscription.
- Occasional subscribers `` a fixed number of meals, either monthly or weekly.
- High volume `` businesses that provide their staff free lunches every workday.

A group of 25 business subscribers each order an average of 2,000 meals per day.

The number of occasional subscribers varies daily.

The college generates a QR code for high-volume subscribers to allow staff to vote for their favorite dishes.

Requirements**Class management**

The solution must track credits earned by the students.

Students require a fixed number of credits in the chef's role to gain the cuisine specialization. Students can acquire credits by using any of the following methods:

- fans of the college
- number of hours in practical sessions as helpers
- number of hours as chefs
- popular votes from dishes prepared as chefs
- marks from the class instructor

Students must confirm their attendance by selecting Start at the beginning of each class and selecting Done at the end of the class.

The student's total number of practice hours and credits earned must display in the app.

Students team up together to create new recipes and must keep their recipes confidential.

The instructors photograph dishes that pass quality checks and upload the photographs to the daily menu that is made available to subscribers.

Dish votes are counted based on the number of people who marked the dish as a favorite.

The college requires a lively visual that displays marketing data on their public-facing website.

Requirements**Subscriptions**

The subscriber administrators must approve the credit terms for high-volume subscribers.

Occasional and high-volume subscribers must be able to place orders online.

Subscribers should be able to mark a dish as favorite directly from their order.

Requirements**Food management**

Instructors must be able to reserve the quantities of ingredients that they require for cooking sessions.

Each ingredient has a primary unit of measure for bulk ordering and a second unit of measure for using in a recipe. (For example, flour in pounds when ordering and in cups for use in a recipe).

The app must display the current inventory and reserved quantities for each ingredient needed for a recipe. The display must be consistent for appropriate roles.

Food banks must be able to access the food pool online and place their orders from a filtered list based on their location.

The college must replace the food bank notifications with an automated system that food bank users can access directly from the college's public website.

The app must use a chatbot to replace the food bank notifications so that food bank users can see food available for pickup by food banks.

Issues

One instructor discovers discrepancies in the ingredient inventory and requests the standardization of the units of measures for all ingredients. Each time an ingredient is used in a recipe, the secondary unit of measure must be populated and be read only.

Students report that they are not able to see their total practice hours in the app.

Question

You need to design and distribute a chatbot that captures ideas for new recipes.

What should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Option

First topic for the recipe selection

Store the ingredients for selection

Button to click to make the chatbot available to Microsoft Teams

Selection

Cuisine
Specialty
Dish
Ingredient

Closed list
Custom entity
Variable
Trigger phrase

Channels
Share
Publish

Answer:

Answer Area

Option

First topic for the recipe selection

Store the ingredients for selection

Button to click to make the chatbot available to Microsoft Teams

Selection

Cuisine
Specialty
Dish
Ingredient

Closed list
Custom entity
Variable
Trigger phrase

Channels
Share
Publish

Explanation:

Box 1: Dish

The app must use a chatbot to replace the food bank notifications so that food bank users can see food available for pickup by food banks.

Power Virtual Agents bot

When you create bots with Power Virtual Agents, you author and edit topics.

Topics are discrete conversation paths that, when used together within a single bot, allow for users to have a conversation with a bot that feels natural and flows appropriately.

Creating a bot with Power Virtual Agents is easy to do with the no-code authoring canvas, and there are a number of ways you can manage how topics interact, how you want the conversation to flow, and what it should feel like.

Box 2: Variable

Variables let you save responses from your customers. For example, you can save a customer's name in a variable called UserName. The bot can then address the customer by name as the conversation continues.

However, you can also make variables into bot variables, so that they apply across the entire bot.

Box 3: Publish

After creating a chatbot in the Power Virtual Agents portal, you must publish your bot before Teams users can interact with it.

