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Exam Name: Microsoft Power Platform Developer



01 - Configure Common Data Service

Case study

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Background

Contoso Pharmaceuticals manufactures and sells drugs to retail and wholesale pharmacies, hospitals, and research facilities.

The company plans to implement Dynamics 365 Sales and Dynamics 365 Finance.

Current environment

Contoso maintains a Microsoft Excel workbook that lists all drugs they supply.

Pharmacies submit order requests through email.

All information at customer locations is handwritten by customer representatives.

Contoso uses Cerner, which is a medical industry application that uses a proprietary database.

Some accounts are referrals from other pharmacies.

Every pharmacy has its own Dynamics 365 Sales instance.

Requirements

General

Contoso wants to ensure that there is minimal custom code and custom connectors in the system.

Accounts

Ensure that the names of the pharmacies are synced between the accounting and the customer management systems.

Account numbers should be entered automatically into the pharmaceutical system that is in a Cerner database and kept in sync.

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.

A trigger must be created that changes the Priority field to 1 in the Account record 10 days after an Account record is created.

A field named Priority_Trigger must be created to trigger the Priority field.

A field named Facility type field must be added in order to select whether a customer is a retail pharmacy, wholesale pharmacy, research facility, or hospital.

Users

UserA must be able to create and publish Power Apps apps.

UserB must be the owner of all the systems and be able to provide permissions and create all new environments.

UserC must be able to create apps connected to the systems and update the security roles and entities.

Pharmacy representatives must only be able to run the apps and access their own records.

Access to the accounting Power Apps app must be restricted to accounting team members.

End users must have minimum access to the required systems.

Only supervisors must be able to view phone numbers in the Accounts form.

Developers must be able to create new apps for all users.

Sales users must only have access to their own records.

Reporting

Pharmacy orders must be displayed in four graphs as follows:

Annual revenue over \$100,000

Annual revenues under \$100,000

Research facilities



Hospitals

The graphs must be interactive, and users must be able to drill down on any dimension.

Customizations

Ensure that notifications are sent to the sales team when a lead is added by using Slack.

Ensure that leads have a review stage added to the sales process.

Doctors must be manually added to a custom entity named Doctor if the doctor is not listed.

Refill dates for customer prescriptions should be automatically determined and a notification should be sent to the customer.

Fields for the doctor's name and phone number must be displayed in the customer record.

The doctor entered on the customer's record must be validated against doctors that exist in the system.

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

The solution must be error free so that when it is installed in other environments it does not cause issues.

A custom mobile app must be created to allow salespeople to add or search by pharmacy name.

Pharmacy records must be uniquely identified by pharmacy name, address, contact name, and phone number.

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

QUESTION 1

HOTSPOT

You need to configure the fields with the appropriate type.

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

NOTE: Each correct selection is worth one point.

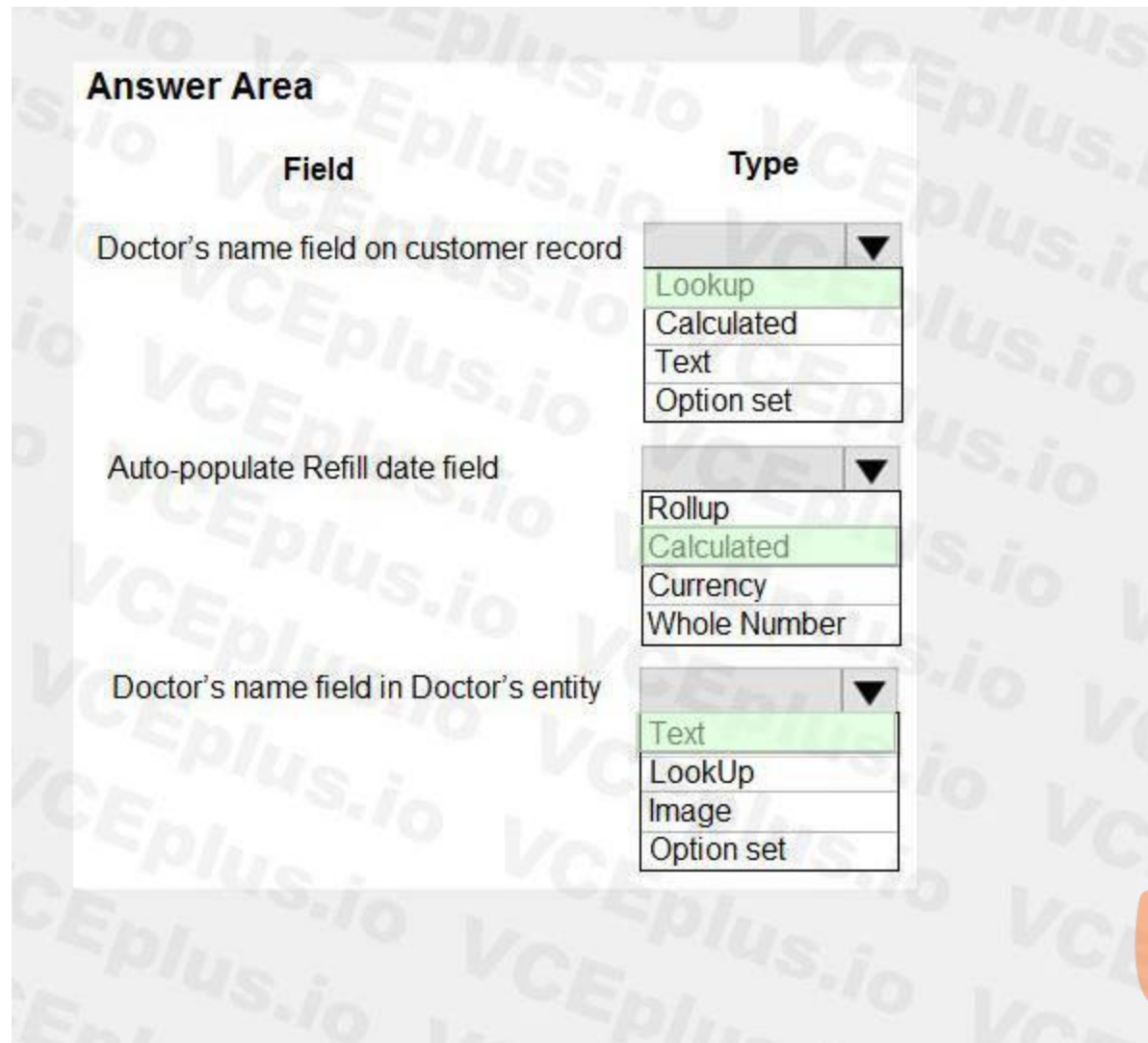
Hot Area:



Field	Type
Doctor's name field on customer record	<ul style="list-style-type: none"> Lookup Calculated Text Option set
Auto-populate Refill date field	<ul style="list-style-type: none"> Rollup Calculated Currency Whole Number
Doctor's name field in Doctor's entity	<ul style="list-style-type: none"> Text LookUp Image Option set



Answer Area:



Section:

Explanation:

Box 1: Lookup

Fields for the doctor's name and phone number must be displayed in the customer record.

Lookup: A field that allows setting a reference to a single record of a specific type of entity.

Box 2: Calculated

Refill dates for customer prescriptions should be automatically determined and a notification should be sent to the customer.

Calculated field: Contains calculations that use fields from the current entity or related parent entities.

Box 3: Text

Field data type: Single Line of Text:

This field can contain up to 4,000 text characters. You can set the maximum length to be less than this. This field has several format options that will change the presentation of the text. These options are Email, Text, Text Area, URL, Ticker

Symbol, and Phone.

Reference:

<https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/customize/types-of-fields>

QUESTION 2

You need to create an application to deploy to other pharmacies.

What should you do?

- A. Navigate to Customize the System and export everything to a managed solution.
- B. Recreate customizations in a new environment.

- C. Export the solution as a managed solution.
- D. Write a Web API to move customizations.

Correct Answer: D

Section:

Explanation:

QUESTION 3

DRAG DROP

You need to assign the minimum environmental security role to the appropriate users.

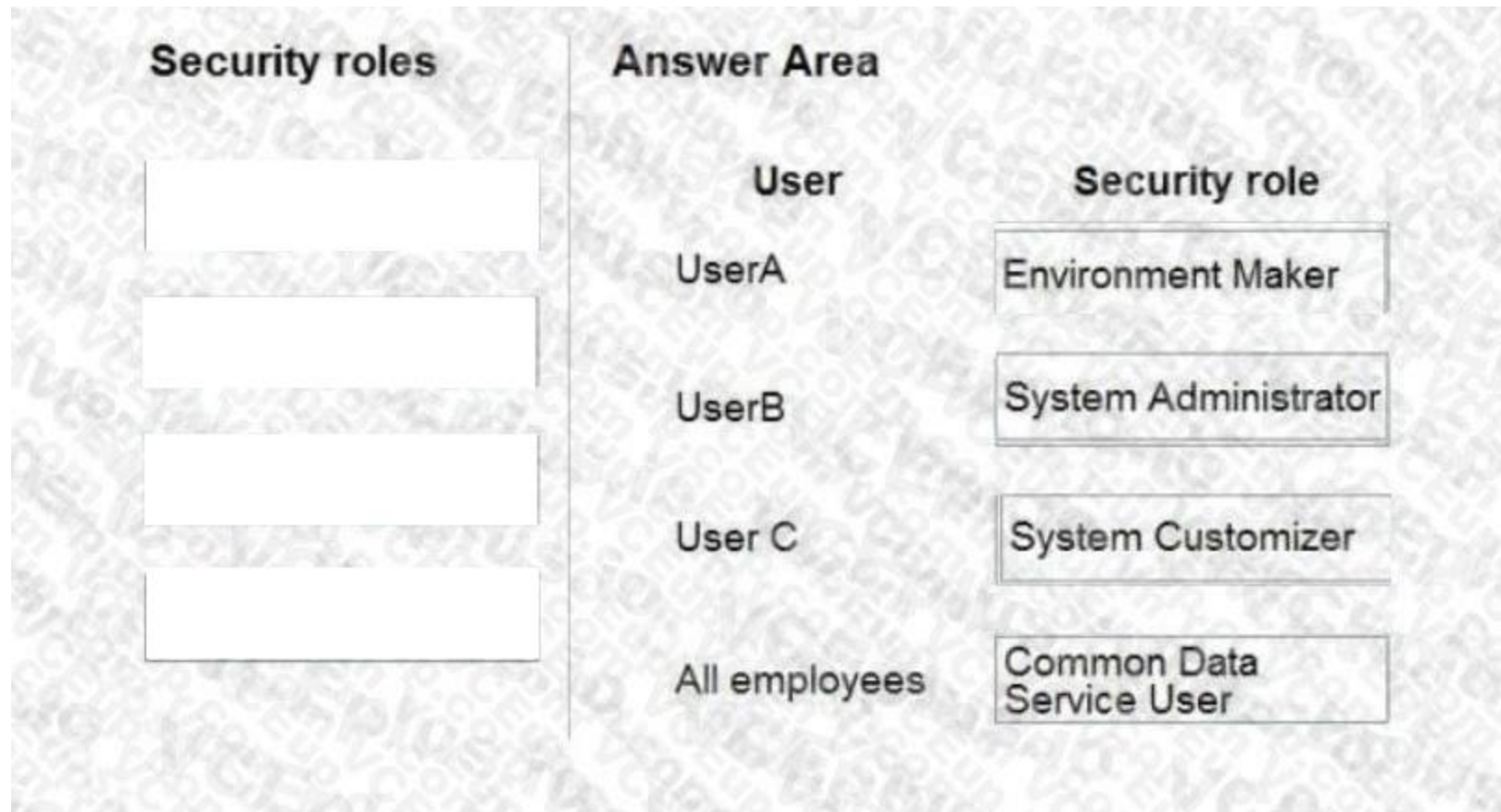
Which security roles should you use? To answer, drag the appropriate security roles to the correct users. Each security role may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Security roles	User	Security role
System Administrator	UserA	Security role
System Customizer	UserB	Security role
Common Data Service User	User C	Security role
Environment Maker	All employees	Security role

Correct Answer:



Section:

Explanation:

Box 1: Environment Maker

UserA must be able to create and publish Power Apps apps.

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

Box 2: System Administrator

UserB must be the owner of all the systems and be able to provide permissions and create all new environments.

The System Administrator has full permission to customize the system. Can view all data in the system.

Box 3: System Customizer

UserC must be able to create apps connected to the systems and update the security roles and entities.

The System Customizer has full permission to customize the system. Can only view rows for system tables that they create.

The difference between the System Administrator and System Customizer security roles is that a system administrator has read privileges on most rows in the system and can see everything. Assign the System Customizer role to someone who needs to perform customization tasks but shouldn't see any data in the system tables.

Box 4: Common Data Service User

To stay consistent with our product rebranding effort, the security role Common Data Service User is being changed to Basic User.

The Basic User security role primarily contains Basic privileges for core entities where the user can write, update, and delete records that they created or owned.

Reference: <https://docs.microsoft.com/en-us/power-platform/admin/environments-overview> <https://docs.microsoft.com/en-us/powerapps/maker/model-driven-apps/privileges-required-customization#system-administrator-and-system-customizersecurity-roles>

<https://docs.microsoft.com/en-us/power-platform-release-plan/2020wave2/data-platform/common-data-serviceuser-security-role-renamed-basic-user>

QUESTION 4

DRAG DROP

You need to set up security to meet the requirements.

How should you configure security? To answer, drag the appropriate security mechanisms to the correct users. Each security mechanism 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:

Security mechanisms	Answer Area								
Field level security	<table border="1"><thead><tr><th>User</th><th>Security mechanism</th></tr></thead><tbody><tr><td>supervisors</td><td>Security mechanism</td></tr><tr><td>salespeople</td><td>Security mechanism</td></tr><tr><td>developers</td><td>Security mechanism</td></tr></tbody></table>	User	Security mechanism	supervisors	Security mechanism	salespeople	Security mechanism	developers	Security mechanism
User	Security mechanism								
supervisors	Security mechanism								
salespeople	Security mechanism								
developers	Security mechanism								
Security roles									
Environment security									
Team security									

Correct Answer:

Security mechanisms	Answer Area								
	<table border="1"><thead><tr><th>User</th><th>Security mechanism</th></tr></thead><tbody><tr><td>supervisors</td><td>Field level security</td></tr><tr><td>salespeople</td><td>Team security</td></tr><tr><td>developers</td><td>Environment security</td></tr></tbody></table>	User	Security mechanism	supervisors	Field level security	salespeople	Team security	developers	Environment security
User	Security mechanism								
supervisors	Field level security								
salespeople	Team security								
developers	Environment security								
Security roles									

Section:

Explanation:

Box 1: Field level security

Only supervisors must be able to view phone numbers in the Accounts form.

You use field security tables to apply field-level security, which restricts field access to specified users and teams. The scope of field-level security is global, which means that it applies to all records within the organization, regardless of the business unit hierarchical level to which the record or the user belongs. Field security works in all Microsoft Dataverse clients, including the Web client, Dynamics 365 for Outlook, and Dynamics. It applies to all components, such as the Dataverse web services, reports, search, offline, filtered views, auditing, and duplicate detection.

Box 2: Team Security

Sales users must only have access to their own records.

Owner team: An owner team owns records and has security roles assigned to the team. A user's privileges can come from their individual security roles, those of the teams that they're part of or the ones they inherit. A team has full access rights on the records that the team owns. Team members are added manually to the owner team.

Box 3: Environment security

Developers must be able to create new apps for all users.

Environment maker: Can create new resources associated with an environment, including apps, connections, custom APIs, gateways, and flows using Microsoft Power Automate. However, this role doesn't have any privileges to access data within an environment.

Reference: <https://docs.microsoft.com/en-us/powerapps/developer/data-platform/field-security-entities>

<https://docs.microsoft.com/en-us/power-platform/admin/database-security> <https://docs.microsoft.com/en-us/powerplatform/admin/manage-teams#types-of-teams>

02 - Configure Common Data Service

Case study

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Background

Bellows Sports is the region's newest, largest, and most complete sports complex. The company features baseball and soccer fields and two full-size hockey rinks. The complex provides coaching, recreational leagues, a pro shop, and state-of-the-art customer and player amenities.

The company is organized into the following divisions:

Baseball

Hockey

Soccer

Bellow Sports runs tournaments several times per year. Each tournament runs six weeks.

Current environment

Requirements

Bellow Sports tracks players and events in Microsoft Excel workbooks and uses email to communicate with players, partners, and prospective customers. The company uses a proprietary cloud-based accounting system.

The company relies on referrals from athletes for new business. Bellows uses a third-party marketing company to gather feedback and referrals from athletes. The third-party marketing company uploads a Microsoft Excel file containing lists of potential customers and players to the FTP site that Bellows Sports maintains.

Tournaments

Customer information is stored in the Accounts entity. Each tournament record must list the associated sales representative as the tournament owner. When team members create tournament records they must enter the start date for a tournament. The end date of the tournament must be automatically calculated.

Registration form

You must create a form to allow players to register for tournaments. The registration form must meet the following requirements:

Division	Requirement
Baseball	Capture the age and weight of the player. The height field must not display.
Hockey	Capture the age, height, and weight of the player.
Soccer	Capture the age of the player. The height and weight fields must not display.

Each division has tournaments that take place in specific locations. Users must be able to select the division for a tournament location.

Information about upcoming tournaments must be pre-located into the registration form when the registration form loads.

The form must include a custom button that sends an email confirmation to the player after the player registers.

The button must not be visible until after the form is saved.

Security

The company identifies the following job roles:

Role	Tasks
Sales representative	These users will enter data into Dynamics 365 Customer Service.
Intern	These users will create Power Apps apps, and connectors, and create Power Automate flows.
Manager	These users will add users, assign security roles, and manage data storage.

You must grant users the minimum permissions required to perform their job tasks.

Data automation

Customer name must be added to Dynamics 365 Finance automatically after it is entered.

You must produce a report that details the number of registrations for a day and send the report as a PDF to the management team.

You must implement mechanisms to handle all code-related errors.

When a customer record is updated, the system must look up the account number for the customer in the accounting system.

Referrals must be imported into the system as soon as they are available.

Issues

Apps

The captions for the New and Save buttons do not render properly on the form.

Interns can create apps but cannot interact with their own data.

Portal

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
```

Solution checker issues

You run solution checker and observe Plug-in or workflow activity errors in the following code sets:

Set	Code	Error message
Code set 1	CS101 var columns = new ColumnSet(); CS102 columns.AllColumns = true; CS103 var query = new QueryExpression("account"); CS104 query.ColumnSet = columns; CS105 var results = service.RetrieveMultiple(query);	il-specify- column
Code Set 2	CS201 WebRequest request = WebRequest.Create ("https://www.bellows.com/api/stuff"); CS202 HttpResponseMessage response = new HttpResponseMessage(); CS203 CS204 response = request.GetResponse(); CS205 response.Close();	il-turn-off- keepalive

Code

The following code runs when the registration form loads. You must implement a mechanism to handle errors that occur in the code:

UpdateRecord.js (Line numbers are included for reference only.)

```
UR01  
UR02 var data =  
UR03 {  
UR04   "name" : "Updated Account"  
      "credithold" : true,  
      "description" : "This is an account update",  
      "revenue" : 10,000,  
      "Division" : 2  
UR05 }  
UR06
```

QUESTION 1

You need to determine the primary cause of the issue reported by interns when they use the app.

What is the primary cause?

- A. Interns have the System Customizer security role but need the Environment Maker security role.
- B. Interns have the Common Data Service User security role but need the Environment Maker security role.
- C. Interns have the Environment Maker security role but need the Common Data Service User security role.
- D. Interns have the Environment Maker security role but need the System Customizer security role.
- E. Interns have the Environment Maker security role but need the Delegate security role.

Correct Answer: D

Section:

Explanation:

Scenario: Interns can create apps but cannot interact with their own data.

Environment Maker role: Can create new resources associated with an environment, including apps, connections, custom APIs, gateways, and flows using Microsoft Power Automate. However, this role doesn't have any privileges to access data within an environment.

System Customizer role: full permission to customize the environment. However, users with this role can only view records for environment entities that they create.

Reference:

<https://docs.microsoft.com/en-us/power-platform/admin/database-security>

QUESTION 2

DRAG DROP

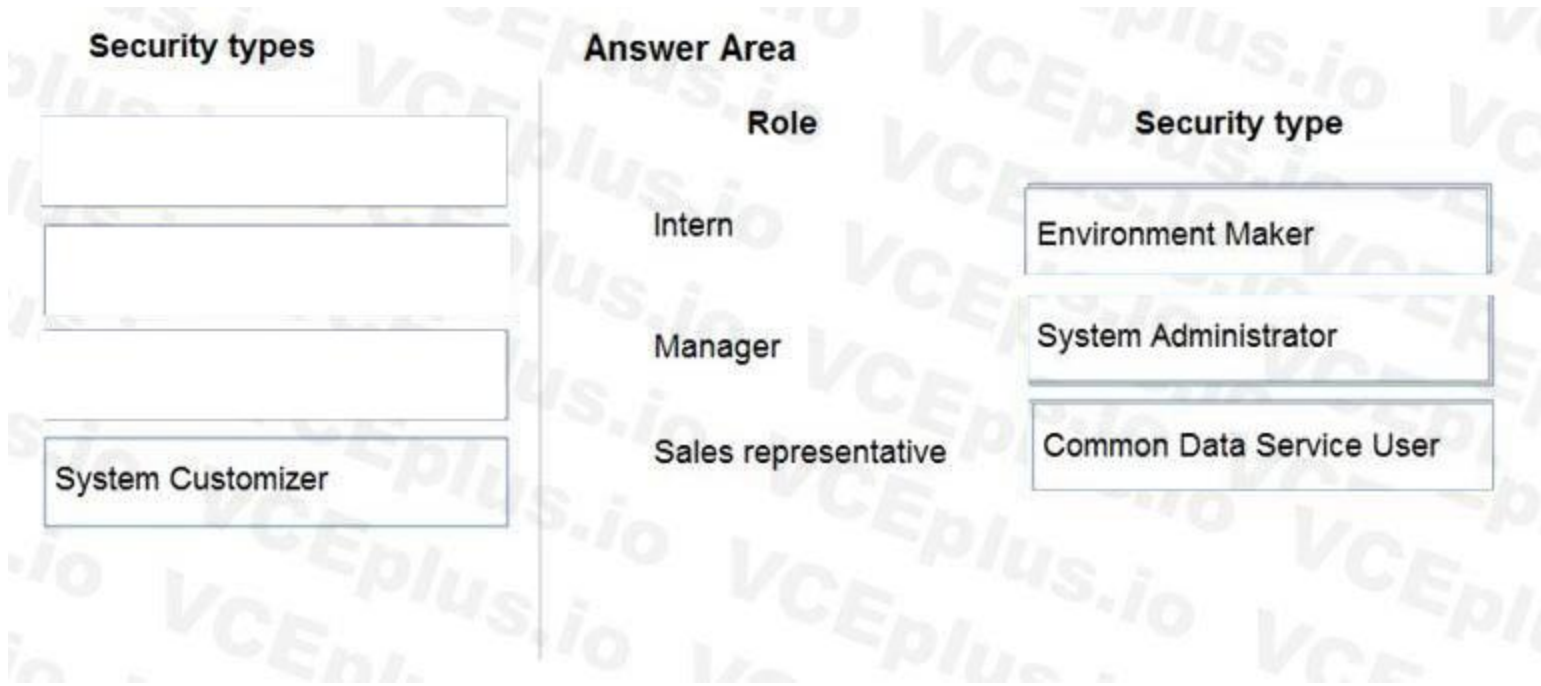
You need to assign security roles to groups of users.

Which security roles should you use? To answer, drag the appropriate security types to the correct roles. Each security 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.

Select and Place:

Correct Answer:



Section:

Explanation:

Scenario: The company identifies the following job roles:

Role	Tasks
Sales representative	These users will enter data into Dynamics 365 Customer Service.
Intern	These users will create Power Apps apps, and connectors, and create Power Automate flows.
Manager	These users will add users, assign security roles, and manage data storage.

You must grant users the minimum permissions required to perform their job tasks.

Intern: Environment Maker

Environment Maker: Can create new resources associated with an environment, including apps, connections, custom APIs, gateways, and flows using Microsoft Power Automate. However, this role doesn't have any privileges to access data within an environment.

Manager: System Administrator:

System Administrator: Has full permission to customize or administer the environment, including creating, modifying, and assigning security roles. Can view all data in the environment.

Sales representative: Common Data Service User

Basic User/ Common Data Service User: Read (self), Create (self), Write (self), Delete (self)

Can run an app within the environment and perform common tasks for the records that they own.

QUESTION 3

HOTSPOT

You need to select data types for required fields.

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

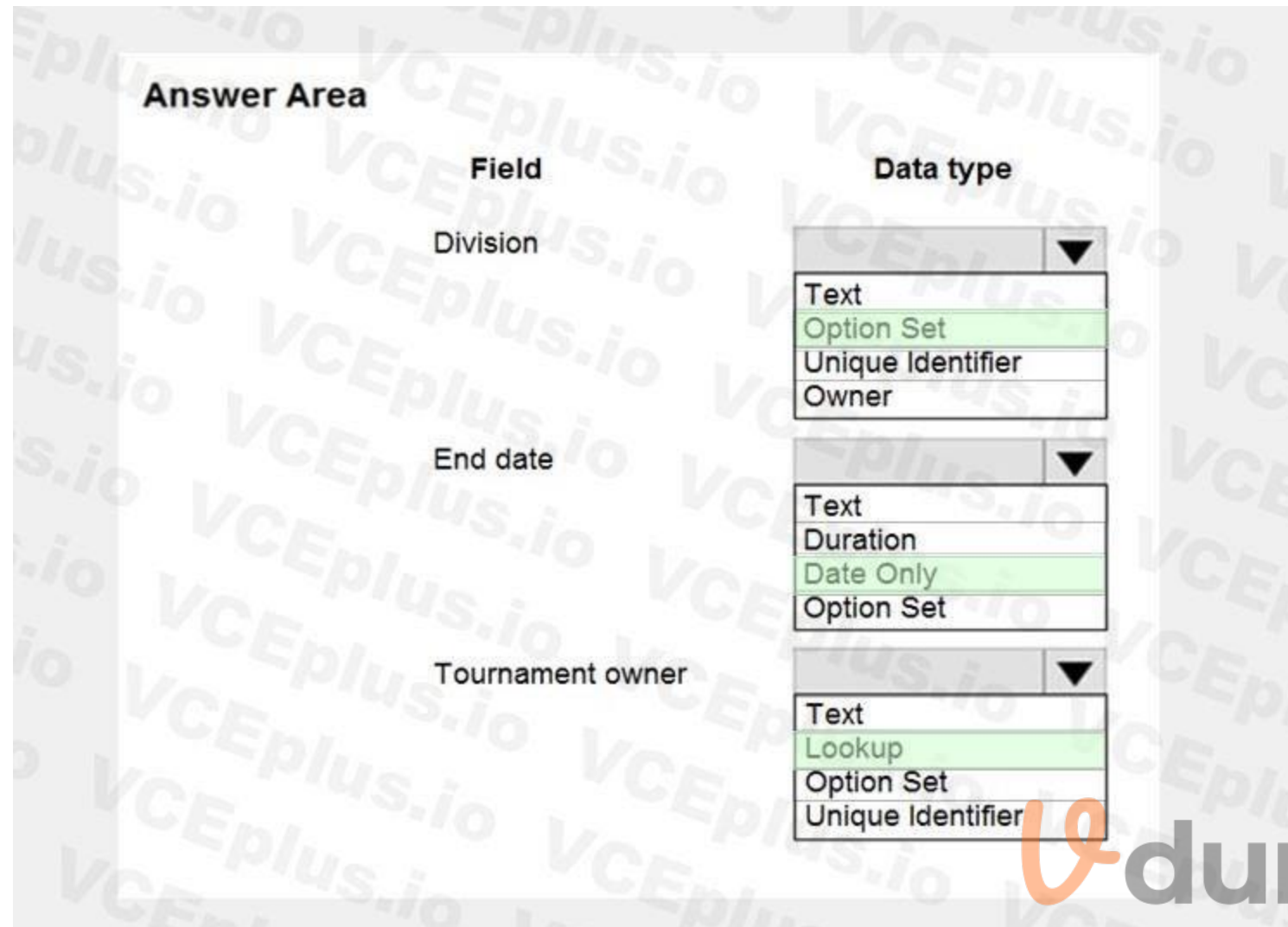
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area	
Field	Data type
Division	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #cccccc; padding: 2px;">▼</div> <div style="padding: 2px;">Text</div> <div style="padding: 2px;">Option Set</div> <div style="padding: 2px;">Unique Identifier</div> <div style="padding: 2px;">Owner</div> </div>
End date	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #cccccc; padding: 2px;">▼</div> <div style="padding: 2px;">Text</div> <div style="padding: 2px;">Duration</div> <div style="padding: 2px;">Date Only</div> <div style="padding: 2px;">Option Set</div> </div>
Tournament owner	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #cccccc; padding: 2px;">▼</div> <div style="padding: 2px;">Text</div> <div style="padding: 2px;">Lookup</div> <div style="padding: 2px;">Option Set</div> <div style="padding: 2px;">Unique Identifier</div> </div>

 **vdumps**

Answer Area:



Section:

Explanation:

Box 1: Option Set

Box 2: Date only

When team members create tournament records they must enter the start date for a tournament. The end date of the tournament must be automatically calculated.

Box 3: Lookup

Customer information is stored in the Accounts entity. Each tournament record must list the associated sales representative as the tournament owner.

Note: When you create a new lookup column you are creating a new Many-to-One (N:1) table relationship between the table you're working with and the Target Row Type defined for the lookup. There are additional configuration options for this relationship that are described in Create and edit relationships between tables. But all custom lookups can only allow for a reference to a single row for a single target row type.

Reference:

<https://docs.microsoft.com/en-us/powerapps/maker/data-platform/types-of-fields>

03 - Configure Common Data Service

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Background

Current environment

Adventure Works Cycles wants to replace their paper-based bicycle manufacturing business with an efficient paperless solution. The company has one manufacturing plant in Seattle that produces bicycle parts, assembles bicycles, and distributes finished bicycles to the Pacific Northwest.

Adventure Works Cycles has a retail location that performs bicycle repair and warranty repair work. The company has six maintenance vans that repair bicycles at various events and residences.

Adventure Works Cycles recently deployed Dynamics 365 Finance and Dynamics 365 Manufacturing in a Microsoft-hosted environment for financials and manufacturing. The company plans to leverage the Microsoft Power Platform to migrate all of their distribution and retail workloads to Dynamics 365 Unified Operations.

The customer uses Dynamics 365 Sales, Dynamics 365 Customer Service and Dynamics 365 Field Service.

Retail store information

Adventure Works Cycle has one legal entity, four warehouses, and six field service technicians.

Warehouse counting is performed manually by using a counting journal. All warehouse boxes and items are barcoded.

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.

Adventure Works Cycles uses a Power Apps app for local bike fairs to attract new customers.

A canvas app is being developed to capture customer information when customers check in at the retail location. The app has the following features:

- Customer selects yes or no if they are on the mailing list.
- Customer selects the amount of times they have visited the store.
- Customer selects the type of service needed.
- The search result returns all last name records that match the search term.

Technology

Requirements

A plug-in for Dynamics 365 Sales automatically calculated the total billed time from all activities on a particular customer account, including sales representative visits, phone calls, email correspondence, and repair time compared with hours spent.

A shipping API displays shipping rates and tracking information on sales orders. The contract allows for 3,000 calls per month.

Ecommerce orders are processed in batch daily by using a manual import of sales orders in Dynamics 365 Finance.

Microsoft Teams is used for all collaboration.

All testing and problem diagnostics are performed in a copy of the production environment.

Customer satisfaction surveys are recorded with Microsoft Forms Pro. Survey replies from customers are sent to a generic mailbox.

Automation

A text message must be automatically sent to a customer to confirm an appointment and to notify when a technician is on route that includes their location.

Ecommerce sales orders must be integrated into Dynamics 365 Finance and then exported to Azure every night.

A text alert must be sent to employees scheduled to assist in the repair area of the retail store if the number of repair check-ins exceeds eight.

Submitted customer surveys must generate an email to the correct department. Approval and follow-up must occur within a week.

Reporting

The warehouse manager's dashboard must contain warehouse counting variance information.

A warehouse manager needs to quickly view warehouse KPIs by using a mobile device.

Power BI must be used for reporting across the organization.

User experience

Warehouse counting must be performed by using a mobile app that scans barcodes on boxes.

All customer repairs must be tracked in the system no matter where they occur.

Qualified leads must be collected from local bike fairs.

Issues

Warehouse counting must be performed by using a mobile app that scans barcodes on boxes.

All customer repairs must be tracked in the system no matter where they occur.

Qualified leads must be collected from local bike fairs.

Internal

User1 reports receives an intermittent plug-in error when viewing the total bill customer time.

User2 reports that Azure consumption for API calls has increased significantly to 100 calls per minute in the last month.

User2 reports that sales orders have increased.

User5 receives the error message: 'Endpoint unavailable' during a test of the technician dispatch ISV solution.

The parts department manager who is the approver for the department is currently on sabbatical.

External

CustomerB reports that the check-in app returned only one search result for their last name, which is not the correct name.

Nine customers arrive in the repair area of the retail store, but no texts were sent to scheduled employees.

Customers report that the response time from the information email listed on the Adventure Works Cycles website is greater than five days.

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

QUESTION 1

You need to reduce response time for the information email on the website.

What should you create?

- A. a flow that creates a SharePoint item for each email response
- B. a flow that creates a notification in Microsoft Teams
- C. a Power Apps app that displays the number of email received in a dashboard
- D. a logic app that moves all emails received to Azure Blob storage

Correct Answer: B

Section:

Explanation:

Scenario:

Customers report that the response time from the information email listed on the Adventure Works Cycles website is greater than five days. Microsoft Teams is used for all collaboration.

Microsoft teams support email notifications.

Reference: <https://support.microsoft.com/en-us/office/manage-notifications-in-teams-1cc31834-5fe5-412b-8edb-43fecc78413d>

04 - Configure Common Data Service

QUESTION 1

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. 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.
- B. In the development instance, highlight the solution you want to make changes to, select Clone a Patch, make changes, export the solution, and import the solution into the production instance.
- C. Export all managed solutions from the development instance and import the solutions into the production instance.
- D. In the production instance, import solutions with the same version number or higher when updating solutions.

Correct Answer: A, B

Section:

Explanation:

A: When you import a managed solution, all component changes will be brought into the environment in a published state.

B: You can apply patches to either managed or unmanaged solutions and include only changes to entities and related entity assets. Patches do not contain any non-customized system components or relationships that it depends upon because these components already exist in the deployed-to organization. At some point in your development cycle, you can roll up all the patches into a new solution version to replace the original solution that the patches were created from.

Reference: <https://docs.microsoft.com/en-us/powerapps/maker/common-data-service/import-update-export-solutions> <https://docs.microsoft.com/en-us/power-platform/alm/create-patches-simplify-solution-updates>

QUESTION 2

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

The company requires the following:

Custom entities that track which regions clients have traveled. 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: C, D, F

Section:

Explanation:

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

QUESTION 3

A company uses Common Data Service 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 fields on the customer entity for insurance exposure and risk. Write a workflow process that is triggered when a new policy record is created to calculate the sum of values from policy records.
- B. Update the Mass Calculate Rollup Field job to trigger when a new policy record is created.
- C. Change the frequency of the Calculate Rollup Field recurring job from every hour to every five minutes.
- 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: B

Section:

Explanation:

Mass Calculate Rollup Field - This job is created per Rollup field and runs when you create or update Rollup field. By default, job runs in 12 hours after you create or update Rollup field. You can adjust start time of this job to make sure job runs during non-operational hours

Reference: <https://sachinbansal.blog/2018/05/07/dynamics-365-rollup-fields-important-points/>

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.

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

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section:

Explanation:

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 5

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.

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: Create a security role that has organization-level access to opportunities. Give this security role to all members of the two departments who need access.

Does the solution meet the goal?

- A. Yes
- B. No



Correct Answer: B

Section:

Explanation:

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

Reference:

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

QUESTION 6

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.

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: Use access team templates and give access to members in the two departments.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section:

Explanation:

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

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

QUESTION 7

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);
```

