MB-400^Q&As

Microsoft Power Apps + Dynamics 365 Developer

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QUESTION 1

HOTSPOT

A manufacturing company takes online orders.

The company requires validation of order changes. Requirements are as follows:

1.

If validation is successful, the order is submitted.

2.

If exceptions are encountered, a message must be shown to the customer.

You need to set up and deploy a plug-in that encapsulates the rules.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Settings	Options
Execution stage	PreValidation PreOperation PostOperation
Execution mode	Asynchronous Synchronous
Image	Pre image Post image
Error message	throw new InvalidPluginExecutionException("Your error message", ex); tracingService.Trace("Your error message: {0}", ex.ToString0);

Correct Answer:

Answer Area

Settings	Options
Execution stage	PreValidation PreOperation PostOperation
Execution mode	Asynchronous Synchronous
Image	Pre image Post image
Error message	throw new InvalidPluginExecutionException("Your error message", ex); tracingService.Trace("Your error message: {0}", ex.ToString0);

Box 1: PreValidation

PreValidation

Pre-event/Pre-Validation

This stage executes before anything else, even before basic validation if the triggering action is even allowed based on security. Therefore, it would be possible to trigger the plug-in code even without actually having permission to do so and

great consideration must be used when writing a pre-validation plug-in. Also, execution in this stage might not be part of the database transaction.

Examples:- security checks being performed to verify the calling or logged on user has the correct permissions to perform the intended operation.

Note: Ideally, you should only cancel operations using synchronous plug-ins registered in the PreValidation stage. This stage usually occurs outside the main database transaction. Cancelling an operation before it reaches the transaction is

highly desirable because the cancelled operation has to be rolled back.

Box 2: Synchronous

When you throw an InvalidPluginExecutionException exception within a synchronous plug-in an error dialog with your message will be displayed to the user.

Box 3: Pre Image

When are the different images available in the event execution pipeline?

Message	Stage	Pre-Image	Post-Image
Create	PRE	No	No
Create	POST	No	Yes
Update	PRE	Yes	No
Update	POST	Yes	Yes
Delete	PRE	Yes	No
Delete	POST	Yes	No

Box 4: Throw new InvalidPluginExecutionException("Your error message", ex);

When you throw an InvalidPluginExecutionException exception within a synchronous plug-in an error dialog with your message will be displayed to the user.

Reference:

https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/handle-exceptions

https://community.dynamics.com/crm/b/thinkdynamicdodynamic/posts/pre-image-and-post-image-in-dynamics-crm

QUESTION 2

HOTSPOT

A company is preparing to go live with their Dynamics 365 Customer Engagement solution, but first they need to migrate data from a legacy system. The company is migrating accounts in batches of 1,000.

When the data is saved to Dynamics 365 Customer Engagement, the IDs for the new accounts must be output to a log file.

You have the following code:

```
ExecuteMultipleRequest request = new ExecuteMultipleRequest()
{
   Settings = new ExecuteMultipleSettings()
   {
     ContinueOnError = true,
     ReturnResponses = false
   },
   Requests = new OrganizationRequestCollection()
};
GetAccountData(request.Requests);
ExecuteMultipleResponse responseWithResults = (ExecuteMultipleResponse)crmSvc.Execute(request);
foreach (var responseItem in responseWithResults.Responses)
{
…
}
```

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

Statements	Yes	No
The developer is able to get access to the newly-created accounts IDs.	○	○
If an error occurs, the developer can get access to the request that caused the fault.	○	○
If there are errors in the requests, the request will raise an exception at the first error and stop processing.	○	○
If there are ten errors in the 1,000 CreateRequest requests, ten responses will be returned from the platform.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
The developer is able to get access to the newly-created accounts IDs.	O	O
If an error occurs, the developer can get access to the request that caused the fault.	O	O
If there are errors in the requests, the request will raise an exception at the first error and stop processing.	O	O
If there are ten errors in the 1,000 CreateRequest requests, ten responses will be returned from the platform.	O	O

Box 1: Yes

Box 2: Yes Even when ReturnResponses is false, the Responses collection will not be empty if errors are returned. If errors are returned, there will be one response item in the collection for each processed request that returned a fault and Fault will be set to the actual fault that occurred.