Reference:

<https://docs.microsoft.com/en-us/power-virtual-agents/authoring-fundamentals>

<https://docs.microsoft.com/en-us/power-virtual-agents/teams/authoring-variables-bot-teams>

<https://docs.microsoft.com/en-us/microsoftteams/platform/bots/how-to/add-power-virtual-agents-bot-to-teams>

QUESTION 230

Case Study 3 - A culinary arts college

Background

A culinary arts college trains world class chefs by offering a blend of theoretical and practical education. The culinary arts program enrolls two hundred students per term. The instructors split the students in groups of five to seven students, depending on the specialty selected. Each instructor is in charge of one group of students.

The college uses several systems to manage the student classroom activities. The college plans to implement a Microsoft Power Platform solution to replace the existing system. The goal is to align the cooking curriculum to the taste preferences of their subscribers and automate as much as possible to reduce administrative overhead.

The college has two revenue streams: student enrollment fees and work placement brokerage

lunch catering to businesses, school cafeterias and other consumers via subscriptions

Subscribers place orders from a menu published by the instructors. The menu displays all the dishes and quantities that students will create during a cooking lesson.

The college partners with food banks to offer healthy meals to people in need. Students participate in the packaging and safe storage of any leftovers meals and notify the food banks about available meals. If 85 percent of the meals produced during a week sell out, the college makes the remaining 15 percent available to food banks only.

Current environment

Current systems

The college manages subscribers and their dish preferences by using a SQL Server-based app that is hosted in the college's on-premises datacenter. Each week, data is extracted as a Microsoft Excel workbook and distributed to instructors.

Recipes are stored as Microsoft Word documents in SharePoint libraries. Access to recipes is restricted to instructors and students.

The college uses Microsoft 365 for emails, classroom and kitchen bookings, and document management.

Students will use a Microsoft Outlook calendar to see their group's schedule and to collaborate with instructors and other students.

Current environment

Current processes

Instructors use Microsoft Excel workbooks to capture class attendance information for cooking classes.

Instructors develop the culinary arts program and refine it periodically.

Instructors are responsible for monitoring kitchen processes.

Instructors order the ingredients in bulk from food distributors. The instructors define threshold quantities that trigger inventory replenishment.

Students self-organize in teams and brainstorm to produce new recipes.

Students earn credits faster if they create new recipes in their specialty and the new recipe gains enough votes from subscribers.

Current environment

Cooking classes

Each cooking class has a start date, a start and end time, a minimum and a maximum number of participants, and a cuisine specialty.

Students select one main cuisine to specialize in when applying for enrollment.

Students participating in a cooking class can participate as a chef or as a helper. There is only one chef per session. Everyone else is a helper.

Instructors select the chef and recipe for each cooking class and distribute a link to the recipe document before each class.

Each instructor performs quality checks on dishes that are offered for sale and evaluates both the chef and the helper.

Current environment**Subscriptions**

The college offers the following types of subscriptions based on a client's commitment to order:

- Public `` lunch orders placed between 10:00 AM and noon from an open menu, subject to availability. Most occasional and high-volume subscribers became fans of the college after ordering from the public subscription.
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A group of 25 business subscribers each order an average of 2,000 meals per day.

The number of occasional subscribers varies daily.

The college generates a QR code for high-volume subscribers to allow staff to vote for their favorite dishes.

Requirements**Class management**

The solution must track credits earned by the students.

Students require a fixed number of credits in the chef's role to gain the cuisine specialization. Students can acquire credits by using any of the following methods:

- fans of the college
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The app must display the current inventory and reserved quantities for each ingredient needed for a recipe. The display must be consistent for appropriate roles.

Food banks must be able to access the food pool online and place their orders from a filtered list based on their location.

The college must replace the food bank notifications with an automated system that food bank users can access directly from the college's public website.

The app must use a chatbot to replace the food bank notifications so that food bank users can see food available for pickup by food banks.