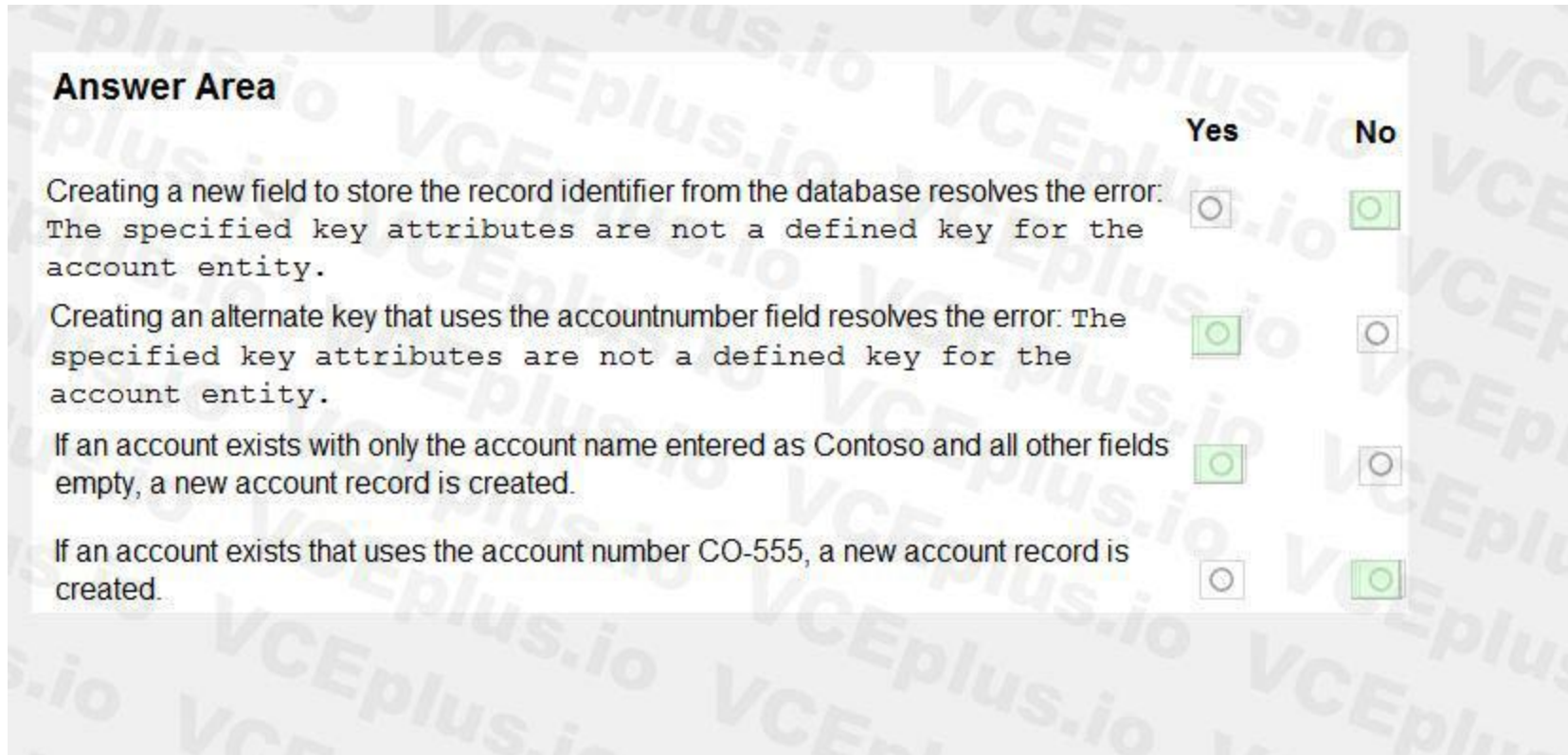
For each of the following statements, select Yes if the statement is true. Otherwise, select No.

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.	<input type="radio"/>	<input type="radio"/>
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.	<input type="radio"/>	<input type="radio"/>
If an account exists with only the account name entered as Contoso and all other fields empty, a new account record is created.	<input type="radio"/>	<input type="radio"/>
If an account exists that uses the account number CO-555, a new account record is created.	<input type="radio"/>	<input type="radio"/>

Answer Area:



Section:

Explanation:

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 8

DRAG DROP

A company is creating a new system based on the Common Data Service (CDS).

You need to select the CDS features that meet the company's requirements.

Which features should you select? To answer, drag the appropriate features to the correct requirements. Each feature 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:



Answer Area

Features

- Cascade User Owned
- Referential Restrict Delete
- Referential
- Parental

Requirement

- When a primary record is deleted, the associated referential records must also be deleted.
- When a record is assigned to a user, all referential active records must also be assigned to that user.
- When a primary record is deleted, the associated record must not be deleted.

Feature

-
-
-

Correct Answer:

Answer Area

Features

-
-
-
- Parental

Requirement

- When a primary record is deleted, the associated referential records must also be deleted.
- When a record is assigned to a user, all referential active records must also be assigned to that user.
- When a primary record is deleted, the associated record must not be deleted.

Feature

- Referential
- Cascade User Owned
- Referential Restrict Delete

Section:

Explanation:

Box 1: Referential Active/ Cascade Active one-to-many entity relationship: Perform the action on all active referencing entity records associated with the referenced entity record.

Box 2: Cascade User Owner

Cascade User Owned: Perform the action on all referencing entity records owned by the same user as the referenced entity record.

Box 3: Referential Restrict Delete

Restrict: Prevent the Referenced entity record from being deleted when referencing entities exist.

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/configure-entity-relationship-cascading-behavior>

QUESTION 9

DRAG DROP

A company implements Dynamics 365 Sales.

Only sales managers must be able to perform the approval to move high value sales on in the opportunity qualification process. A new field must be created to capture the approval.

You need to create and secure the new field.

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

Create a new field security profile

Enable auditing in the Approval field.

Create an access team template and define the access rights for the Opportunity entity.

Enable change tracking for the Opportunity entity.

Set the field permissions for the new field to enable read, update, and create, and add the sales manager as a member of the field security profile.

Enable field security in the Approval field.

Enable the write privilege on the Opportunity for the sales manager security role and grant the sales manager for the team the sales manager security role.

Answer Area



Correct Answer:

Actions

Enable auditing in the Approval field.

Create an access team template and define the access rights for the Opportunity entity.

Enable change tracking for the Opportunity entity.

Enable the write privilege on the Opportunity for the sales manager security role and grant the sales manager for the team the sales manager security role.

Answer Area

Enable field security in the Approval field.

Create a new field security profile

Set the field permissions for the new field to enable read, update, and create, and add the sales manager as a member of the field security profile.



Section:

Explanation:

Step 1: Enable field security in the Approval field.

1. Enable field security on one or more fields for a given entity.
2. Associate one more existing security profiles, or create one or more new security profiles to grant the appropriate access to specific users or teams (step 2 and step 3 below).

Step 2: Create a new field security profile.

Create a new field security profile for the sales manager.

Step 3: Set the field permissionsEsecurity profile

Step 2 and step 3, example:

Configure the security profiles.

1. Create the field security profile for sales managers.
2. Go to Settings > Security.
3. Click Field Security Profiles.
4. Click New, enter a name, such as Sales Manager access contact mobile phone, and click Save.
5. Click Users, click Add, select the users that you want to grant read access to the mobile phone number on the contact form, and then click Add.
6. Click Field Permissions, click mobilephone, click Edit, select Yes next to Allow Read, and then click OK.

Reference:

<https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/admin/field-level-security>

QUESTION 10

HOTSPOT

A company delivers packages to businesses and consumers. A custom entity named Package captures the package details.

You need to add the following sets of fields to the entity and leverage the built-in operations of the platform:

A set of fields to represent the package length, width, depth, and weight. The maximum value for any dimension is 100 centimeters.

A set of fields for time-sensitive attributes to calculate the efficiency of a delivery based on when the delivery is entered in the system and the existing custom fields: Pickup time and Delivery time.

Which constructs 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

Requirement	Construct
Calculate the efficiency of the delivery.	<input type="text" value="DIFFINMINUTES(Created On, Modified On)"/> ▼
Select the data type for delivery that has additional transformations applied before the data is displayed.	<input type="text" value="Autonumber"/> ▼

Answer Area:

Answer Area

Requirement	Construct
Calculate the efficiency of the delivery.	<div style="border: 1px solid gray; padding: 2px;"> ▼ DIFFINMINUTES(Created On, Modified On) DIFFINMINUTES(Created On, Delivery Time) DIFFINMINUTES(Created On, Delivery Time) DIFFINHOURS(Created On, Modified On) DIFFINHOURS(Created On, Delivery Time) </div>
Select the data type for delivery that has additional transformations applied before the data is displayed.	<div style="border: 1px solid gray; padding: 2px;"> ▼ Autonumber Phone number Customer Currency Duration </div>

Section:

Explanation:

Box 1: DIFFINMINUTES(Created on, Delivery Time)

DIFFINMINUTES (date and time, date and time) returns the difference in minutes between two Date and Time columns.

Box 2: Duration

Reference:

<https://docs.microsoft.com/en-us/powerapps/maker/common-data-service/define-calculated-fields>

QUESTION 11

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



Section:

Explanation:

Step 1: `pac solution init --publisher-name <publisher> --publisher-prefix <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 <control-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>

QUESTION 12

DRAG DROP

A company is creating a new system based on the Common Data Service.

You need to select the Common Data Service features that meet the company's requirements.

Which features should you select? To answer, drag the appropriate features to the correct requirements. Each feature 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:

Features	Requirement	Feature
Cascade User Owned	When a primary record is deleted, the associated referential records must also be deleted.	
Referential, Restrict Delete	When a record is assigned to a user, all referencing records must also be assigned to that user.	
Referential	When a primary record is deleted, the associated record must not be deleted.	
Parental		

Correct Answer:

Features	Requirement	Feature
	When a primary record is deleted, the associated referential records must also be deleted.	Cascade User Owned
	When a record is assigned to a user, all referencing records must also be assigned to that user.	Parental
Referential	When a primary record is deleted, the associated record must not be deleted.	Referential, Restrict Delete

Section:

Explanation:

Box 1: Cascade User Owned

Cascade User Owned: Perform the action on all related table rows owned by the same user as the primary table row.

Box 2: Parental

A parental table relationship is any 1:N table relationship where one of the cascading options in the Parental column of the following table is true.

Box 3: Referential, Restrict Delete

Reference:

<https://docs.microsoft.com/en-us/powerapps/maker/data-platform/create-edit-entity-relationships>

QUESTION 13

DRAG DROP

An international organization has a series of client-server applications that manage red light cameras and traffic violations across a wide geographic region. The daily volume of traffic violations is very high and growing.

You plan to use Microsoft Power Platform apps to manage the following types of data:

Existing vehicle licensing data must be imported into Common Data Service and easily queried.

Red light camera images must be stored in a repository for later analysis.

Information about traffic violations must be stored and related to vehicle details.

You need to select data storage mechanisms for the new apps.

Which data storage mechanisms should you use? To answer, drag the appropriate data storage mechanisms to the correct data types. Each storage mechanism 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:

Answer Area

Data storage mechanisms	Data type	Data storage mechanism
Entity	Vehicle licensing data	
Azure Storage Blob	Red light camera photos	
Azure Cosmos DB	Information about traffic violations	

Correct Answer:

Answer Area

Data storage mechanisms	Data type	Data storage mechanism
	Vehicle licensing data	Azure Cosmos DB
	Red light camera photos	Azure Storage Blob
	Information about traffic violations	Entity

Section:

Explanation:

QUESTION 14

A financial institution that has a Dynamics 365 Sales environment requires that the account balance field from the account entity be visible to specific users only. You need to set up the field security for the account balance field. Which three actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Set the field to Read-Only and then publish the entity
- B. Set the field permission Allow Read to Yes and add the users to the members section
- C. Create a security role and add the specific users to the role
- D. Enable field security and then publish the entity
- E. Create a field security profile

Correct Answer: B, D, E

Section:

Explanation:

To implement field-level security, a system administrator performs the following tasks.

1. Enable field security on one or more fields for a given entity.
2. Associate one more existing security profiles, or create one or more new security profiles to grant the appropriate access to specific users or teams.

A security profile determines the following:

Permissions to the secure fields

Users and Teams

A security profile can be configured to grant user or team members the following permissions at the field level:

Read. Read-only access to the field's data.

Create. Users or teams in this profile can add data to this field when creating a record.

Update. Users or teams in this profile can update the field's data after it has been created.

References:

<https://docs.microsoft.com/en-us/power-platform/admin/field-level-security>



QUESTION 15

HOTSPOT

An organization uses Common Data Service.

The organization's IT helpdesk requires a single-page web application to monitor and manage Data Export Service. The app must access Data Export Service securely. The app must also permit helpdesk users to perform a limited set of functions.

You need to create a single-page app.

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

Requirement

Option

Connect to the app securely

- Use the Common Data Service user security role
- Use the sign-in credentials for Azure SQL Server
- Use the Environment Maker security role
- Register the app in Azure Active Directory

Monitor the status of data replication

- Use FetchXML queries
- Use Profile operations
- Use Metadata operations
- Use T-SQL queries

Enable an entity for replication

- Define an alternate key
- Enable Auditing
- Enable Change Tracking
- Set the data provider

Start or stop data replication

- /crm/exporter/metadata/entities
- /crm/exporter/profiles/validate
- /crm/exporter/profiles/{id}/test
- /crm/exporter/profiles/{id}/activatedata

View information on records that fail to sync

- Use Azure Storage Explorer
- Use FetchXML queries
- Use Profile operations
- Use T-SQL queries

Answer Area:

Requirement	Option
Connect to the app securely	<ul style="list-style-type: none"> Use the Common Data Service user security role Use the sign-in credentials for Azure SQL Server Use the Environment Maker security role Register the app in Azure Active Directory
Monitor the status of data replication	<ul style="list-style-type: none"> Use FetchXML queries Use Profile operations Use Metadata operations Use T-SQL queries
Enable an entity for replication	<ul style="list-style-type: none"> Define an alternate key Enable Auditing Enable Change Tracking Set the data provider
Start or stop data replication	<ul style="list-style-type: none"> /crm/exporter/metadata/entities /crm/exporter/profiles/validate /crm/exporter/profiles/{id}/test /crm/exporter/profiles/{id}/activatedata
View information on records that fail to sync	<ul style="list-style-type: none"> Use Azure Storage Explorer Use FetchXML queries Use Profile operations Use T-SQL queries

Section:

Explanation:

Box 1: Register the app in Azure Active Directory

Box 2: Use FetchXML queries The failure entries can be retrieved through the Get the failure details for a given Profile request. The response returns a URI to an Azure blob that contains the failure information. Each line has the following comma-separated fields (newlines added for clarity):

Entity: <entity-name>,
 RecordId: <"N/A" | guid>,
 NotificationTime: <datetime>,
 ChangeType: <sync-type>,
 FailureReason: <description>

Note: FetchXML is a proprietary XML based query language of Microsoft Dataverse used to query data using either the Web API or the Organization service. It's based on a schema that describes the capabilities of the language. The

FetchXML language supports similar query capabilities as query expressions.

Incorrect Answers:

The Data Export Service exposes a REST-based API that is divided into two groups: a set of Metadata operations for exploring Dataverse organizational structure, relationships, and connection information; and a set of Profiles operations for configuring and managing each data replication.

Box 3: Enable Change Tracking

The entities that will be added to the Export Profile must be enabled with change tracking.

Box 4: /crm/exporter/{id}/activatedata

profiles/{id}/activatedata

Activate profile for data replication only.

Note: profiles/{id}/activate

Activate a profile, which starts replication of both the associated table definitions and data.

Box 5: Use Profile operations

These failure entries can be retrieved through the Get the failure details for a given Profile request.

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/data-platform/data-export-service>

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

<https://docs.microsoft.com/en-us/powerapps/developer/data-platform/use-fetchxml-construct-query>

QUESTION 16

HOTSPOT

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

The following conditions must apply when accounts are reassigned:

Ownership for completed tasks that are associated with the account must not change.

Outstanding tasks must be reassigned to the new owner of the account.

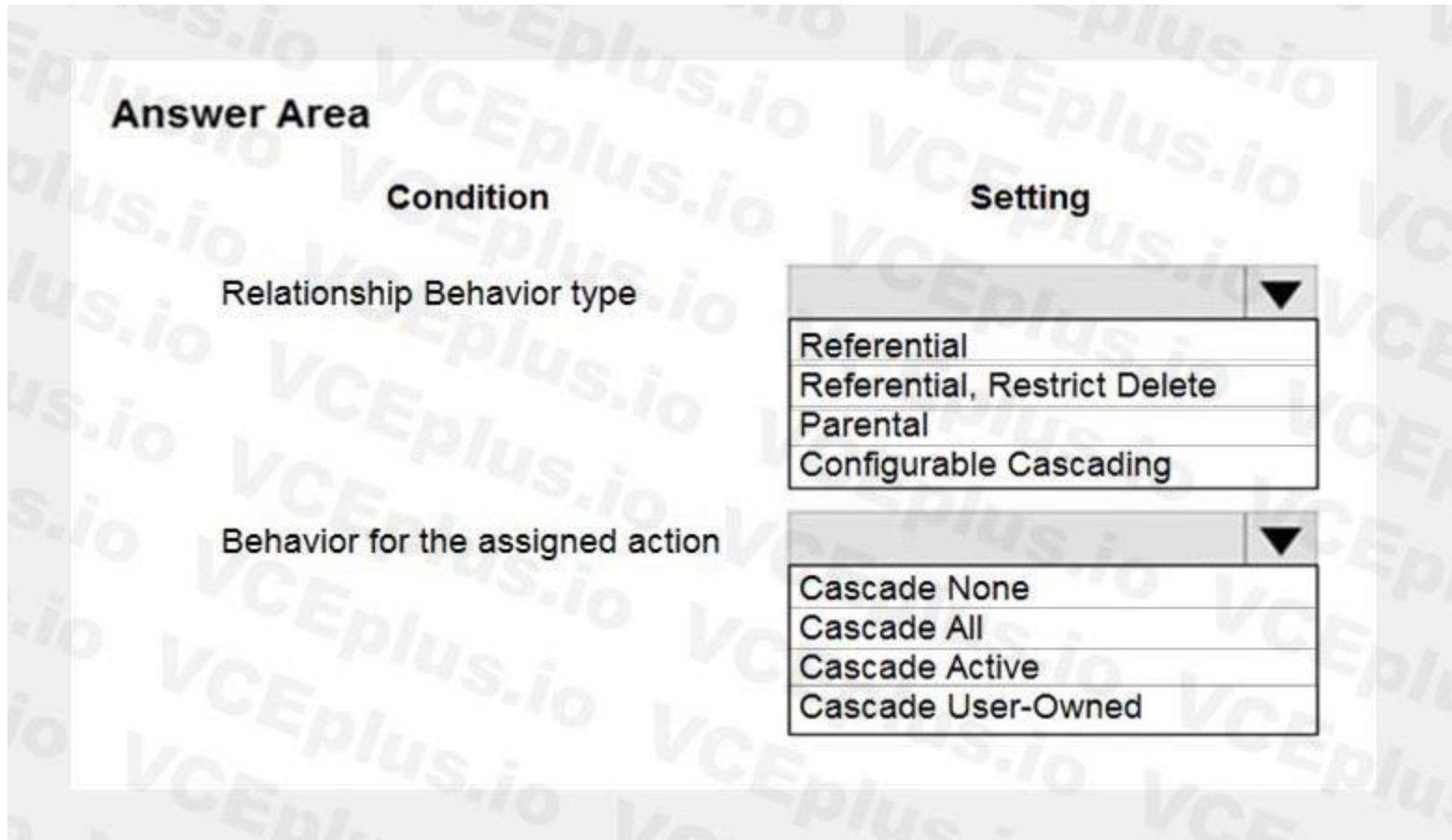
You need to configure the relationship to meet the requirements.