Box 3: No ContinueOnError, here set to true: when true, continue processing the next request in the collection even if a fault has been returned from processing the current request in the collection. When false, do not continue processing the next request.

Box 4: Yes Even when ReturnResponses is false, the Responses collection will not be empty if errors are returned. If errors are returned, there will be one response item in the collection for each processed request that returned a fault and Fault will be set to the actual fault that occurred.

Reference: https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/org-service/execute-multiple-requests

QUESTION 3

An organization plans to set up a secure custom connector for PowerApps. The app will capture tweets from Twitter about the organization\\'s upcoming product for sales follow-up.

You need to configure security for the app.

Which authentication method should you use?

A. OAuth

B. Windows authentication

C. API key

D. Basic authentication

E. Kerberos authentication

Correct Answer: A

Configure OAuth2 provider settings for portals.

The OAuth 2.0 based external identity providers involve registering an "application" with a third-party service to obtain a "client ID" and "client secret" pair.

The supported providers are:

1.

Microsoft Account

2.

Twitter

3.

Facebook

4.

Google

5.

LinkedIn

6.

Yahoo

Reference: https://docs.microsoft.com/en-us/powerapps/maker/portals/configure/configure-oauth2-settings

QUESTION 4

You need to modify Microsoft Flow to resolve CustomerC\\'s issue. What should you do?

A. Add a condition containing approval hierarchy.

B. Add a timeout setting to the approval flow.

C. Add a configure run that is set to is successful.

D. Add a data operation that specifies the false conditions.

Correct Answer: B

Scenario: CustomerC requested additional information from the parts department through the customer survey and has not received a response one week later.

Imagine having a process where you want to give someone a couple of days to reply to an approval. If that someone doesn\\'t respond in time, you want to assign a new approval to another person or group of people. To achieve this you can set the timeout in the action settings.

Reference: https://www.o365dude.com/2018/06/02/timeout-flow-approvals/

QUESTION 5

An organization has a Dynamics 365 Customer Engagement.

You plan to use a JavaScript web resources file in the Accounts form. The file has a dependency on two image web resource files and on the custom field new_placeofbirth in the Account entity.

You need to add the dependencies for the JavaScript file.

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

NOTE: Each correct selection is worth one point.

A. From Web Resources, select the JavaScript file for the Account form and then select the JavaScript file.

B. Open the web resources file, add the two image web resources to the dependency\\'s lists, and then add the custom field new_placeofbirth to the dependency\\'s list.

C. In the Account form, select Form Properties, select Non-Event Dependencies, and then add the custom field new_placeofbirth.

D. In the Account form, select Form Properties and add the primary JavaScript file and the other two image web resources in Form Libraries.

E. From Settings, select Customization and then select Customize the System.

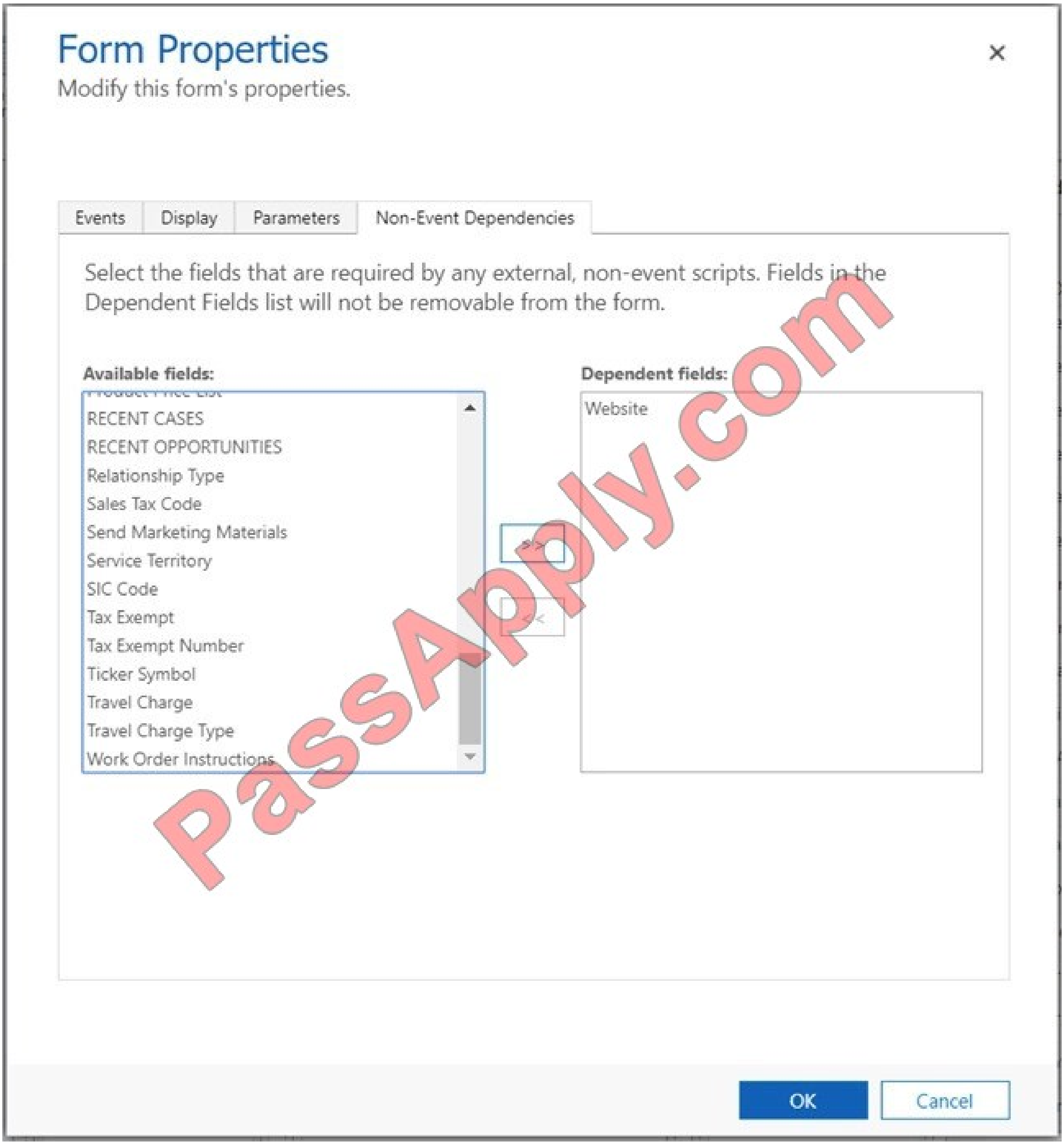
F. Select Account, select Forms, and then select the Account form.

Correct Answer: BCE

All the Web Resources stored in the database can be accessed in the CRM. Following are the steps involved Step 1 (E) ?Go to Settings then Customizations and then Customize the System.

Step 2 (B)?From the left navigation, select CRM Web Resources.

C: In our Dynamics 365 forms, there are measures we can take to ensure fields that are being used by JavaScript are not removed from forms. To prevent this from happening, we can go to Form Properties and select the Non-Event Dependencies, and add the website field:



Reference: https://msdynamics.net/microsoft-dynamics-news/crm-web-resources-using-jscript/

https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/developer/web-resource-dependencies

QUESTION 6

A financial services company uses the Common Data Service (CDS) to develop solutions. The company uses development and production instances.

You need to move solutions from the development instance to the production instance.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Export all managed solutions from the development instance and import the solutions into the production instance.

B. In the development instance, make changes to the solutions that are deployed in the production instance, export the solutions as managed solutions, and import the managed solutions into the production instance.

C. In the production instance, import solutions with the same version number or higher when updating solutions.

D. In the development instance, highlight the solution you want to make changes to, select Clone a Path, make changes, export the solution, and import the solution into the production instance.

Correct Answer: CD

Reference: https://docs.microsoft.com/en-us/power-platform/admin/wp-solution-packages

QUESTION 7

DRAG DROP

A developer must register a step using the Plug-in registration tool.

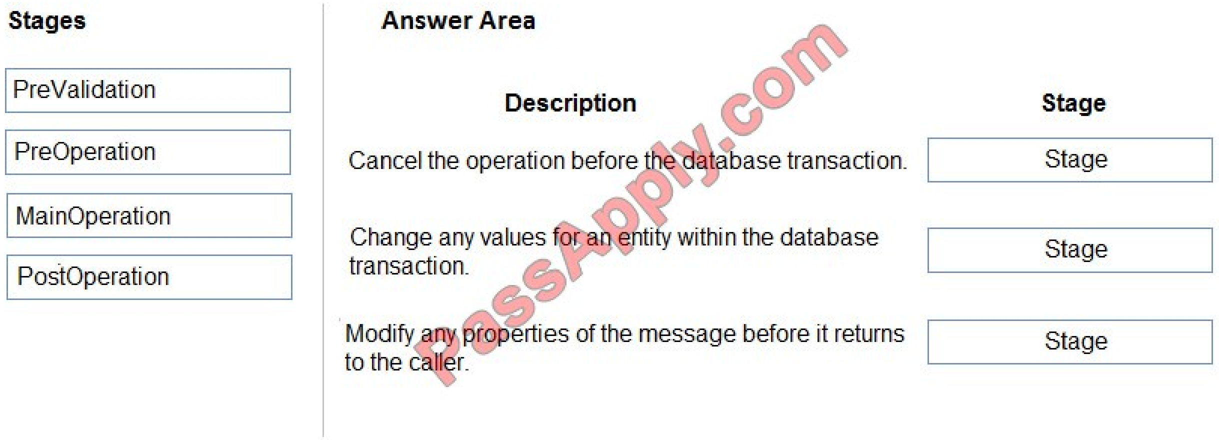
You need to associate the correct Event Pipeline Stage of Execution with its purpose.

Which stage should you associate with each description? To answer, drag the appropriate stages to the correct descriptions. Each stage may be used once, more than once, or not at all. You may need to drag the split bar between panes or

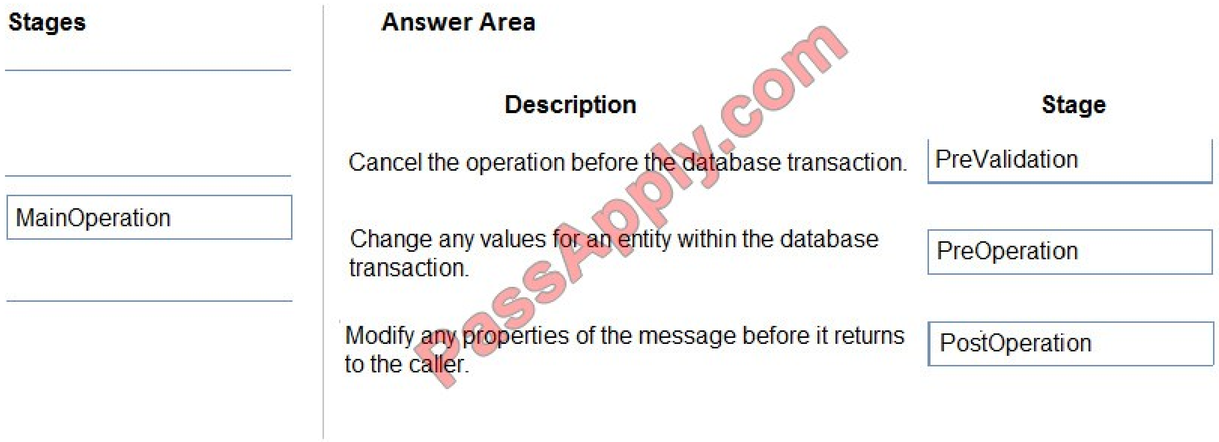
scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:



The event pipeline allows you to configure when in the event the plug-in code will execute. The event pipeline is divided into the following events and stages:

Box 1: PreValidation

Pre-event/Pre-Validation

This stage executes before anything else, even before basic validation if the triggering action is even allowed based on security. Therefore, it would be possible to trigger the plug-in code even without actually having permission to do so and

great consideration must be used when writing a pre-validation plug-in. Also, execution in this stage might not be part of the database transaction.

Examples:- security checks being performed to verify the calling or logged on user has the correct permissions to perform the intended operation.

Box 2: PreOperation

Pre-event/Pre-Operation

This stage executes after validation, but before the changes has been committed to database. This is one of the most commonly used stages.

Example uses:

If and “update” plug-in should update the same record, it is best practice to use the pre-operation stage and modify the properties. That way the plug-in update is done within same DB transaction without needing additional web service update

call.

Box 3: PostOperation

Plug-ins which are to execute after the main operation. Plug-ins registered in this stage are executed within the database transaction.

This stage executed after changes have been committed to database. This is one of the most used stages.

Example uses:

Most of the “Create” plugins are post-event. This allows access to the created GUID and creation of relationships to newly created record.

Incorrect Answers:

MainOperation:- main operation of the system, such as create, update, delete, and so on. No custom plug-ins can be registered in this stage.

Reference:

https://community.dynamics.com/crm/f/microsoft-dynamics-crm-forum/216569/ms-crm-plugin-execution-pipeline

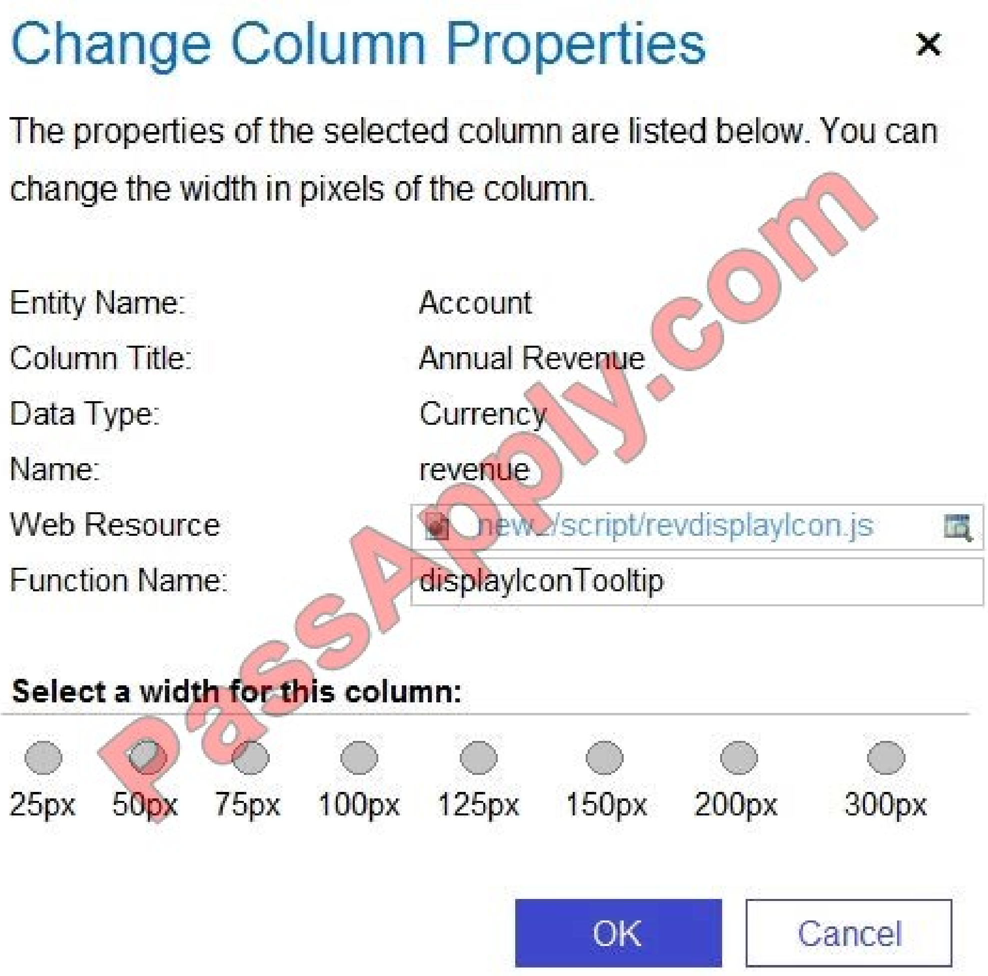
QUESTION 8

HOTSPOT

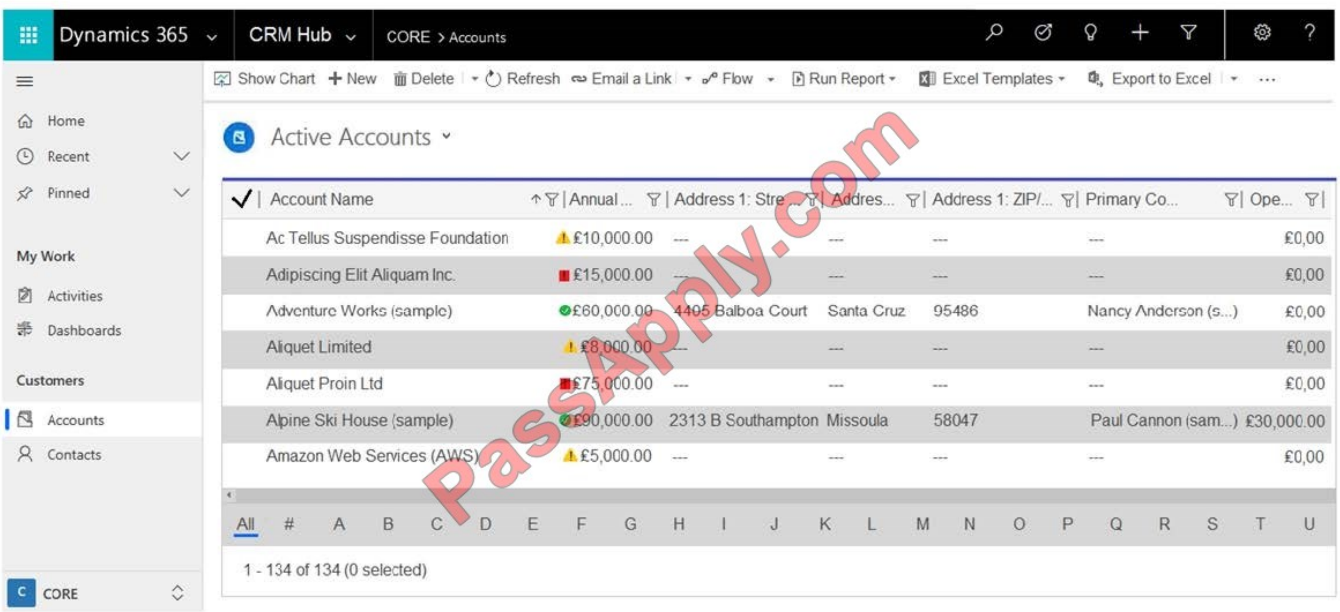
You have the following JavaScript function: (Line numbers are included for reference only.)

```
function displayIconTooltip(rowData, userLCID)
{
 var imgName = "";
 var tooltip = "Relationship Health";
 var str = JSON.parse(rowData);
 var prevrev = str.new_previousyearannualrevenue_Value;
 var rev = str.revenue_Value;
 var health = parseFloat(rev) - parseFloat(prevrev);
 if (health > 0)
    imgName = "new_good";
 else if (health == 0)
    imgName = "new_warm";
 else
    imgName = "new_bad";
 var resultarray = [imgName, tooltip];
 return resultarray;
}
```

The Annual Revenue view column is configured to call the function as shown in the Column Properties exhibit. (Click the Change Column Properties tab.)



Users report that the icons that appear in the Active Account view are incorrect, as shown in the Active Accounts View exhibit. (Click the Active Accounts View tab.)



You need to determine why the incorrect icons are being displayed.

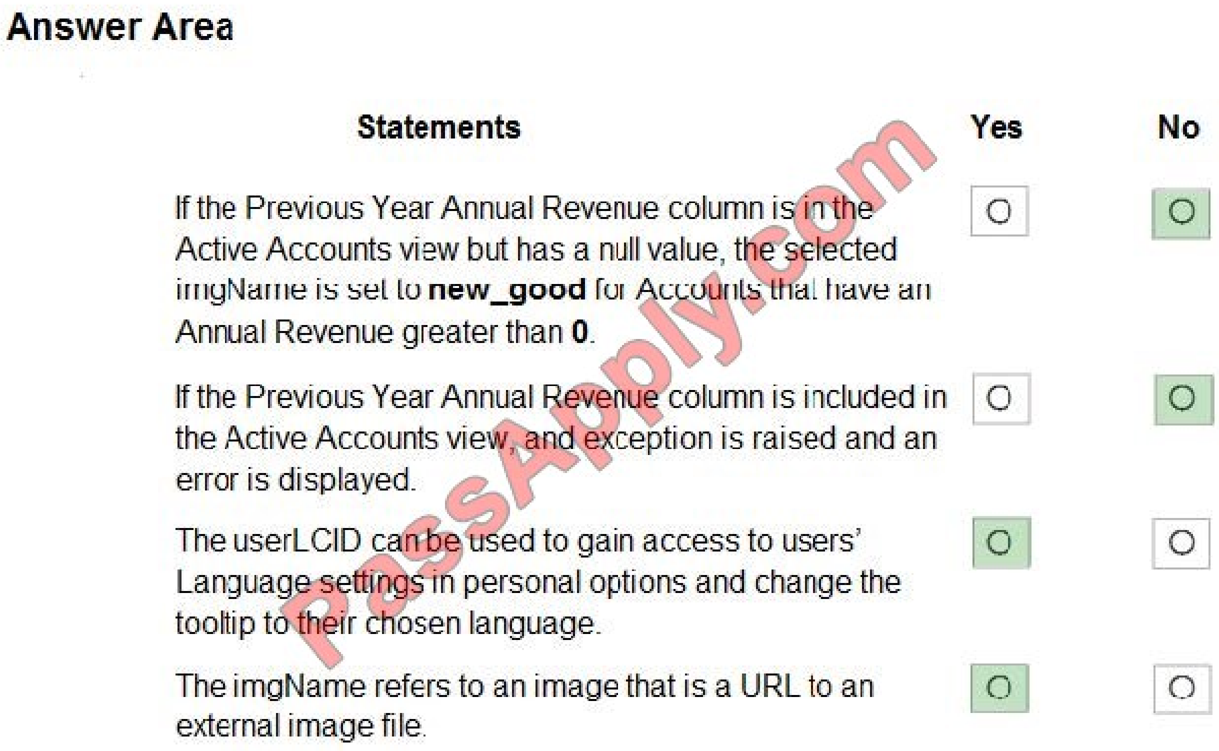
For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Hot Area:

Answer Area

Statements	Yes	No
If the Previous Year Annual Revenue column is in the Active Accounts view but has a null value, the selected imgName is set to **new_good** for Accounts that have an Annual Revenue greater than **0**.	○	○
If the Previous Year Annual Revenue column is included in the Active Accounts view, and exception is raised and an error is displayed.	○	○
The userLCID can be used to gain access to users' Language settings in personal options and change the tooltip to their chosen language.	○	○
The imgName refers to an image that is a URL to an external image file.	○	○

Correct Answer:



Answer Area

Statements	Yes	No
If the Previous Year Annual Revenue column is in the Active Accounts view but has a null value, the selected imgName is set to **new_good** for Accounts that have an Annual Revenue greater than **0**.	○	○
If the Previous Year Annual Revenue column is included in the Active Accounts view, and exception is raised and an error is displayed.	○	○
The userLCID can be used to gain access to users' Language settings in personal options and change the tooltip to their chosen language.	○	○
The imgName refers to an image that is a URL to an external image file.	○	○

Box 1: No

parseFloat will return \\'NaN\\' if it\\'s not a number (null and undefined are NaNs).

Box 2: No Box 3: Yes Session.userLCID is the Locale ID for the ASP application.

Box 4: Yes Reference: https://support.microsoft.com/en-us/help/229690/how-to-set-the-asp-locale-id-per-the-browser-s-language-settings

QUESTION 9

You need to create an application to deploy to other pharmacies. What should you do?

A. Recreate customizations in a new environment.

B. Navigate to Customize the System and export everything to a managed solution.

C. Clone the solution

D. Create packages for Package Deployer.

Correct Answer: D

Scenario: The new solution will be sold to other pharmacies for use. The application must not allow changes to be made.

Microsoft Dynamics CRM Package Deployer enables administrators to deploy packages on Customer Engagement (on-premises) or Common Data Service environment.

Incorrect Answers:

B: You can only export an unmanaged solution.

Reference: https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/customize/export-solution

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QUESTION 10

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 one 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.

An organization has an Azure SQL Database instance that must be synchronized daily with data from Dynamics 365 Sales. A large amount of data might need to be synchronized on some days.

You need to reduce the time required to synchronize data.

Solution:

1.

Write a SSIS package to connect to the source and target.

2.

Develop the SSIS package to find the records by the Modified on field.

3.

Create or update the records in the database instance based on results. Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead enable change tracking for entities that will be synchronized, and use the Data Export Service to sync data between the database and Dynamics 365 Sales.

Reference: https://docs.microsoft.com/en-us/power-platform/admin/enable-change-tracking-control-data-synchronization

https://docs.microsoft.com/en-us/power-platform/admin/replicate-data-microsoft-azure-sql-database

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QUESTION 11

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 one 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.

An organization has an Azure SQL Database instance that must be synchronized daily with data from Dynamics 365 Sales. A large amount of data might need to be synchronized on some days.

You need to reduce the time required to synchronize data.

Solution:

1.

Enable change tracking for entities that will be synchronized.

2.

Implement a console application that queries for changes. Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead use the Data Export Service to sync data between the database and Dynamics 365 Sales.

References: https://docs.microsoft.com/en-us/power-platform/admin/enable-change-tracking-control-data-synchronization

QUESTION 12

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 one 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.

A Common Data Service (CDS) environment has two custom entities named Building code and Work item. Building code has a code date custom field and Work item has an elapsed time custom field. Construction workers use a consolidated

custom form with data from both entities to fill.in their daily work items.

A JavaScript library is used with these custom entities and fields to apply complex logic.

You need to ensure that the JavaScript library continues to function as originally designed if other developers expand the environment.

Solution: In form properties of the consolidated form, add the JavaScript library in the events tab and add the two custom fields to the dependent fields section of the non-event dependencies tab.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Instead, in the JavaScript library, add Building code with Code date and Work item with Elapsed time in the dependencies tab.

Reference: https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/developer/web-resource-dependencies

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