Issues

One instructor discovers discrepancies in the ingredient inventory and requests the standardization of the units of measures for all ingredients. Each time an ingredient is used in a recipe, the secondary unit of measure must be populated and be read only.

Students report that they are not able to see their total practice hours in the app.

Question

You need to implement a solution to meet the ingredients inventory requirement.

Which type of public view should you use?

- A. a grid filter that filters by quantity only
- B. a grid filter that filters by both threshold and quantity
- C. a grid filter that filters by threshold only
- D. a conditional view filter that filters by both threshold and quantity
- E. a conditional view filter that filters by threshold only

Answer: B

Explanation:

Instructors order the ingredients in bulk from food distributors. The instructors define threshold quantities that trigger inventory replenishment.

Requirements. Food management includes:

The app must display the current inventory and reserved quantities for each ingredient needed for a recipe. The display must be consistent for appropriate roles.

Explore data on a grid page

In model-driven apps, the default control that's used to show data in tabular form is the read-only grid. When a subarea contains a table, the subarea's default layout in the app sitemap is called the grid page.

QUESTION 231

Case Study 3 - A culinary arts college

Background

A culinary arts college trains world class chefs by offering a blend of theoretical and practical education. The culinary arts program enrolls two hundred students per term. The instructors split the students in groups of five to seven students, depending on the specialty selected. Each instructor is in charge of one group of students.

The college uses several systems to manage the student classroom activities. The college plans to implement a Microsoft Power Platform solution to replace the existing system. The goal is to align the cooking curriculum to the taste preferences of their subscribers and automate as much as possible to reduce administrative overhead.

The college has two revenue streams: student enrollment fees and work placement brokerage

lunch catering to businesses, school cafeterias and other consumers via subscriptions

Subscribers place orders from a menu published by the instructors. The menu displays all the dishes and quantities that students will create during a cooking lesson.

The college partners with food banks to offer healthy meals to people in need. Students participate in the packaging and safe storage of any leftovers meals and notify the food banks about available meals. If 85 percent of the meals produced during a week sell out, the college makes the remaining 15 percent available to food banks only.

Current environment

Current systems

The college manages subscribers and their dish preferences by using a SQL Server-based app that is hosted in the college's on-premises datacenter. Each week, data is extracted as a Microsoft Excel workbook and distributed to instructors.

Recipes are stored as Microsoft Word documents in SharePoint libraries. Access to recipes is restricted to instructors and students.

The college uses Microsoft 365 for emails, classroom and kitchen bookings, and document management.

Students will use a Microsoft Outlook calendar to see their group's schedule and to collaborate with instructors and other students.

Current environment

Current processes

Instructors use Microsoft Excel workbooks to capture class attendance information for cooking classes.

Instructors develop the culinary arts program and refine it periodically.

Instructors are responsible for monitoring kitchen processes.

Instructors order the ingredients in bulk from food distributors. The instructors define threshold quantities that trigger inventory replenishment.

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Current environment

Cooking classes

Each cooking class has a start date, a start and end time, a minimum and a maximum number of participants, and a cuisine specialty.

Students select one main cuisine to specialize in when applying for enrollment.

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Instructors select the chef and recipe for each cooking class and distribute a link to the recipe document before each class.

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The college offers the following types of subscriptions based on a client's commitment to order:

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A group of 25 business subscribers each order an average of 2,000 meals per day.

The number of occasional subscribers varies daily.

The college generates a QR code for high-volume subscribers to allow staff to vote for their favorite dishes.

Requirements

Class management

The solution must track credits earned by the students.

Students require a fixed number of credits in the chef's role to gain the cuisine specialization. Students can acquire credits by using any of the following methods:

- fans of the college

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- number of hours as chefs

- popular votes from dishes prepared as chefs

- marks from the class instructor

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The instructors photograph dishes that pass quality checks and upload the photographs to the daily menu that is made available to subscribers.

Dish votes are counted based on the number of people who marked the dish as a favorite.