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

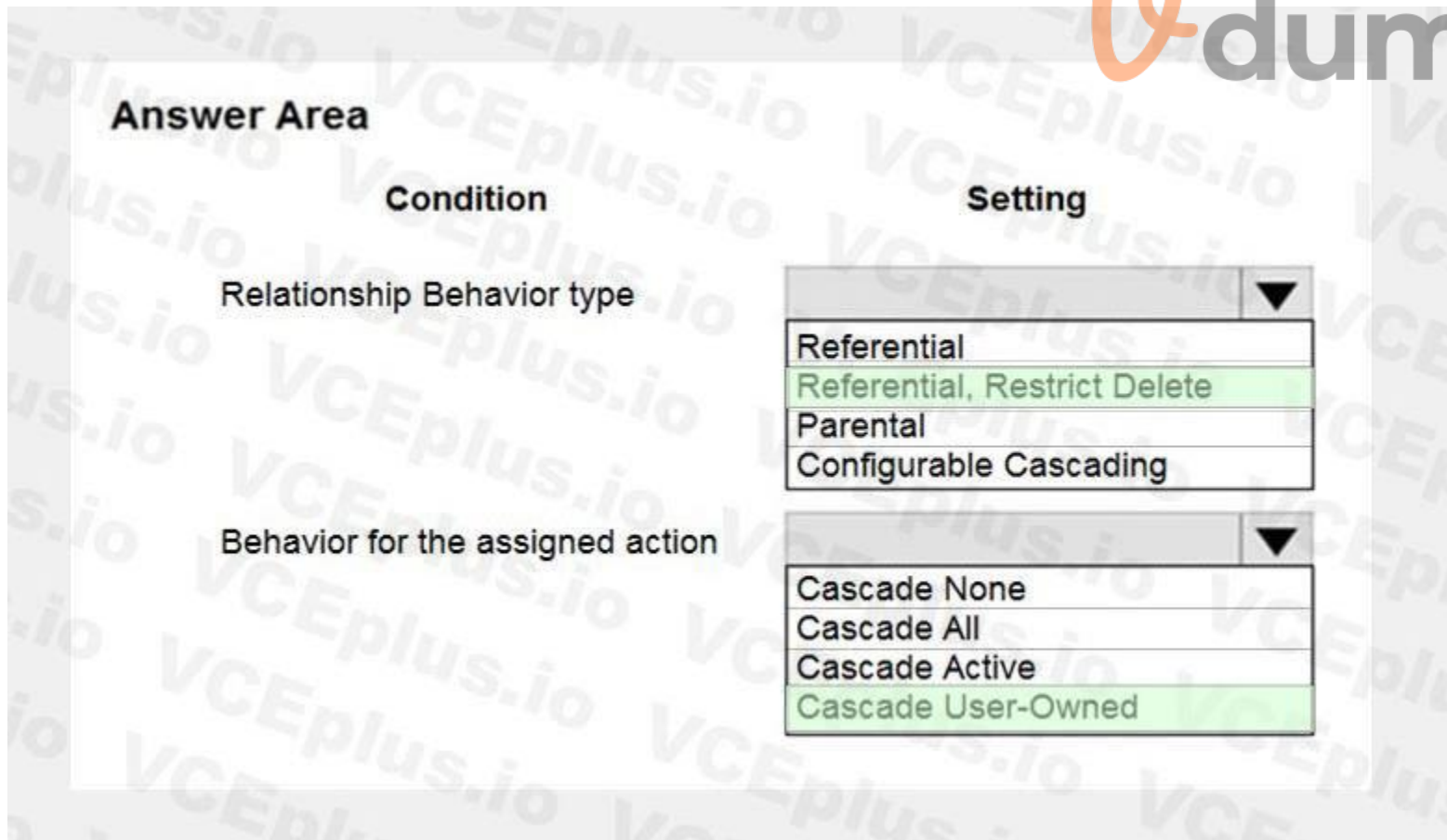
NOTE: Each correct selection is worth one point.



Hot Area:



Answer Area:



Section:

Explanation:



Box 1: Referential, Restrict Delete

Restrict: Prevent the Referenced table record from being deleted when referencing tables exist.

Box 2: Cascade User Owned

Cascade User Owned: perform the action on all referencing table records owned by the same user as the referenced table record.

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/data-platform/configure-entity-relationship-cascading-behavior>

QUESTION 17

DRAG DROP

A company has Common Data Service (CDS) environments for development, test, and production.

You have a model-driven app that consists of two solutions. The solutions include settings and reference data. You plan to move the solutions, app settings, and reference data from a development environment to a production environment.

You export each solution from the development environment as a zip file.

You run the Configuration Manager to export the settings and reference data as zip files.

You need to prepare the app and its settings for deployment.

Which four 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.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:

Actions

- Add solution and data files to the PkgFolder in the project
- Build the package
- Run the Package Deployer tool
- Define the solution and data files in ImportConfig.xml
- Run the Solution Packager tool
- Create a Dynamics 365 Package project in Visual Studio

Answer Area

VCEplus.io Vdumps

Correct Answer:

Actions	Answer Area
	Add solution and data files to the PkgFolder in the project
	Define the solution and data files in ImportConfig.xml
	Build the package
	Run the Package Deployer tool
Run the Solution Packager tool	
Create a Dynamics 365 Package project in Visual Studio	

Section:

Explanation:

Step 1: Add your files to the project

In the Solutions Explorer pane, add your solutions and files under the PkgFolder folder.

For each file that you add under the PkgFolder folder, in the Properties pane, set the Copy to Output Directory value to Copy Always. This ensures that your file is available in the generated package.

Step 2: Define the solution and data files in ImportConfig.xml

Define the package configuration by adding information about your package in the ImportConfig.xml file available in the PkgFolder.

Step 3: Build the package

Step: Run the Package Deployer tool

After you create a package, you can deploy it on the Dataverse instance by using either the Package Deployer tool or Windows PowerShell.

Reference:

<https://docs.microsoft.com/en-us/power-platform/alm/package-deployer-tool>

QUESTION 18

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.)

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

Manage User Roles

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

Role Name	Business Unit
<input checked="" type="checkbox"/> Common Data Service User	org3f9b041e
<input type="checkbox"/> Delegate	org3f9b041e
<input type="checkbox"/> Environment Maker	org3f9b041e
<input type="checkbox"/> Knowledge Manager	org3f9b041e
<input type="checkbox"/> System Administrator	org3f9b041e
<input type="checkbox"/> System Customizer	org3f9b041e

OK

Cancel

Security Role: Common Data Service User

Entity	Create	Read	Write	Delete	Append	Append To	Assign	Share
Account								
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:

Answer Area

V

dumps

Statements	Yes	No
Changing the Append To privilege on the Account entity to Organization prevents the error from recurring.	<input type="radio"/>	<input type="radio"/>
Adding the Environment Maker role to the user prevents the error from recurring.	<input type="radio"/>	<input type="radio"/>
Adding the system customizer role gives the user more access than needed to prevent the error from recurring.	<input type="radio"/>	<input type="radio"/>
Setting all the privileges for the Building entity to User prevents the error from recurring.	<input type="radio"/>	<input type="radio"/>

Answer Area:

Statements	Yes	No
Changing the Append To privilege on the Account entity to Organization prevents the error from recurring.	<input type="radio"/>	<input checked="" type="radio"/>
Adding the Environment Maker role to the user prevents the error from recurring.	<input type="radio"/>	<input checked="" type="radio"/>
Adding the system customizer role gives the user more access than needed to prevent the error from recurring.	<input checked="" type="radio"/>	<input type="radio"/>
Setting all the privileges for the Building entity to User prevents the error from recurring.	<input checked="" type="radio"/>	<input type="radio"/>



Section:

Explanation:

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 19

DRAG DROP

A company is creating a new system based on Common Data Service.

You need to select the features that meet the company's requirements.

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:

Options	Answer Area	Requirement	Option
connection		Visualize records as a hierarchy in a model-driven app	Option
one-to-many relationship		Records in one entity must be able to reference only a single record in another entity	Option
many-to-many relationship		Any record in one entity must be able to be referenced by any record in another entity	Option
self-referential relationship			

Correct Answer:

Options	Answer Area	Requirement	Option
connection		Visualize records as a hierarchy in a model-driven app	self-referential relationship
		Records in one entity must be able to reference only a single record in another entity	one-to-many relationship
		Any record in one entity must be able to be referenced by any record in another entity	many-to-many relationship

Section:

Explanation:

Reference:

<https://docs.microsoft.com/en-us/powerapps/maker/common-data-service/create-edit-entity-relationships>

QUESTION 20

HOTSPOT

A school district wants to standardize student information and student performance records. Students in the district are assigned to a specific school. Students are evaluated using class records.

When students move between schools in the middle of a school year, the student's current class history must be available to the administrators at the new school.

You need to configure Microsoft Dataverse tables to connect the class history records to their respective class records.

How should you configure the table? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Configuration setting

Table ownership for the class record table.

Value

	▼
Organization	
User	
User or Team	
Team	

Relationship of the class history table to the student table.

	▼
Many-to-one	
One-to-many	
Many-to-many	

Behavior of the relationship between the class history table and the student table.

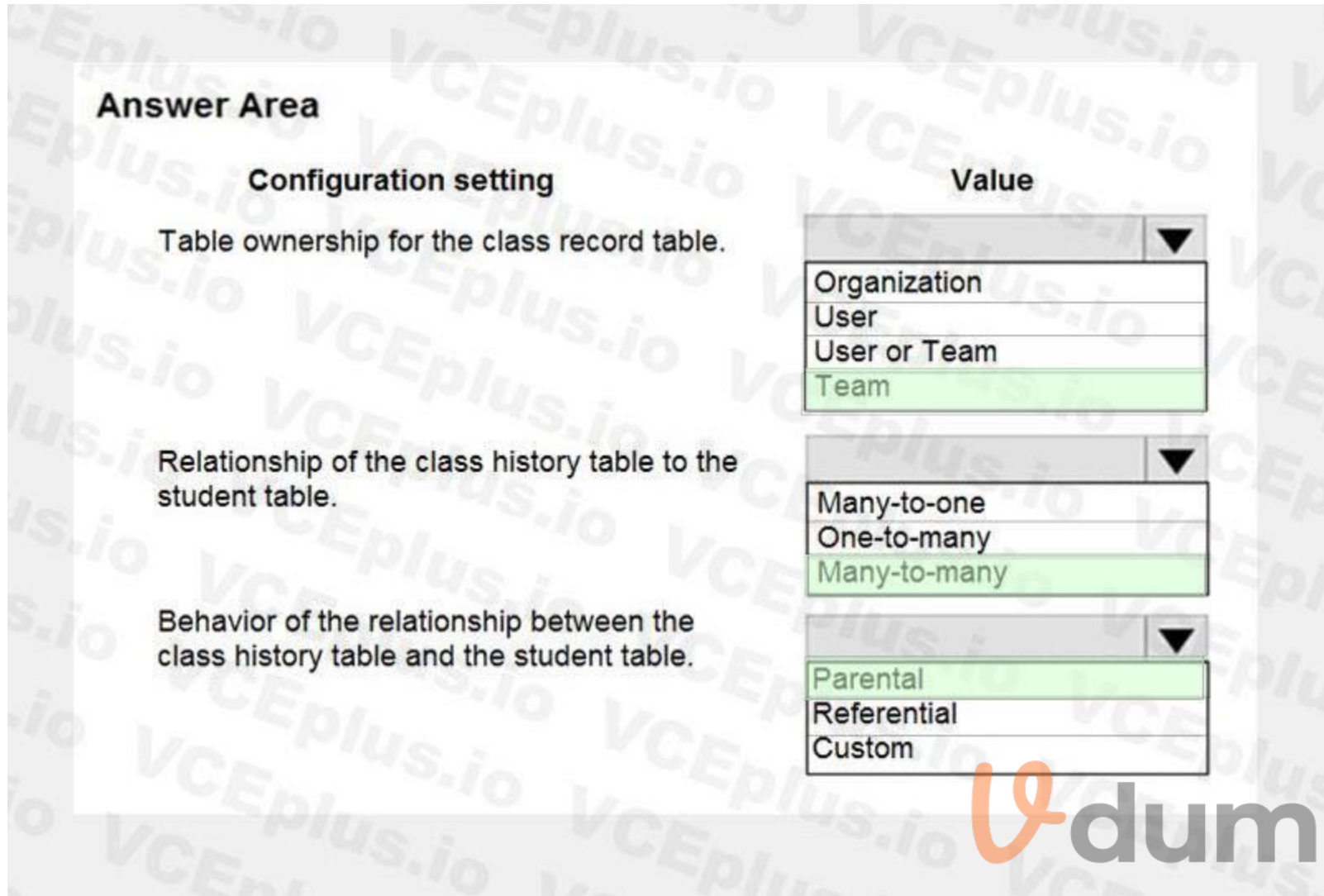
	▼
Parental	
Referential	
Custom	

 **Vdumps**

Answer Area:

Answer Area

Configuration setting	Value
Table ownership for the class record table.	<ul style="list-style-type: none"> Organization User User or Team Team
Relationship of the class history table to the student table.	<ul style="list-style-type: none"> Many-to-one One-to-many Many-to-many
Behavior of the relationship between the class history table and the student table.	<ul style="list-style-type: none"> Parental Referential Custom



Section:

Explanation:

Box 1: Team

'the student's current class history must be available to the administrators at the new school.'

Box 2: Many-to-one

Box 3: Parental The N:1 (many-to-one) relationship type exists in the user interface because the designer shows you a view grouped by tables. 1:N relationships actually exist between tables and refer to each table as either a Primary/Current table or Related table. The related table, sometimes called the child table, has a lookup column that allows storing a reference to a row from the primary table, sometimes called the parent table. A N:1 relationship is just a 1:N relationship viewed from the related table.

Reference:

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

<https://docs.microsoft.com/en-us/powerapps/maker/data-platform/create-edit-entity-relationships#types-of-table-relationships>

QUESTION 21

HOTSPOT

You are developing an app for a sales team to record contact details in their Common Data Service database.

The app must handle loss of network and save the data to Common Data Service when reconnected.

The main screen of the app has a form to collect contact data and a button. The OnSelect property for the button has the following expression:

```
1. If(  
2. Connection.Connected,  
3. Patch(  
4. Contacts,  
5. Defaults(Contacts),  
6. {  
7. 'First Name': DataCardValue_FirstName.Text, 'Last Name': DataCardValue_LastName.Text  
8. }  
9. );  
10. Navigate(ConfirmationScreen,ScreenTransition.Fade)  
11. ,  
12. ClearCollect(  
13. LocalRecord,  
14. {  
15. 'First Name': DataCardValue_FirstName.Text, 'Last Name': DataCardValue_LastName.Text  
16. }  
17. );  
18. SaveData(LocalRecord, "LocalRecord");  
19. Navigate(PendingScreen,ScreenTransition.Fade)  
20. )
```

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
The expression saves the data to CDS when reconnecting after losing network connection.	<input type="radio"/>	<input type="radio"/>
The collection contains all contacts not saved to CDS.	<input type="radio"/>	<input type="radio"/>
The expression updates existing contacts in CDS.	<input type="radio"/>	<input type="radio"/>
The expression handles loss of connection to CDS.	<input type="radio"/>	<input type="radio"/>

Answer Area:



Answer Area		Yes	No
	Statements		
	The expression saves the data to CDS when reconnecting after losing network connection.	<input checked="" type="radio"/>	<input type="radio"/>
	The collection contains all contacts not saved to CDS.	<input type="radio"/>	<input checked="" type="radio"/>
	The expression updates existing contacts in CDS.	<input type="radio"/>	<input checked="" type="radio"/>
	The expression handles loss of connection to CDS.	<input checked="" type="radio"/>	<input type="radio"/>



Section:

Explanation:

Box 1: Yes LoadData and SaveData combine to form a simple mechanism to store small amounts of data on a local device. By using these functions, you can add simple offline capabilities to your app.

Box 2: No

Box 3: No

Box 4: Yes

References:

<https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/offline-apps>

01 - Configure business process automation

Case study

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When you are ready to answer a question, click the Question button to return to the question.

Background

Current environment

Adventure Works Cycles wants to replace their paper-based bicycle manufacturing business with an efficient paperless solution. The company has one manufacturing plant in Seattle that produces bicycle parts, assembles bicycles, and distributes finished bicycles to the Pacific Northwest.

Adventure Works Cycles has a retail location that performs bicycle repair and warranty repair work. The company has six maintenance vans that repair bicycles at various events and residences.

Adventure Works Cycles recently deployed Dynamics 365 Finance and Dynamics 365 Manufacturing in a Microsoft-hosted environment for financials and manufacturing. The company plans to leverage the Microsoft Power Platform to migrate all of their distribution and retail workloads to Dynamics 365 Unified Operations.

The customer uses Dynamics 365 Sales, Dynamics 365 Customer Service and Dynamics 365 Field Service.

Retail store information

Adventure Works Cycle has one legal entity, four warehouses, and six field service technicians.

Warehouse counting is performed manually by using a counting journal. All warehouse boxes and items are barcoded.

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.

Adventure Works Cycles uses a Power Apps app for local bike fairs to attract new customers.

A canvas app is being developed to capture customer information when customers check in at the retail location. The app has the following features:

- Customer selects yes or no if they are on the mailing list.
- Customer selects the amount of times they have visited the store.
- Customer selects the type of service needed.
- The search result returns all last name records that match the search term.

Technology

Requirements

A plug-in for Dynamics 365 Sales automatically calculated the total billed time from all activities on a particular customer account, including sales representative visits, phone calls, email correspondence, and repair time compared with hours spent.

A shipping API displays shipping rates and tracking information on sales orders. The contract allows for 3,000 calls per month.

Ecommerce orders are processed in batch daily by using a manual import of sales orders in Dynamics 365 Finance.

Microsoft Teams is used for all collaboration.

All testing and problem diagnostics are performed in a copy of the production environment.

Customer satisfaction surveys are recorded with Microsoft Forms Pro. Survey replies from customers are sent to a generic mailbox.

Automation

A text message must be automatically sent to a customer to confirm an appointment and to notify when a technician is on route that includes their location.

Ecommerce sales orders must be integrated into Dynamics 365 Finance and then exported to Azure every night.

A text alert must be sent to employees scheduled to assist in the repair area of the retail store if the number of repair check-ins exceeds eight.

Submitted customer surveys must generate an email to the correct department. Approval and follow-up must occur within a week.

Reporting

The warehouse manager's dashboard must contain warehouse counting variance information.

A warehouse manager needs to quickly view warehouse KPIs by using a mobile device.

Power BI must be used for reporting across the organization.

User experience

Warehouse counting must be performed by using a mobile app that scans barcodes on boxes.

All customer repairs must be tracked in the system no matter where they occur.

Qualified leads must be collected from local bike fairs.

Issues

Warehouse counting must be performed by using a mobile app that scans barcodes on boxes.

All customer repairs must be tracked in the system no matter where they occur.

Qualified leads must be collected from local bike fairs.

Internal

User1 reports receives an intermittent plug-in error when viewing the total bill customer time.

User2 reports that Azure consumption for API calls has increased significantly to 100 calls per minute in the last month.

User2 reports that sales orders have increased.

User5 receives the error message: 'Endpoint unavailable' during a test of the technician dispatch ISV solution.

The parts department manager who is the approver for the department is currently on sabbatical.

External

CustomerB reports that the check-in app returned only one search result for their last name, which is not the correct name.

Nine customers arrive in the repair area of the retail store, but no texts were sent to scheduled employees.

Customers report that the response time from the information email listed on the Adventure Works Cycles website is greater than five days. CustomerC requested additional information from the parts department through the customer survey and has not received a response one week later.

QUESTION 1

You need to modify the Power Automate flow to resolve CustomerC's issue. What should you do?

- A. Add a configure run that is set to is successful.
- B. Add a data operation that specifies the false conditions.
- C. Add a condition containing approval hierarchy.
- D. Add a timeout setting to the approval flow.

Correct Answer: C

Section:

Explanation:

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

Reference: <https://docs.microsoft.com/en-us/power-automate/sequential-modern-approvals>

QUESTION 2

DRAG DROP

You need to recommend solutions to meet the e-commerce automation requirements.

Which platform tools should you recommend? To answer, drag the appropriate tools to the correct requirements. Each tool 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:

Answer Area

Tools	Requirement	Tool
Power Apps		
Logic Apps	Online sales orders	
Power Automate	Customer survey	
Workflow		

Correct Answer:

Answer Area		
Tools	Requirement	Tool
Power Apps		
	Online sales orders	Logic Apps
	Customer survey	Power Automate
Workflow		

Section:

Explanation:

Box 1: Logic Apps

Scenario: Ecommerce sales orders must be integrated into Dynamics 365 Finance and then exported to Azure every night.

For integration with Dynamics 365 Logic Apps can be used. It also supports scheduled actions.

For integration with Azure use Logic Apps, instead of Power Automate.

Incorrect Answers:

Workflow does not support run on schedule.

Power Automate does not support Azure integration. (For integration with Dynamics 365 Power Automate can be used. It also supports scheduled actions.)

Box 2: Power Automate

Scenario: Submitted customer surveys must generate an email to the correct department. Approval and follow-up must occur within a week.

Power Automate has approval flows.

Incorrect Answers:

Workflow does not support Approval workflows.

Reference:

<https://docs.microsoft.com/en-us/microsoft-365/community/power-automate-vs-logic-apps>

<https://docs.microsoft.com/en-us/power-automate/replace-workflows-with-flows>

02 - Configure business process automation

Case study

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When you are ready to answer a question, click the Question button to return to the question.

Background

Contoso Pharmaceuticals manufactures and sells drugs to retail and wholesale pharmacies, hospitals, and research facilities.

The company plans to implement Dynamics 365 Sales and Dynamics 365 Finance.

Current environment

Contoso maintains a Microsoft Excel workbook that lists all drugs they supply.
Pharmacies submit order requests through email.
All information at customer locations is handwritten by customer representatives.
Contoso uses Cerner, which is a medical industry application that uses a proprietary database.
Some accounts are referrals from other pharmacies.
Every pharmacy has its own Dynamics 365 Sales instance.

Requirements

General

Contoso wants to ensure that there is minimal custom code and custom connectors in the system.

Accounts

Ensure that the names of the pharmacies are synced between the accounting and the customer management systems.
Account numbers should be entered automatically into the pharmaceutical system that is in a Cerner database and kept in sync.
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.
A trigger must be created that changes the Priority field to 1 in the Account record 10 days after an Account record is created.
A field named Priority_Trigger must be created to trigger the Priority field.
A field named Facility type field must be added in order to select whether a customer is a retail pharmacy, wholesale pharmacy, research facility, or hospital.

Users

UserA must be able to create and publish Power Apps apps.
UserB must be the owner of all the systems and be able to provide permissions and create all new environments.
UserC must be able to create apps connected to the systems and update the security roles and entities.
Pharmacy representatives must only be able to run the apps and access their own records.
Access to the accounting Power Apps app must be restricted to accounting team members.
End users must have minimum access to the required systems.
Only supervisors must be able to view phone numbers in the Accounts form.
Developers must be able to create new apps for all users.
Sales users must only have access to their own records.

Reporting

Pharmacy orders must be displayed in four graphs as follows:

Annual revenue over \$100,000

Annual revenues under \$100,000

Research facilities

Hospitals

The graphs must be interactive, and users must be able to drill down on any dimension.

Customizations

Ensure that notifications are sent to the sales team when a lead is added by using Slack.
Ensure that leads have a review stage added to the sales process.
Doctors must be manually added to a custom entity named Doctor if the doctor is not listed.
Refill dates for customer prescriptions should be automatically determined and a notification should be sent to the customer.
Fields for the doctor's name and phone number must be displayed in the customer record.
The doctor entered on the customer's record must be validated against doctors that exist in the system.
The new solution will be sold to other pharmacies for use. The application must not allow changes to be made.
The solution must be error free so that when it is installed in other environments it does not cause issues.
A custom mobile app must be created to allow salespeople to add or search by pharmacy name.
Pharmacy records must be uniquely identified by pharmacy name, address, contact name, and phone number.
When a pharmacy is added by using the mobile app, the phone number must be validated to be all digits.

QUESTION 1

DRAG DROP

You need to select a process to create each function.



Which process should you use? To answer, drag the appropriate processes to the correct functions. Each process 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:

Answer Area

Processes	Function	Process
Power Automate	Create a Slack notification from a lead.	
Business rule	Change the priority field.	
Business process flow	Ensure appropriate information is added to leads	

Correct Answer:

Answer Area

Processes	Function	Process
	Create a Slack notification from a lead.	Power Automate
	Change the priority field.	Business process flow
	Ensure appropriate information is added to leads	Business rule

Section:

Explanation:

Box 1: Power Automate

Ensure that notifications are sent to the sales team when a lead is added by using Slack

Power Automate is a service that helps you create automated workflows between your favorite apps and services to synchronize files, get notifications, collect data, and more.

Box 2: Business rule

A trigger must be created that changes the Priority field to 1 in the Account record 10 days after an account record is created.

A field named Priority_Trigger must be created to trigger the Priority field.

Business rules provide a simple interface to implement and maintain fast-changing and commonly used rules.

Box 3: Business process flow

Ensure that leads have a review stage added to the sales process.

Use business process flows to define a set of steps for people to follow to take them to a desired outcome. These steps provide a visual indicator that tells people where they are in the business process.

Reference:

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

<https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/customize/create-business-rules-recommendations-apply-logic-form>

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

QUESTION 2

You need to create the model driven app for accounts designated as referrals.

What should you add to the app?

- A. Workflow
- B. Subgrid
- C. Business rule
- D. Flow
- E. Chart

Correct Answer: C

Section:

Explanation:

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.

Note: By combining conditions and actions, you can do any of the following with business rules: Set column values Clear column values

Set column requirement levels

Show or hide columns

Enable or disable columns

Validate data and show error messages

Create business recommendations based on business intelligence.

Reference:

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

03 - Configure business process automation

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When you are ready to answer a question, click the Question button to return to the question.

Background

Bellows Sports is the region's newest, largest, and most complete sports complex. The company features baseball and soccer fields and two full-size hockey rinks. The complex provides coaching, recreational leagues, a pro shop, and state-of-the-art customer and player amenities.

The company is organized into the following divisions:

Baseball

Hockey

Soccer

Bellow Sports runs tournaments several times per year. Each tournament runs six weeks.

Current environment

Requirements

Bellow Sports tracks players and events in Microsoft Excel workbooks and uses email to communicate with players, partners, and prospective customers. The company uses a proprietary cloud-based accounting system.

The company relies on referrals from athletes for new business. Bellows uses a third-party marketing company to gather feedback and referrals from athletes. The third-party marketing company uploads a Microsoft Excel file containing lists of potential customers and players to the FTP site that Bellows Sports maintains.

Tournaments

Customer information is stored in the Accounts entity. Each tournament record must list the associated sales representative as the tournament owner. When team members create tournament records they must enter the start date for a tournament. The end date of the tournament must be automatically calculated.

Registration form

You must create a form to allow players to register for tournaments. The registration form must meet the following requirements:

Division	Requirement
Baseball	Capture the age and weight of the player. The height field must not display.
Hockey	Capture the age, height, and weight of the player.
Soccer	Capture the age of the player. The height and weight fields must not display.

Each division has tournaments that take place in specific locations. Users must be able to select the division for a tournament location.

Information about upcoming tournaments must be pre-located into the registration form when the registration form loads.

The form must include a custom button that sends an email confirmation to the player after the player registers.

The button must not be visible until after the form is saved.

Security

The company identifies the following job roles:

Role	Tasks
Sales representative	These users will enter data into Dynamics 365 Customer Service.
Intern	These users will create Power Apps apps, and connectors, and create Power Automate flows.
Manager	These users will add users, assign security roles, and manage data storage.

You must grant users the minimum permissions required to perform their job tasks.

Data automation

Customer name must be added to Dynamics 365 Finance automatically after it is entered.

You must produce a report that details the number of registrations for a day and send the report as a PDF to the management team.

You must implement mechanisms to handle all code-related errors.

When a customer record is updated, the system must look up the account number for the customer in the accounting system.

Referrals must be imported into the system as soon as they are available.

Issues

Apps

The captions for the New and Save buttons do not render properly on the form.

Interns can create apps but cannot interact with their own data.

