PL-400 Q&As

Microsoft Power Platform Developer

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QUESTION 1

DRAG DROP

A company has a Common Data Service (CDS) environment.

All accounts in the system with a relationship type of Customer set must have an account number. A plug-in has been developed.

When a Customer is updated with a relationship type, the plug-in sets the account number if not provided by the user.

You need to register the plug-in.

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.

Select and Place:

Actions

In the Plug-in Registration tool, select **Register New Image**, change the Image type be a **PostImage**, and ensure the accountnumber is included as a parameter.

In the Plug-in Registration tool, select **Register New Image**, change the Image type be a **PreImage**, and ensure the accountnumber is included as a parameter.

In the Plug-in Registration tool, select **Register New Step** and set the Message to **Update**, Primary Entity to **Account**, and Event Pipeline Stage of PreValidation.

In the Plug-in Registration tool, select **Register New Assembly**.

In the Plug-in Registration tool, select **Register New Step**. Set the Message to **Update**, Primary Entity to **Account**, and Event Pipeline Stage of PreOperation.

Answer area

Correct Answer:

Actions

In the Plug-in Registration tool, select **Register New Image**, change the Image type be a **PostImage**, and ensure the accountnumber is included as a parameter.

In the Plug-in Registration tool, select **Register New Step** and set the Message to **Update**, Primary Entity to **Account**, and Event Pipeline Stage of PreValidation.

Answer area

In the Plug-in Registration tool, select **Register New Assembly**.

In the Plug-in Registration tool, select **Register New Step**. Set the Message to **Update**, Primary Entity to **Account**, and Event Pipeline Stage of PreOperation.

In the Plug-in Registration tool, select **Register New Image**, change the Image type be a **PreImage**, and ensure the accountnumber is included as a parameter.

Step 1: In the Plug-in Registration tool, select Register New Assembly. You use the Plug-in Registration tool (PRT) to register your plug-in assemblies and steps.

Registering an assembly is the process of uploading the assembly to the Dataverse database.

Step 2: In the Plug-in Registration tool, Select Register New Step,..PreOperation PreOperation occurs before the main system operation and within the database transaction.

If you want to change any values for an entity included in the message, you should do it here.

Step 3: In the Plug-in Registration tool, Select Register New Image, change the Image type to be a PreImage, and..

If your plug-in step is registered in the PreValidation or PreOperation stages of the execution pipeline, you could use the Organization service to retrieve the current value of the property, but this is not a good practice for performance. A better

practice is to define a pre-entity image with your plug-in step registration.

QUESTION 2

HOTSPOT

You create a Power Platform solution to track purchasing requirements for bills of material (BOMs) and their subcomponents.

The solution must meet the following requirements:

1.

Ensure that the BOMs are enabled to include the necessary subcomponents.

2.

Report changes to the BOMs or their sub-components that are made by engineers.

You need to configure the solution.

What should you do to meet each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Requirement	Action
Ensure the BOMs can include necessary subcomponents.	Configure entity relationships. Configure Quick View. Configure environment variables.
Report who changed the BOM records and when the changes were made.	Configure entity change tracking. Configure entity auditing. Configure environment variables.

Correct Answer:

Answer Area

Requirement	Action
Ensure the BOMs can include necessary subcomponents.	Configure entity relationships. Configure Quick View. Configure environment variables.
Report who changed the BOM records and when the changes were made.	Configure entity change tracking. Configure entity auditing. Configure environment variables.

Box 1: Configure entity relationship

Box 2: Configure entity change tracking The change tracking feature in Microsoft Dataverse provides a way to keep the data synchronized in an efficient manner by detecting what data has changed since the data was initially extracted or last synchronized. Previously, without this new feature, it was difficult to build a reliable and efficient mechanism to determine what records had changed in Dataverse.

Reference: https://docs.microsoft.com/en-us/powerapps/developer/data-platform/use-change-tracking-synchronize-data-external-systems

QUESTION 3

HOTSPOT

A company uses Dynamics 365 Sales.

You need to configure the customer lookup search for email activity in the canvas app.

How should you complete the expression? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

```
If ( [IsBlank | AsType | IsType] ( ThisItem.'Company Name' ), "",
    [IsBlank | AsType | IsType] ( ThisItem.'Company Name', [@Accounts] ),
        "Account: " & [IsBlank | AsType | IsType] ( ThisItem.'Company Name', [@Accounts] ).'Account Name',
        "Contact: " & [IsBlank | AsType | IsType] ( ThisItem.'Company Name', [@Contacts] ).'Full Name'
)
```

Correct Answer:

```
If ( [IsBlank | AsType | IsType] ( ThisItem.'Company Name' ), "",
    [IsBlank | AsType | IsType] ( ThisItem.'Company Name', [@Accounts] ),
        "Account: " & [IsBlank | AsType | IsType] ( ThisItem.'Company Name', [@Accounts] ).'Account Name',
        "Contact: " & [IsBlank | AsType | IsType] ( ThisItem.'Company Name', [@Contacts] ).'Full Name'
)
```

Box 1: IsBlank

The IsBlank function tests for a blank value or an empty string. The test includes empty strings to ease app creation since some data sources and controls use an empty string when there is no value present.