The college requires a lively visual that displays marketing data on their public-facing website.

Requirements

Subscriptions

The subscriber administrators must approve the credit terms for high-volume subscribers.

Occasional and high-volume subscribers must be able to place orders online.

Subscribers should be able to mark a dish as favorite directly from their order.

Requirements

Food management

Instructors must be able to reserve the quantities of ingredients that they require for cooking sessions.

Each ingredient has a primary unit of measure for bulk ordering and a second unit of measure for using in a recipe. (For example, flour in pounds when ordering and in cups for use in a recipe).

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Issues

One instructor discovers discrepancies in the ingredient inventory and requests the standardization of the units of measures for all ingredients. Each time an ingredient is used in a recipe, the secondary unit of measure must be populated and be read only.

Students report that they are not able to see their total practice hours in the app.

Question

Drag and Drop Question

You need to resolve the issue related to the student canvas app.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions		Answer area
Filter by chef or helper.		
Add a pie chart to the student app.	➤	➤
Connect to the cooking class dataset.	➤	➤
Import the cooking class dataset into a collection.	➤	➤
Filter by chef and helper.		

Answer:

Actions		Answer area
Filter by chef or helper.		Connect to the cooking class dataset.
	➤	Add a pie chart to the student app.
	➤	Filter by chef and helper.
Import the cooking class dataset into a collection.		

Explanation:

Step 1: Connect to the cooking class dataset.

No need to import it.

Step 2: Add pie chart to the student app

Step 3: Filter by chef or helper

The app must display the current inventory and reserved quantities for each ingredient needed for a recipe. The display must be consistent for appropriate roles.

QUESTION 232

Hotspot Question

A company is building several Power Apps app to help with sales operations collaboration.

You need to identify the right solution for data storage.

Which solution should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Characteristic	Solution
Limits the number of records that can be added.	<div>▼</div> <div>Microsoft Dataverse</div> <div>Microsoft Dataverse for Teams</div>
Allows for advanced development tasks for apps specific to Microsoft Teams.	<div>▼</div> <div>Microsoft Dataverse</div> <div>Microsoft Dataverse for Teams</div>
Has the most granular level of security to account for column-level security in Microsoft Teams.	<div>▼</div> <div>Microsoft Dataverse</div> <div>Microsoft Dataverse for Teams</div>

Answer:

Answer Area

Characteristic	Solution
Limits the number of records that can be added.	<div>▼</div> <div>Microsoft Dataverse</div> <div>Microsoft Dataverse for Teams</div>
Allows for advanced development tasks for apps specific to Microsoft Teams.	<div>▼</div> <div>Microsoft Dataverse</div> <div>Microsoft Dataverse for Teams</div>
Has the most granular level of security to account for column-level security in Microsoft Teams.	<div>▼</div> <div>Microsoft Dataverse</div> <div>Microsoft Dataverse for Teams</div>

Explanation:

Box 1: Microsoft Dataverse for Teams

Microsoft Dataverse for Teams limits of records

With Dataverse for Teams, capacity is measured with relational, image, and file data. The 2-GB capacity provided to a team can typically store up to 1 million rows of data.

Whereas Dataverse for Teams focuses on one environment per team for up to 10,000 teams, Dataverse supports unlimited environments.

Environment lifecycle	Dataverse for Teams	Dataverse
Environments	1 per Team	Unlimited
Maximum size	1 million rows or 2 GB	4 TB or more
Upgrade to Dataverse	Yes	N/A

Box 2: Microsoft Dataverse

This table describes the differences between Dataverse for Teams and Dataverse business intelligence and professional developer features.

Area	Feature	Dataverse for Teams	Dataverse
Business intelligence	Data visualization	Yes	Yes
	Paginated reports (SQL Server Reporting Services)	No	Yes
Professional developer	API access	No	Yes
	Plug-ins	No	Yes
	Power Apps component framework	No	Yes

Box 3: Microsoft Dataverse

Because Dataverse isn't specific to the Teams environment, it delivers more options for admin and user roles. It also includes a number of additional security capabilities such as customer-managed keys, field-level security, hierarchical security, sharing, and support for legacy authentication.