Portal

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
```

Solution checker issues

You run solution checker and observe Plug-in or workflow activity errors in the following code sets:

Set	Code	Error message
Code set 1	<pre>CS101 var columns = new ColumnSet(); CS102 columns.AllColumns = true; CS103 var query = new QueryExpression("account"); CS104 query.ColumnSet = columns; CS105 var results = service.RetrieveMultiple(query);</pre>	il-specify-column
Code Set 2	<pre>CS201 WebRequest request = WebRequest.Create ("https://www.bellows.com/api/stuff"); CS202 HttpResponseMessage response = new HttpResponse(); CS203 CS204 response = request.GetResponse(); CS205 response.Close();</pre>	il-turn-off-keepalive

Code



The following code runs when the registration form loads. You must implement a mechanism to handle errors that occur in the code:

```
UpdateRecord.js (Line numbers are included for reference only.)
UR01
UR02 var data =
UR03   {
UR04     "name" : "Updated Account"
          "credithold" : true,
          "description" : "This is an account update",
          "revenue" : 10,000,
          "Division" : 2
UR05     }
UR06
```

QUESTION 1

You need to handle errors in UpdateRecord.js.

Which code segment should you add at line UR06?

- A. `catch(error) {
 alert("Caught error: " + error.message);}`
- B. `Exception exception = Server.GetLastError();
if(exception != null)`
- C. `catch(exception e){
 console.writeline(e)}`
- D. `function (error){
 console.log(error.message)}`



Correct Answer: A

Section:

Explanation:

QUESTION 2

You need to configure the system to support automation for referrals.

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

NOTE: Each correct selection is worth one point.

- A. Azure Function that uses the Discovery service
- B. workflow extension
- C. Azure Function that uses a listener
- D. Power Automate flow

Correct Answer: C, D

Section:

Explanation:

<https://docs.microsoft.com/en-us/dotnet/api/system.io.filesystemwatcher><https://docs.microsoft.com/en-us/power-automate/>

QUESTION 3

DRAG DROP


You need to determine how to implement rules for players who register for a soccer tournament.

Which business rule actions should you use? To answer, drag the appropriate business rule actions to the correct fields. Each business rule action 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:

Business rule actions	Answer Area
Set visibility action to No.	Role Business rule action
Set Lock/Unlock action to Lock	Weight Business rule action
Set Field Value action to No.	Age Business rule action
Set Business Required action to Business Required	Height Business rule action



Correct Answer:

Business rule actions	Answer Area
Set visibility action to No.	Role Set visibility action to No.
Set Lock/Unlock action to Lock	Weight Set Business Required action to Business Required
Set Field Value action to No.	Age Set Business Required action to Business Required
Set Business Required action to Business Required	Height Set visibility action to No.

Section:

Explanation:

Scenario:

Division	Requirement
Baseball	Capture the age and weight of the player. The height field must not display.
Hockey	Capture the age, height, and weight of the player.
Soccer	Capture the age of the player. The height and weight fields must not display.

Weight: Set visibility action to No.

Age: Set Business Required action to Business required

Height: Set visibility action to No.

04 - Configure business process automation

QUESTION 1

You have a Common Data Service entity and a model-driven app. The model-driven app integrates with an external system.

You plan to run business logic each time the model-driven app creates a record. Running business logic must not negatively affect model-driven app users.

You need to implement the business logic.

What should you use?

- A. Synchronous plug-in registered in the PreOperation stage
- B. Synchronous workflow
- C. Asynchronous plug-in registered in the PostOperation stage

Correct Answer: C

Section:

Explanation:

The asynchronous service executes long-running operations independent of the main Microsoft Dataverse core operation. This results in improved overall system performance and improved scalability.

Reference: <https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/asynchronous-service>

QUESTION 2

A manufacturing company uses a Common Data Service (CDS) environment to manage their parts inventory across two warehouses modeled as business units and named WH1 and WH2.

Data from the two warehouses is processed separately for each part that has its inventory quantities updates. The company must automate this process, pushing inventory updates from orders submitted to the warehouses.

You need to build the automation using Power Automate flows against the CDS database. You must achieve this goal by using the least amount of administrative effort.

Which flow or flows should you recommend?

- A. Two automated flows with scope Business Unit, with triggers on Create/Update/Delete on orders.
- B. Two automated flows with scope Business Unit, with triggers on Create/Update/Delete and each flow filtering updates from each business unit.
- C. Two scheduled flows, each querying and updating the parts included in orders from each business unit.
- D. One scheduled flow, querying the parts included in orders in both business units.
- E. One automated flow, querying the orders in both business units.
- F. Two scheduled flows, each querying the orders from each business unit.
- G. Two automated flows with scope Organization, with triggers on Create/Update/Delete and filters on WH1 and WH2.
- H. Two automated flow with scope Business Unit, with triggers on Create/Update/Delete on orders and filters on WH1 and WH2.

Correct Answer: H

Section:

Explanation:

With the Common Data Service connector, you can create Power Automate flows that are initiated by create and update events within Dataverse. Additionally, you can perform create, update, retrieve, and delete actions on records within Dataverse.

You can use scopes to determine if your flow runs if you create a new record, if a new record is created by a user within your business unit, or if a new record is created by any user in your organization.

Reference: <https://docs.microsoft.com/en-us/power-automate/connection-cds>

QUESTION 3

An organization implements Dynamics 365 Sales.

You need to trigger a business rule when the main form is saved.

What should you do?

- A. Write a business rule to trigger on a change of ModifiedOn field.
- B. Set the scope of the business rule to one specific form where business rule triggers.
- C. Set the scope of the business rule to All Forms.
- D. Set the scope of the business rule to Entity.

Correct Answer: D

Section:

Explanation:

Set scope of business rule to "Entity" instead of "All Form". This will trigger it on server side.

Reference: [https://docs.microsoft.com/en-us/previous-versions/dynamicscrm-2016/developers-guide/dn481574\(v=crm.8\)](https://docs.microsoft.com/en-us/previous-versions/dynamicscrm-2016/developers-guide/dn481574(v=crm.8))

QUESTION 4

A company implements Dynamics 365 Sales.

An email notification must be sent automatically to the sales manager when a business process completes.

You need to ensure that emails are sent.

What should you create on the process completed trigger?

- A. a workflow
- B. an action step
- C. a data step
- D. a Power Automate flow step

Correct Answer: A

Section:

Explanation:

When you include a workflow that you want to trigger on Stage Exit of a stage in your business process flow, and that stage is the last stage in the flow, the designer gives the impression that the workflow will be triggered when that stage is completed.

Reference: <https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/customize/business-process-flows-overview>

QUESTION 5

You create a Power Virtual Agents chatbot in an environment named Environment1. A colleague creates a Power Automate flow in the default solution in the default environment.

The chatbot in Environment1 does not recognize the flow in the default environment.

You need to ensure the chatbot can access the flow.

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

NOTE: Each correct selection is worth one point.

- A. Add the Power Automate flow to a solution in Environment1.
- B. Send a copy of the Power Automate flow from the default environment.
- C. Add the Power Automate flow to a solution in the default environment.
- D. Export the solution from the default environment and import the solution into Environment1.
- E. Share the Power Automate flow from the default environment.



Correct Answer: A, E

Section:

Explanation:

E: The flow needs to be shared as it was created by another person.

A: To be available to your bots, flows must be stored in a solution in Power Automate. If you do not want to use the Default Solution for this purpose, you can move your flows to another solution.

Incorrect Answers:

C: The flow is already in the default solution in the default environment. D: You move the flow, not export and import the solution.

Reference: <https://docs.microsoft.com/en-us/power-virtual-agents/environments-first-run-experience>

QUESTION 6

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

Section:

Explanation:

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: Multi-entity processes can contain no more than five entities.

There can be no more than 10 activated business process flow processes per entity. Each process can contain no more than 30 stages.

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

QUESTION 7

HOTSPOT

A company is preparing to go live with their Dynamics 365 Sales 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 Sales, the IDs for the new accounts must be output to a log file.

You have the following code:


```

1. ExecuteMultipleRequest request = new ExecuteMultipleRequest()
2. {
3.     Settings = new ExecuteMultipleSettings()
4.     {
5.         ContinueOnError = true,
6.         ReturnResponses = false
7.     },
8.     Requests = new OrganizationRequestCollection()
9. };
10. GetAccountData(request.Requests);
11. ExecuteMultipleResponse responseWithResults = (ExecuteMultipleResponse)
    crmSvc.Execute(request);
12. foreach (var responseItem in responseWithResults.Responses)
13. {
14.     . . .
15. }

```

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

Hot Area:

Answer Area		Yes	No
Statement			
The developer is able to get access to the newly-created accounts IDs.		<input type="radio"/>	<input type="radio"/>
If an error occurs, the developer can get access to the request that caused the fault.		<input type="radio"/>	<input type="radio"/>
If there are errors in the requests, the request will raise an exception at the first error and stop processing.		<input type="radio"/>	<input type="radio"/>
If there are ten errors in the 1,000 CreateRequest requests, ten responses will be returned from the platform.		<input type="radio"/>	<input type="radio"/>

Answer Area:

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

Section:

Explanation:

Box 1: No

Box 2: Yes ContinueOnError: 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.

ReturnResponses: When true, return responses from each message request processed. When false, do not return responses.

When 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

Box 4: Yes

For example, in a request collection that contains six requests where the third and fifth request return faults, the following table indicates what the Responses collection would contain.

ContinueOnError=true, ReturnResponses=false: 2 response items: 2 have Fault set to a value.

Reference:

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

QUESTION 8

DRAG DROP

You are creating a business process flow for an organization's Request for Quote process.

You need to ensure that the business process flow meets the company's requirements.

Which components should you use? To answer, drag the appropriate components to the correct requirements. Each component may be used once, more than once, or not at all. You may need to drag the split bar between panes to scroll to view content. Select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Select and Place:

Answer Area		
Components	Requirement	Component
Step	The process starts with the receipt of the request for quote.	
Stage	Ensure that credit checks are performed for new users only.	
Custom control	Merge all process paths into the main flow.	
Branching condition		

Correct Answer:

Answer Area		
Components	Requirement	Component
	The process starts with the receipt of the request for quote.	Step
	Ensure that credit checks are performed for new users only.	Branching condition
Custom control	Merge all process paths into the main flow.	Stage

Section:

Explanation:

Box 1: Step

Each step represents a field where data can be entered.

Stages tell you where you are in the process, while steps are action items that lead to a desired outcome.

Box 2: Branching condition

You can enhance a business process flow with branching. If you have the create permissions on business process flows, you'll be able create business process flow with multiple branches by using the If-Else logic.

Box 3: Stage

Each stage contains a group of steps.

Incorrect Answers:

You can use custom controls to add rich visualizations (such as sliders, radial knobs, the LinkedIn control, and more) to business process flows steps and deliver engaging experiences to those who use your business process.

Reference:

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

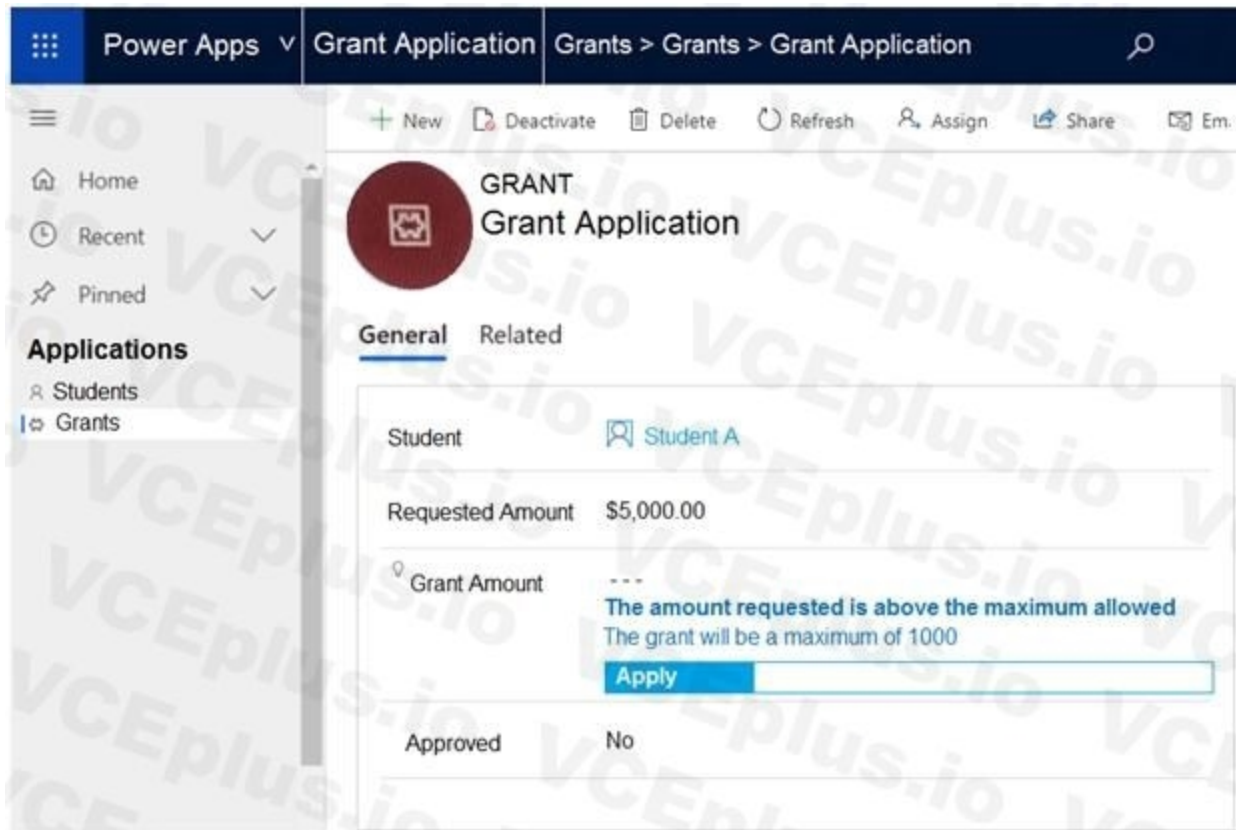
<https://docs.microsoft.com/en-us/power-automate/enhance-business-process-flows-branching>

QUESTION 9

HOTSPOT

A university manages grant applications using a model-driven app.

Users report that the message on the Grant Application screen is outdated. The screen shows the following:



Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.
NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Which Power Platform capability does the app use to display the message?

What should the app maker do to prevent the message from displaying?

Answer Area:

Answer Area

Which Power Platform capability does the app use to display the message?

What should the app maker do to prevent the message from displaying?



Section:

Explanation:

Reference:

<https://www.loganconsulting.com/blog/how-use-power-automate-trigger-workflows-microsoft-dynamics-crm/>

QUESTION 10

DRAG DROP

An organization has a Dynamics 365 Sales environment. In the development environment, you create a business rule named BusinessRule1 on the Account entity. You deploy BusinessRule1 to production as part of a managed solution.

You need to remove BusinessRule1 from the production environment.

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

Answer Area

In the development environment, navigate to Solutions.

Create a new managed solution in the production environment.

Export the solution as managed and import it in the production environment.

In the production environment, add a new business rule.

Select the solution that has BusinessRule1 and deactivate the rule.

Select the solution that has BusinessRule1, navigate to the appropriate entity, and delete the rule.



Correct Answer:

 **vdumps**

Actions	Answer Area
	In the development environment, navigate to Solutions.
Create a new managed solution in the production environment.	Export the solution as managed and import it in the production environment.
	Select the solution that has BusinessRule1, navigate to the appropriate entity, and delete the rule.
In the production environment, add a new business rule.	
Select the solution that has BusinessRule1 and deactivate the rule.	



Section:

Explanation:

Step 1: In the development environment, navigate to Solutions.
 The only supported way of transferring customizations from one CRM organization to another has been through Solutions. With Solution Management came the concept of Managed and Unmanaged Solutions.
 Step 2: Export the solution as managed and import it in the production environment.
 Managed is a way to protect your IP (Intellectual Property) with an easy concept of install and uninstall.
 Step 3: Select the solution that has BusinessRule1, navigate to the appropriate entity, and delete the rule.

Reference:
<https://www.inogic.com/blog/2016/01/solution-management-with-dynamics-crm-2016/>

QUESTION 11

HOTSPOT

You are a Power Apps app maker with administrative rights to Microsoft 365. You create a canvas app that will be used by employees at your company. You plan to allow users to embed the app in Microsoft Teams. During testing, the following issues are reported:
 The app runs slowly when it runs in Microsoft Teams.
 Test users cannot add the personal app within Microsoft Teams.
 You need to resolve the issues.
 What should you do? To answer, select the appropriate options in the answer area.
 NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area	Resolution
Issue The app runs slowly when it runs in Microsoft Teams.	<div style="border: 1px solid black; padding: 2px;">▼</div> <div style="border: 1px solid black; padding: 2px;">Change settings in app to preload app</div> <div style="border: 1px solid black; padding: 2px;">Use a Teams integration object</div>
Test users cannot add the personal app within Microsoft Teams.	<div style="border: 1px solid black; padding: 2px;">▼</div> <div style="border: 1px solid black; padding: 2px;">Download the custom app</div> <div style="border: 1px solid black; padding: 2px;">Change permission for the custom app in Teams</div> <div style="border: 1px solid black; padding: 2px;">Publish the customer app</div> <div style="border: 1px solid black; padding: 2px;">Change custom app setup policy in Tems</div>

Answer Area:

Answer Area	Resolution
Issue The app runs slowly when it runs in Microsoft Teams.	<div style="border: 1px solid black; padding: 2px;">▼</div> <div style="border: 1px solid black; padding: 2px; background-color: #e0ffe0;">Change settings in app to preload app</div> <div style="border: 1px solid black; padding: 2px;">Use a Teams integration object</div>
Test users cannot add the personal app within Microsoft Teams.	<div style="border: 1px solid black; padding: 2px;">▼</div> <div style="border: 1px solid black; padding: 2px;">Download the custom app</div> <div style="border: 1px solid black; padding: 2px; background-color: #e0ffe0;">Change permission for the custom app in Teams</div> <div style="border: 1px solid black; padding: 2px;">Publish the customer app</div> <div style="border: 1px solid black; padding: 2px;">Change custom app setup policy in Tems</div>

Section:

Explanation:

Box 1: Change settings in app to preload app

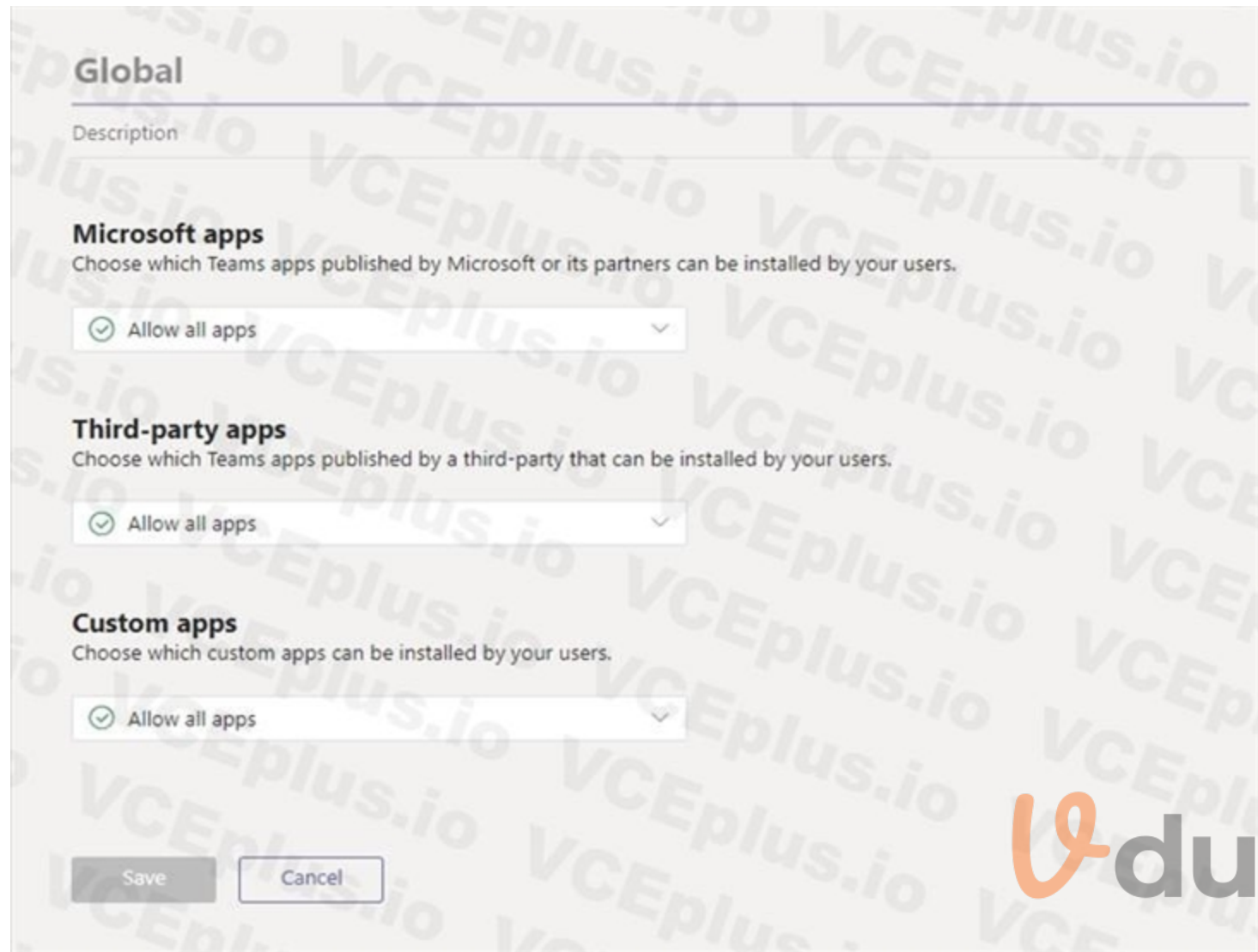
You can optionally preload your app within Teams to increase performance.

Box 2: Change the permission for the custom app in Teams

As an admin, you can use app permission policies to control what apps are available to Microsoft Teams users in your organization. You can allow or block all apps or specific apps published by Microsoft, third-parties, and your organization.

When you block an app, users who have the policy are unable to install it from the Teams app store.

You manage app permission policies in the Microsoft Teams admin center. You can use the global (Org-wide default) policy or create and assign custom policies. Users in your organization will automatically get the global policy unless you create and assign a custom policy. After you edit or assign a policy, it can take a few hours for changes to take effect.



Reference:

<https://docs.microsoft.com/en-us/powerapps/teams/embed-teams-app>

<https://docs.microsoft.com/en-us/microsoftteams/teams-app-permission-policies>

QUESTION 12

DRAG DROP

You are developing a Power Platform solution.

You must add a custom control slider to a specific step in a business process flow.

You need to add the custom control.

Which four 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:

Action	Answer area
Import customizations into the Microsoft Dataverse environment.	
Modify columns in the default solution.	
Create a Power Automate flow to activate the custom controls.	
Generate and export the business process flow form.	
Configure custom controls on a related entity form.	
Copy custom control configurations to the FormXML for the business process flow.	

Correct Answer:

Action	Answer area
	Configure custom controls on a related entity form.
Modify columns in the default solution.	Generate and export the business process flow form.
Create a Power Automate flow to activate the custom controls.	Copy custom control configurations to the FormXML for the business process flow.
	Import customizations into the Microsoft Dataverse environment.

Section:

Explanation:

Here are the steps you must follow to add custom controls to a business process flow:

Step 1: Configure custom controls on a related entity.

Step 2: Generate and exporting the business process flow form.

Step 3: Copy custom control configurations to the FormXML for the business process flow.

Step 4: Import customizations into the Microsoft Dataverse environment.

Note:

1. Configure custom controls on a related table form.
2. Generate and exporting the business process flow form.
3. Copy custom control configurations to the business process flow form from the related table form.
4. Import the customizations back into Microsoft Dataverse.

Reference:

<https://docs.microsoft.com/en-us/power-automate/custom-controls-business-process-flows>

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.	<input type="checkbox"/> Workflow <input type="checkbox"/> Business process flow <input type="checkbox"/> Plug-ins <input type="checkbox"/> Custom workflow
Claim applications be routed to approvers at each stage.	<input type="checkbox"/> Power Automate flow <input type="checkbox"/> Business process flow <input type="checkbox"/> Actions
Claim applications must show or hide fields based on the values.	<input type="checkbox"/> Business rules <input type="checkbox"/> JavaScript

Answer Area:

Requirement	Feature
Claim applications must go through the same approval process.	<ul style="list-style-type: none"> Workflow Business process flow Plug-ins Custom workflow
Claim applications be routed to approvers at each stage.	<ul style="list-style-type: none"> Power Automate flow Business process flow Actions
Claim applications must show or hide fields based on the values.	<ul style="list-style-type: none"> Business rules JavaScript

Section:

Explanation:

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.

Reference:

<https://docs.microsoft.com/en-us/dynamics365/fin-ops-core/fin-ops/organization-administration/configure-approval-process-workflow>

01 - Extend the user experience

Case study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs.

When you are ready to answer a question, click the Question button to return to the question.



Background

Bellows Sports is the region's newest, largest, and most complete sports complex. The company features baseball and soccer fields and two full-size hockey rinks. The complex provides coaching, recreational leagues, a pro shop, and state-of-the-art customer and player amenities.

The company is organized into the following divisions:

Baseball

Hockey

Soccer

Bellow Sports runs tournaments several times per year. Each tournament runs six weeks.

Current environment

Requirements

Bellow Sports tracks players and events in Microsoft Excel workbooks and uses email to communicate with players, partners, and prospective customers. The company uses a proprietary cloud-based accounting system. The company relies on referrals from athletes for new business. Bellows uses a third-party marketing company to gather feedback and referrals from athletes. The third-party marketing company uploads a Microsoft Excel file containing lists of potential customers and players to the FTP site that Bellows Sports maintains.

Tournaments

Customer information is stored in the Accounts entity. Each tournament record must list the associated sales representative as the tournament owner. When team members create tournament records they must enter the start date for a tournament. The end date of the tournament must be automatically calculated.

Registration form

You must create a form to allow players to register for tournaments. The registration form must meet the following requirements:

Division	Requirement
Baseball	Capture the age and weight of the player. The height field must not display.
Hockey	Capture the age, height, and weight of the player.
Soccer	Capture the age of the player. The height and weight fields must not display.

Each division has tournaments that take place in specific locations. Users must be able to select the division for a tournament location.

Information about upcoming tournaments must be pre-located into the registration form when the registration form loads.

The form must include a custom button that sends an email confirmation to the player after the player registers.

The button must not be visible until after the form is saved.

Security

The company identifies the following job roles:

Role	Tasks
Sales representative	These users will enter data into Dynamics 365 Customer Service.
Intern	These users will create Power Apps apps, and connectors, and create Power Automate flows.
Manager	These users will add users, assign security roles, and manage data storage.

You must grant users the minimum permissions required to perform their job tasks.

Data automation

Customer name must be added to Dynamics 365 Finance automatically after it is entered.

You must produce a report that details the number of registrations for a day and send the report as a PDF to the management team.

You must implement mechanisms to handle all code-related errors.

When a customer record is updated, the system must look up the account number for the customer in the accounting system.

Referrals must be imported into the system as soon as they are available.

Issues

Apps

The captions for the New and Save buttons do not render properly on the form.

Interns can create apps but cannot interact with their own data.

Portal

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
```

Solution checker issues

You run solution checker and observe Plug-in or workflow activity errors in the following code sets:

Set	Code	Error message
Code set 1	CS101 var columns = new ColumnSet(); CS102 columns.AllColumns = true; CS103 var query = new QueryExpression("account"); CS104 query.ColumnSet = columns; CS105 var results = service.RetrieveMultiple(query);	il-specify-column
Code Set 2	CS201 WebRequest request = WebRequest.Create ("https://www.bellows.com/api/stuff"); CS202 HttpWebResponse response = new HttpWebResponse(); CS203 CS204 response = request.GetResponse(); CS205 response.Close();	il-turn-off-keepalive

Code

The following code runs when the registration form loads. You must implement a mechanism to handle errors that occur in the code:

UpdateRecord.js (Line numbers are included for reference only.)

```
UR01  
UR02 var data =  
UR03 {  
UR04   "name" : "Updated Account"  
      "credithold" : true,  
      "description" : "This is an account update",  
      "revenue" : 10,000,  
      "Division" : 2  
UR05 }  
UR06
```

dumps

QUESTION 1

You need to add the script for the registration form event handling.

Which code segment should you use?

- A. formContext.data.entity.addOnSave(myFunction)
- B. formContext.data.addOnLoad(myFunction)
- C. formContext.data.removeOnLoad(myFunction)
- D. addOnPreProcessStatusChange
- E. formContext.data.isValid()

Correct Answer: B

Section:

Explanation:

Scenario: Information about upcoming tournaments must be pre-located into the registration form when the registration form loads. addOnLoad adds event handlers to the Subgrid OnLoad event event.

Reference: <https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/reference/grids/gridcontrol/addonload>

QUESTION 2

DRAG DROP

You need to address the user interface issues.

What should you do? To answer, drag the appropriate actions to the correct issues. Each action 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:

Actions	Requirement	Action
Add &ribbondebug=true to the end of the application URL.	Resolve rendering issue for New and Save buttons.	
Export the XML file.		
Modify the RibbonWSS.xsd file.	Add email button for registration form.	
Use Ribbon Workbench.		

Correct Answer:

Actions	Requirement	Action
	Resolve rendering issue for New and Save buttons.	Add &ribbondebug=true to the end of the application URL.
Export the XML file.		
Modify the RibbonWSS.xsd file.	Add email button for registration form.	Use Ribbon Workbench.



Section:

Explanation:

Box 1: Add &ribbondebug=true to the end of the application URL.

Scenario: The captions for the New and Save buttons do not render properly on the form.

You can use the an in-app tool called the Command Checker to inspect the ribbon component definitions to help us determine why the button is not rendered correctly.

To enable the Command Checker, you must append a parameter &ribbondebug=true to your D365 application URL. For example: <https://yourorgname.crm.dynamics.com/main.aspx?appid=9ab590fc-d25e-ea11-a81d-000d3ac2b3e6&ribbondebug=true>

Box 2: Use the Ribbon Workbench

Adding Buttons to Ribbons

1. Download and install Ribbon Workbench.

2. Select a suitable ICON for your button.
3. Create a solution.
4. Edit the button in Ribbon Workbench.
5. Publish and test.

Reference:

<https://support.microsoft.com/en-us/help/4552163/ribbon-troubleshooting-guide>

<https://neilparkhurst.com/2015/10/19/adding-buttons-to-ribbons/>

QUESTION 3

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

Section:

Explanation:

02 - Extend the user experience

QUESTION 1

A company is creating a Power Apps portal to collaborate with vendors.

You need to implement custom functionality in the portal by using JavaScript code.

Which two portal entities can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Web pages
- B. Web resources
- C. Webforms
- D. Entity lists

Correct Answer: C, D

Section:

Explanation:

C: The Web Form Step record contains a field named Custom JavaScript that can be used to store JavaScript code to allow you to extend or modify the form's visual display or function.

D: You can add custom Javascripts to Entity lists.