Box 2: IsType

The IsType function tests whether a record reference refers to a specific table type.

Box 3: AsType

The AsType function treats a record reference as a specific table type, sometimes referred to as casting. You can use the result as if it were a record of the table and again use the Record.Field notation to access all of the fields of that record.

An error occurs if the reference isn\\'t of the specific type.

Box 4: AsType

QUESTION 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than once correct solution,

while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are developing a model-driven app for a company.

When you create a new Account record, you must automatically display a form to collect data that is needed to create a Contact record. The form must switch to the appropriate form layout based on the contact type.

You open the Contact form by using JavaScript. You pass the contact type information to the form by using the Xrm.Navigation.openForm function. An OnLoad event handler in the Contact form processes the data and shows only the

appropriate sections of the form for the given contact type.

You need to configure the receiving form to accept the data parameter.

Solution: Export the solution, edit the customizations.xml, and add a querystringparameter element to the XML.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

Within the exported solution customizations.xml file, immediately following the footer element, you can add a element. In the element, add elements to specify which parameters will be allowed.

Note: By default, model-driven apps allows a specified set of query string parameters to be passed to a form. You use these parameters to set default values when you create a new record in the application. Each parameter must use a standard naming convention that includes a reference to the column logical name.

There are two ways to specify which query string parameters will be accepted by the form: Edit form properties Edit form XML

Reference: https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/configure-form-accept-custom-querystring-parameters

QUESTION 5

DRAG DROP

You are creating a model-driven app for users to submit and manage budgets for projects.

You must create a business process flow to ensure any lead with a budget over $10,000 requires approval by a manager. You must add a custom control that allows users to select the estimated budget cost for a project.

You need to add the control to the business process flow.

in which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

- Paste control description FormXML into the correct stage of the business process flow in the exported solution.
- Export the business process flow and the Lead form as two separate solutions.
- Copy all control description FormXML from the Lead form of the exported solution.
- Add a control to the Lead form by using the form designer.
- Import the solution into the system and publish.

Answer area

Correct Answer:

Actions

Answer area

Export the business process flow and the Lead form as two separate solutions.

Copy all control description FormXML from the Lead form of the exported solution.

Add a control to the Lead form by using the form designer.

Import the solution into the system and publish.

Paste control description FormXML into the correct stage of the business process flow in the exported solution.

QUESTION 6

You need to resolve the issue with the new command button. What should you do?

A. Pass ExecutionContext to the function in the action definition.

B. Pass the value SelectedControl to the function in the action definition.

C. Select the Pass execution context as first parameter option on the event registration form.

D. Pass the value PrimaryControl to the function in the action definition.

Correct Answer: C

Requirements. Historical Information Scoring

The automated process must run weekly to assess all candidates. The process must also run automatically when historical information is updated. You must be able to perform scoring by selecting a command button on the contact form.

This new command button must only be visible to employees who belong to a security role assigned named Recruiter. The command button must not be visible to anyone unless the contact form is in Update mode.

The execution context defines the event context in which your code executes.

The execution context defines the event context in which your code executes. The execution context is passed when an event occurs on a form or grid, which you can use it in your event handler to perform various tasks such as determine

formContext or gridContext, or manage the save event.

The execution context is passed in one of the following ways:

1.

Defining event handlers using UI: The execution context is an optional parameter that can be passed to a JavaScript library function through an event handler. Use the Pass execution context as first parameter option in the Handler Properties dialog while specify the name of the function to pass the event execution context. The execution context is the first parameter passed to a function.

2.

Defining event handlers using code: The execution context is automatically passed as the first parameter to functions set using code.

Reference: https://docs.microsoft.com/en-us/power-apps/developer/model-driven-apps/clientapi/clientapi-execution-context https://docs.microsoft.com/en-us/power-apps/developer/model-driven-apps/clientapi/reference/execution-context

QUESTION 7

A company uses Microsoft Dataverse rollup fields to calculate insurance exposure and risk profiles for customers.

Users report that the system does not update values for the rollup fields when new insurance policies are written.

You need to recalculate the value of the rollup fields immediately after a policy is created.

What should you do?

A. Create new calculated fields on the customer entity for insurance exposure and risk. Create a formula to calculate the sum of values from policy records.

B. Change the frequency of the Calculate Rollup Field recurring job from every hour to every five minutes.

C. Create a plug-in that uses the update method for the rollup fields. Configure a step on the Create event for the policy entity for this plug-in.

D. Create a plug-in that uses the CalculateRollupFieldRequest method for the rollup field. Configure a step on the Create event for the policy entity for this plug-in.

Correct Answer: D

QUESTION 8

A customer wants to design a complex business process flow that includes six custom entities and four stages for each entity. One of the stages will have 15 steps.

You need to explain the flaw in this design to the customer.

What is the flaw in this design?

A. The maximum number of custom entities has been exceeded.

B. The maximum number of steps for a stage has been exceeded.

C. The maximum number of stages for an entity has been exceeded.

D. The minimum number of stages for an entity has not been met.

E. The minimum number of steps for a stage has not been met.

Correct Answer: A

Maximum number of processes, stages, and steps:

To ensure acceptable performance and the usability of the user interface, there are some limitations you need

to be aware of when you plan to use business process flows:

1.

Multi-entity processes can contain no more than five entities. There can be no more than 10 activated business process flow processes per entity.

2.

Each process can contain no more than 30 stages.

Reference: https://docs.microsoft.com/en-us/power-automate/business-process-flows-overview

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QUESTION 9

DRAG DROP

You are creating a model-driven app for a company. Sales team members will use the app to manage leads. The app will interact with the Microsoft Dataverse Leads table.

You must configure the app to meet the following requirements:

If the estimated value for a lead is greater than $10,000 the app must:

-Send an email to a manager.

-

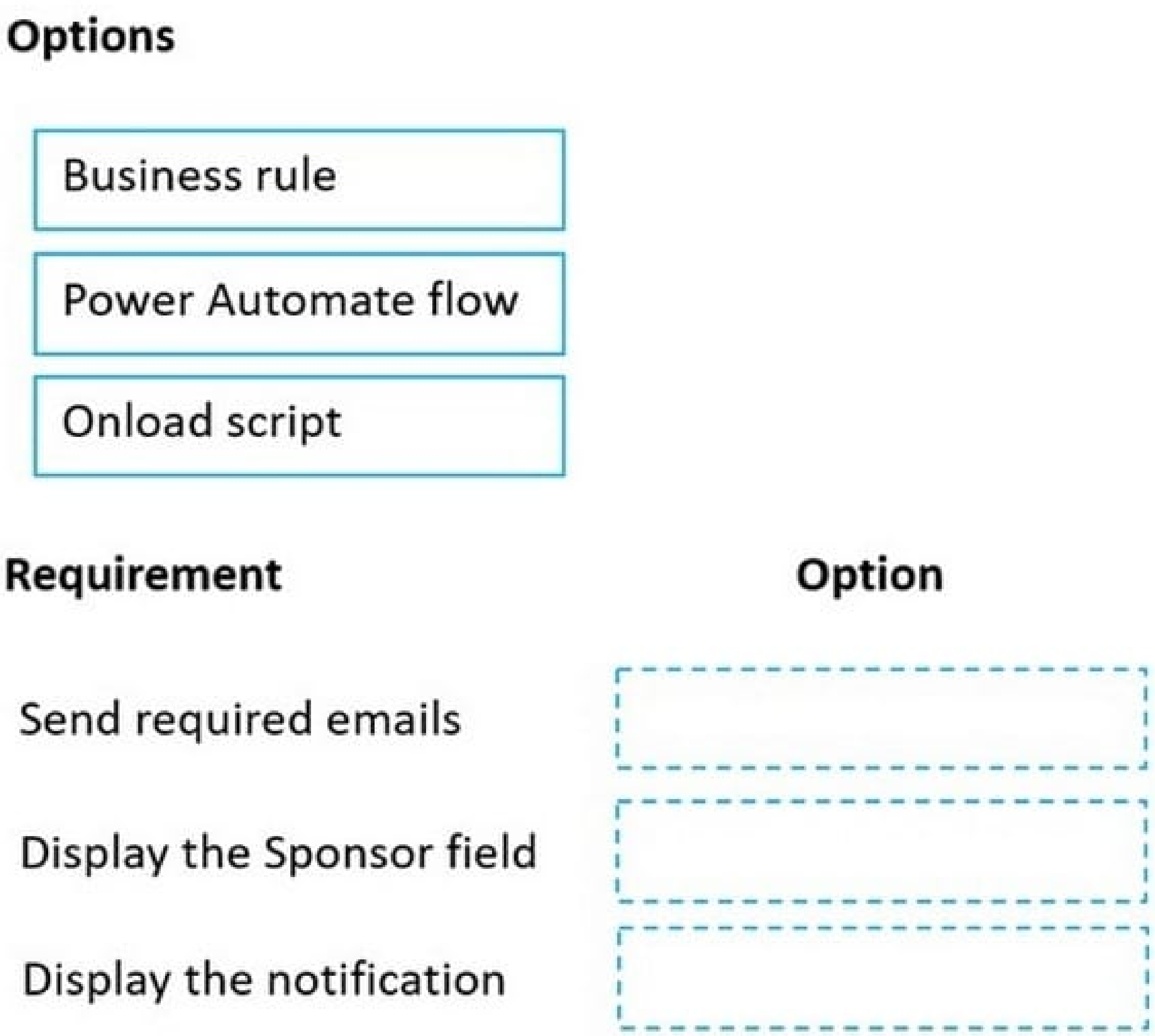
Display a field named Sponsor on the lead form. If the estimated value for a lead is greater than $100,000 the app must:

-Send an email to the company\\'s vice president.

-

Display the following message as a notification while the lead record is open: High value customer, handle with care. You need to configure the app. The solution must minimize the use of code. Which options should you use? To answer, drag the appropriate options to the correct requirements. Each option 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.

Select and Place:



Correct Answer:

Options

Requirement	Option
Send required emails	Power Automate flow
Display the Sponsor field	Business rule
Display the notification	Onload script

Box 1: Power Automate flow

Here are the top how-to scenarios for email in Microsoft Power Automate, with examples of how to achieve them.

1.

Send a beautifully formatted email.

2.

Add an image to your email.

3.

Send email to a distribution list.

4.

Send automatic replies from a shared mailbox.

5.

Change the date and time format of an email.

Box 2: Business rule

Business Rules in PowerApps

Set values of a field.

Clear values of a field.

Set field requirement levels.

Show or hide fields.

Enable or disable fields.

Validate data and show error messages.

Create business recommendations based on business intelligence.

Box 3: Onload script

Display the following message as a notification while the lead record is open: High value customer, handle with care.

Reference:

https://docs.microsoft.com/en-us/power-automate/email-customization

https://imperiumdynamics.com/blog/business-rules-in-powerapps.html

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QUESTION 10

You are creating a model-driven app. You create JavaScript code to display a message when a record is saved. You need to configure the associated JavaScript web resource name when adding the event handler to the form. Which field should you use?

A. Event Type

B. Component

C. Function

D. Library

Correct Answer: D

Configure an event handler

The following procedure describes how to configure an event handler for a form.

1.

Sign in to Power Apps, open the table that you want, and then open the form in the form designer where you want to configure an event handler.

2.

Depending on the library state, choose from the following…

3.

On the Events tab, select Event Handler and complete the following information to configure the form event, and then select Done:

*

Event Type:

On Save: When a record is saved after a form field change.

On Load: When the form opens.

*

Library: The JavaScript web resource.

*

Etc.

Reference:

https://docs.microsoft.com/en-us/power-apps/maker/model-driven-apps/configure-event-handlers-legacy

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QUESTION 11

DRAG DROP

You are creating a Power Platform solution for a fitness studio. Members of the studio will use the solution to track their progress towards fitness goals. Personal trainers create programs with different exercises to match a member\\'s fitness

level. Members can opt into a program to submit information about their progress with exercises suggested by a trainer.

Fitness programs and exercises have specific durations, prices, and dates.

You need to ensure that members can see all of the exercises that a trainer suggests in their calendars.

What should you use? To answer, drag the appropriate options to the data types. Each option 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.

Select and Place:

Options

- Standard table with Organization ownership
- Standard table with User or Team ownership
- Activity table with User or Team ownership

Answer Area

Data type	Option
Fitness program	Option
Exercise	Option

Correct Answer:

Options

Standard table with Organization ownership

Answer Area

Data type	Option
Fitness program	Standard table with User or Team ownership
Exercise	Activity table with User or Team ownership

Box 1: Standard table with User or Team ownership

Table ownership

There are two different types of standard and custom table ownership. When you create a custom table the ownership options are User or team or Organization owned. Once a table is created, the ownership type can\\'t be changed.

Organization - Data belongs to the organization. Access to the data is controlled at the organization level.

User or team - Data belongs to a user or a team. Actions that can be performed on these rows can be controlled on a user level.

Note: Tables appear in Power Apps as one of three different types, which indicate how the table came into the environment, whether the table is managed or unmanaged, and whether it can be customized.

*

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. Most of the standard tables included with Dataverse can be customized. Tables that are imported as part of a managed solution and set as customizable also appear as standard tables. Any user with appropriate privileges can customize these tables where the table property has customizable set to true.

*

Managed: Are tables that aren\\'t customizable and have been imported into the environment as part of a managed solution.

*

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: Activity table with User or Team ownership Activity tables An activity can be thought of as any action for which an entry can be made on a calendar. An activity has time dimensions (start time, stop time, due date, and duration) that help determine when the action occurred or will occur. Activities also contain data that helps determine what action the activity represents, for example, subject and description. An activity can be opened, canceled, or completed. The completed status of an activity will have several sub-status values associated with it to clarify the way that the activity was completed.

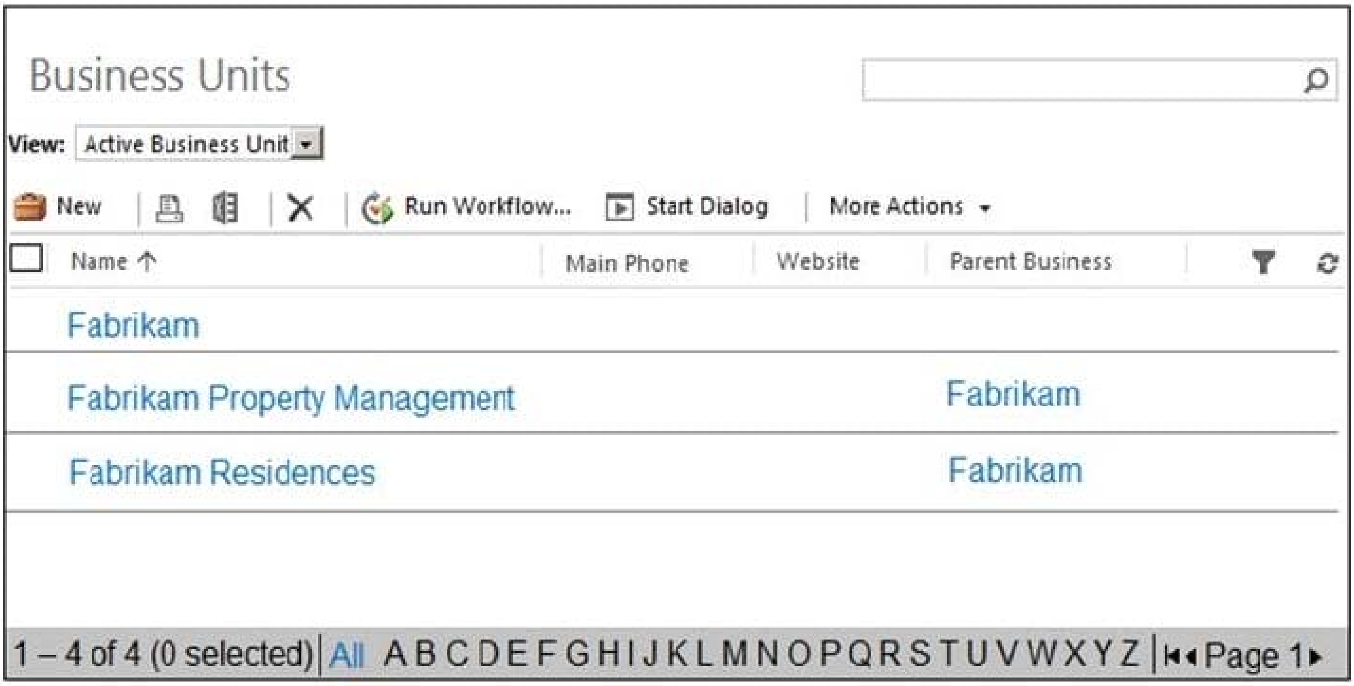
Activity tables are a special kind of table that can only be owned by a user or team, but can\\'t be owned by an organization. When you create a table, you can specify it as a standard or activity table.

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

QUESTION 12

HOTSPOT

Fabrikam, Inc, has two divisions as shown in the Business Unit exhibit. (Click the Business Unit tab.)

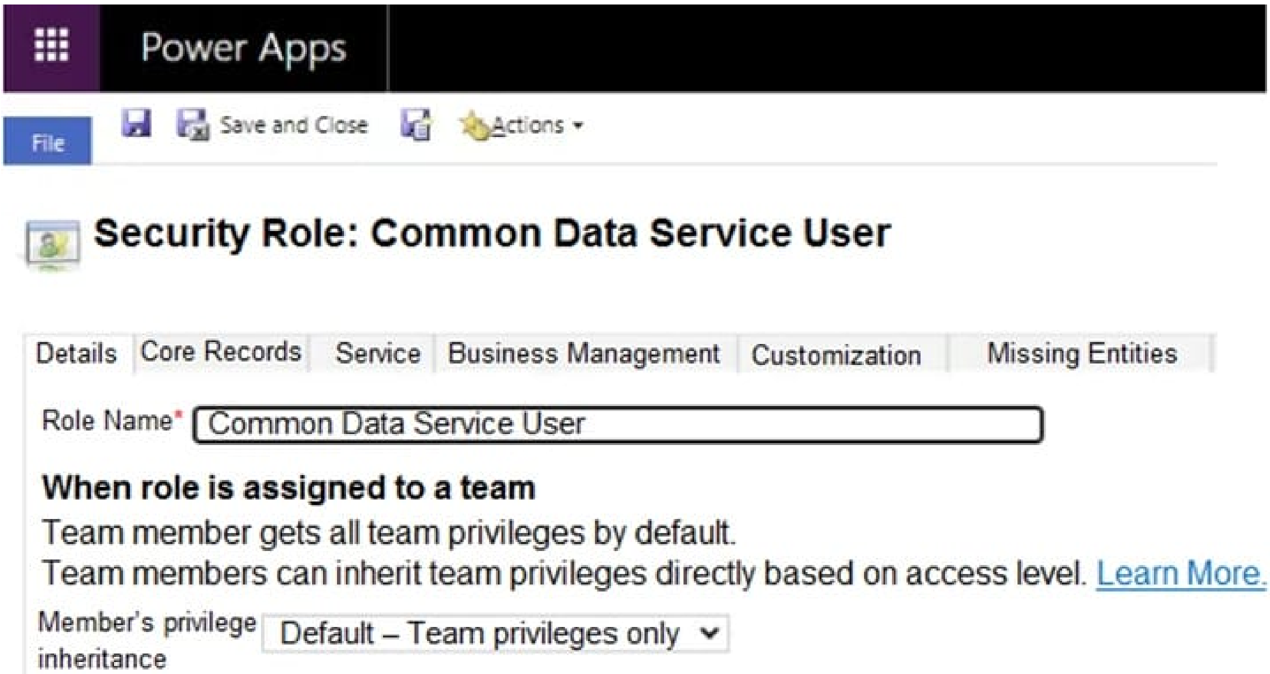


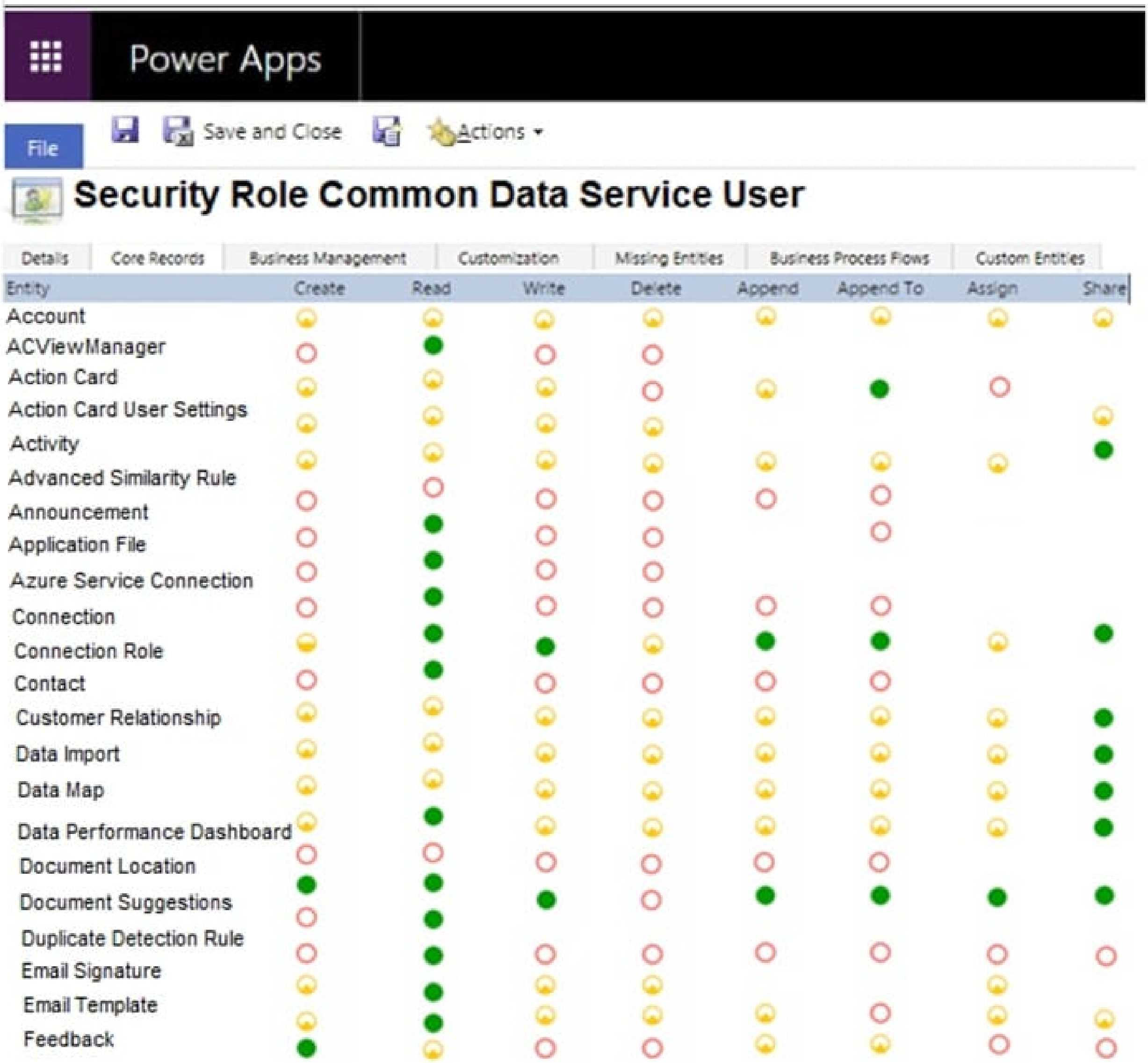
Fabrikam Residences rents units short term to clients.

Fabrikam Property Management deals with the maintenance of the units and manages the contractors who perform the maintenance.

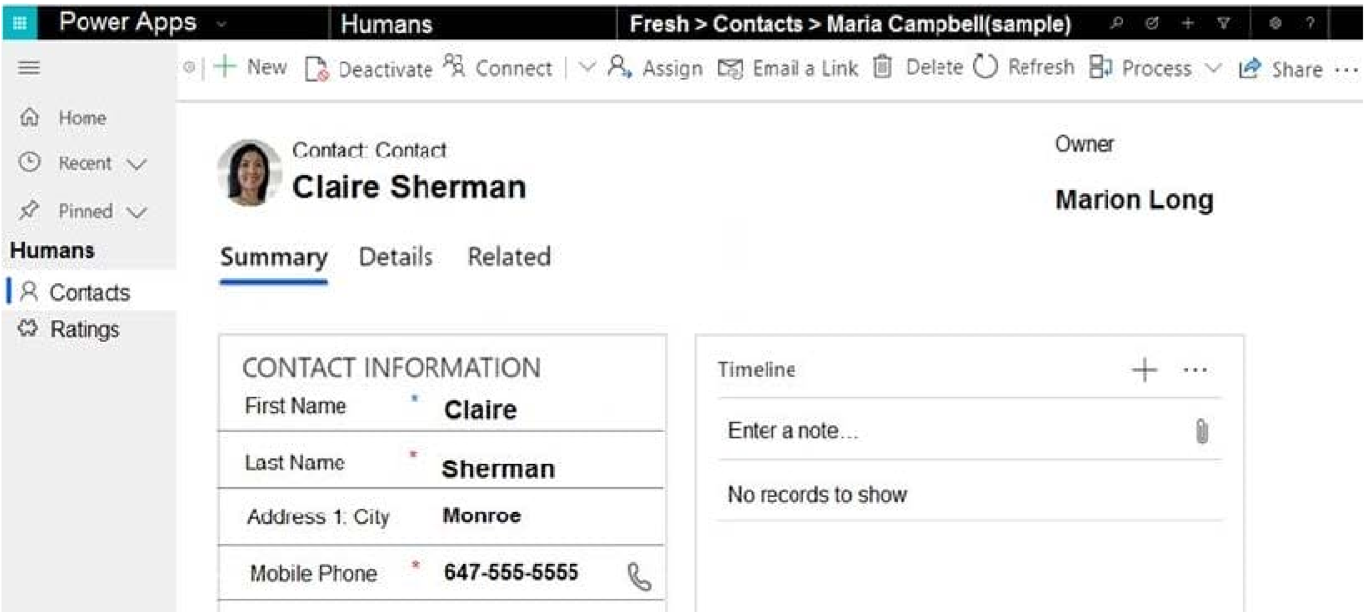
Clients and contractors are both stored in the Contact entity.

The manager of the Property Management business unit is a member of a Fabrikam business unit, which has the root security role as shown in the Security Role exhibit. (Click the Security Role tab.)


Power Apps
File
Save and Close
Actions
Security Role: Common Data Service User
Details
Core Records
Service
Business Management
Customization
Missing Entities
Role Name*
Common Data Service User
When role is assigned to a team
Team member gets all team privileges by default.
Team members can inherit team privileges directly based on access level. Learn More.
Member's privilege inheritance
Default – Team privileges only


Power Apps
File
Save and Close
Actions
Security Role Common Data Service User
Details
Core Records
Business Management
Customization
Missing Entities
Business Process Flows
Custom Entities
Entity
Create
Read
Write
Delete
Append
Append To
Assign
Share
Account
ACViewManager
Action Card
Action Card User Settings
Activity
Advanced Similarity Rule
Announcement
Application File
Azure Service Connection
Connection
Connection Role
Contact
Customer Relationship
Data Import
Data Map
Data Performance Dashboard
Document Location
Document Suggestions
Duplicate Detection Rule
Email Signature
Email Template
Feedback

The manager cannot see the contact record shown in the Contact exhibit. (Click the Contact tab.)



You need to ensure that the manager can view contact records owned by someone in the Residences business unit. For each of the following statements, select Yes if the statement achieves the goal. Otherwise, select No.

Hot Area:

Answer Area

Statement	Yes	No
Modify the security inheritance.	○	○
Move the manager to the root Fabrikam business unit.	○	○
Expand the Read permission of the security role to be Business Unit level.	○	○

Correct Answer:

Answer Area

Statement	Yes	No
Modify the security inheritance.		
Move the manager to the root Fabrikam business unit.		
Expand the Read permission of the security role to be Business Unit level.		

QUESTION 13

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are developing a model-driven app for a company.

When you create a new Account record, you must automatically display a form to collect data that is needed to create a Contact record. The form must switch to the appropriate form layout based on the contact type.

You open the Contact form by using JavaScript. You pass the contact type information to the form by using the Xrm.Navigation.openForm function. An OnLoad event handler in the Contact form processes the data and shows only the

appropriate sections of the form for the given contact type.

You need to configure the receiving form to accept the data parameter.

Solution: In the form editor, add a query string parameter for the data parameter.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

By default, model-driven apps allows a specified set of query string parameters to be passed to a form. You use these parameters to set default values when you create a new record in the application. Each parameter must use a standard naming convention that includes a reference to the column logical name.

There are two ways to specify which query string parameters will be accepted by the form:

1.

Edit form properties

2.

Edit form XML

When you edit a form, on the Home tab in the Form group, select Form Properties. In the Form Properties dialog box, select the Parameters tab.

Use this tab to modify the names and data types that the form allows.

Reference:

https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/configure-form-accept-custom-querystring-parameters

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QUESTION 14

You are developing a Power Platform solution for a medical practice. You create a custom table named Doctors to record details about the doctors who work at the medical practice.

You must be able to attach a PDF copy of a doctor\\'s medical license to the row for each doctor.

You need to configure the table.

What should you do?

A. Create a Power Automate flow to add attachments.

B. Navigate to Table options and enable attachments.

C. Navigate to Column options and enable attachments.

D. Create relationships between the Doctor table and the Notes table.

Correct Answer: C

A file column is used for storing file data up to a specified maximum size. A custom or customizable table can have zero or more file columns plus a notes (annotation) collection with zero to one attachment in each note.

Reference: https://docs.microsoft.com/en-us/powerapps/developer/data-platform/file-attributes

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QUESTION 15

HOTSPOT

A company updates their client contact information periodically. The contact entity has alternate keys defined.

You have the following code. (Line numbers are included for reference only.)

```
Entity contact = new Entity()
{
  LogicalName = "contact",
  KeyAttributes =
  {
    {"lastname", "Smith"},
    {"clientnumber", "abc123"}
   }
 },
contact["lastname"] = "Doe";
UpsertRequest updcontact = new UpsertRequest ();
{
  Target = contact;
 }
UpsertResponse response = ( UpsertResponse )service.Execute(updcontact);
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statement	Yes	No
If the last name is an alternate key and there are no contacts with the last name Smith, the stored value of the last name is Smith.		
If the client number is an alternate key and the client number exists, the stored value of the last name is Smith.		
If the last name is an alternate key and there are people who have the last name Smith, the stored value of the last name is Smith.		
If the client number is an alternate key and the client number does not exist, the stored value of the last name is Smith.		

Correct Answer:

Answer Area

Statement	Yes	No
If the last name is an alternate key and there are no contacts with the last name Smith, the stored value of the last name is Smith.		
If the client number is an alternate key and the client number exists, the stored value of the last name is Smith.		
If the last name is an alternate key and there are people who have the last name Smith, the stored value of the last name is Smith.		
If the client number is an alternate key and the client number does not exist, the stored value of the last name is Smith.		

Reference: https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/use-alternate-key-create-record

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