QUESTION 233

Drag and Drop Question

An insurance broker uses a Microsoft Dataverse environment with custom tables.

You create a Power Apps app to manage vehicle insurance policies.

The app has a drop-down field that allows users to categorize a policy holder's driving record. This category field is not mandatory.

You need to ensure that insurance agents enter the correct categories when creating a new vehicle policy.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Click on the Condition card, select the Vehicle Policy and check for new driver.	
Add a Recommendation card, select the driver record drop-down field and enter the recommendation details.	
Add a business rule and enter a meaningful business rule name.	
In the vehicle policy table, click on Add subcomponents and navigate to Business rules.	
In the vehicle policy table, navigate to Business rules.	

Answer:

Actions

Add a Recommendation card, select the driver record drop-down field and enter the recommendation details.

In the vehicle policy table, click on Add subcomponents and navigate to Business rules.

Answer Area

In the vehicle policy table, navigate to Business rules.

Add a business rule and enter a meaningful business rule name.

Click on the Condition card, select the Vehicle Policy and check for new driver.

Explanation:

Step 1: In the vehicle policy table, navigate to Business rules.

Dataverse table business rules

Create a business rule for a Dataverse Table.

1. Sign in to Power Apps, on the left navigation pane expand Data.

2. In the list that appears, select Tables.

3. Open the table you want to create the business rule for (for example, open the Account table), and then select the Business Rules tab.

4. Select Add business rule.

5. Add a description, if you want, in the description box in the upper-left corner of the window.

6. Set the scope.

7. Add conditions.

Step 2: Add a business rule and enter a meaningful business rule name.

Step 3: Click the Condition card, select Vehicle Policy and check for a new driver.

Reference:

<https://docs.microsoft.com/en-us/powerapps/maker/data-platform/data-platform-create-business-rule>

QUESTION 234

A company uses Microsoft Teams. A coworker creates a chatbot.

The coworker observes unexpected behavior with the chatbot.

You need to troubleshoot the chatbot.

Which two actions should you recommend to the coworker? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Ask the coworker to assign you to the owner role for the team.
- B. Select the chatbot and then select the Share button.
- C. Ask the coworker to add you to their team.
- D. In Advanced tools, select Monitor.

Answer: AD

Explanation:

You need to have sufficient permissions to download chatbot sessions. If you're using the Power Virtual Agents app in Teams, you need to be the Team Owner.

On the left hand side of Canvas Studio there is a new tool icon that opens up a tray of Advanced tools. Monitor provides a running log of all the activity within your app.

References:

<https://docs.microsoft.com/en-us/power-virtual-agents/teams/analytics-sessions-teams>

<https://powerapps.microsoft.com/en-us/blog/introducing-monitor-to-debug-apps-and-improve-performance/>

QUESTION 235

Drag and Drop Question

You are developing an app that warehouse workers will run on their phones to perform inventory counts.

You need to design the app.

Which type of control should you use? To answer, drag the appropriate control types to the correct requirements. Each control type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection presents a complete solution.

Control types	Answer Area	
Text box	Requirement	Control type
Combo box	Capture decimal numbers.	Control type
Slider	Select multiple products from a list.	Control type
Radio	Set the status of a product.	Control type

Answer:

Control types	Answer Area	
Slider	Requirement	Control type
	Capture decimal numbers.	Text box
	Select multiple products from a list.	Combo box
	Set the status of a product.	Radio

Explanation:

Box 1: Text box

Box 2: Combo box

A Combo box control allows you to search for items you will select. The search is performed server-side on the SearchField property so performance is not affected by large data sources.

Single or multi-select mode is configured via the SelectMultiple property.

Box 3: Radio

Reference:

<https://docs.microsoft.com/en-us/power-apps/maker/canvas-apps/controls/control-combo-box>

QUESTION 236

Drag and Drop Question

You are designing a data model for a new app. The app will be supported by two tables. TableA will contain data that is unique to your industry. TableB will provide access to read-only data from an Azure SQL database.

You need to configure the tables.

Which table type should you use? To answer, drag the appropriate table types to the correct tables. Each table type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Table types

Custom
Standard
Virtual

Answer Area
Table

TableA

TableB

Table type

Table type

Table type

Answer:

Table types

Standard

Answer Area
Table

TableA

TableB

Table type

Custom

Virtual

Explanation:

Box 1: Custom

Custom: Custom tables are unmanaged tables that are either imported from an unmanaged solution or are new tables created directly in the environment. Any user with appropriate privileges can fully customize these tables.

Box 2: Virtual

A virtual table is a custom table in Dataverse that has columns containing data from an external data source. Virtual tables appear in your app to users as regular table rows, but contain data that is sourced from an external database dynamically at runtime, such as an Azure SQL Database. Rows based on virtual tables are available in all clients including custom clients developed using the Dataverse web services.

Incorrect:

* Standard: Several standard tables, also known as out-of-box tables, are included with a Power Platform environment, that includes Microsoft Dataverse.

Account, business unit, contact, task, and user tables are examples of standard tables in Dataverse.

Reference:

<https://docs.microsoft.com/en-us/power-apps/maker/data-platform/types-of-entities>

QUESTION 237

Hotspot Question

Inspectors for a city building department use a Microsoft Teams channel. Inspectors use SharePoint to view construction bylaws, rules, and regulations.

The city clerk emails inspectors links to new bylaw proposals. Inspectors vote on the proposals and provide additional feedback.

You need to demonstrate to the city clerk how they can automate the process.

Which option should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Flow element

Type of flow.

Trigger type.

Flow step to replace emailing the links.

Option

Cloud flow
Desktop flow
Business process flow

Manually trigger a flow.
For a selected message in Microsoft Teams.
For a selected file in SharePoint.
When a flow is run from a business process flow.

Get changes for an item in SharePoint.
Post an adaptive card to a channel and wait for a response.
Post a choice of options to a user in Teams.
Send an email with options.

Answer:

Answer Area

Flow element

Type of flow.

Trigger type.

Flow step to replace emailing the links.

Option

Cloud flow
Desktop flow
Business process flow

Manually trigger a flow.
For a selected message in Microsoft Teams.
For a selected file in SharePoint.
When a flow is run from a business process flow.

Get changes for an item in SharePoint.
Post an adaptive card to a channel and wait for a response.
Post a choice of options to a user in Teams.
Send an email with options.

Explanation:

Box 1: Cloud flow

Create a cloud flow when you want your automation to be triggered either automatically, instantly, or via a schedule. Cloud flow Instant flows - Start an automation with a click of a button. You can automate for repetitive tasks from your Desktop or Mobile devices. For example, instantly send a reminder to the team with a push of a button from your mobile device.

Suitable for: Wide range of tasks such as requesting an approval, an action in Teams or SharePoint.

Cloud flow Automated flows - Create an automation that is triggered by an event such as arrival of an email from a specific person, or a mention of your company in social media.

Incorrect:

* Use desktop flows to automate tasks on the Web or the desktop.

* Business process flows provide a guide for people to get work done. They provide a streamlined user experience that leads people through the processes their organization has defined for interactions that need to be advanced to a conclusion of some kind. This user experience can be tailored so that people with different security roles can have an experience that best suits the work they do.

Box 2: Manually trigger a flow

Box 3: Send an e email with options

When you use the Send Email with Options action, effectively the Flow will pause until it receives a response. Once it received a reply it can then do something with the response.

Incorrect:

- * adaptive cards are used to display information
- * Post a choice of options to a user in Teams

Reference:

<https://docs.microsoft.com/en-us/power-automate/flow-types>

<https://docs.microsoft.com/en-us/power-automate/introduction-to-button-flows>

<https://powerusers.microsoft.com/t5/Building-Flows/send-Email-with-options/td-p/285830>

QUESTION 238

A company creates a model-driven app for use by their marketing team.

The app is only accessible to the developer that created the app.

You need to ensure that marketing team members can access the app.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Grant the security roles to the marketing team users.
- B. Grant the marketing team users the Read privilege on the table.
- C. Add the app to Microsoft Teams and add the users to the team.
- D. Grant the marketing team Read, Create, and Write privileges for the environment.
- E. Associate the security roles with the app.

Answer: AE

Explanation:

Model-driven apps use role-based security for sharing. The fundamental concept in role-based security is that a security role contains privileges that define a set of actions that can be performed on tables within the app.

Reference:

<https://docs.microsoft.com/en-us/power-apps/maker/model-driven-apps/share-model-driven-app>

QUESTION 239

Hotspot Question

A music school rents out musical instruments to their students. Rental contracts specify that a student must choose an instrument for an entire school term.

Students can choose other instruments in future terms.

You create the following tables:

- A custom table for instruments.
- A custom table for rental contracts.
- Student data is stored in the Contract table.

You need to model the instrument rental process for the school staff.

How should you model each of the following data elements? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Data point

Instrument type

Rented instrument

Student renting the instrument

Model

Text
Choices
Choice

One-to-many from rental contract to instrument
One-to-many from instrument to contract
One-to-many from instrument to rental contract

Lookup on the rental contract table
Lookup on the instrument table
Lookup on the contact table

Answer:

Answer Area

Data point

Instrument type

Rented instrument

Student renting the instrument

Model

Text
Choices
Choice

One-to-many from rental contract to instrument
One-to-many from instrument to contract
One-to-many from instrument to rental contract

Lookup on the rental contract table
Lookup on the instrument table
Lookup on the contact table

Explanation:

Box 1: Choices

The Choices function returns a table of the possible values for a lookup column.

Use the Choices function to provide a list of choices for your user to select from. This function is commonly used with the Combo box control in edit forms.

For a lookup, the table that Choices returns matches the foreign table that's associated with the lookup. By using Choices, you eliminate the need to add the foreign table as an additional data source. Choices returns all columns of the foreign table.

Box 2: One-to-many from instrument to rental contract.

An instrument can be in many rental contracts.

Note:

Rental contracts specify that a student must choose an instrument for an entire school term. Students can choose other instruments in future terms.

Box 3: Lookup on the instrument table.

Reference:

<https://docs.microsoft.com/en-us/power-platform/power-fx/reference/function-choices>

QUESTION 240

You create a flow in a development environment. The flow connects to an internal web service. You plan to move the flow to a test environment and then to a production environment. The flow requires a different URL to connect to the internal web service from each environment.

You must move customizations between environments by using solutions. You must not be required to manually update the URL to the internal web service when you move the flow to other environments.

You need to deploy the solution.

What should you use?

- A. Localized label
- B. Environment variable
- C. Component dependency
- D. Connection reference

Answer: B

Explanation:

Business value

Apps and flows often require different configuration settings across environments. Environment variables allow you to transport application configuration data with solutions and optionally manipulate the values in your Application Lifecycle Management (ALM) pipeline. They act as configurable input parameters allowing you to reference an environment variable within other solution components. You can update a value without modifying other components directly when using environment variables.

Feature details

Benefits of using environment variables:

- No need to manually edit other solution components in a production environment.
- Configure one or more variables in one place and reference like a parameter across multiple solution components.
- Etc.

Reference:

<https://docs.microsoft.com/en-us/power-platform-release-plan/2019wave2/microsoft-powerapps/new-solution-components-get-full-support>