Reference: <https://docs.microsoft.com/en-us/powerapps/maker/portals/configure/add-custom-javascript> <https://docs.microsoft.com/en-us/powerapps/maker/portals/configure/entity-lists#add-custom-javascript>

QUESTION 2

You are developing an app that uses Common Data Service.

You must integrate Common Data Service with a new web application. You must allow the new web application to display data from Common Data Service.

You build a single-page web application using the Web API.

You need to authenticate your app using OAuth. What should you use?

- A. Windows Communication Foundation (WCF)



- B. Cross-Origin Resource Sharing (CORS)
- C. Microsoft Authentication Library (MSAL)
- D. Kerberos authentication
- E. Active Directory Authentication Library (ADAL)

Correct Answer: B

Section:

Explanation:

QUESTION 3

You are creating a custom connector in Power Apps to connect to a third-party application.

The definition in the connector must be set so that it is not visible to the end user.

You need to select the appropriate visibility parameter.

Which parameter should you use?

- A. important
- B. none
- C. internal
- D. advanced

Correct Answer: C

Section:

Explanation:

Leave the Visibility property set to none. This property for operations and parameters in a logic app or flow has the following options: none: displayed normally in the logic app or flow advanced: hidden under an additional menu internal:

hidden from the user important: always shown to the user first

Reference: <https://docs.microsoft.com/en-us/connectors/custom-connectors/define-blank>

QUESTION 4

A client requires that the system send an email from a button on their customer contact form.

You need to call the action from JavaScript.

Which two functions achieve this result? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Xrm.WebApi.online.executeMultiple()
- B. Xrm.WebApi.online.updateRecord()
- C. Xrm.WebApi.online.createRecord()
- D. Xrm.WebApi.online.execute()

Correct Answer: A, D

Section:

Explanation:

Xrm.WebApi.online.executeMultiple executes a collection of action, function, or CRUD operations.

Xrm.WebApi.online.execute executes a single action, function, or CRUD operation.

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/reference/xrm-webapi/online/executemultiple> <https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/reference/xrm-webapi/online/execute>

QUESTION 5

A company has two development instances, two test instances, two staging instances, and one production instance. The test team reports connection issues with the test and staging instances. You need to identify which of the instances the testing team currently has access. Which two URLs can you use? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. <https://globaldisco.crm.dynamics.com/api/discovery/v9.1/instances>
- B. <https://myorg.api.crm.dynamics.com/api/data/v9.1/>
- C. <https://dev.crm.dynamics.com/api/discovery/v9.1/instances>
- D. <https://disco.crm.dynamics.com/api/discovery/v9.1/>
- E. [https://dev.crm.dynamics.com/api/discovery/v9.1/instances\(UniqueName='myorg'\)](https://dev.crm.dynamics.com/api/discovery/v9.1/instances(UniqueName='myorg'))

Correct Answer: C, E

Section:

Explanation:

Organization information is stored in the Instance entity of the Discovery service. To see the kind of information contained in that entity, send an HTTP GET request to the service for one of your instances.

GET [https://dev.{servername}/api/discovery/v9.0/Instances\(UniqueName='myorg'\)](https://dev.{servername}/api/discovery/v9.0/Instances(UniqueName='myorg'))

Example: Get the details of a specific instance. If you leave out the GUID, all instances that the authenticated user has access to are returned. GET [https://dev.{servername}/api/discovery/v9.0/Instances\(<guid>\)](https://dev.{servername}/api/discovery/v9.0/Instances(<guid>)

Reference:

<https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/developer/webapi/discover-url-organization-web-api>

QUESTION 6

You are a Dynamics 365 developer working on a model-driven app.

You add a button to an entity form and to the view for the entity that calls a JavaScript function. When you click the button, it results in an error.

You determine that the JavaScript function is calling another JavaScript function in a different web resource.

You need to resolve the error.

What should you do?

- A. In the JavaScript web resource, add the missing web resource as a dependency.
- B. Add `&ribbondebug=true` to the app URL and run the Command Checker tool.
- C. From the Ribbon Workbench, add the missing JavaScript web resource as a CustomRule in EnableRules.

Correct Answer: A

Section:

QUESTION 7

A multinational company requires that all phone numbers be standardized as country code + area code + phone number.

The application design team decides that a custom Power Apps component framework (PCF) control should be used to prompt users for an area code and to correctly format the phone number.

You need to get the list of valid area codes when a contact record is opened and before the user enters a new phone number.

You need to get the list of valid area codes when a contact record is opened and before the user enters a new phone number.

In which function should you call `webAPI.retrieveMultipleRecords`?

- A. `updateView`
- B. `notifyOutputChanged`
- C. `getOutputs`
- D. `init`

Correct Answer: A

Section:

Explanation:

The updateView method will be called when any value in the property bag has changed. This includes field values, data-sets, global values such as container height and width, offline status, component metadata values such as label, visible, etc.

Incorrect Answers:

notifyOutputChanged is a callback method to alert the framework that the control has new outputs ready to be retrieved asynchronously.

getOutputs is called by the framework prior to a component receiving the new data. Returns an object based on nomenclature defined in manifest, expecting objects[s] for the property marked as bound.

Reference: <https://www.inogic.com/blog/2021/01/what-is-popupservice-in-powerapps-component-framework/>

QUESTION 8

HOTSPOT

A company has a model-driven app.

A custom button on a form calls a JavaScript function that validates form data fields and creates a web basket. The JavaScript function then displays a message to the user.

Users are located in the United States, which uses ISO Code 1033, and France, which uses ISO Code 1036.

Users in France report that the message displays in English.

You need to modify the RibbonDiffXml file to ensure that messages appear in the user's language.

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

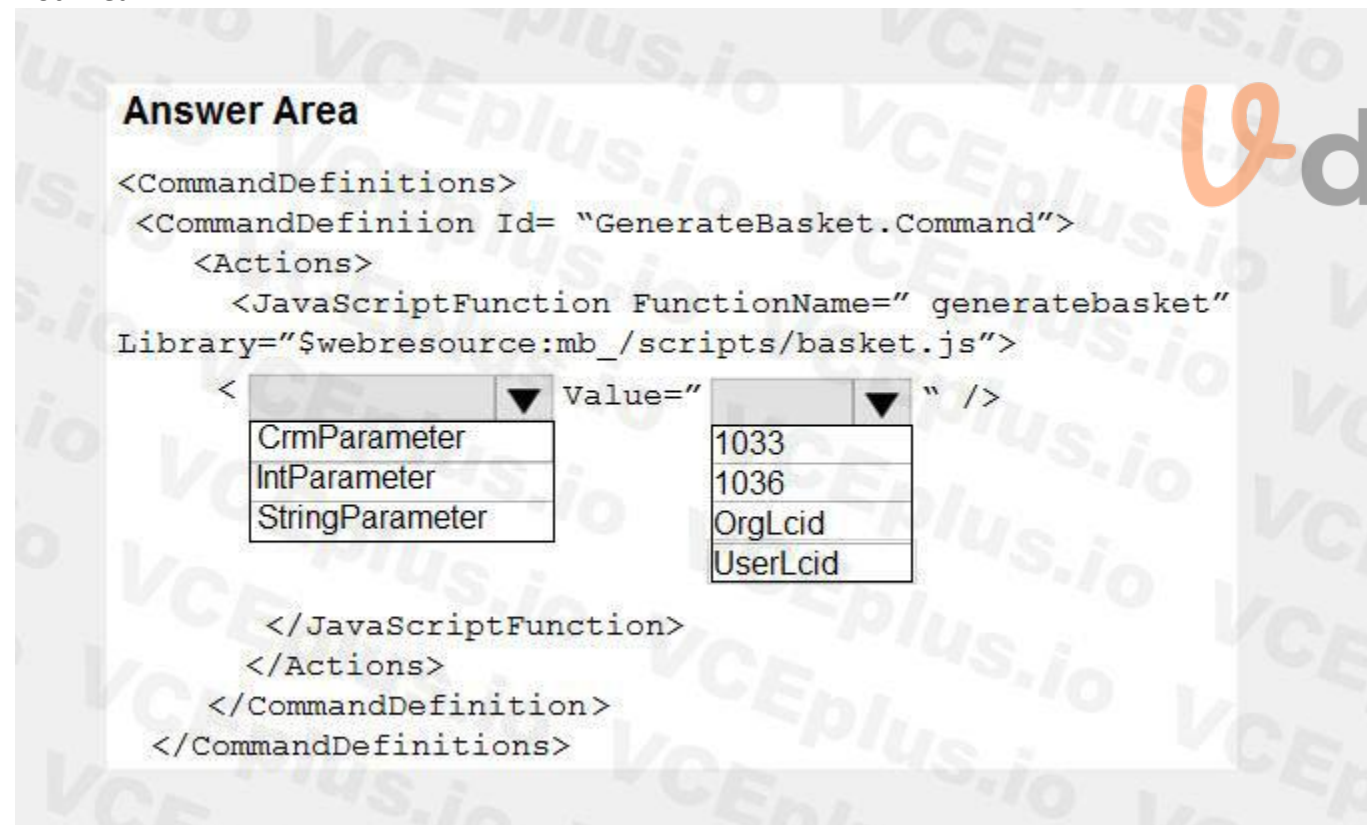
NOTE: Each correct selection is worth one point.

Hot Area:

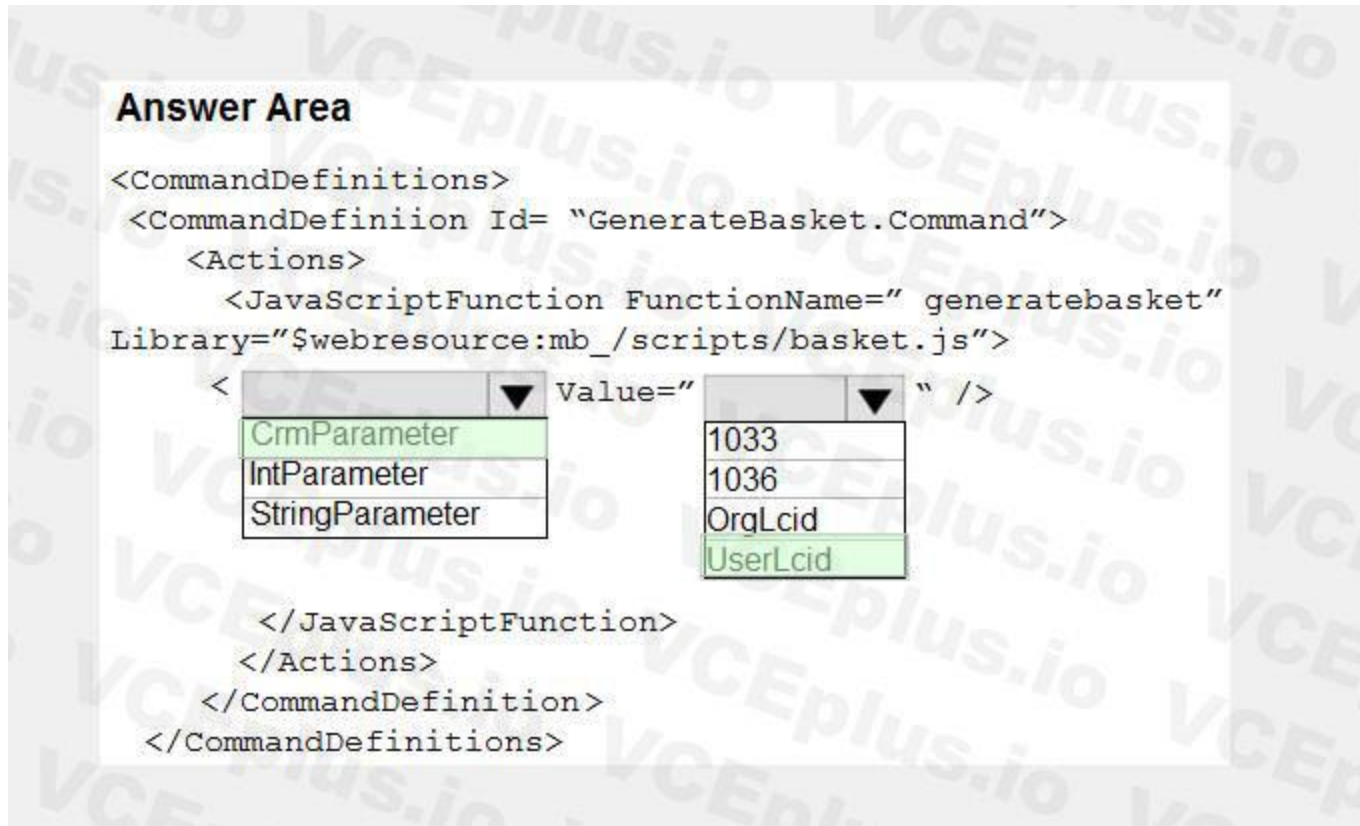
Answer Area

```
<CommandDefinitions>
  <CommandDefinition Id= "GenerateBasket.Command">
    <Actions>
      <JavaScriptFunction FunctionName=" generatebasket"
Library="$webresource:mb_/scripts/basket.js">
        <
          Value="
          </JavaScriptFunction>
      </Actions>
    </CommandDefinition>
  </CommandDefinitions>
```

CrmParameter	1033
IntParameter	1036
StringParameter	OrgLcid
	UserLcid



Answer Area:



Section:

Explanation:

Box 1: CrmParameter

In addition to data values, you can retrieve client context information by using <CrmParameter>. You can use the following options as the value for the CrmParameter element: OrgName, OrgLcid, and UserLcid.

Box 2: UserLcid

userLCID is the language code of the current user.

Note: A locale is a set of user preference information related to the user's language. The locale determines how dates, times, currencies, and numbers are formatted, how items are alphabetically sorted, and how strings are compared. The locale identifier (LCID) is a 32-bit value that uniquely defines a locale.

Reference:

<https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/developer/customize-dev/pass-dynamics-365-data-page-parameter-ribbon-actions>

QUESTION 9

HOTSPOT

A company has a model-driven app that captures applications from prospective students.

You are asked to create a new re-usable custom component using the Power Apps component framework (PCF).

The custom component must allow entry of a date of birth and validate that the applicant is not a minor.

You create the class AuditDatePicker in the TypeScript file Index.ts and the style sheet DatePicker.css.

You need to define the component to be available only for relevant fields and its properties when used in a form.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
<?xml version= "1.0" encoding= "utf-8"?>
<manifest>
  <control namespace= "delegate" constructor=
    version= "1.0.0" display-name-key= "Date Picker" description-key= "Date of Birth
    Date Picker that validates if a minor" control-type= "standard">
    <property name= "value" display-name-key= "Value" description-key= "Value" of-
    type=
      usage=
    required= "true" />
    <resources>
      <code path= "Index.ts" order= "1"/>
      <css path= "css/DatePicker.css" order= "1" />
    </resources>
  </control>
</manifest>
```

Index.ts
DatePicker.css
AuditDatePicker

Enum
DateandTime.DateandTime
DateandTime.DateOnly

bound
input



Answer Area:

Answer Area

```
<?xml version= "1.0" encoding= "utf-8"?>
<manifest>
  <control namespace= "delegate" constructor=
    version= "1.0.0" display-name-key= "Date Picker" description-key= "Date of Birth
    Date Picker that validates if a minor" control-type= "standard">
    <property name= "value" display-name-key= "Value" description-key= "Value" of-
    type=
      usage=
        required= "true" />
    <resources>
      <code path= "Index.ts" order= "1"/>
      <css path= "css/DatePicker.css" order= "1" />
    </resources>
    </control>
  </manifest>
```

Index.ts
DatePicker.css
AuditDatePicker

Enum
DateandTime.DateandTime
DateandTime.DateOnly

bound
input



Section:

Explanation:

Box 1: AuditDatePicker

Constructor: Constructor of the code component.

Box 2: DateandTime.DateOnly

Box 3: bound

usage: Has two properties, bound and input. Bound properties are bound only to the value of the field. Input properties are either bound to a field or allow a static value.

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/component-framework/manifest-schema-reference/manifest>

<https://docs.microsoft.com/en-us/powerapps/developer/component-framework/implementing-controls-using-typescript>

QUESTION 10

DRAG DROP

An organization has a Dynamics 365 Sales environment.

You need to create a Power Apps component.

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

Run the following `npm run build` command.

Run the `pac pcf init --namespace SampleNamespace --name ControlName --template field` command

Run the `pac solution init --publisher-name developer -publisher-prefix dev` command.

Run the `npm install` command.

Create a project folder.

Answer Area



Correct Answer:

Actions

Run the `pac solution init --publisher-name developer -publisher-prefix dev` command.

Create a project folder.

Answer Area

Run the `pac pcf init --namespace SampleNamespace --name ControlName --template field` command

Run the `npm install` command.

Run the following `npm run build` command.



Section:

Explanation:

Step 1: Run `pac pcf init` with namespace ..

This is the first command which creates basic folder structure of PCF control project.

Run the following command to create the control. The format of the control is:

`pac pcf init \backslash namespace <specify your namespace here> \backslash name <put component name here> \backslash template <component type>`

Step 2: Run the npm install command

Install Dependencies

Once 'init' sets up the basic folder, as a next step install all the PCF control dependencies using 'npm install' command.

Example:

```
C:\source\PCF\HelloWorld>npm install
npm WARN deprecated opn@6.0.0: The package has been renamed to `open`
npm WARN pcf-project@1.0.0 No repository field.
npm WARN pcf-project@1.0.0 No license field.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.9 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.9: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

added 653 packages from 497 contributors and audited 10328 packages in 19.295s
found 0 vulnerabilities
```

Now at this point, there is nothing we have actually created. However, the solution created contains sample PCF control code.

Step 3: Run the following np run build command

Build PCF Component.

Once you implement the PCF component, build the code for any syntax errors.

Syntax:

`npm run build`

```
> pcf-scripts build

[17:54:6] [build] Initializing...
[17:54:6] [build] Validating manifest...
[17:54:6] [build] Validating control...
[17:54:6] [build] Generating manifest types...
[17:54:6] [build] Compiling and bundling control...
[Webpack stats]:
Hash: 7836f673449072fa8d61
Version: webpack 4.28.4
Time: 1153ms
Built at: 10/02/2019 5:54:08 PM
   Asset      Size  Chunks             Chunk Names
bundle.js  6.34 KiB       0  [emitted]  main
Entrypoint main = bundle.js
[./HelloWorld/index.ts] 2.34 KiB {main} [built]
[17:54:8] [build] Generating build outputs...
[17:54:8] [build] Succeeded
```

Reference:

<https://rajeepentyala.com/2020/03/21/power-apps-component-framework-pcf-demystify/>

<https://carldesouza.com/creating-a-custom-component-using-the-powerapps-component-framework/>

QUESTION 11

HOTSPOT

You need to develop a set of Web API's for a company.

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

NOTE: Each correct selection is worth one point.

Hot Area:



Requirement	Operation
Implement operations that do not have side effects and may support further composition	<input type="text"/> ▼ Functions Actions Entities
Implement operations that allow side effects, such as data modification	<input type="text"/> ▼ Functions Actions Entities
Implement keyless named structure types that consist of a set of properties	<input type="text"/> ▼ Complex types Entity types Enumeration types

Answer Area:



Requirement	Operation
Implement operations that do not have side effects and may support further composition	<input type="text"/> ▼ Functions Actions Entities
Implement operations that allow side effects, such as data modification	<input type="text"/> ▼ Functions Actions Entities
Implement keyless named structure types that consist of a set of properties	<input type="text"/> ▼ Complex types Entity types Enumeration types

Section:

Explanation:

Box 1: Functions

most functions and services that are stateless and do not have side effects.

Box 2: Actions

Actions can have side effects.

Box 3: Complex types

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/webapi/use-web-api-actions>

QUESTION 12

HOTSPOT

You need to use the Dynamics 365 Sales Web API to retrieve metadata information.

How should you complete the Web API queries? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Metadata item

Web API query

Entity

GET /api/data/v9.0/EntityDefinitions(

= 'account')

Name
EntityName
LogicalName
SchemaName

Attribute

GET /api/data/v9.0/EntityDefinitions(

= 'account')/Attributes(LogicalName=telephone1)

Name
LogicalName
SchemaName
AttributeName

Relationship

GET /api/data/v9.0/RelationshipDefinitions(

= 'Account_Tasks')

Name
LogicalName
SchemaName
RelationshipName

Global Option Set GET /api/data/v9.0/GlobalOptionSetDefinitions(

= 'metric_goaltype')

Name
LogicalName
SchemaName
AttributeName

dumps

Answer Area:

Answer Area

Metadata item	Web API query				
Entity	GET /api/data/v9.0/EntityDefinitions(LogicalName='account')				
	<table border="1"> <tr><td>Name</td></tr> <tr><td>EntityName</td></tr> <tr><td>LogicalName</td></tr> <tr><td>SchemaName</td></tr> </table>	Name	EntityName	LogicalName	SchemaName
Name					
EntityName					
LogicalName					
SchemaName					
Attribute	GET /api/data/v9.0/EntityDefinitions(LogicalName='account')/Attributes(LogicalName=telephone1)				
	<table border="1"> <tr><td>Name</td></tr> <tr><td>LogicalName</td></tr> <tr><td>SchemaName</td></tr> <tr><td>AttributeName</td></tr> </table>	Name	LogicalName	SchemaName	AttributeName
Name					
LogicalName					
SchemaName					
AttributeName					
Relationship	GET /api/data/v9.0/RelationshipDefinitions(LogicalName='Account_Tasks')				
	<table border="1"> <tr><td>Name</td></tr> <tr><td>LogicalName</td></tr> <tr><td>SchemaName</td></tr> <tr><td>RelationshipName</td></tr> </table>	Name	LogicalName	SchemaName	RelationshipName
Name					
LogicalName					
SchemaName					
RelationshipName					
Global Option Set	GET /api/data/v9.0/GlobalOptionSetDefinitions(LogicalName='metric_goaltype')				
	<table border="1"> <tr><td>Name</td></tr> <tr><td>LogicalName</td></tr> <tr><td>SchemaName</td></tr> <tr><td>AttributeName</td></tr> </table>	Name	LogicalName	SchemaName	AttributeName
Name					
LogicalName					
SchemaName					
AttributeName					

Vdumps

Section:

Explanation:

Entity: LogicalName

Querying the EntityMetadata entity type:

GET [Organization URI]/api/data/v9.0/EntityDefinitions(LogicalName='account')

Attribute: LogicalName

Retrieving attributes:

GET [Organization URI]/api/data/v9.0/EntityDefinitions(LogicalName='account')/Attributes(LogicalName=telephone1)

Relationship: SchemaName

Querying relationship metadata:

Entity relationships can also be queried using the RelationshipDefinitions entity set. You can use a query like the following to get the SchemaName property for every relationship.

GET [Organization URI]/api/data/v9.0/RelationshipDefinitions?\$select=SchemaName

Global Option Set: Name

Querying Global OptionSets:

GET /api/data/v9.0/GlobalOptionSetDefinitions(Name='metric_goalttype')

Note: Retrieving items by name is generally easier because you probably already have some reference to the metadata item name in your code. The following table lists the alternate key properties for retrieving metadata items by name.

Metadata item	Alternate Key	Example
Entity	LogicalName	GET /api/data/v9.0/EntityDefinitions(LogicalName='account')
Attribute	LogicalName	GET /api/data/v9.0/EntityDefinitions(LogicalName='account')/Attributes(LogicalName='emailaddress1')
Relationship	SchemaName	GET /api/data/v9.0/RelationshipDefinitions(SchemaName='Account_Tasks')
Global Option Set	Name	GET /api/data/v9.0/GlobalOptionSetDefinitions(Name='metric_goalttype')

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/data-platform/webapi/query-metadata-web-api>



QUESTION 13

HOTSPOT

A model-driven app has the following JavaScript code. The code is attached to the OnChange event of the Phone (telephone1) field on the Account entity.


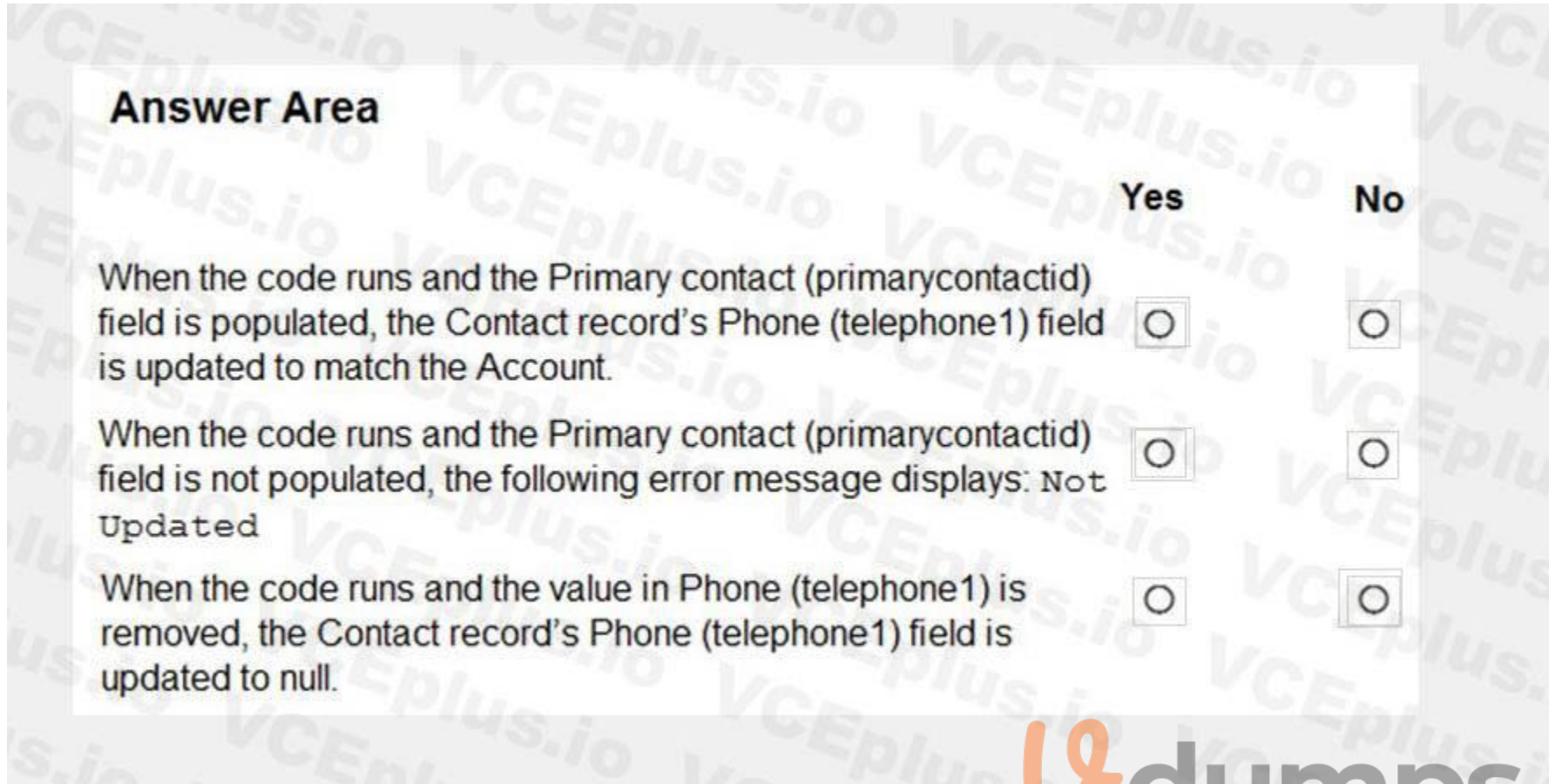
```
var telephone = formContext.getAttribute("telephone1").getValue();
if (!telephone) {
    return;
}
var contact = formContext.getAttribute("primarycontactid").getValue();
var data = { "telephone1": telephone }
Xrm.WebApi.updateRecord("contact", contact[0].id, data).then(
    function () {
        Xrm.Navigation.openAlertDialog("Updated");
    },
    function () {
        var errorOptions = { "message": "Not Updated" };
        Xrm.Navigation.openAlertDialog(errorOptions);
    }
)
```

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
When the code runs and the Primary contact (primarycontactid) field is populated, the Contact record's Phone (telephone1) field is updated to match the Account.	<input type="radio"/>	<input type="radio"/>
When the code runs and the Primary contact (primarycontactid) field is not populated, the following error message displays: Not Updated	<input type="radio"/>	<input type="radio"/>
When the code runs and the value in Phone (telephone1) is removed, the Contact record's Phone (telephone1) field is updated to null.	<input type="radio"/>	<input type="radio"/>



Answer Area:

Answer Area

	Yes	No
When the code runs and the Primary contact (primarycontactid) field is populated, the Contact record's Phone (telephone1) field is updated to match the Account.	<input checked="" type="radio"/>	<input type="radio"/>
When the code runs and the Primary contact (primarycontactid) field is not populated, the following error message displays: Not Updated	<input checked="" type="radio"/>	<input type="radio"/>
When the code runs and the value in Phone (telephone1) is removed, the Contact record's Phone (telephone1) field is updated to null.	<input type="radio"/>	<input checked="" type="radio"/>

Section:

Explanation:

Box 1: Yes

Xrm.WebApi.updateRecord updates a table record.

Syntax:

```
Xrm.WebApi.updateRecord(entityLogicalName, id, data).then(successCallback, errorCallback);
```

Box 2: Yes

Box 3: No

No action would be taken.

Reference:

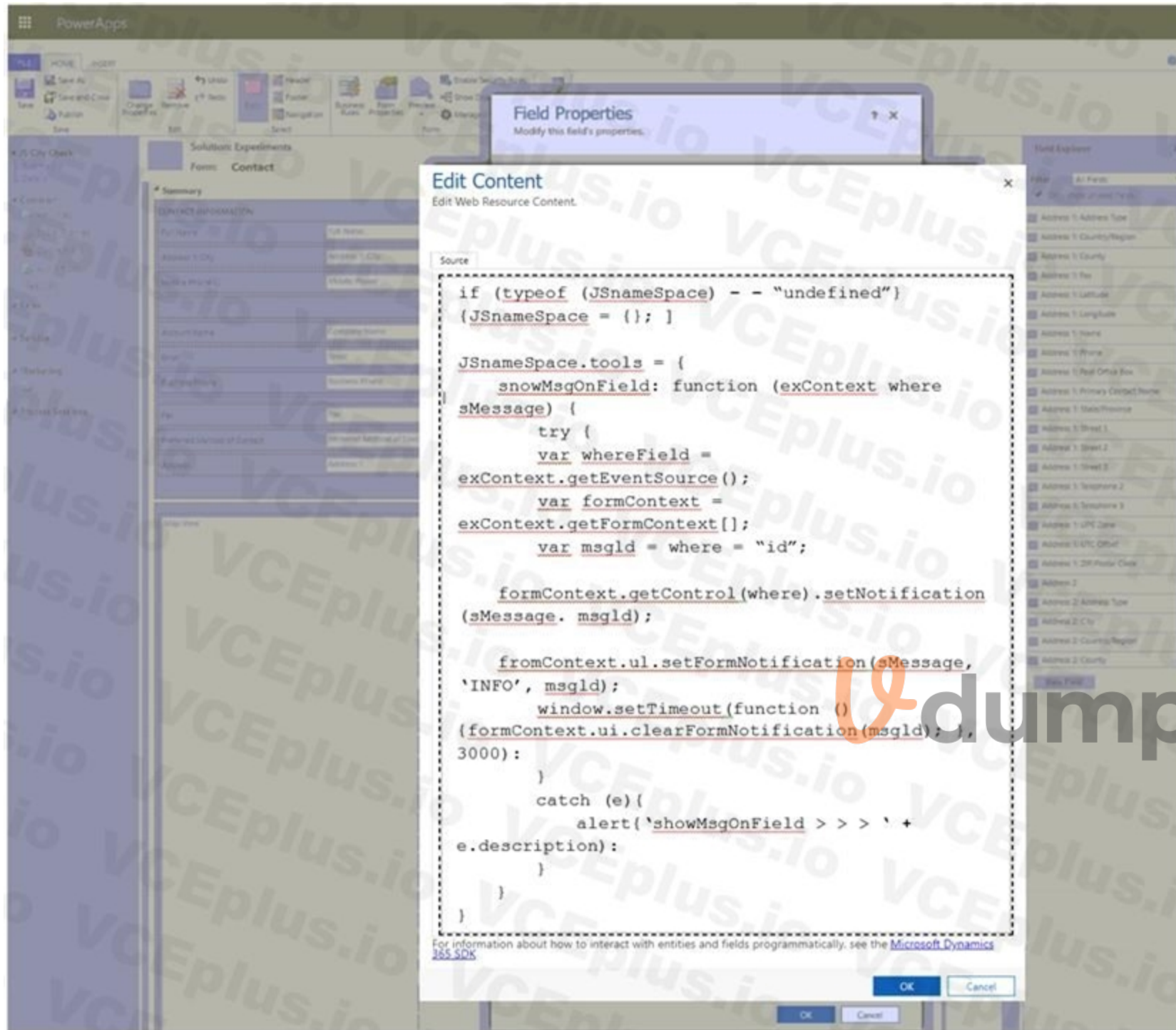
<https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/reference/xrm-webapi/updaterecord>

QUESTION 14

HOTSPOT

A JavaScript function on a Contact form alerts users to what they need to type, as shown in the JavaScript Code exhibit. (Click the JavaScript Code tab.)





The Business Phone field has the OnChange event handler defined as shown in the Event Handler exhibit. (Click the Event Handler tab.)



Users report that there is incorrect wording on the Contact page, as shown in the Contact exhibit. (Click the Contact tab.)



Power Apps Humans Fresh > Contacts > Jim Glynn(sample)

+ New Deactivate Connect Assign Email a Link Delete

Contact: JS City Check
 Jim Glynn (sample) Owner
 Adriana Nedgm

Summary Details Related

CONTACT INFORMATION

First Name	* Jim
Last Name	* Glynn(sample)
Address 1:City	Boston
Mobile Phone	***
Account Name	Coho Winery (sample)
Email	someone_j@example.com
Business Phone	555-0109623
Fax	***
Preferred Method of Contact	Any
Address 1: Street 1	7165 Brock Lane

Active |



You need to determine what happens when a user modifies the business phone of a contact record. 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:

Statement	Yes	No
The message "telephone1" shows in the Business Phone notification area.	<input type="radio"/>	<input type="radio"/>
The message "mobilephone" shows in the Business Phone notification area.	<input type="radio"/>	<input type="radio"/>
The message "telephone1" shows in the form notification area.	<input type="radio"/>	<input type="radio"/>
The message "mobilephone" show in the form notification area.	<input type="radio"/>	<input type="radio"/>

Answer Area:

Statement	Yes	No
The message "telephone1" shows in the Business Phone notification area.	<input checked="" type="radio"/>	<input type="radio"/>
The message "mobilephone" shows in the Business Phone notification area.	<input type="radio"/>	<input checked="" type="radio"/>
The message "telephone1" shows in the form notification area.	<input checked="" type="radio"/>	<input type="radio"/>
The message "mobilephone" show in the form notification area.	<input type="radio"/>	<input checked="" type="radio"/>

Section:

Explanation:



Box 1: Yes

setNotification displays an error message for the control to indicate that data isn't valid. When this method is used, a red "X" icon appears next to the control. On Dynamics 365 mobile clients, tapping on the icon will display the message.

Syntax: formContext.getControl(arg).setNotification(message,uniqueId);

Box 2: No

Box 3: Yes

setFormNotification displays form level notifications. You can display any number of notifications and they will be displayed until they are removed using clearFormNotification.

Syntax: formContext.ui.setFormNotification(message, level, uniqueId);

Box 4: No

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/reference/formcontext-ui/setformnotification>

<https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/reference/controls/setnotification>

QUESTION 15

HOTSPOT

You are examining code written by another developer that is not functioning correctly. There are no other JavaScript or business rules in use on the form.

This code is properly registered to the OnChange event of the telephone1 field on an account entity form. The main operation is to update the primary contact's phone number when the account phone number changes. The primary contact field is a lookup. (Line numbers are included for reference only.)

```
01 function UpdatePrimaryContact(executionContext) {
02   var formContext = executionContext.getFormContext();
03   var formType = formContext.ui.getFormType();
04   if (formType !== 2) {
05     return;
06   }
07   var data =
08   {
09     "telephone1": formContext.getAttribute("telephone1").getValue()
10   }
11   var primaryContact = formContext.getAttribute("primarycontactid").getValue();
12   Xrm.WebApi.updateRecord("contact", primaryContact[0].id, data).then(
13     function success() {
14       ...
15       Xrm.Navigation.openAlertDialog({ text: "Updated" });
16     },
17     function fail() {
18       Xrm.Navigation.openErrorDialog({ message: "Error" });
19     }
20   );
21   Xrm.Navigation.openAlertDialog({ text: "Done" });
22 }
```

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
Updating the primary contact record will only happen when the form is in update mode.	<input type="radio"/>	<input type="radio"/>
If the primary contact field on the account does not have a value, the error dialog on line 18 is displayed.	<input type="radio"/>	<input type="radio"/>
The alert dialog on line 21 will always be shown after the update completes and the alert dialog on line 15 is shown.	<input type="radio"/>	<input type="radio"/>

Answer Area:

Answer Area

Statements	Yes	No
Updating the primary contact record will only happen when the form is in update mode.	<input checked="" type="radio"/>	<input type="radio"/>
If the primary contact field on the account does not have a value, the error dialog on line 18 is displayed.	<input checked="" type="radio"/>	<input type="radio"/>
The alert dialog on line 21 will always be shown after the update completes and the alert dialog on line 15 is shown.	<input type="radio"/>	<input checked="" type="radio"/>

Section:

Explanation:

Box 1: Yes getFormTyp gets the form type for the record.

Form type 2 is Update.

Note: Syntax: formContext.ui.getFormType();

Return Value

Type: Number

Description: Form type. Returns one of the following values

RETURN VALUE

Value Form type

0 Undefined

- 1 Create
- 2 Update
- 3 Read Only
- 4 Disabled
- 6 Bulk Edit

Box 2: Yes

Xrm.WebApi.updateRecord Return Value: On success, returns a promise object containing the values specified earlier in the description of the successCallback parameter.

Note:

Syntax: Xrm.WebApi.updateRecord(entityLogicalName, id, data).then(successCallback, errorCallback);

Where errorCallback: A function to call when the operation fails. An object with the following properties will be passed:

errorCode: Number. The error code.

message: String. An error message describing the issue.

Box 3: No

It will displayed even if the update fails.

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/reference/formcontext-ui/getformtype>

<https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/reference/xrm-webapi/updaterecord>

QUESTION 16

HOTSPOT

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

```
01 function displayIconTooltip(rowData, userLCID)
02 {
03   var imgName = "";
04   var tooltip = "Relationship Health";
05   var str = JSON.parse(rowData);
06   var prevrev = str.new_previousyearannualrevenue_Value;
07   var rev = str.revenue_Value;
08   var health = parseFloat(rev) - parseFloat(prevrev);
09   if (health > 0)
10     imgName = "new_good";
11   else if (health == 0)
12     imgName = "new_warm";
13   else
14     imgName = "new_bad";
15   var resultarray = [imgName, tooltip];
16   return resultarray;
17 }
```



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

Change Column Properties

The properties of the selected column are listed below. You can change the width in pixels of the column.

Entity Name: Account
Column Title: Annual Revenue
Data Type: Currency
Name: revenue
Web Resource:
Function Name:

Select a width for this column:

25px 50px 75px 100px 125px 150px 200px 300px

OK

Cancel

 **vdumps**

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

Dynamics 365 CRM Hub CORE > Accounts

Active Accounts

Account Name	Annual ...	Address 1: Stre...	Address...	Address 1: ZIP/...	Primary Co...	Ope...
Ac Tellus Suspendisse Foundation	£10,000.00	---	---	---	---	£0.00
Adipiscing Elit Aliquam Inc.	£15,000.00	---	---	---	---	£0.00
Adventure Works (sample)	£60,000.00	4405 Balboa Court	Santa Cruz	95486	Nancy Anderson (s...	£0.00
Aliquet Limited	£8,000.00	---	---	---	---	£0.00
Aliquet Proin Ltd	£75,000.00	---	---	---	---	£0.00
Alpine Ski House (sample)	£90,000.00	2313 B Southampton...	Missoula	58047	Paul Cannon (sam...	£30,000.00
Amazon Web Services (AWS)	£5,000.00	---	---	---	---	£0.00

1 - 134 of 134 (0 selected)

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 <code>new_good</code> for Accounts that have an Annual Revenue greater than 0.	<input type="radio"/>	<input type="radio"/>
If the Previous Year Annual Revenue column is included in the Active Accounts view, an exception is raised and an error is displayed.	<input type="radio"/>	<input type="radio"/>
The userLCID can be used to gain access to users' Language settings in personal options and change the tooltip to their chosen language.	<input type="radio"/>	<input type="radio"/>

Answer 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 <code>new_good</code> for Accounts that have an Annual Revenue greater than 0.	<input type="radio"/>	<input checked="" type="radio"/>
If the Previous Year Annual Revenue column is included in the Active Accounts view, an exception is raised and an error is displayed.	<input type="radio"/>	<input checked="" type="radio"/>
The userLCID can be used to gain access to users' Language settings in personal options and change the tooltip to their chosen language.	<input checked="" type="radio"/>	<input type="radio"/>

Section:

Explanation:

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.

Reference:

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

QUESTION 17

HOTSPOT

You develop the following JavaScript code for a web resource that will be used in a model-driven app.

```
function CheckAccountRating(executionContext) {
    var formContext = executionContext.getFormContext();
    var baseUrl = Xrm.Utility.getGlobalContext();
    var id = formContext.data.entity.getId();
    var url = baseUrl + "/api/data/v9.1/accounts(" + id + ")?$select=accountratingcode"

    var req = new XMLHttpRequest();
    req.open("GET", url, false);
    req.setRequestHeader("OData-MaxVersion", "4.0");
    req.setRequestHeader("OData-Version", "4.0");
    req.setRequestHeader("Accept", "application/json");
    req.setRequestHeader("Content-Type", "application/json; charset=utf-8");
    req.onreadystatechange = function () {
        if (this.readyState === 4) {
            req.onreadystatechange = null;
            if (this.status === 200) {
                var result = JSON.parse(this.response);
                if (result["accountratingcode"] == 4) {
                    alert("Test");
                }
            }
        }
    };
    req.send();
}
```

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
The code raises the following exception: Interact with HTTP and HTTPS resources asynchronously (web-use-async).	<input type="radio"/>	<input type="radio"/>
The code raises the following exception: Use strict equality operators (web-use-strict-equality-operators).	<input type="radio"/>	<input type="radio"/>
The code raises the following exception: Avoid including debug script in non-development environments (web-remove-debug-script).	<input type="radio"/>	<input type="radio"/>

Answer Area:

Answer Area

	Yes	No
The code raises the following exception: Interact with HTTP and HTTPS resources asynchronously (web-use-async).	<input checked="" type="radio"/>	<input type="radio"/>
The code raises the following exception: Use strict equality operators (web-use-strict-equality-operators).	<input type="radio"/>	<input checked="" type="radio"/>
The code raises the following exception: Avoid including debug script in non-development environments (web-remove-debug-script).	<input type="radio"/>	<input checked="" type="radio"/>

Section:

Explanation:

Box 1: Yes
 Problem patterns: Web-use-async
 There are multiple ways to interact with the server or request resources. Common approaches that allow for synchronous communications include the following (These scenarios should be avoided.):

Usage of the XMLHttpRequest object passing in false for the value of the async parameter for the open function call

```
var requestXhr = new XMLHttpRequest();
// Explicitly setting the async parameter to false or supplying a variable with a value of false will force this as a synchronous call.
requestXhr.open('GET', '/test/test.txt', false);
```

Box 2: No
 === - Strict Equality Comparison is already used in the code.

Box 3: No
 No debugger statement in the code, so web-remove-debug-script (avoid including debug script in non-development environments) does not apply.

Reference:
<https://docs.microsoft.com/sr-cyrl-rs/powerapps/developer/model-driven-apps/best-practices/business-logic/interact-http-https-resources-asynchronously>
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Operators/Strict_equality

01 - Extend the platform

Case study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

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At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs.

When you are ready to answer a question, click the Question button to return to the question.

Background

Bellows Sports is the region's newest, largest, and most complete sports complex. The company features baseball and soccer fields and two full-size hockey rinks. The complex provides coaching, recreational leagues, a pro shop, and state-of-the-art customer and player amenities.

The company is organized into the following divisions:

Baseball

Hockey

Soccer

Bellow Sports runs tournaments several times per year. Each tournament runs six weeks.

Current environment

Requirements

Bellow Sports tracks players and events in Microsoft Excel workbooks and uses email to communicate with players, partners, and prospective customers. The company uses a proprietary cloud-based accounting system.

The company relies on referrals from athletes for new business. Bellows uses a third-party marketing company to gather feedback and referrals from athletes. The third-party marketing company uploads a Microsoft Excel file containing lists of potential customers and players to the FTP site that Bellows Sports maintains.

Tournaments

Customer information is stored in the Accounts entity. Each tournament record must list the associated sales representative as the tournament owner. When team members create tournament records they must enter the start date for a tournament. The end date of the tournament must be automatically calculated.

Registration form

You must create a form to allow players to register for tournaments. The registration form must meet the following requirements:

Division	Requirement
Baseball	Capture the age and weight of the player. The height field must not display.
Hockey	Capture the age, height, and weight of the player.
Soccer	Capture the age of the player. The height and weight fields must not display.

Each division has tournaments that take place in specific locations. Users must be able to select the division for a tournament location.

Information about upcoming tournaments must be pre-located into the registration form when the registration form loads.

The form must include a custom button that sends an email confirmation to the player after the player registers.

The button must not be visible until after the form is saved.

Security

The company identifies the following job roles:

Role	Tasks
Sales representative	These users will enter data into Dynamics 365 Customer Service.
Intern	These users will create Power Apps apps, and connectors, and create Power Automate flows.
Manager	These users will add users, assign security roles, and manage data storage.

You must grant users the minimum permissions required to perform their job tasks.

Data automation

Customer name must be added to Dynamics 365 Finance automatically after it is entered.

You must produce a report that details the number of registrations for a day and send the report as a PDF to the management team.

You must implement mechanisms to handle all code-related errors.

When a customer record is updated, the system must look up the account number for the customer in the accounting system. Referrals must be imported into the system as soon as they are available.

Issues

Apps

The captions for the New and Save buttons do not render properly on the form.

Interns can create apps but cannot interact with their own data.

Portal

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
```

Solution checker issues

You run solution checker and observe Plug-in or workflow activity errors in the following code sets:

Set	Code	Error message
Code set 1	CS101 var columns = new ColumnSet(); CS102 columns.AllColumns = true; CS103 var query = new QueryExpression("account"); CS104 query.ColumnSet = columns; CS105 var results = service.RetrieveMultiple(query);	il-specify-column
Code Set 2	CS201 WebRequest request = WebRequest.Create ("https://www.bellows.com/api/stuff"); CS202 HttpResponseMessage response = new HttpResponseMessage(); CS203 CS204 response = request.GetResponse(); CS205 response.Close();	il-turn-off-keepalive

Code

The following code runs when the registration form loads. You must implement a mechanism to handle errors that occur in the code:

UpdateRecord.js (Line numbers are included for reference only.)

```
UR01  
UR02 var data =  
UR03 {  
UR04   "name" : "Updated Account"  
      "credithold" : true,  
      "description" : "This is an account update",  
      "revenue" : 10,000,  
      "Division" : 2  
UR05 }  
UR06
```

QUESTION 1

HOTSPOT

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:

Answer Area

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

Answer Area:

Answer Area



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

Section:

Explanation:

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.

02 - Extend the platform

Case study

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When you are ready to answer a question, click the Question button to return to the question.

Background

Current environment

Adventure Works Cycles wants to replace their paper-based bicycle manufacturing business with an efficient paperless solution. The company has one manufacturing plant in Seattle that produces bicycle parts, assembles bicycles, and distributes finished bicycles to the Pacific Northwest.

Adventure Works Cycles has a retail location that performs bicycle repair and warranty repair work. The company has six maintenance vans that repair bicycles at various events and residences.

Adventure Works Cycles recently deployed Dynamics 365 Finance and Dynamics 365 Manufacturing in a Microsoft-hosted environment for financials and manufacturing. The company plans to leverage the Microsoft Power Platform to migrate all of their distribution and retail workloads to Dynamics 365 Unified Operations.

The customer uses Dynamics 365 Sales, Dynamics 365 Customer Service and Dynamics 365 Field Service.

Retail store information

Adventure Works Cycle has one legal entity, four warehouses, and six field service technicians.

Warehouse counting is performed manually by using a counting journal. All warehouse boxes and items are barcoded.

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.

Adventure Works Cycles uses a Power Apps app for local bike fairs to attract new customers.

A canvas app is being developed to capture customer information when customers check in at the retail location. The app has the following features:

- Customer selects yes or no if they are on the mailing list.
- Customer selects the amount of times they have visited the store.
- Customer selects the type of service needed.
- The search result returns all last name records that match the search term.

Technology

Requirements

A plug-in for Dynamics 365 Sales automatically calculated the total billed time from all activities on a particular customer account, including sales representative visits, phone calls, email correspondence, and repair time compared with hours spent.

A shipping API displays shipping rates and tracking information on sales orders. The contract allows for 3,000 calls per month.

Ecommerce orders are processed in batch daily by using a manual import of sales orders in Dynamics 365 Finance.

Microsoft Teams is used for all collaboration.

All testing and problem diagnostics are performed in a copy of the production environment.

Customer satisfaction surveys are recorded with Microsoft Forms Pro. Survey replies from customers are sent to a generic mailbox.

Automation

A text message must be automatically sent to a customer to confirm an appointment and to notify when a technician is on route that includes their location.

Ecommerce sales orders must be integrated into Dynamics 365 Finance and then exported to Azure every night.

A text alert must be sent to employees scheduled to assist in the repair area of the retail store if the number of repair check-ins exceeds eight.

Submitted customer surveys must generate an email to the correct department. Approval and follow-up must occur within a week.

Reporting

The warehouse manager's dashboard must contain warehouse counting variance information.

A warehouse manager needs to quickly view warehouse KPIs by using a mobile device.

Power BI must be used for reporting across the organization.

User experience

Warehouse counting must be performed by using a mobile app that scans barcodes on boxes.

All customer repairs must be tracked in the system no matter where they occur.

Qualified leads must be collected from local bike fairs.

Issues

Warehouse counting must be performed by using a mobile app that scans barcodes on boxes.

All customer repairs must be tracked in the system no matter where they occur.

Qualified leads must be collected from local bike fairs.

Internal

User1 reports receives an intermittent plug-in error when viewing the total bill customer time.

User2 reports that Azure consumption for API calls has increased significantly to 100 calls per minute in the last month.

User2 reports that sales orders have increased.

User5 receives the error message: 'Endpoint unavailable' during a test of the technician dispatch ISV solution.

The parts department manager who is the approver for the department is currently on sabbatical.

External

CustomerB reports that the check-in app returned only one search result for their last name, which is not the correct name.

Nine customers arrive in the repair area of the retail store, but no texts were sent to scheduled employees.

Customers report that the response time from the information email listed on the Adventure Works Cycles website is greater than five days.

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

QUESTION 1

You need to ensure that Adventure Works Cycles can track information from visitors to bike fairs.

What should you create?

- A. a Power Automate flow that connects with the bike fair Power Apps app to create a lead in Dynamics 365 Sales
- B. a Power Automate flow that generates a new customer record in SharePoint.
- C. a Power Automate flow to capture customer data from the bike fair Power Apps app in SharePoint and create a lead in Microsoft Teams.
- D. a business process flow in Dynamics 365 Sales for capturing leads.

Correct Answer: A

Section:

Explanation:

Scenario:

Qualified leads must be collected from local bike fairs.

Adventure Works Cycles uses a Power Apps app for local bike fairs to attract new customers.

By using a Dynamics 365 connector, you can create flows that initiate when an event occurs in Dynamics 365, or some other service, which then performs an action in Dynamics 365, or some other service.

In Power Automate, you can set up automated workflows between your favorite apps and services to synchronize files, get notifications, collect data, and more.

Reference: <https://docs.microsoft.com/en-us/power-automate/connection-dynamics365>

QUESTION 2

You need to reduce the number of Azure consumption API calls for User2.

Which markup segment should you use?

A.


```
<policies>
  <inbound>
    <base />
    <rate-limit-by-key calls="100"
      renewal-period= "30"
      increment-condition= "@(context.Response.StatusCode == 200)"
      counter-key= "@(context.Request.IpAddress)"/>
    </inbound>
  <outbound>
    <base />
  </outbound>
</policies>
```

B.

```
<policies>
  <inbound>
    <base />
    <rate-limit calls="1000" renewal-period= "90" />
  </inbound>
  <outbound>
    <base />
  </outbound>
</policies>
```

C.

```
<policies>
  <inbound>
    <base />
    <rate-limit-by-key calls="1"
      renewal-period= "60"
      increment-condition= "@(context.Response.StatusCode == 200)"
      counter-key="@ (context.Request.IpAddress)"/>
    </inbound>
  <outbound>
    <base />
  </outbound>
</policies>
```

D.

```
<policies>
  <inbound>
    <base />
    <quota calls="100" bandwidth="400" renewal-period="30" />
  </inbound>
  <outbound>
    <base />
  </outbound>
</policies>
```

Correct Answer: C



Section:**Explanation:**

Scenario: User2 reports that Azure consumption for API calls has increased significantly to 100 calls per minute in the last month.

Example:

In the following example, the rate limit of 10 calls per 60 seconds is keyed by the caller IP address. After each policy execution, the remaining calls allowed in the time period are stored in the variable remainingCallsPerIP.

```
<policies>
<inbound>
<base />
<rate-limit-by-key calls="10" renewal-period="60"
increment-condition="@context.Response.StatusCode == 200" counter-key="@context.Request.IpAddress"
remaining-calls-variable-name="remainingCallsPerIP"/>
</inbound>
<outbound>
<base />
</outbound>
</policies>
```

Note: The rate-limit-by-key policy prevents API usage spikes on a per key basis by limiting the call rate to a specified number per a specified time period. The key can have an arbitrary string value and is typically provided using a policy expression. Optional increment condition can be added to specify which requests should be counted towards the limit. When this call rate is exceeded, the caller receives a 429 Too Many Requests response status code.

Incorrect Answers:

A: With renewal-period="30" 200 calls/minute would be allowed. B: This would increase the calls/minute limit to 1000.

Reference: <https://docs.microsoft.com/en-us/azure/api-management/api-management-access-restriction-policies>

Exam M**QUESTION 1****HOTSPOT**

You are developing an app for a sales team to record contact details in their Common Data Service database.

The app must handle loss of network and save the data to Common Data Service when reconnected.

The main screen of the app has a form to collect contact data and a button. The OnSelect property for the button has the following expression:



```
1. If(  
2. Connection.Connected,  
3. Patch(  
4. Contacts,  
5. Defaults(Contacts),  
6. {  
7. 'First Name': DataCardValue_FirstName.Text, 'Last Name': DataCardValue_LastName.Text  
8. }  
9. );  
10. Navigate(ConfirmationScreen,ScreenTransition.Fade)  
11. ,  
12. ClearCollect(  
13. LocalRecord,  
14. {  
15. 'First Name': DataCardValue_FirstName.Text, 'Last Name': DataCardValue_LastName.Text  
16. }  
17. );  
18. SaveData(LocalRecord, "LocalRecord");  
19. Navigate(PendingScreen,ScreenTransition.Fade)  
20. )
```

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
The expression saves the data to CDS when reconnecting after losing network connection.	<input type="radio"/>	<input type="radio"/>
The collection contains all contacts not saved to CDS.	<input type="radio"/>	<input type="radio"/>
The expression updates existing contacts in CDS.	<input type="radio"/>	<input type="radio"/>
The expression handles loss of connection to CDS.	<input type="radio"/>	<input type="radio"/>

Answer Area:



Answer Area

Statements	Yes	No
The expression saves the data to CDS when reconnecting after losing network connection.	<input checked="" type="radio"/>	<input type="radio"/>
The collection contains all contacts not saved to CDS.	<input type="radio"/>	<input checked="" type="radio"/>
The expression updates existing contacts in CDS.	<input type="radio"/>	<input checked="" type="radio"/>
The expression handles loss of connection to CDS.	<input checked="" type="radio"/>	<input type="radio"/>



Section:

Explanation:

Box 1: Yes LoadData and SaveData combine to form a simple mechanism to store small amounts of data on a local device. By using these functions, you can add simple offline capabilities to your app.

Box 2: No

Box 3: No

Box 4: Yes

References:

<https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/offline-apps>

QUESTION 2

You deploy a Power Platform plug-in to a production environment. The plug-in code contains detailed tracing information.

You are a member of the Environment Maker security role for the environment.

Users report unexpected results when they interact with confidential data by using the plug-in. You confirm that the plug-in works without errors in a development environment.

You need to investigate the root cause of the plug-in errors.

What should you do?

- A. Send a PUT request to enable plug-in tracing for the production environment.
- B. Send a GET request to retrieve the plugintracelogs records.
- C. Install Plug-in profiler in the production environment by using the Plug-in Registration tool.
- D. Reproduce and capture the errors, then debug from Visual Studio.

Correct Answer: C

Section:

Explanation:

Plug-in profiler is a solution that you can install on your environment that enables you to capture the execution context of a plug-in and then use that data to re-play the event within Visual Studio while debugging. There are two tools available from which to run the Plug-in Profiler: the Plug-in Registration Tool and Power Platform Tools for Visual Studio.

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/data-platform/tutorial-debug-plug-in>

QUESTION 3

DRAG DROP

You are creating a model-driven app.

