PL-400^{Q&As}

Microsoft Power Platform Developer

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QUESTION 1

HOTSPOT

You are developing a canvas app for a healthcare center.

You need to create custom tables for the solution. You have the following requirements:

Requirement	Comment
Store information about doctors.	Store the name, location, license number, and a list of certifications for each doctor that works at the healthcare center.
Store information about prescription medications.	Reference prescription data from an external database.

You need to create the tables.

Which table type should you create? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Requirement	Table type
Store information about doctors.	Virtual / Activity / Standard
Store information about prescription medications.	Virtual / Activity / Standard

Correct Answer:

Answer Area

Requirement	Table type
Store information about doctors.	Virtual / Activity / **Standard**
Store information about prescription medications.	**Virtual** / Activity / Standard

Box 1: Standard

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: Virtual

A virtual table is a custom table in Microsoft 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, 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:

* Activity

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

https://docs.microsoft.com/en-us/power-apps/maker/data-platform/create-edit-virtual-entities

QUESTION 2

DRAG DROP

You are researching integrations with several external systems.

Each integration has different requirements.

You need to determine which data sources to use to meet each requirement.

What should you use? To answer, drag the appropriate data sources to the correct requirements. Each data source may be used once, more than one, 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:

Answer Area

Objects	Requirement	Object
Virtual entity	Support records that use an integer as a primary key.	
Custom connector	Ensure that data can be read and updated.	
	Ensure that data is available to all Common Data Service clients.	

Correct Answer:

Answer Area

Objects	Requirement	Object
Virtual entity	Support records that use an integer as a primary key.	Virtual entity
Custom connector	Ensure that data can be read and updated.	Virtual entity
	Ensure that data is available to all Common Data Service clients.	Custom connector

Box 1: Virtual entity

Initially, defining a virtual entity is the same as defining a custom entity: you specify the entity, attributes, and relationships for the new virtual entity type.

You can use GUIDs as primary keys in the external data source.

Box 2: Virtual entity

Virtual entities enable the integration of data residing in external systems by seamlessly representing that data as entities in Microsoft Dataverse (Common Data Service), without replication of data and often without custom coding. Virtual

entities support create, updates and delete of data in the external system.

Box 3: Custom connector

A custom connector is a wrapper around a REST API (Logic Apps also supports SOAP APIs) that allows Logic Apps, Power Automate, or Power Apps to communicate with that REST or SOAP API.

Reference: https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/virtual-entities/get-started-ve

QUESTION 3

You need to configure that the mobile app meets the requirements for phone entries.

Which expression should you use?

A. PlainText

B. IsMatch

C. IsType

D. IsNumeric

Correct Answer: D

When a pharmacy is added by using the mobile app, the phone number must be validated to be all digits.

Note: The IsNumeric function tests whether a value is numeric. Other kinds of values include Boolean, string, table, and record.

The return value is a Boolean true or false.

Reference:

https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/functions/function-isnumeric

QUESTION 4

DRAG DROP

You are creating a plug-in for a Power Apps app for the human resources department at the company. The app will be used to process new employees and help employees apply for an identification card.

You have the following requirements:

1.

Applications must not be marked as complete if the employee has not completed mandatory drug screening.

2.

Add logic that stores the name of the human resources team member that approves an application. This step must be completed before an ID card is created for the applicant.

3.

Successful validation and ID card printing.

You need to configure the event pipeline.

In which stage should you register each step.

To answer, drag the appropriate roles to the correct requirements. Each role 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:

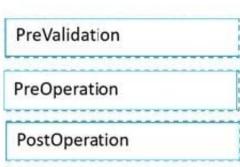**Stages**

PreValidation
PreOperation
PostOperation

Requirement

Mandatory drug screening is completed

The application is reviewed and approved

The ID card is printed

Stage

Correct Answer:

Stages

Requirement

Mandatory drug screening is completed

The application is reviewed and approved

The ID card is printed

Stage

PreValidation

PreOperation

PostOperation

Box 1: PreValidation

Applications must not be marked as complete if the employee has not completed mandatory drug screening.

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

Pre-validation stage executes outside Database Transaction which will not rollback the entire operations written in the plugin if there is any runtime error occurs in one operation. This provides an opportunity to include logic to cancel the

operation before the database transaction.

Box 2: PreOperation

Add logic that stores the name of the human resources team member that approves an application. This step must be completed before an ID card is created for the applicant.

Pre-Operation stage executes inside database transaction due to which any runtime error occurs in a single operation in the plugin will rollback entire operations which are part of the plugin.

Box 3: PostOperation

Successful validation and ID card printing.

Post Operation - Plug-ins registered in this stage are executed within the database transaction. Plugin will run after the values have been inserted/changed on the database

Reference:

https://softchief.com/2021/03/23/prevalidation-v-s-preopration-in-dynamics-365/

http://mscrmtechie.blogspot.com/2016/02/plugin-stages-pre-validation-pre.html

QUESTION 5

DRAG DROP

A company uses Common Data Service (CDS) and manages their engineers using a model-driven app.

You create a new reusable custom component named Component1 by using the Power Apps component framework (PCF).

You need to package Component1 for deployment into the model-driven app.

Which three commands should you run 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

npm run build

pac solution init-publisher-name *<publisher>* - - publisher prefix *<prefix>*

msbuild /t:build /restore

npm start

pac pcf init –namespace *<namespace>* --name *<control name>* - -template field

pac solution add-reference –path *<control path>*

npm install

Answer Area

Correct Answer:

Actions

| npm run build |

| npm start |

| pac pcf init –namespace <namespace> --name <control name> - -template field |

| npm install |

Answer Area

| pac solution init-publisher-name <publisher> - - publisher prefix <prefix> |

| pac solution add-reference –path <control path> |

| msbuild /t:build /restore |

Step 1: pac solution init --publisher-name --publisher-prefix

Create a new solutions project using the following command. The solution project is used for bundling the code component into a solution zip file that is used for importing into Dataverse.

pac solution init --publisher-name developer --publisher-prefix dev

Step 2: pac solution add-reference --path

Once the new solution project is created, refer the Solutions folder to the location where the created sample component is located. You can add the reference using the command shown below. This reference informs the solution project about which code components should be added during the build. You can add references to multiple components in a single solution project. pac solution add-reference --path c:\downloads\mysamplecomponent

Step 3: msbuild /t:build /restore To generate a zip file from the solution project, go into your solution project directory and build the project using the following command. This command uses MSBuild to build the solution project by pulling down the NuGet dependencies as part of the restore. Use the /restore only for the first time when the solution project is built. For every build after that, you can run the command msbuild.

msbuild /t:build /restore

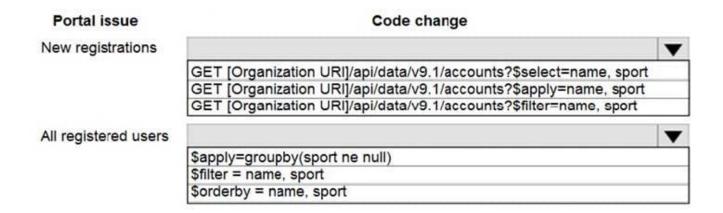Reference: https://docs.microsoft.com/en-us/powerapps/developer/component-framework/import-custom-controls

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QUESTION 6

You need to correct the portal query issues.

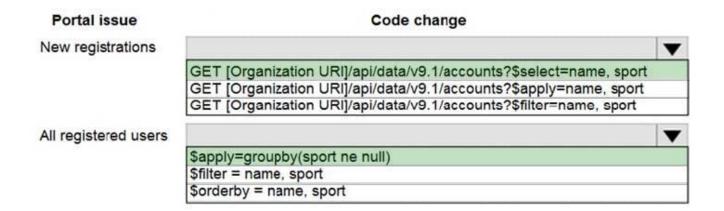Which code should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Portal issue	Code change
New registrations	▼
	GET [Organization URI]/api/data/v9.1/accounts?$select=name, sport
	GET [Organization URI]/api/data/v9.1/accounts?$apply=name, sport
	GET [Organization URI]/api/data/v9.1/accounts?$filter=name, sport
All registered users	▼
	$apply=groupby(sport ne null)
	$filter = name, sport
	$orderby = name, sport

Correct Answer:

Portal issue	Code change
New registrations	▼
	GET [Organization URI]/api/data/v9.1/accounts?$select=name, sport
	GET [Organization URI]/api/data/v9.1/accounts?$apply=name, sport
	GET [Organization URI]/api/data/v9.1/accounts?$filter=name, sport
All registered users	▼
	$apply=groupby(sport ne null)
	$filter = name, sport
	$orderby = name, sport

Scenario: The query for all registered users must return the data categorized by division.

Queries must return only the Name and Sport fields. Queries return all fields. The query is as follows:

```
GET [Organization URI]/api/data/v9.1/accounts?
&$orderby=Name, sport
&$filter=sport ne null
```

Box 1: GET ..$select=name, sport

Use select to return only the Name and Sport fields.

Box 2: $apply(groupby(sport ne null)
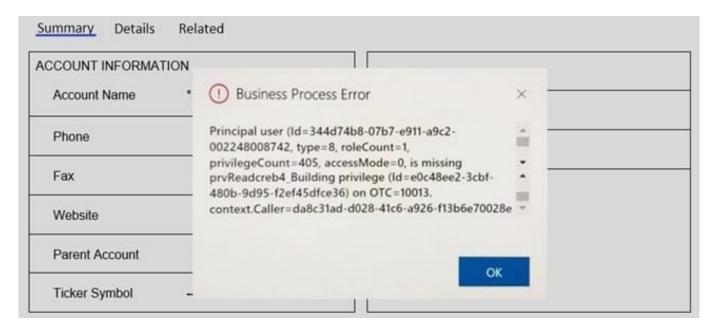
Categorize by division, that is to sports.

QUESTION 7

HOTSPOT

You have a model-driven app that uses the Common Data Service (CDS). You create three custom entities that are in many-to-one parental relationships with the Account entity.

You run a real-time workflow that assigns an account you own to another user. You receive the error message as shown in the Error Message exhibit. (Click the Error Message tab.)

Summary   Details   Related

ACCOUNT INFORMATION

Account Name   *

Phone

Fax

Website

Parent Account

Ticker Symbol   -

(!) Business Process Error   ×

Principal user (Id=344d74b8-07b7-e911-a9c2-
002248008742, type=8, roleCount=1,
privilegeCount=405, accessMode=0, is missing
prvReadcreb4_Building privilege (Id=e0c48ee2-3cbf-
480b-9d95-f2ef45dfce36) on OTC=10013.
context.Caller=da8c31ad-d028-41c6-a926-f13b6e70028e

OK

You check the security roles for the user as shown in the Manage User Roles exhibit. (Click the Manage User Roles tab.). Microsoft PL-400

Manage User Roles   ×

What roles would you like to apply to the 1 User you have selected?

Role Name	Business Unit
☑ Common Data Service User	org3f9b041e
☐ Delegate	org3f9b041e
☐ Environment Maker	org3f9b041e
☐ Knowledge Manager	org3f9b041e
☐ System Administrator	org3f9b041e
☐ System Customizer	org3f9b041e

OK   Cancel

You also check the privileges for that role as shown in the Common Data Service User Security Role exhibit. (Click the Security Role tab.)

Details	Core Records	Service	Business Management	Customization	Missing Entities	Business Process Flows	Custom Entities		
Entity				Create	Read	Write	Delete	Append	Append To	Assign	Share
Account				◐	◐	◐	◐	◐	◐	◐	◐

Details	Core Records	Service	Business Management	Customization	Missing Entities	Business Process Flows	Custom Entities		
Entity				Create	Read	Write	Delete	Append	Append To	Assign	Share
Asset				◐	●	◐	○	○	○	◐	○
Building				○	○	○	○	○	○	○	○
Job				●	●	●	●	●	●	●	●

You need to prevent the error from recurring.

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:

Statements	Yes	No
Changing the **Append To** privilege on the Account entity to **Organization** prevents the error from recurring.	○	○
Adding the Environment Maker role to the user prevents the error from recurring.	○	○
Adding the System Customizer role to the user prevents the error from recurring.	○	○
Setting all the privileges for the Building entity to **User** prevents the error from recurring.	○	○

Correct Answer:

Statements	Yes	No
Changing the **Append To** privilege on the Account entity to **Organization** prevents the error from recurring.	○	●
Adding the Environment Maker role to the user prevents the error from recurring.	○	●
Adding the System Customizer role to the user prevents the error from recurring.	●	○
Setting all the privileges for the Building entity to **User** prevents the error from recurring.	●	○

Box 1: No

There is a read error.

Box 2: No

Note: The Environment Maker role can create resources within an environment including apps, connections, custom connectors, gateways, and flows using Power Automate.

Box 3: Yes

The System Customizer role is similar to the System Administrator role which enables non- system administrators to customize Dynamics 365. A Customizer is a user who customizes entities, attributes and relationships.

Box 4: Yes

QUESTION 8

HOTSPOT

You are creating a model-driven app to track the time that employees spend on individual projects.

You need to configure the app according to the company\\'s requirements.

Which components should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Requirement	Component
Ensure that the values stored in the Project Name field are discoverable in Advanced Find.	▼ Entity View Connector
Display the original estimated duration as estimated start and end dates for the operation during time entry.	▼ Quick View Card Quick Create

Correct Answer:

Answer Area

Requirement	Component
Ensure that the values stored in the Project Name field are discoverable in Advanced Find.	▼ Entity **View** Connector
Display the original estimated duration as estimated start and end dates for the operation during time entry.	▼ **Quick View** Card Quick Create

Box 1: View Search for rows and create personal views with modern advanced find When your administrator enables the modern advanced find experience, it lets you search for rows and create personal views in your app.

Box 2: Quick View

Quick View - Used in model-driven apps, Dynamics 365 for tablets, and Dynamics 365 for Outlook.

For updated tables, these forms appear within the main form to display additional data for a row that is referenced by a lookup column in the form.

Users can view data from related tables without having to leave the form.

Incorrect Answers:

*

Quick Create - Used in model-driven apps, Dynamics 365 for tablets, and Dynamics 365 for Outlook. For updated tables, these forms provide a basic form optimized for creating new records.

*

Card - Used in views for model-driven apps. Card forms are designed to present information in a compact format that is suitable for mobile devices.

Reference: https://docs.microsoft.com/en-us/power-apps/user/advanced-find https://docs.microsoft.com/en-us/power-apps/maker/model-driven-apps/types-forms https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/customize-entity-views

QUESTION 9

HOTSPOT

You are developing a Power Platform solution. You plan to add three buttons to a form. The buttons have the following requirements:

Button	Requirement
Button1	Add the current date and time to the form when the button is selected.
Button2	Apply conditional logic to change the form color based on the option selected in the Title field.
Button3	Ensure that the word Emergency is entered as "Emergency".

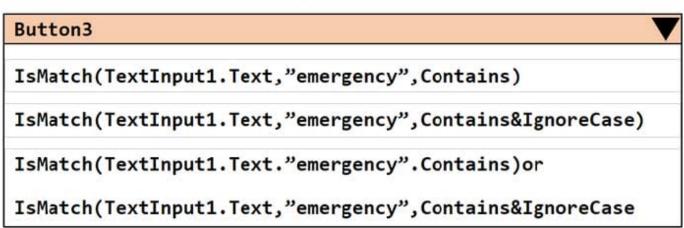You need to complete each button\\'s action.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Button1 ▼	
Today() only	
Now() only	
Today() or Now()	

Button2 ▼	
Switch() only	
IF() only	
Switch() or IF()	

Button3 ▼
IsMatch(TextInput1.Text,"emergency",Contains)
IsMatch(TextInput1.Text,"emergency",Contains&IgnoreCase)
IsMatch(TextInput1.Text."emergency".Contains)or
IsMatch(TextInput1.Text,"emergency",Contains&IgnoreCase

Correct Answer:

Button1 ▼	
Today() only	
Now() only	
Today() or Now()	

Button2 ▼	
Switch() only	
IF() only	
Switch() or IF()	

Button3 ▼
IsMatch(TextInput1.Text,"emergency",Contains)
IsMatch(TextInput1.Text,"emergency",Contains&IgnoreCase)
IsMatch(TextInput1.Text."emergency".Contains)or
IsMatch(TextInput1.Text,"emergency",Contains&IgnoreCase

Box 1: Now() only.

The Now function returns the current date and time as a date/time value.

Box 2: Switch() or IF()

If and Switch functions in Power Apps determines whether any condition in a set is true (If) or the result of a formula matches any value in a set (Switch) and then returns a result or executes an action.

Box 3: isMatch(TextInput1.Text,"emergency",Contains and IgnoreCase) Example: IsMatch(TextInput1.Text, "hello", Contains and IgnoreCase) Tests whether the user\'s input contains the word "hello" (case insensitive).

QUESTION 10

You need to create the model-driven app for referral. Which function should you add?

A. Flow

B. Workflow

C. Business rule

D. Chart

E. Subgrid

Correct Answer: C

Scenario: When the account is entered into the system, extra fields must appear if the referral customer box is selected. If the box is not selected, the extra fields must not appear.

QUESTION 11

A travel company has a Common Data Service (CDS) environment. The company requires the following:

1.

Custom entities that track which regions clients have traveled.

2.

The dates their clients traveled to these regions.

You need to create the entities and relationships to meet the requirements.

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

NOTE: Each correct selection is worth one point.

A. Create a N:N relationship from Contact to the Region entity.

B. Create a 1:N relationship from the ContactRegion intersect entity and Region.

C. Create an intersect entity named ContactRegion and create 1:N relationships to Contact and Region.

D. On the main form for ContactRegion, add lookup fields for Contact and Region, and a date field for the visit date.

E. Create a 1:N relationship from Contact to the Region entity.

F. Create the Region entity.

G. On the main form for ContactRegion, add a sub-grid to view country information.

H. Create an intersect entity named ContactRegion and create N:1 relationships to Contact and Region.

Correct Answer: CDF

Need a Region entity, a intersect entity ContactRegion between Contact and Region, and a way to input region visits.

QUESTION 12

You need to replace the bicycle inspection forms.

Which two solutions should you use? Each answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. a flow that maps inspection data to Dynamics 365 Field Service

B. a logic app that guides the technician through the inspection

C. a canvas app that guides the technician through the inspection

D. a model-driven app based on customer service entities

Correct Answer: AD

Scenario: The Adventure Works Cycles retail location performs bicycle inspections and performance tune- ups.

Technicians use paper forms to document the bicycle inspection performed before a tune-up and any additional work performed on the bicycle.

A: The Dynamics 365 Field Service business application helps organizations deliver onsite service to customer locations. The application combines workflow automation, scheduling algorithms, and mobility to set mobile workers up for success when they\\'re onsite with customers fixing issues.

D: Compared to canvas apps, model-driven apps in PowerApps are based on underlying data -- specifically, the data stored in Common Data Service (CDS). All model-driven apps are integrated into CDS. In fact, most Microsoft apps are integrated into CDS because most Microsoft apps, including the entire Dynamics 365 (D365) platform, are model-driven apps.

Incorrect Answers:

B: An Azure Logic App would not be fit for scale. Azure Logic Apps is a cloud service that helps you schedule, automate, and orchestrate tasks, business processes, and workflows when you need to integrate apps, data, systems, and services across enterprises or organizations.

Reference: https://docs.microsoft.com/en-us/dynamics365/field-service/overview https://global.hitachi-solutions.com/blog/canvas-vs-model-driven-apps

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QUESTION 13

HOTSPOT

A company is creating a new system based on Dynamics 365 Sales.

The company has the following requirements for their claim process:

Approval process must be the same for all claim applications. Claim applications must go through approvers at each stage. Fields must be shown or hidden, based on the requirements in the approval process.

You need to design the data model for the claim process using out-of-the-box components whenever possible.

Which features should you implement? To answer, select the appropriate options in the answer area.

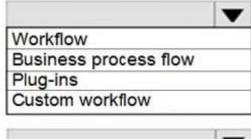NOTE: Each correct selection is worth one point.

Hot Area:

Requirement	Feature
Claim applications must go through the same approval process.	▼ Workflow Business process flow Plug-ins Custom workflow
Claim applications be routed to approvers at each stage.	▼ Power Automate flow Business process flow Actions
Claim applications must show or hide fields based on the values.	▼ Business rules JavaScript

Correct Answer:

Requirement	Feature
Claim applications must go through the same approval process.	▼ **Workflow** Business process flow Plug-ins Custom workflow
Claim applications be routed to approvers at each stage.	▼ Power Automate flow **Business process flow** Actions
Claim applications must show or hide fields based on the values.	▼ Business rules **JavaScript**

Box 1: Workflow

You configure the approval processes in a workflow.

Box 2: Business process flow

By integrating your approvals feature with Power Automate, you can implement features such as these:

Automatically generate and send request-for-approval emails to approvers. Include active approve and reject buttons in request-for-approval emails. Easy customization of the approval steps, using a framework that most administrators will be

able to understand and adjust for themselves.

Box 3: JavaScript

In Dynamics 365, you can hide and show fields using JavaScript. This is useful if you have business logic that determines if fields are displayed or not to the user.

QUESTION 14

DRAG DROP

You have several model-driven apps.

You must ensure that app creators and system administrators can customize the apps. You must follow the principle of least privilege.

You need to assign the permissions that are needed for app creators and system administrators.

Which security roles should you assign? To answer, drag the appropriate roles to the correct requirements. Each role 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:

Roles

System Administrator only

System Customizer only

Requirement   **Role**

Create customizations in the system

View all system data entities

View all data stored in system entities

Correct Answer:

Roles

System Administrator only

System Customizer only

Requirement   **Role**

Create customizations in the system   System Customizer only

View all system data entities   System Administrator only

View all data stored in system entities   System Administrator only

Box 1: System Customizer System Customizer - Create (self), Read (self), Write (self), Delete (self), Customizations
Has full permission to customize the environment. However, can only view records for environment tables that they
create.

Box 2: System Administrator only System Administrator Create, Read, Write, Delete, Customizations, Security Roles Has full permission to customize or administer the environment, including creating, modifying, and assigning security roles. Can view all data in the environment.

Box 3: System Administrator only

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

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QUESTION 15

You need to store designations and certifications.

What should you do?

A. Create a new Lookup column on the Contact table.

B. Create a new table that has an N:N relationship with the Contact table.

C. Create a new table that has an N:1 relationship with the Contact table.

D. Create a new Choices column on the Contact table.

Correct Answer: C

Requirements. Historical Information Tracking

You must create a process to identify individuals as a person of interest that the company should consider hiring. You must assign each individual a score based on their past interactions.

*

Whether the individual has any of the 12 designations or certifications that the company considers significant

*

 Etc.

Each contact can have 0, 1, or many designations or certifications.

Incorrect:

*

 A Lookup column cannot store information on 12 designations or certifications

The LookUp function finds the first record in a table that satisfies a formula. Use LookUp to find a single record that matches one or more criteria.

*

 A Choices column cannot store information on 12 designations or certifications

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.

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