PL-400 Q&As

Microsoft Power Platform Developer

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QUESTION 1

HOTSPOT

You are synchronizing company data from a SQL Server-based .NET application into a Common Data Service (CDS) environment.

The data is entered in both the SQL Server and CDS systems. You have a program that includes the following code:

```
var account = new Entity("account", "accountnumber", "CO-555");
account["name"] = "Contoso";
account["creditlimit"] = new Money(100000);
var request = new UpsertRequest() { Target = account };
var response = (UpsertResponse)_serviceProxy.Execute(request);
```

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

	Yes	No
Creating a new field to store the record identifier from the database resolves the error: `The specified key attributes are not a defined key for the account entity.`	○	○
Creating an alternate key that uses the accountnumber field resolves the error: `The specified key attributes are not a defined key for the account entity.`	○	○
If an account exists with only the account name entered as Contoso and all other fields empty, a new account record is created.	○	○
If an account exists that uses the account number CO-555, a new account record is created.	○	○

Correct Answer:

Answer Area

	Yes	No
Creating a new field to store the record identifier from the database resolves the error: `The specified key attributes are not a defined key for the account entity.`		
Creating an alternate key that uses the accountnumber field resolves the error: `The specified key attributes are not a defined key for the account entity.`		
If an account exists with only the account name entered as Contoso and all other fields empty, a new account record is created.		
If an account exists that uses the account number CO-555, a new account record is created.		

Box 1: No.

An alternate key is needed, not a new field for the record identifier.

Box 2: Yes

The specified key attributes are not a defined key for the account entity.

Name: EntityKeyNotDefined

Message: The specified key attributes are not a defined key for the {0} entity

Box 3: Yes

One way to create an entity is by using the UpsertRequest class. An upsert will create a new entity when there is no existing record that has the unique identifiers included in the entity passed with the request.

Box 4: No

Reference:

https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/org-service/web-service-error-codes

https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/org-service/entity-operations-update-delete#use-upsert

QUESTION 2

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.

A university implements Dynamics 365 Sales. Several departments use opportunity records to bid for funding for projects within their own departments. You configure the system to ensure that each department can only work on their own

records.

Employees in multiple departments often need to work together on an opportunity. Employees report that they are not able to see opportunities from other departments.

You need to ensure that employees from more than one department can work on the same opportunities when necessary.

Solution: Share the individual opportunity that members of one department are working on with all members of the second department, and give those members the appropriate permissions.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead: Use position hierarchy security and define the two departments as positions.

Two security models can be used for hierarchies, the Manager hierarchy and the Position hierarchy. The Position hierarchy allows data access across business units. If you are a financial organization, you may prefer the Manager hierarchy model, to prevent managers' accessing data outside of their business units. However, if you are a part of a customer service organization and want the managers to access service cases handled in different business units, the Position hierarchy may work better for you.

Note: The hierarchy security model is an extension to the existing security models that use business units, security roles, sharing, and teams. It can be used in conjunction with all other existing security models. The hierarchy security offers a more granular access to records for an organization and helps to bring the maintenance costs down.

Reference: https://docs.microsoft.com/en-us/power-platform/admin/hierarchy-security

QUESTION 3

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	Stage
Mandatory drug screening is completed	
The application is reviewed and approved	
The ID card is printed	

Correct Answer:

Stages

Requirement	Stage
Mandatory drug screening is completed	PreValidation
The application is reviewed and approved	PreOperation
The ID card is printed	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 4

A travel company plans to track the address of places their clients visit in an entity named Destination. Client

information is captured as contact records. Client records include links to the places that clients visit.

The company must be able to link multiple rating records to the new address record.

You find a custom Rating entity that is incomplete.

You need to expand the Rating entity to include contact, address, and rating information in one place.

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 1:N relationship between the Contact system entity and the Address system entity named Destination.

B. Create a mapping for the Contact – Rating relationship.

C. Create a 1:N relationship between the Address system entity and the Rating entity.

D. Create a 1:N relationship between the Contact system entity and the Rating entity.

E. Create a mapping for the Destination – Rating relationship.

F. Create a 1:N relationship between the Destination entity and the Rating entity.

Correct Answer: ABC

A: Each Contact can visit a destination many times.

Note: A travel company plans to track the address of places their clients visit in an entity named Destination. Client information is captured as contact records. Client records include links to the places that clients visit.

C (not D): The company must be able to link multiple rating records to the new address record.

Each address entity can be linked to many rating records.

B (not E): You need to expand the Rating entity to include contact, address, and rating information in one place.

Need a mapping between for the Contact and Rating entities (through the Address/Destination entity).

Reference:

https://docs.microsoft.com/en-us/powerapps/maker/common-data-service/map-entity-fieldsom/en-us/powerapps/maker/common-data-service/map-entity-fields

QUESTION 5

You need to add the script to populate event data on the form. Which code segment should you use?

A. formContext.data.addOnLoad(myFunction)

B. formContext.data.removeOnLoad(myFunction)

C. formContext.data.entity.addOnSave(myFunction)

D. addOnPreProcessStatusChange

E. formContext.data.isValid()

Correct Answer: A

data.addOnLoad adds a function to be called when form data is loaded.

Syntax: formContext.data.addOnLoad(myFunction)

The function to be executed when the form data loads. The function will be added to the bottom of the event handler pipeline.

Incorrect:

Not D: Wrong syntax. Need a function parameter.

Note: addOnPreProcessStatusChange adds a function as an event handler for the OnPreProcessStatusChange event so that it will be called before the business process flow status changes.

Syntax: Syntax

formContext.data.process.addOnPreProcessStatusChange(myFunction);

The function to be executed when the business process flow status changes. The function will be added to the start of the event handler pipeline.

Not E: IsValid() gets a boolean value indicating whether all of the form data is valid. This includes the main table and any unbound columns. If the form has empty, required columns on it, control-level error notifications is shown.

Description: true if all of the form data is valid; false otherwise.

Reference:

https://docs.microsoft.com/en-us/power-apps/developer/model-driven-apps/clientapi/reference/formcontext-data/addonload

https://docs.microsoft.com/en-us/power-apps/developer/model-driven-apps/clientapi/reference/formcontext-data-process/eventhandlers/addonpreprocessstatuschange

https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/reference/formcontext-data/isvalid