Users need to see only the entities in the app navigation that are relevant to their role and their method of accessing the app.

You need to restrict entities on the sub-areas in the SiteMap.

Which properties should you use? To answer, drag the appropriate properties to the correct requirements. Each property 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:

Answer Area

Properties	Requirement	Property
Client	Ensure that the entity is visible only if the user can create records.	
Offline Availability	Ensure that the entity is not visible if the user is using an on-premises deployment.	
Privileges	Ensure that the entity is visible only if the user is accessing the app with a web browser.	
SKUs		



Correct Answer:

Answer Area

Properties	Requirement	Property
	Ensure that the entity is visible only if the user can create records.	Privileges
Offline Availability	Ensure that the entity is not visible if the user is using an on-premises deployment.	SKUs
	Ensure that the entity is visible only if the user is accessing the app with a web browser.	Client

Section:

Explanation:

Privileges: This defines whether a subarea is displayed based on privileges available in any security roles that are assigned to the user.

Box 2: SKU

SKUs: Select the versions of Dynamics 365 that display this subarea.

Incorrect Answers:

Offline Availability: Select this check box to make this subarea available to users when they are offline in Dynamics 365 for Outlook.

Reference: <https://docs.microsoft.com/en-us/powerapps/maker/model-driven-apps/create-site-map-app>

QUESTION 4

HOTSPOT

You are training a group of makers to use Power Automate.

You have the following expressions:

Name	Expression
1	<code>outputs('Get_Item').statusCode</code>
2	<code>"from": "@result('MyScope)'"</code>

You need to identify what each expression is doing.

What does each expression do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Expression	Action
1	<ul style="list-style-type: none">Return the statuscode at runtime.Return the output to the statuscode at runtime.Return the Get_Item at runtime.
2	<ul style="list-style-type: none">Return MyScope as all the action items.Return all the variables from all actions from MyScope.Return all the results from all actions from MyScope.

Answer Area:

Expression	Action
1	<ul style="list-style-type: none"> Return the statuscode at runtime. Return the output to the statuscode at runtime. Return the Get_Item at runtime.
2	<ul style="list-style-type: none"> Return MyScope as all the action items. Return all the variables from all actions from MyScope. Return all the results from all actions from MyScope.

Section:

Explanation:

Box 1: Return the statuscode at runtime.

You could try the following method to get the status code.

Configure Compose action under the specified action to get the status code. `outputs('ActionName')['statusCode']`

Box 2: Return all the results from all actions from MyScope

The `@result()` expression accepts the name of a Scope as a parameter and returns a JSON array of objects that represent the results of the execution of each action within the Scope.

Reference:

<https://powerusers.microsoft.com/t5/Building-Flows/How-to-determine-status-code-for-a-condition/td-p/355653>

<https://blogs.msmvps.com/windsor/2019/04/25/microsoft-flow-error-handling/>

QUESTION 5

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.

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 an event handler for the data parameter.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Section:

Explanation:

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 6

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: 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

Section:

Explanation:

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

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>

QUESTION 7

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

Section:

Explanation:

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 8

DRAG DROP

You are developing a new Power Apps Component Framework (PCF) control.

The control must be deployed to a development environment by using the Power Apps CLI and a new solution.

You need to deploy the PCF control.

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

Select and Place:

The screenshot shows a drag-and-drop interface for a question. On the left, under the heading "Actions", there are four items in a list box: "Add a solution reference to the project.", "Build the project and solution.", "Create a solution.", and "Deploy the solution.". On the right, under the heading "Answer area", there is a large watermark "Vdumps" and four arrow icons (left, right, up, down) for reordering the items.

Correct Answer:

Actions	Answer area
<input type="text"/>	Create a solution.
<input type="text"/>	Add a solution reference to the project.
<input type="text"/>	Build the project and solution.
<input type="text"/>	Deploy the solution.

Section:

Explanation:

Step 1: Create a solution

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: Add a solution reference to the project

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: Build the project and solution

To generate a zip file from the solution project, go into your solution project directory and build the project using the following command. `msbuild /t:build /restore` Step 4: Deploy the solution

Reference:

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

QUESTION 9

DRAG DROP

You create solutions in a development environment and export the solution for testing by various departments in your organization. Power users in each department control the testing environments.

You must display department-specific wording at the beginning of any custom notifications that are displayed in testing environments.

You need to package solutions to ensure that the power users can customize the notification content.

Which three actions should you perform in sequence inside a solution? 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	Answer area
Create an empty environment variable named Custom Text Placeholder .	
Create a configuration page in the classic solution by using a text field named Custom Text Placeholder that uses the HTML file format.	
Set the default value of the text field Custom Text Placeholder to Enter custom text .	
Create a function to retrieve the value from the custom text placeholder and display the notification.	
Export the solution.	
Create a solution component configuration named Custom Text Placeholder that uses the JSON file format.	

Correct Answer:

Actions	Answer area
	Create an empty environment variable named Custom Text Placeholder .
Create a configuration page in the classic solution by using a text field named Custom Text Placeholder that uses the HTML file format.	Create a function to retrieve the value from the custom text placeholder and display the notification.
Set the default value of the text field Custom Text Placeholder to Enter custom text .	Export the solution.
Create a solution component configuration named Custom Text Placeholder that uses the JSON file format.	

Section:**Explanation:**

Step 1: Create an empty environment variable named Custom Text Placeholder.

Applications often require different configuration settings or input parameters when deployed to different environments.

Environment variables store the parameter keys and values, which then serve as input to various other application objects.

Separating the parameters from the consuming objects allows you to change the values within the same environment or when you migrate solutions to other environments.

Step 2: Create a function to retrieve the value from the custom text placeholder and display the notification.

Step 3: Export the solution

You can manually export solutions. Microsoft recommends that you create an unmanaged solution to use for exporting your customizations, and then export your customizations periodically so that you have a backup in case anything happens.

Reference: <https://docs.microsoft.com/en-us/powerapps/maker/data-platform/environmentvariables>

<https://docs.microsoft.com/en-us/powerapps/maker/data-platform/export-solutions>

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.

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

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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 web resource that sets `formContext.data.attributes`.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Section:**Explanation:**

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 11

The communication department for a company plans to add a publicly accessible survey page to the company's public website.

You must add the new survey page to the company's public website and capture data from the page to a Common Data Service environment.

Explicit user credentials must not be required to write survey data to Common Data Service.

You need to implement authentication.

Which authentication mechanism should you implement?

A. Microsoft 365

B. X.509 certificate



- C. OAuth 2.0
- D. Claims-based

Correct Answer: C

Section:

Explanation:

OAuth is the preferred means to authenticate because it provides access to both the OData RESTful web services (Web API and OData global Discovery service) as well as to the SOAP web services (Organization service and Discovery service).

OAuth is also required to support:

Azure Active Directory configurations for conditional access, such as Two-factor Authentication (2FA) Use of client secrets to enable server-to-server authentication scenarios.

Cross-Origin Resource Sharing (CORS) to connect a Single-page Application (SPA)

Incorrect Answers:

A: Using Microsoft 365 authentication does not require that you register your applications as OAuth does. You must simply provide a User Principal Name (UPN) and password for a valid user.

Reference: <https://docs.microsoft.com/en-us/powerapps/developer/data-platform/authentication>

QUESTION 12

DRAG DROP

You are developing a Power Platform app for a school. The school plans to use the app to gather information about classes and students.

You must design a plug-in for the app. You must store data about students in the Contacts table and store data about classes in a custom table.

You need to select the stage in the event pipeline for each function.

Which stages should you use? To answer, drag the appropriate plug-in stages to the correct functions. Each plug-in 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:



Plug-in stages	Answer Area	Function	Plug-in stage
PreValidation		Cancel a class if the student is over 15 years old.	<input type="text"/>
PreOperation		Update the record being processed by the plug-in step and rollback if an error occurs.	<input type="text"/>
PostOperation		Add a student to the appropriate class.	<input type="text"/>

Correct Answer:

Plug-in stages	Answer Area	Function	Plug-in stage
<input type="text"/>		Cancel a class if the student is over 15 years old.	PreValidation
<input type="text"/>		Update the record being processed by the plug-in step and rollback if an error occurs.	PreOperation
<input type="text"/>		Add a student to the appropriate class.	PostOperation

Section:

Explanation:

Box 1: PreValidation

For the initial operation, this stage will occur before the main system operation.

This provides an opportunity to include logic to cancel the operation before the database transaction.

Box 2: 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.

Avoid cancelling an operation here. Canceling will trigger a rollback of the transaction and have significant performance impact.

Box 3: PostOperation

Occurs after the main system operation and within the database transaction.

Use this stage to modify any properties of the message before it is returned to the caller.

Reference: <https://docs.microsoft.com/en-us/powerapps/developer/data-platform/event-framework>

QUESTION 13

DRAG DROP

A company uses Dynamics 365 Sales.

Sales commission must be calculated when an order is placed. You create an Azure Function to perform the calculation. The

Azure Function has an HTTP trigger.

You need to configure the Plug-in Registration tool to send data to the Azure Function when an order is placed. You open the Plug-in Registration tool and connect to Dynamics 365 Sales.

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	Answer Area
Select Register New Web Hook.	
Select Register New Service Endpoint.	
Register a New Step for Create of SalesOrder.	
Enter a service endpoint.	
Enter the endpoint URL.	

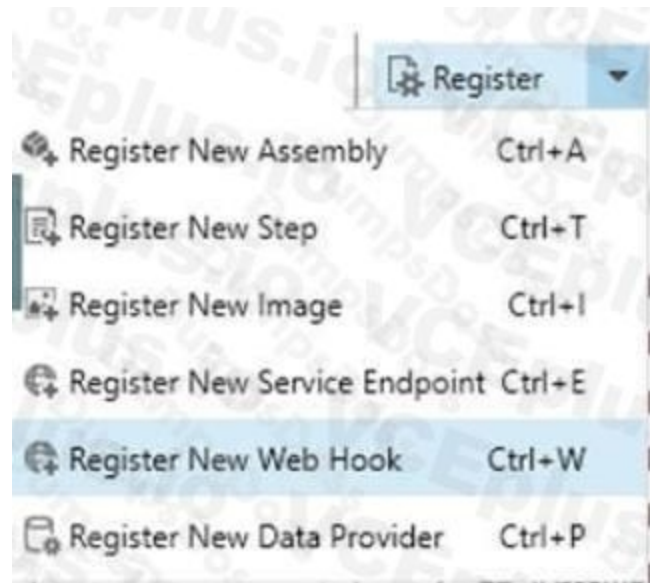
Correct Answer:

Actions	Answer Area
Select Register New Web Hook.	Select Register New Service Endpoint.
	Enter the endpoint URL.
	Register a New Step for Create of SalesOrder.
Enter a service endpoint.	

Section:

Explanation:

Step 1:SelectRegister New Web Hook.



Configure Dynamics 365 Sales to Call Your Webhook in Azure Functions 1. Open the Plug-in Registration Tool and connect to your organization. 2. Select Register->Register New Web Hook
Step 2: Enter the endpoint URL



Step 3: Register a New Step for Create of SalesOrder.

Register a new webhook, and then tie that webhook to an event in Dynamics 365 Sales. Select your newly registered webhook, right-click it, and then choose "Register New Step." Note that the webhook here is set to execute whenever a change to an account record is detected within Dynamics 365 Sales.

Reference: <https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/tutorial-write-plugin-in>

QUESTION 14

A company plans to replicate a Dynamics 365 Sales database into an Azure SQL Database instance for reporting purposes.

The Data Export Service solution has been installed.

You need to configure the Data Export service.

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

NOTE: Each correct selection is worth one point.

- A. Enable auditing for all entities that must be replicated to Azure SQL Database.
- B. Create an export profile that specifies all the entities that must be replicated.
- C. Set up server-based integration.



- D. Enable change tracking for all entities that must be replicated to Azure SQL Database.
- E. Create an Azure SQL Database service in the same tenant as the Dynamics 365 Sales environment.

Correct Answer: B, D, E

Section:

Explanation:

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

QUESTION 15

A company is migrating from an on-premises Dynamics 365 installation to a Power Platform solution. You are creating plugins for the new solution. You need to register the plug-ins. Which isolation mode should you use?

- A. None
- B. Global Assembly Cache (GAC)
- C. Sandbox
- D. Disk

Correct Answer: C

Section:

Explanation:

You will find options related to the isolation mode and location for the assembly. These refer to options that apply to on-premise deployments. Dataverse is not available for on-premises deployments, so you will always accept the default options of SandBox and Database for these options.

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/data-platform/register-plugin-in>



QUESTION 16

An organization uses a public-facing Power Apps portal. You need to change the layout of a specific web page. What are two possible ways to achieve the goal? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Select the Portal Management app and then select Edit.
- B. Select the Portal Management app and then select Play.
- C. Select the portal app and then select Manage.
- D. Select the portal app and then select Edit.

Correct Answer: A, D

Section:

Explanation:

A: The Portal Management app lets you do advanced configuration actions on your portal.

1. Open the Portal Management app.
2. Go to Portals > Web Pages.
3. To edit an existing web page, select the web page name.
4. Enter appropriate values in the fields.
5. Select Save & Close.

D: To use the WYSIWYG editor:

1. Edit the portal to open it in Power Apps portals Studio.

2. Select the page on which you want to add the component.

3. Select an editable element on the canvas.

Reference: <https://docs.microsoft.com/en-us/powerapps/maker/portals/configure/web-page> <https://docs.microsoft.com/en-us/powerapps/maker/portals/compose-page>

QUESTION 17

You are developing a model-driven app. The app uses data from two custom tables. The tables have a parent-child relationship. The parent record form contains a subgrid that displays the child records.

When creating a new child record from the parent form, data must automatically populate in the child record form to reduce data input errors.

You need to implement the solution.

What should you do?

- A. Use a Power Automate flow to read data from the parent record and update the child record upon creation.
- B. Map table columns from the parent record to the child record.
- C. Create a business rule that sets the default values on the child record fields to values from the parent record.
- D. Include a quick view form on the child record showing the data from the parent record.

Correct Answer: B

Section:

Explanation:

A subgrid exists within a main form and let app users view data within a Dataverse table, typically related to the record currently being reviewed.

Reference:

<https://docs.microsoft.com/en-us/powerapps/maker/model-driven-apps/sub-grid-properties-legacy>

QUESTION 18

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

Section:

Explanation:

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>

QUESTION 19

You plan to populate records in a Common Data Service entity containing an option set field.

The source system has the label for the option set but not the corresponding integer value.

You are using a non .NET programming language.

You need to find the integer value for the option set.

What should you do?

- A. Use Web API and use a PicklistAttributeMetadata request.

- B. Use the Organization service and execute a RetrieveOptionSetRequest request.
- C. Use Web API and use an InsertOptionValue action.
- D. Use the Organization service and execute a RetrieveAttributeRequest request.

Correct Answer: B

Section:

Explanation:

You can retrieve a global choice (option set) by name (label) using the RetrieveOptionSetRequest message.

Reference: <https://docs.microsoft.com/en-us/powerapps/developer/data-platform/org-service/metadata-option-sets>

QUESTION 20

You have the following code:

```
Xrm.WebApi.createRecord("account", data).then(  
    function success(result) {  
        console.log("Success");  
    },  
    function (error) {  
        console.log(error.message);  
    }  
);
```

You have a contact record that uses the GUID 991bf2fd-d40c-4752-9984-26b7c0455b69.

You need to assign the contact record as the primary contact for an account when you create the account.

Which two code segments can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. `var data = { "name": "Contoso account", "primarycontactid": { "logicalname": "contact", "id": "991bf2fd-d40c-4752-9984-26b7c0455b69" } };`
- B. `var data = { "name": "Contoso account", "primarycontactid@odata.bind": "/contacts(991bf2fd-d40c-4752-9984-26b7c0455b69)" };`
- C. `var data = { "name": "Contoso account", "primarycontactid@odata.context": "/contacts(991bf2fd-d40c-4752-9984-26b7c0455b69)" };`
- D. `var data = { "name": "Contoso account", "primarycontactid": "/contacts(991bf2fd-d40c-4752-9984-26b7c0455b69)" };`

Correct Answer: A, B

Section:

Explanation:

B: To associate new table records to existing table records, set the value of single-valued navigation properties using the

@odata.bind annotation

Example: var data =

```
{  
  "name": "Sample Account",  
  "primarycontactid@odata.bind": "/contacts(465b158c-541c-e511-80d3-3863bb347ba8)"  
}
```

A: For mobile clients in the offline mode, you cannot use the @odata.bind annotation, and instead have to pass a lookup object (logicalname and id) pointing to the target record.

var data =

```
{  
  "name": "Sample Account", "primarycontactid":  
  {  
    "logicalname": "contact",  
    "id": "465b158c-541c-e511-80d3-3863bb347ba8"  
  }  
}
```

Note Syntax:

Xrm.WebApi.createRecord(entityLogicalName, data).then(successCallback, errorCallback); entityLogicalName: Logical name of the table you want to create. For example: "account".

Data: A JSON object defining the columns and values for the new table record.

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/reference/xrm-webapi/createrecord>

QUESTION 21

An organization uses Dynamics 365 Sales.

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

NOTE: Each correct selection is worth one point.

- A. Open the web resource 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.
- B. From Settings, select Customizations and then select Customize the System.
- C. In the Account form, select Form Properties, select Non-Event Dependencies, and then add the custom field new_placeofbirth.
- D. Select Account, select Forms, and then select the Account form.
- E. From Web Resources, select the JavaScript file for the Account form and then select the JavaScript file.
- F. In the Account form, select Form Properties and add the primary JavaScript file and the other two images web resources in Form Libraries.

Correct Answer: B, C, D

Section:

Explanation:

Step 1 (B): From Settings, select Customizations and then select Customize the System.

Step 2 (D): Select Account, select Forms, and then select the Account form.

Step 3 (C): In the Account form, select Form Properties, select Non-Event Dependencies, and then add the custom field new_placeofbirth.

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:

Form Properties



Modify this form's properties.

Events Display **Parameters** Non-Event Dependencies

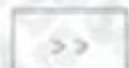
Select the fields that are required by any external, non-event scripts. Fields in the Dependent Fields list will not be removable from the form.

Available fields:

- RECENT CASES
- RECENT OPPORTUNITIES
- Relationship Type
- Sales Tax Code
- Send Marketing Materials
- Service Territory
- SIC Code
- Tax Exempt
- Tax Exempt Number
- Ticker Symbol
- Travel Charge
- Travel Charge Type
- Work Order Instructions

Dependent fields:

- Website



OK

Cancel

Reference:

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

QUESTION 22

You create a Power Automate flow that retrieves data from a proprietary database.

You need to ensure that the flow works for other users.

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

NOTE: Each correct selection is worth one point.

- A. Share a view with users.
- B. Share the custom connector with users.
- C. Share the flow with users.
- D. Share the environment by giving permissions to the users.

Correct Answer: B, C

Section:

Explanation:

Share the flow and the custom connector with users.

Reference: <https://docs.microsoft.com/en-us/connectors/custom-connectors/share>

QUESTION 23

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

Which expression should you use?

- A. IsBlank
- B. IsType
- C. PlainText
- D. IsNumeric

Correct Answer: D

Section:

Explanation:

QUESTION 24

You are creating a model-driven app.

A JavaScript function must be manually initiated by the user from within an entity form.

You need to add a button to the form to run the JavaScript.

What should you do?

- A. Use the Ribbon Workbench.
- B. Edit the SiteMap.
- C. Edit the XML for the form.
- D. Edit ISV.Config.
- E. Export the ribbon definitions.

Correct Answer: A

Section:



Explanation:

How to add JavaScript to existing button in Ribbon WorkBench.

Open Ribbon workbench and Right click on Assign button from Account form and click on Customize Button. Add Enable rule and call Javascript function.

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/customize-commands-ribbon>

QUESTION 25

You are creating a canvas app for a bank. Consumers will enter information into the app when they apply for a loan.

The input form for the app must display fields to prompt the consumer for their first name, last name, address, and the requested loan amount.

Immediately after a consumer enters a value for the LoanAmount field, the background color for the column must change.

The background color for the column must change to red if a consumer enters a value of more than \$5,000 and must turn green for values less than or equal to \$5,000.

You need to implement the required behavior.

Which option should you use?

- A. Create a Power Automate flow.
- B. Configure field properties.
- C. Add a business rule to the form.
- D. Add a formula to the LoanAmount field.

Correct Answer: D

Section:

Explanation:

Conditional formatting in Power Apps can be done with formulas.

Reference:

<https://powerapps.microsoft.com/en-us/blog/conditional-formatting-in-powerapps/>

**QUESTION 26**

You need to create the customer mobile app.

Which type of function expression should you use?

- A. Filter
- B. Find
- C. LookUp

Correct Answer: C

Section:

Explanation:

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.

Reference: <https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/functions/function-filter-lookup>

QUESTION 27

You are creating a Power Automate flow.

You create an Azure Service Bus listener app that receives requests from a third-party application.

When the flow calls the message queue, it must delete the message as soon as it is read.

You need to ensure that the queue is cleared properly.

Which method or class should you use?

- A. ReceiveMode

- B. BrokeredMessage
- C. EventHubReceiver
- D. EventHubSender

Correct Answer: A

Section:

Explanation:

ReceiveMode enumerates the values for the receive mode. The default is PeekLock.

Fields:

PeekLock: Specifies the PeekLock receive mode. This is the default value for ReceiveMode. ReceiveAndDelete: Specifies the ReceiveAndDelete receive mode.

Note: You can specify two different modes in which Service Bus receives messages.

Receive and delete. In this mode, when Service Bus receives the request from the consumer, it marks the message as being consumed and returns it to the consumer application. Peek lock.

Reference: <https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-queues-topics-subscriptions>

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.servicebus.messaging.receivemode>

QUESTION 28

As part of the month-end financial closing process, a company uses a batch job to copy all orders into a staging database.

The staging database is used to calculate any outstanding amounts owed by clients, and must process all historical data.

You need to ensure that only the data affected during the month is included in the integration process.

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. Use change tracking on the orders and run the integration to retrieve new orders and the orders that have the total amount changed in the last month.
- B. Create a system view with the orders that have the Modified On field in the last month and run the integration on this subset.
- C. Use change tracking on the order lines and run the integration every week and retrieve only the order lines that have been created or deleted in the last month.
- D. Create a system view with the order lines that have the Modified On field in the last month and run the integration on this subset.

Correct Answer: C, D

Section:

Explanation:

C: 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. Deletions and creations are tracked.

D: On modified Order Lines, not on Modified Orders.

Reference: <https://docs.microsoft.com/en-us/powerapps/developer/data-platform/use-change-tracking-synchronize-data-external-systems> <https://docs.microsoft.com/en-us/powerapps/developer/data-platform/behavior-format-date-time-attribute>

QUESTION 29

DRAG DROP

You are creating technical designs for several complex business processes.

You need to implement custom business logic based on the requirements.

Which implementation methods should you use? To answer, drag the appropriate implementation methods to the correct requirements. Each implementation method 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:

Implementation methods	Answer Area	
	Requirement	Implementation method
Business rule	Access current and new values when data is updated.	
JavaScript code		
Power Automate flow	Run on a schedule.	
Plug-in		

Correct Answer:

Implementation methods	Answer Area	
	Requirement	Implementation method
	Access current and new values when data is updated.	Business rule
JavaScript code		
	Run on a schedule.	Power Automate flow
Plug-in		

Section:

Explanation:

Box 1: Business rule

You can create business rules and recommendations to apply logic and validations without writing code or creating plug-ins.

Business rules provide a simple interface to implement and maintain fastchanging and commonly used rules.

By combining conditions and actions, you can do any of the following with business rules:

Set column values

Clear column values

Set column requirement levels

Show or hide columns

Enable or disable columns

Validate data and show error messages

Create business recommendations based on business intelligence.

Box 2: Power Automate flow

You can create a cloud flow that performs one or more tasks (such as sending a report in email): Once a day, an hour, or a minute

On a date that you specify

After a number of days, hours, or minutes that you specify

Reference: <https://docs.microsoft.com/en-us/power-automate/run-scheduled-tasks>

QUESTION 30

HOTSPOT

You need to complete a Power Apps component framework (PCF) control.

How should you define the order in the manifest? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
<resources>  
<code path="scripts/HelloWorldControlWave.js" order="1" />  
<code path="scripts/HelloWorldControlRandom.js" order="2" />  
<css path="style/HelloWorldControl.css" order=" " />  
<html path="HelloWorldControlWaveRandom.htm" order=" " />  
</resources>
```



1
2
3

1
2
3

Answer Area:

Answer Area

```
<resources>  
<code path="scripts/HelloWorldControlWave.js" order="1" />  
<code path="scripts/HelloWorldControlRandom.js" order="2" />  
<css path="style/HelloWorldControl.css" order="
```

1
2
3

```
" />  
<html path="HelloWorldControlWaveRandom.htm" order="
```

1
2
3

Section:

Explanation:

Box 1: 1

The css order element is the order in which the CSS files should load.

Box 2: 1

The html order element is the order in which the HTML files should load.

Reference: <https://docs.microsoft.com/en-us/powerapps/developer/component-framework/manifest-schema-reference/css>

<https://docs.microsoft.com/en-us/powerapps/developer/component-framework/manifest-schema-reference/html>

QUESTION 31

HOTSPOT

You are developing a business process flow.

JavaScript must be used to implement additional business logic in the business process flow.

You need to evaluate the JavaScript code.

What is the result of running each code segment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

JavaScript code segment

```
formContext.getControl("test_number").setVisible(false);
```

Code Result

- Hides only the control in the body of the form
- Hides only the control in the business process flow
- Hides controls in the body of the form and the business process flow

```
formContext.data.process.addOnStageChange(testFunction);
```

- Adds an event handler to enable a function named testFunction to run when the business process flow stage changes
- Adds an event handler to enable a function named testFunction to run before the business process flow stage changes
- Adds an event handler to enable a function named testFunction to run when the business process flow stage is selected

Answer Area:



Answer Area

JavaScript code segment

```
formContext.getControl("test_number").setVisible(false);
```

Code Result

- Hides only the control in the body of the form
- Hides only the control in the business process flow
- Hides controls in the body of the form and the business process flow

```
formContext.data.process.addOnStageChange(testFunction);
```

- Adds an event handler to enable a function named testFunction to run when the business process flow stage changes
- Adds an event handler to enable a function named testFunction to run before the business process flow stage changes
- Adds an event handler to enable a function named testFunction to run when the business process flow stage is selected

Section:

Explanation:

Box 1: Hides the control in the body of the form.

The Client API form context (formContext) provides a reference to the form or to an item on the form, such as, a quick view control or a row in an editable grid, against which the current code is executed. setVisible sets a value that indicates whether the control is visible.

Box 2: Add an event handler to enable a function named TestFunction to run when the business process flow stage changes.

addOnStageChange adds a function as an event handler for the OnStageChange event so that it will be called when the business process flow stage changes.

Reference: <https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/clientapi-form-context>

<https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/clientapi/reference/formcontext-dataprocess/eventhandlers/addonstagechange>

QUESTION 32

HOTSPOT

A company has a canvas app that has a screen with a gallery of contacts.

Users must be able to search the gallery by last name, email address, and country/region. They must also be able to sort by last name, followed by country/region.

You need to define the expression that meets the requirements.

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

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

▼ (
Sort
Filter
StartsWith
SortByColumns

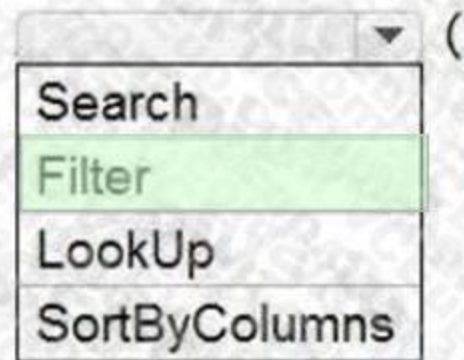
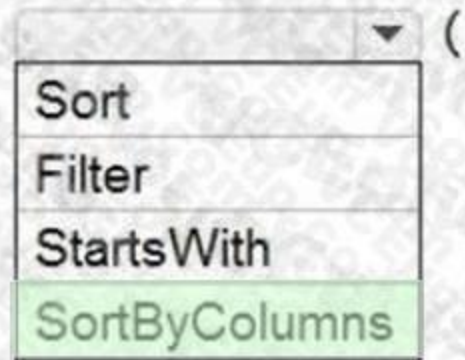
▼ (
Search
Filter
LookUp
SortByColumns

```
    Contacts,  
    TextBox1.Text,  
    "lastname",  
    "emailaddress1",  
    "address1_country"  
),  
"lastname",  
Ascending,  
"address1_country",  
Ascending  
)
```

 **vdumps**

Answer Area:

Answer Area



```
Contacts,  
TextSearchBox1.Text,  
"lastname",  
"emailaddress1",  
"address1_country"  
)  
,"lastname",  
Ascending,  
"address1_country",  
Ascending  
)
```

Section:

Explanation:

Box 1: SortByColumns

The SortByColumns function can be used to sort a table based on one or more columns.

The parameter list for SortByColumns provides the names of the columns to sort by and the sort direction per column.

 **vdumps**

Sorting is performed in the order of the parameters (sorted first by the first column, then the second, and so on).

Box 2: Filter

The Filter function finds records in a table that satisfy a formula. Use Filter to find a set of records that match one or more criteria and to discard those that don't.

Incorrect Answers:

Lookup: 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. Search: Search function uses a single string to match instead of a formula.

Reference: <https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/functions/function-sort>

QUESTION 33

DRAG DROP

You are a Power Platform developer.

Users report several access issues.

You need to resolve the user access issues.

What should you use? To answer, drag the appropriate security options to the correct scenarios. Each security 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:

Security options	Answer Area								
DLP policy	<table border="1"><thead><tr><th>Issues</th><th>Security option</th></tr></thead><tbody><tr><td>A user is not able to sign into a Power Apps app from home.</td><td>Security option</td></tr><tr><td>A user is not able to use a social media connector in a flow that uses the Microsoft Teams connector.</td><td>Security option</td></tr><tr><td>A user is not able to forward email messages to an address in another domain.</td><td>Security option</td></tr></tbody></table>	Issues	Security option	A user is not able to sign into a Power Apps app from home.	Security option	A user is not able to use a social media connector in a flow that uses the Microsoft Teams connector.	Security option	A user is not able to forward email messages to an address in another domain.	Security option
Issues	Security option								
A user is not able to sign into a Power Apps app from home.	Security option								
A user is not able to use a social media connector in a flow that uses the Microsoft Teams connector.	Security option								
A user is not able to forward email messages to an address in another domain.	Security option								
GDPR compliance									
Conditional access									
Exfiltration blocking									

Correct Answer:

Security options	Answer Area	
	Issues	Security option
<input type="checkbox"/>	A user is not able to sign into a Power Apps app from home.	<input type="checkbox"/> Conditional access
<input checked="" type="checkbox"/> GDPR compliance	A user is not able to use a social media connector in a flow that uses the Microsoft Teams connector.	<input type="checkbox"/> DLP policy
<input type="checkbox"/>	A user is not able to forward email messages to an address in another domain.	<input type="checkbox"/> Exfiltration blocking
<input type="checkbox"/>		

Section:

Explanation:

Box 1: Conditional access

You can limit access to users with block access by location to reduce unauthorized access. By using Conditional Access policies, you can apply the right access controls when needed to help keep your organization secure and stay out of your user's way when not needed. Conditional Access analyses signals such as user, device, and location to automate decisions and enforce organizational access policies for resources.

Box 2: DLP policy

DLP policies enforce rules for which connectors can be used together by classifying connectors as either Business or Non-Business. If you put a connector in the Business group, it can only be used with other connectors from that group in any given app or flow. Sometimes you might want to block the usage of certain connectors altogether by classifying them as Blocked.

Box 3: Exfiltration blocking

Email exfiltration controls for connectors

Microsoft Exchange enables admins to disable email autoforwards and autoreplies to remote domains for external recipients.

Exchange does this by using message-type headers, such as Auto Forward received from Outlook and Outlook on web clients.

Reference:

<https://docs.microsoft.com/en-us/power-platform/admin/restrict-access-online-trusted-ip-rules> <https://docs.microsoft.com/en-us/power-platform/admin/wp-data-loss-prevention> <https://docs.microsoft.com/en-us/power-platform/admin/block-forwardedemail-from-power-automate>

QUESTION 34

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:

Answer Area

```

If ( [IsBlank] ( ThisItem.'Company Name' ), "",
     [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'
)

```

Answer Area:

Answer Area

```

If ( [IsBlank] ( ThisItem.'Company Name' ), "",
     [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'
)

```



Section:

Explanation:

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

Reference: <https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/functions/function-isblank-isempty>
<https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/functions/function-astype-istype>

QUESTION 35

HOTSPOT

You are designing an integration between Dataverse and an external application. The external application processes thousands of records per day. Record processing volumes vary throughout the day. Extremely high processing volumes may occur and may exceed the Dataverse service protection API limits. You need to implement each service protection limit that is enforced. Which implementations 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

Service Protection Limit	Implementation
Number of requests	<ul style="list-style-type: none">Number per user over a sliding window of timeNumber per environment over a sliding window of timeNumber per user per 24-hour periodNumber per environment per 24-hour period
Combined execution time	<ul style="list-style-type: none">Combined time per user over a sliding window of timeCombined time per user over a fixed window of timeCombined time per environment over a sliding window of timeCombined time per environment over a fixed window of time
Concurrent requests	<ul style="list-style-type: none">Fixed number per userFixed number per tenantFixed number per applicationFixed number per environment

Answer Area:

Service Protection Limit	Implementation
Number of requests	<ul style="list-style-type: none"> Number per user over a sliding window of time Number per environment over a sliding window of time Number per user per 24-hour period Number per environment per 24-hour period
Combined execution time	<ul style="list-style-type: none"> Combined time per user over a sliding window of time Combined time per user over a fixed window of time Combined time per environment over a sliding window of time Combined time per environment over a fixed window of time
Concurrent requests	<ul style="list-style-type: none"> Fixed number per user Fixed number per tenant Fixed number per application Fixed number per environment

Section:

Explanation:

Box 1: Number per user over a sliding window of time

Service protection API limits are enforced based on three facets:

The number of requests sent by a user.

The combined execution time required to process requests sent by a user. The number of concurrent requests sent by a user.

The following table describes the default service protection API limits enforced per web server:



Measure	Description	Limit per web server
Number of requests	The cumulative number of requests made by the user.	6000 within the 5 minute sliding window
Execution time	The combined execution time of all requests made by the user.	20 minutes (1200 seconds) within the 5 minute sliding window
Number of concurrent requests	The number of concurrent requests made by the user	52

Box 2: Combined time per user over a sliding window of time

Box 3: Fixed number per user

Reference:

<https://docs.microsoft.com/en-us/powerapps/developer/data-platform/api-limits>



QUESTION 36

HOTSPOT

You need to synchronize pharmacy names and ensure that Dynamics 365 Sales data propagates correctly to the Cerner system.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Requirement	Action
Synchronize pharmacy names.	<ul style="list-style-type: none"> Use a Data integration template in Power Apps. Create a workflow in Dynamics 365 Sales. Export data from Dynamics 365 Sales to Microsoft Excel. Create a data policy in Dynamics 365 Sales.
Propagate data to the Cerner system.	<ul style="list-style-type: none"> Manually enter data. Create a workflow in Dynamics 365 Sales. Export data from Dynamics 365 Sales to Microsoft Excel. Create a custom connector in Power Apps.

Answer Area:

Requirement	Action
Synchronize pharmacy names.	<ul style="list-style-type: none"> Use a Data integration template in Power Apps. Create a workflow in Dynamics 365 Sales. Export data from Dynamics 365 Sales to Microsoft Excel. Create a data policy in Dynamics 365 Sales.
Propagate data to the Cerner system.	<ul style="list-style-type: none"> Manually enter data. Create a workflow in Dynamics 365 Sales. Export data from Dynamics 365 Sales to Microsoft Excel. Create a custom connector in Power Apps.

Section:

Explanation:

Box 1: Use a Data Integration template in Power Apps.

Ensure that the names of the pharmacies are synced between the accounting and the customer management systems.

Note: The Data Integrator (for Admins) is a point-to-point integration service used to integrate data into Dataverse. It supports integrating data between Finance and Operations apps and Dataverse. It also supports integrating data into

Finance and Operations apps and Dynamics 365 Sales.

The Data Integrator (for Admins) consists of the Data Integration platform, out-of-the-box templates provided by our application teams (for example, Finance and Operations apps and Dynamics 365 Sales) and custom templates created by our customers and partners.

Box 2: Create a workflow in Dynamics 365 Sales.

Account numbers should be entered automatically into the pharmaceutical system that is in a Cerner database and kept in sync.

Note: Start When: Use the options in this section to specify when a workflow should start automatically. You can configure a real-time workflow to be run before certain events. This is a very powerful capability because the workflow can stop the action before it occurs. The options are:

Record is created

Record status changes

Record is assigned

Record fields change Record is deleted

Reference: <https://docs.microsoft.com/en-us/power-platform/admin/data-integrator>

QUESTION 37

HOTSPOT

An online store has a custom web page that allows customers to place their orders against a Microsoft Dataverse database that uses custom products. The custom web page uses Web API patterns to create and update records.

Customers report that orders can be placed for out-of-stock items.

You need to update the page code to ensure that inventory is available before confirming an order.

Which pattern should you use for each step? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Step	Pattern
Check the inventory table before retrieving the inventory record.	<ul style="list-style-type: none"> ChangeTrackingEnabled DaysSinceRecordLastModified IsOptimisticConcurrencyEnabled
Update the quantity on the inventory record using PATCH.	<ul style="list-style-type: none"> If-Match: * If-Match: Etag If-None-Match: * If-None-Match: Etag

Answer Area:

Step	Pattern
Check the inventory table before retrieving the inventory record.	<ul style="list-style-type: none"> ChangeTrackingEnabled DaysSinceRecordLastModified IsOptimisticConcurrencyEnabled
Update the quantity on the inventory record using PATCH.	<ul style="list-style-type: none"> If-Match: * If-Match: Etag If-None-Match: * If-None-Match: Etag

Section:

Explanation:

Box 1: IsOptimisticConcurrencyEnabled

On a multi-threaded and multi-user system like Power Apps, operations and data changes often happen in parallel. A problem arises when two or more update or delete operations on the same piece of data happen at the same time. This situation could potentially result in data loss. The optimistic concurrency feature provides the ability for your applications to detect whether a table record has changed on the server in the time between when your application retrieved the record and when it tries to update or delete that record.

Box 2: If-Match: Etag

Use If-Match and If-None-Match headers with ETag values to check whether the current version of a resource matches the one last retrieved, matches any previous version or matches no version. These comparisons form the basis of conditional operation support. Dataverse provides ETags to support conditional retrievals, optimistic concurrency, and limited upsert operations.

Reference: <https://docs.microsoft.com/en-us/powerapps/developer/data-platform/optimistic-concurrency>

<https://docs.microsoft.com/en-us/powerapps/developer/data-platform/webapi/perform-conditional-operations-using-web-api>

QUESTION 38

A Power Platform solution includes the following Web API call:

GET [http://contoso.crm.dynamics.com/api/data/v9.1/RelationshipDefinitions?\\$select=SchemaName](http://contoso.crm.dynamics.com/api/data/v9.1/RelationshipDefinitions?$select=SchemaName)

You need to explain what this line of code is doing.

What does the code do?

- A. Retrieve the list of relationships between tables.
- B. Retrieve a list of tables that are related to each other.
- C. Retrieve a list of one-to-many relationships with other tables.
- D. Retrieve a list of tables that have more than one relationship.
- E. Retrieve a list of many-to-many relationships with other tables.

Correct Answer: D

Section:

Explanation:

<https://docs.microsoft.com/en-us/power-apps/developer/data-platform/webapi/query-metadataweb-api>



QUESTION 39

HOTSPOT

You need to correct the JavaScript code that communicates with the address verification API.

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
	You must replace ACTIONNAME in line AV22 with northwind_ValidateAddress	<input type="radio"/>	<input type="radio"/>
	You can add code at line AV28 to display an error message returned by the address validation API.	<input type="radio"/>	<input type="radio"/>
	Calling the address validation API from the custom action eliminates the error reported by users.	<input type="radio"/>	<input type="radio"/>

Answer Area:

Answer Area	Statements	Yes	No
	You must replace ACTIONNAME in line AV22 with northwind_ValidateAddress	<input checked="" type="radio"/>	<input type="radio"/>
	You can add code at line AV28 to display an error message returned by the address validation API.	<input checked="" type="radio"/>	<input type="radio"/>
	Calling the address validation API from the custom action eliminates the error reported by users.	<input type="radio"/>	<input checked="" type="radio"/>

Section:

Explanation:

QUESTION 40

You need to resolve the address validation API error.
Which method should you use to connect?

- A. an Azure function triggered by a webhook
- B. JavaScript code
- C. a custom connector used in a cloud flow
- D. a plug-in attached to a custom action called from JavaScript

Correct Answer: C

Section:

QUESTION 41

HOTSPOT

You need to design functionality to process background check results.

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

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Requirement

Select an implementation pattern

Apply stage changes to Dataverse

Implementation option

	▼
Push	
Pull	
Event-based	

	▼
Update	
Upsert	
Alternate key	

Answer Area:

Answer Area

Requirement

Select an implementation pattern

Apply stage changes to Dataverse

Implementation option

	▼
Push	
Pull	
Event-based	

	▼
Update	
Upsert	
Alternate key	

Section:

Explanation:

QUESTION 42

HOTSPOT

You need to configure the address verification API.

Which values 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

Property

Value

Address validation message

	▼
Update	
Execute	
northwind_ValidateAddress	

Execution mode

	▼
Synchronous	
Asynchronous	
Post-Operation	

Answer Area:

Answer Area

Property

Value

Address validation message

	▼
Update	
Execute	
northwind_ValidateAddress	

Execution mode

	▼
Synchronous	
Asynchronous	
Post-Operation	

Vdumps

Section:

Explanation:

QUESTION 43

You need to connect to the background check API.
Which mechanism should you use?

- A. JavaScript
- B. Flow with a custom connector

- C. Azure Function
- D. Plug-in

Correct Answer: C

Section:

QUESTION 44

DRAG DROP

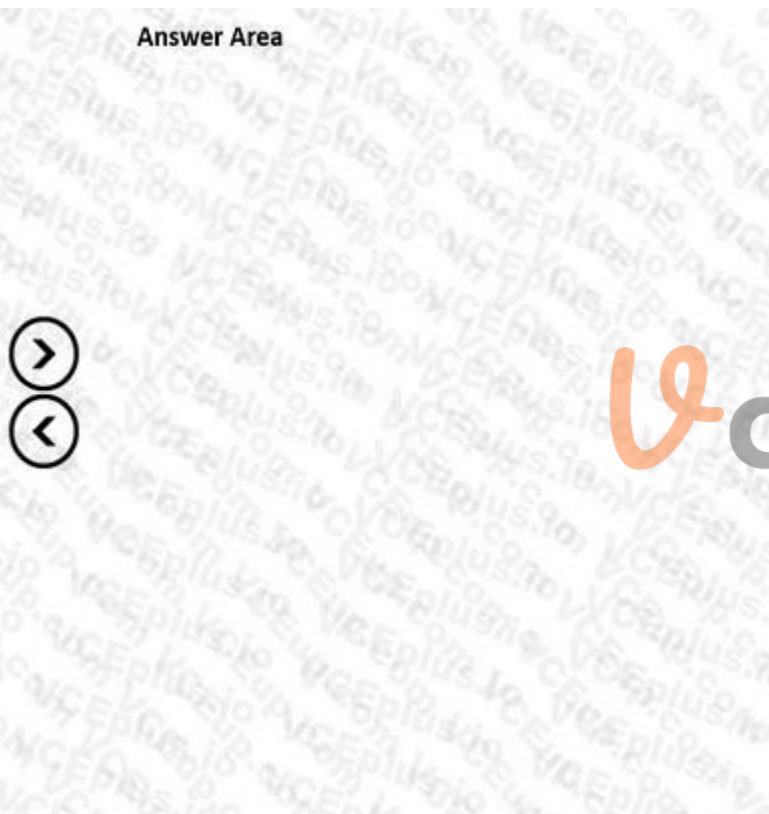
You are developing a Power Platform solution. You are modifying a business process flow. You have created a new radial knob for the Total amount value and have added the radial knob to the form.

The Total amount value must be entered at initiation before moving to the next step.

You need to configure the business process flow.

Which four 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	Answer Area
Create a new solution and add the business process flow and export the solution. Delete the solution after export.	
Open the business process in the Business Process Flow designer and select Activate/Update.	
Add another step to the business process flow.	
Import the solution into Dataverse.	
Delete the business process flow.	
Copy custom control configurations to the business process flow FormXML for the related entity form.	

Correct Answer:

Actions	Answer Area
	Create a new solution and add the business process flow and export the solution. Delete the solution after export.
	Copy custom control configurations to the business process flow FormXML for the related entity form.
Add another step to the business process flow.	Import the solution into Dataverse.
	Open the business process in the Business Process Flow designer and select Activate/Update.
Delete the business process flow.	

Section:

Explanation:

QUESTION 45

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	Requirement	Role
System Administrator only	Create customizations in the system	
System Customizer only	View all system data entities	
	View all data stored in system entities	



Correct Answer:

Roles	Requirement	Role
System Administrator only	Create customizations in the system	System Customizer only
System Customizer only	View all system data entities	System Customizer only
	View all data stored in system entities	System Administrator only

Section:

Explanation:

QUESTION 46

DRAG DROP

You are creating an app that connects to Microsoft Dataverse on a nightly basis. You plan to integrate the app with an external system.

The application must not authenticate by using a Microsoft Azure Active Directory (Azure AD) user account.

You need to enable the application to authenticate to Dataverse.

Which four 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

- Use the Azure AD application id and secret as credentials in the application.
- Grant the Dataverse application user the Access Dynamics 365 as organization users permission in Azure AD.
- Register the application in Azure AD with appropriate permissions.
- Use the Dataverse application user username and password as credentials in the application.
- Create the application user in Dataverse using the Application User form.
- Assign a security role to the application user in Dataverse.

Correct Answer:

Actions

	Register the application in Azure AD with appropriate permissions.
Grant the Dataverse application user the Access Dynamics 365 as organization users permission in Azure AD.	Use the Azure AD application id and secret as credentials in the application.
	Create the application user in Dataverse using the Application User form.
Use the Dataverse application user username and password as credentials in the application.	Assign a security role to the application user in Dataverse.

Section:

Explanation:

QUESTION 47

HOTSPOT

The following code updates the customer size code choice column on the Account table if the number of employees column value is greater than 100. Line numbering is provided for information only.

```

01 static void UpdateAccount(CrmServiceClient svc, string accountId)
02 {
03     using (svc)
04     {
05         var account = svc.Retrieve("account", accountId, new ColumnSet(true));
06
07         var numberofemployees = account.GetAttributeValue<int>("numberofemployees");
08         if (numberofemployees > 100)
09         {
10             account["customersizecode"] = new OptionSetValue(2);
11             svc.Update(account);
12         }
13     }
14 }

```

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

Hot Area:

Answer Area

Statement	Yes	No
Does the Retrieve method use the correct parameters?	<input type="radio"/>	<input type="radio"/>
Will a plug-in triggered on the update of the numberofemployees column execute after the Update method is executed?	<input type="radio"/>	<input type="radio"/>
Will an exception be thrown if the value for numberofemployees is null?	<input type="radio"/>	<input type="radio"/>

Answer Area:

Answer Area

Statement

Does the Retrieve method use the correct parameters? Yes No

Will a plug-in triggered on the update of the numberofemployees column execute after the Update method is executed? Yes No

Will an exception be thrown if the value for numberofemployees is null? Yes No

Section:

Explanation:

QUESTION 48

DRAG DROP

A company is configuring Microsoft Power Virtual Agents and Power Automate flows that use modeldriven apps. The company has a website that uses Power Pages. You create Power Virtual Agents bot topics. You must configure the following:

X Use a bot on the website.

X Create Bot Framework skills.

X Create a support request from the bot without human interaction.

You need to configure the website.

Which applications should you configure?

To answer, drag the appropriate applications to the correct requirements. Each application 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:

Applications

- Power Virtual Agents
- Power Pages
- Power Automate
- Power App

Answer Area

Requirement

- Use a bot on the website.
- Create Bot Framework skills.
- Create support request from the bot.

Application

-
-
-

Correct Answer:

Applications

-
-
- Power Automate
-

Answer Area

Requirement

- Use a bot on the website.
- Create Bot Framework skills.
- Create support request from the bot.

Application

- Power Pages
- Power App
- Power Virtual Agents

Section:

Explanation:

QUESTION 49

You are configuring a Microsoft Power Virtual Agents chatbot to use the authenticate option for Microsoft Teams only.

You need to select the variables that will return information about the logged in user.

Which two variables should you use?

Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. AuthToken
- B. UserDisplayName
- C. UserID
- D. IsLoggedIn

Correct Answer: A, D

Section:

QUESTION 50

You develop and deploy a Power Apps solution.

The following changes must be made to the solution:

X Delete a column of data.

X Modify several views.

X Add several charts to dashboards.

You need to re-deploy the app. What should you do?

- A. Update the solution.
- B. Upgrade the solution.
- C. Create a new solution.
- D. Patch the solution.

Correct Answer: A

Section:

QUESTION 51

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	Answer area
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.	

Correct Answer:

Actions	Answer area
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.



Section:

Explanation:

QUESTION 52

You are developing a Power Apps app to manage records in the Account table in Microsoft Dataverse.

You must configure a Web API request to retrieve changes from the table. You need to configure the preference header for the API request. What should you include in the request header?

- A. odata.nextLink
- B. odata-context
- C. odata.deltaLink
- D. odata.track-changes

Correct Answer: B

Section:

QUESTION 53

You are troubleshooting a new canvas app.

Users report the app loads slowly. You use the Monitor tool to view various events being performed in the app. Events performed in the app do not have formula details.

You need to enable formulas to be included with the Monitor tool events.

What should you do?

- A. Turn on the Debug published app setting in the canvas app.

- B. After each event, implement the trace function within the canvas app.
- C. Add the Microsoft Azure Application Insights data source to the canvas app.
- D. Validate the Application Insights instrumentation key has been populated in the app object's properties within the canvas app.

Correct Answer: A

Section:

QUESTION 54

DRAG DROP

The engineering team in a company uses a SharePoint list to manage critical technical issues that are raised by clients. Other departments do not have access to this list. Departments use their own apps for their own processes.

All departments must be able to see the total number of client issues at any point in time.

You need to design a component that can be used in all the departmental apps to display the total number of client issues in bold colors.

Which four 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:

Correct Answer:

Section:

Explanation:

QUESTION 55

You are designing a one-way integration from Microsoft Dataverse to another system.

You must use an Azure Function to update the other system. The integration must send only newly created records to the other system. The solution must support scenarios where a component of the integration is unavailable for more than a few seconds to avoid data loss.

You need to design the integration solution.

Solution: Register a service endpoint in the Dataverse instance that connects to an Azure Service Bus queue.

Register a step at the endpoint which runs asynchronously on the record's Create message and in the post-operation stage.

Configure the Azure Function to process records as they are added to the queue.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section:

QUESTION 56

A company uses Common Data Service 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 fields on the customer entity for insurance exposure and risk. Write a workflow process that is triggered when a new policy record is created to calculate the sum of values from policy records.
- B. Update the Mass Calculate Rollup Field job to trigger when a new policy record is created.
- C. Create a business rule that forces the refresh of the rollup field when the customer record is updated.
- D. Create new fields on the customer entity for insurance exposure and risk. Write a plug-in that is triggered whenever a new policy record is created

Correct Answer: D

Section:

QUESTION 57

You are implementing business logic for a model-driven app form by using multiple JavaScript web resources.

The business logic number of JavaScript files, and the columns that the business logic requires are expected to change frequently. Some form fields will not be visible. Occasionally non-developers will also make changes to the form.

You need to prevent columns referenced by the JavaScript from accidentally being removed from the form based.

What should you do?

- A. Add columns in each JavaScript file as a dependency.
- B. Set all columns as business required.
- C. Hide columns that should not be displayed.
- D. Add all columns as non-event dependencies to the form.

Correct Answer: A

Section:

QUESTION 58

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:

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

X Send an email to a manager.

Display a field named Sponsor on the lead form.

X If the estimated value for a lead is greater than \$100,000 the app must:

X Send an email to the company's vice president.

X 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:

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

Correct Answer:

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

Section:

Explanation:

QUESTION 59

HOTSPOT

You need to package and deploy a Power Apps code component to an environment.

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:

Action	Command
Package	pac solution init --publisher-name Contoso --publisher-prefix cto
	pac solution init --publisher-name Contoso --publisher-prefix cto
	pac auth create -url https://contoso.crm.dynamics.com
	pac pcf push --publisher-prefix
Connect	pac solution add-reference --path c:\downloads\mysamplecomponent
	pac auth create -url https://contoso.crm.dynamics.com
	pac solution init --publisher-name Contoso --publisher-prefix cto
	pac auth create -url https://contoso.crm.dynamics.com
Deploy	pac pcf push --publisher-prefix
	pac solution init --publisher-name Contoso --publisher-prefix cto
	pac auth create -url https://contoso.crm.dynamics.com
	pac pcf push --publisher-prefix
	pac solution add-reference --path c:\downloads\mysamplecomponent

Answer Area:

Action	Command
Package	pac solution init --publisher-name Contoso --publisher-prefix cto
	pac solution init --publisher-name Contoso --publisher-prefix cto
	pac auth create -url https://contoso.crm.dynamics.com
	pac pcf push --publisher-prefix
Connect	pac solution add-reference --path c:\downloads\mysamplecomponent
	pac auth create -url https://contoso.crm.dynamics.com
	pac solution init --publisher-name Contoso --publisher-prefix cto
	pac auth create -url https://contoso.crm.dynamics.com
Deploy	pac pcf push --publisher-prefix
	pac solution init --publisher-name Contoso --publisher-prefix cto
	pac auth create -url https://contoso.crm.dynamics.com
	pac pcf push --publisher-prefix
	pac solution add-reference --path c:\downloads\mysamplecomponent

Section:

Explanation:

QUESTION 60

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

The app must map child records to a parent record.

You need to use the column mapping feature to configure the app.

Which two actions can you perform? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Map the value of columns on both the child table quick-create and main forms to the value for the same columns on the parent table.
- B. Map the value of a column on the parent table that uses column values from the child table.
- C. Map the value of a Choices column on the child table to the value of a Choices column on the parent table.
- D. Map the value of a single line of text column on the child table to the value of a currency column on the parent record.

Correct Answer: A, C

Section:

QUESTION 61

A company requires a plug-in that makes multiple requests to an external web service. The plug-in must not time out when the web service has issues or is slow to respond.

You need to create the plug-in.

What should you do?

- A. Register the plug-in step once for each web service request.
- B. Register the plug-in to run synchronously.
- C. Send requests to use multiple threads.
- D. Set the HTTP connection timeout value explicitly to limit how long each connection can remain open.

Correct Answer: C

Section:



QUESTION 62

HOTSPOT

You are creating a Microsoft Power Automate flow.

The flow must prompt a user for some input and populate a field in an app based on the user's input.

You need to add an expression that returns User1 if the input from the user is High. Otherwise, the expression must return User2.

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

NOTE: Each correct selection is worth one point.

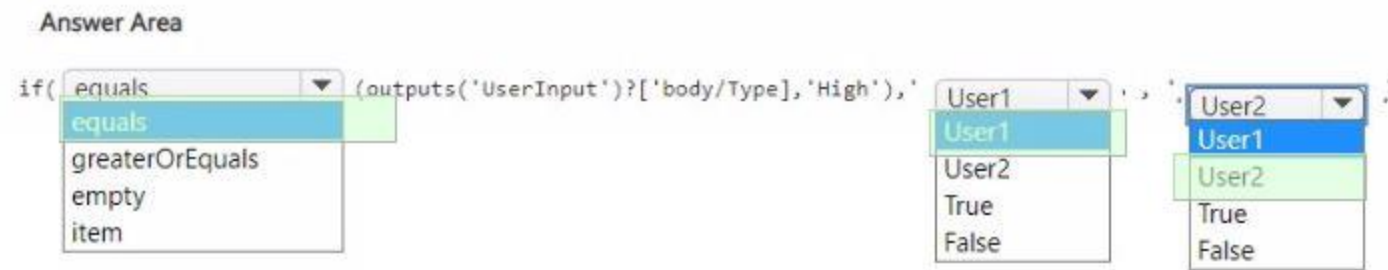
Hot Area:

Answer Area

if(equals (outputs('UserInput')['body/Type'],'High'), User1, User2)

The image shows a screenshot of the Microsoft Power Automate expression editor. The expression being built is: `if(equals (outputs('UserInput')['body/Type'],'High'), User1, User2)`. Three dropdown menus are open to show the selected options: the first dropdown is set to 'equals', the second to 'User1', and the third to 'User2'. The 'equals' dropdown also shows other options like 'greaterOrEquals', 'empty', and 'item'.

Answer Area:



Section:

Explanation:

QUESTION 63

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 company develops a new custom connector for a Microsoft Entra ID-protected Azure Function that was created as a single tenant app.

The custom connector must be moved to a production environment. The connector must be visible and accessible only to users in the tenant.

You need to deploy the custom connector.

Solution: Publish the custom connector to AppSource.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Section:



QUESTION 64

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 company develops a new custom connector for a Microsoft Entra ID-protected Azure Function that was created as a single tenant app.

The custom connector must be moved to a production environment. The connector must be visible and accessible only to users in the tenant.

You need to deploy the custom connector.

Solution: Use the maker portal to export the custom connector. Then use the maker portal to import the connector into the production environment.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Section: