ATMIC NETWORKS
YOUR GUIDE TO GLOBAL CERTIFIATION

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Topic 1 , Case Study Alpine Ski House

Overview

Alpine Ski House is a company that owns and operates hotels, restaurants, and stores. Currently, the company uses the following software and interlace:

- Property management software (PMS) to manage hotel rooms
- On-premises accounting software to generate sales invoices and create purchase orders
- An API that allows restaurants and stores to obtain necessary information

Restaurants and stores use standalone software for point of sale (POS) devices. Each day, the POS terminals generate a text file of sales data and save the files in a serval folder. An account assistant must manually import the files to the current software tables to be processed by the system.

The general manager receives several reports monthly from department managers. The reports take too much time to prepare.

The company is moving from a different system to Business Central online to manage the whole company.

The company plans to increase efficiency in every department by using APIs to obtain or share information between the different systems.

Each department involved in purchasing must be able to make purchase requests automatically and easily. The departments do not need access to the full ERP management system.

Alpine Ski House requires the development of several extensions for the planned improvements.

Business Central design patterns must be used to develop all extensions.

Alpine Ski House must develop the following pages:

- Pages that provide multiple configurations in a multistep dialog, like a wizard, to provide required information when the extensions are first installed
- Department-specific Role Center pages to show relevant information and pages with additional information

The IT department plans to use Power 61 to analyze departmental information. The database must be configured to provide optimal performance.

The housekeeping department requires the following to increase efficiency and help avoid data entry errors:

- A Housekeeping Role Center to minimize navigation to relevant areas In Business Central online and to show relevant information in it
- Pages to embed into a new Room page to show additional information about the Room entity
- A table named Room Incident for the housekeeping team to enter room issue information
- A Housekeeping canvas app that connects to an extension

The department requires the development of an extension with a new API page named RoomsAPI.

- The housekeeping team will use RoomsAPI to publish room details, update when work is complete, or provide repair notifications from the canvas app.
- This custom API page must expose a custom table named Rooms and have an ID 50000. The table must be able to update from the PMS. The PMS team must know the end to connect to the custom API.
- A developer provides the following details for the API page:

APIPublisher = 'alpine';
APIGroup - 'integration';
APIVersion - 'v2.6';
fntityName ■ 'room';
EntitySetName = 'rooms';

- The extension must be published in Business Central online and include a list page named Room List

that includes all hotel rooms.

- Installation or updates to this extension must meet the following requirements:
  - o Some web services must be published automatically.
  - o The version of the specified application's metadata must be obtained in AL language.
  - o The code required to perform tasks cannot be accessible from other parts of the application.

The Room Incident table information must include the following fields:

- Incident entry: An incremental number
- Room No.: A room from the Room table
- Incident Date: The work date
  - o The table definition in the Room Incident table must autofill the Incident Date when the housekeeping team inserts a new record, o The value for Incident Date must be the work date configured in the Business Central online client.
- Status: Includes the following options lo identify the status of the incident:
  - o Open: When the Room Incident is created
  - o In Progress: When someone starts repair work
  - o Closed: When the incident is solved
- Incident Closing Date: Auto-updating field (when the status passes to Closed, the field will update with the work date)
- Incident Description: Text
- Image. Media data type
  - The stored picture must be downloadable from a menu action.
  - A Room Incident page must be developed to contain the download action.

To increase efficiency, the new system must manage the generated data from the restaurants and stores directly by using the API on the POS terminals.

- The company requires a code unit called from a job queue to read the information from the POS terminal APIs.
- The POS terminal information must be stored in a table named POS Information, have an ID 50100. and be editable on a page.
- The account manager requires an option on the menu of the page to run the process manually. To analyze the information received from the POS terminals, the company requires:
- A custom API named ticketAPI to export the information to Power BI
- Use of the Read Scale-Out feature to improve database performance

The purchasing department requites a new entity in Business Central online to log non-conformities of goods received from vendors. The entity must be set up as follows:

- The non-conformity entity must have two tables:
  - o a header with common information
  - o one or more lines with the detailed received items that are non-conforming
- The entity requires a page named Non-conformity and a subpage named Non-Conformity Lines to store the information.

When a purchase order with incorrect quantity 01 quality issues is received, the entity must create a non-conformity document in the system. The following information must be nick the document:

- Non-conformity Number: must use the No. Series table from Business Central online to manage this field and use these features:
  - o Alphanumeric values
  - o Number format that includes "NO and the year as part of the number: for example, NC24-001
- Non-conformity Date: stores only the creation date
- Vendor No.: stores the number of the vendor that sent the items; only vendors from the company

must be included

- Owner: code of an employee defined in the company
- Receipt No.: must meet the following conditions:
  - o Be an existing receipt No.
  - o Be received from the vendor indicated in the Vendor No. field
- Comments: can include comments with rich text and pictures to illustrate quality problems »
- Status: includes nonconformity statuses, such as:
  - o Open
  - o Notified
  - o Closed
- Lines must contain the following details:
  - o Item No.: item received (for existing inventory items only)
  - o Description: item description
  - 0 Quantity: non-conforming quantity
  - 0 Non-conformity Type:
    - Quality
    - Quantity
    - Delivery date

The serial numbers of the non-conformities and the period in which they can be created must be in a configuration table and its corresponding page to allow them to be modified for the users.

Question: 1

HOTSPOT

You need to download a stored picture from the Room Incident page.

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

NOTE: Each correct selection is worth one point.

InStream and OutStream

```
local procedure DownloadIncIdentPicture(IncIdent : Record Incident) ver

    TempBloh : Codeunit "Temp Blob";
    IncidentOutStream : OutSt re an;
    IncidentInStrcam : InStream;
    ImageFliter, FileNaae : Text;
begin
    Temp Blob..y •                                  (Inci denrOutStream);
                CrMteStrram
                CredteinStream
                CraateOutStream

  Incident.Image ExportStreamCIncIdentOutStream);
  TenpSlob.                          (Inc identInStream);
            GeateStream
            CreateInSUMm
            CfMteOutStream
            ReadInStiejm

  ImageFilter := Image Files I'.bxo/. jpg/ gi' • '.bmp;*, jpg/.g: Filename := 'Customer
  Picture';

  it not DownloadFromStreM^                                  ,•Download Incident Picture*,' .ImageFilter, FileDamr
      exit;                    InStream
                               OutStream
                               InddenttnStream
                               IncidentOutStream
```

Answer

Explanation:

InStream and OutStream

```
local procedure OoimloadZncidefltPictvrefXiK&dent : Record Incident) var
    TempBlob : Codeunit "Temp Blob";
    IncidentOutStream : CutStream;
    IncidentInStream : InStream;
    laageFilter, FileNaae : Text;

begin
    1 'enpSlob J                        J (IncidentOutstream);
            I Created ream
            | CrnateInStream
            CreateOutStream
            I IAff^if^u*^»ni»rv>
  Incident.Image,ExportStrean(Inc identOutSt ream);
  TempBlob.                  ■J (IncidtntInStrcw);
        CiMleSUMm
        CrmteInSlteMn
        IiedleUnbtam
        HeidInStre«n

  ImageFliter :- 'Image Files ('.bap;*, jpg;*-pOP-bmp/. jpg;'.gif';
  Filename :s 'Customer Picture*;

  If not DownloadFromStrean(                    ^ JDOMilMd Incident Picture',iiMgeFilter, FileNaae) then
      exit;                InStream
                           OutStream
                           Incident InSI ream
                           InddentOutStream
```

var

TempBlob: Codeunit "Temp Blob";

```
    IncidentOutStream: OutStream;
    IncidentInStream: InStream;
    ImageFilter, FileName: Text;
begin
    // Initialize the TempBlob and streams
    TempBlob.CreateOutStream(IncidentOutStream);
    Rec.Image.ExportStream(IncidentOutStream); // 'Rec' refers to the current Room Incident record
    TempBlob.CreateInStream(IncidentInStream);

    // Set the filters and filename for the image
    ImageFilter := 'Image Files (*.bmp,*.jpg,*.jpeg,*.gif)|*.bmp;*.jpg;*.jpeg;*.gif';
    FileName := 'Customer Picture';

    // Prompt the user to download the image
    if not DownloadFromStream(IncidentInStream, '', 'Download Incident Picture', '', ImageFilter,
FileName) then
        Error('Unable to download the image.');
end;
```

Question: 2

HOTSPOT

You need to create the codeunit to read the POS terminal APIs.

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

NOTE; Each correct selection is worth one point.

Create and access codeunits

```
codeunit 521« "POS APT Management"

    Access = Internal
    Access = Public
    Permissions = TableData 1'05 Information' = rdx
    Permissions = TableData POS Information' = RMOX

  trigger OnRun()
      begin
    readAPI();
      end;


    procedure readAPKJ
    procedure readAPl(PosNo: Integer, var procedure readAPlfl

      begin
        // your code here end;
      )
```

Answer:

Explanation:

Create and access codeunits

codeunit 52102 "POS API Management"

Access = Internal

Access a Public

Termissions - laoleOata "POS Information' = rdx

Permissions = TableOata "POS Information' = RM OX

trigger OnRun()

begin

readAPIQ;

end;

£ procedure readAPIQ i

procedure reaaAKi(PosNo: Integer) var procedure readAPIQ —

begin

// your code here

end;

}

```
codeunit 52102 "POS API Management"
{
    Access = Public;
    Permissions = TableData "POS Information" = rwdx;

    trigger OnRun()
    begin
        readAPI();
    end;

    procedure readAPI()
    begin
        // Your code here to read from the POS API end;
}
```

Create and access codeunits

```
codeunit 52162 "P05 APT Management

trigger OnRunQ
begin
    readAPIO;
end;


begin
    // your code here
end;
```

Question: 3

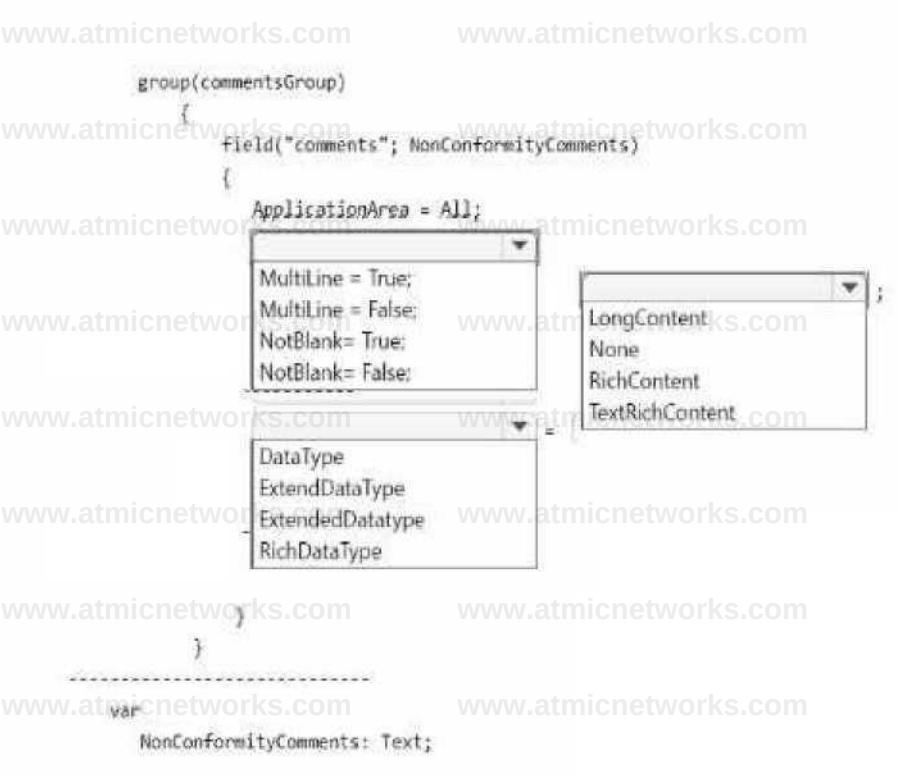
HOTSPOT

You need to define the properties of the comments field of the Non-conformity page.

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

NOTE; Each correct selection is worth one point.

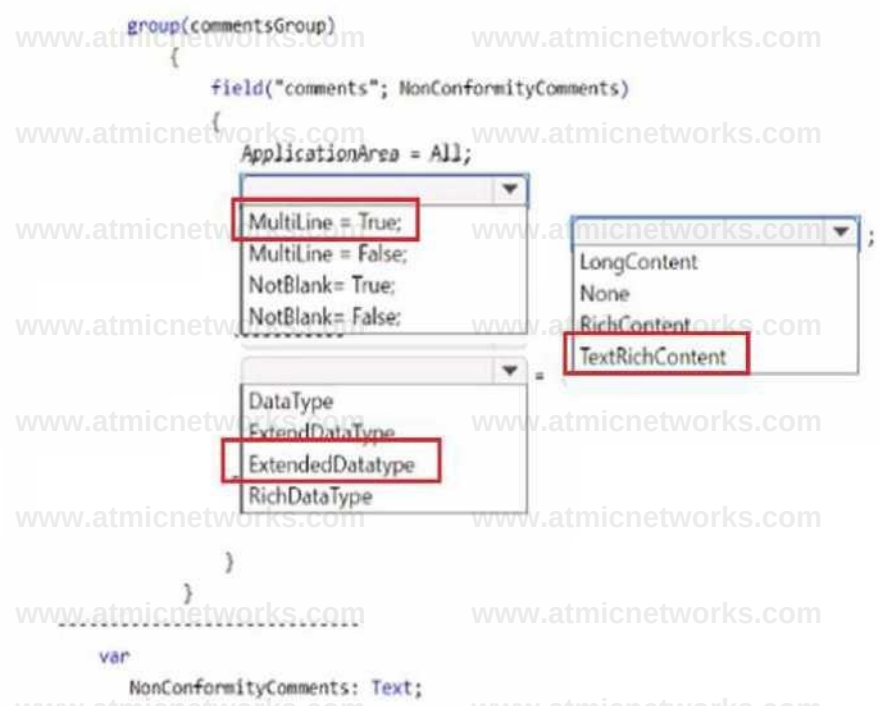
ExtendedDataType property



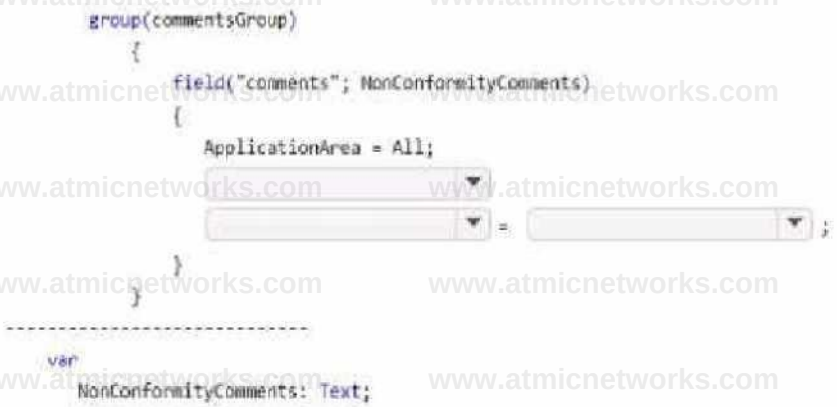
Answer:

Explanation:

ExtendedDataType property



ExtendedDataType property



Question: 4

You need to define the data types for the fields of the N on-conformity table.

Which two data types should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Integer for the N on-conformity Number field
B. Date Time for the Non-Conformity Date field
C. Char for the Non-Conformity Number field
D. Date for the Non-Conformity Date field
E. Code for the Non-Conformity Number field

Answer: D, E

Explanation:

In Business Central, fields in tables are assigned specific data types that determine the kind of data they can store. For the Non-conformity table mentioned in the case study, the following data types should be used:

Date for the Non-Conformity Date field: This is because the Non-conformity Date field is required to store only the date when the non-conformity was recorded. The Date data type is appropriate for storing dates without times.
Code for the Non-Conformity Number field: The Non-conformity Number field is described to use alphanumeric values with a format that includes "NC" and the year, like "NC24-001". In Business Central, the Code data type is used for fields that store alphanumeric keys. It is a text field with a limited length, which makes it suitable for number series that contain letters and numbers. Other options are not suitable:

A. Integer for the Non-conformity Number field: This would not be appropriate because the Nonconformity Number includes alphanumeric characters and not just integers.

B. DateTime for the Non-Conformity Date field: This is not correct because there is no requirement to store the time alongside the date.

C. Char for the Non-Conformity Number field: Char data type is not typically used in Business Central for number series or identifiers. The Code data type is preferred for this purpose.

Question: 5

HOTSPOT

You need to create the Install codeunit that is requited in the extension used for installing or updating the Housekeeping app.

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

NOTE; Each correct selection is worth one point.

Data types or declarations for an Install codeunit

Requirement	Data type or declaration
Data type for information	ModuleDependencyInfo Module Info Sessioninformation
Start of the declaration of the method or procedure to perform the tasks	**global procedure local procedure procedure**

Answer

Explanation:

For the Install codeunit required for the extension used for installing or updating the Housekeeping app, you should use the following data type and declaration:

Data type for information: ModuleInfo
Start of the declaration of the method or procedure to perform the tasks: local procedure

In AL language, which is used for developing extensions in Business Central, an Install codeunit is a special type of codeunit that is used to handle installation or upgrade logic for an extension.
ModuleInfo is a data type that contains information about the current extension, such as its version. It is typically used within the OnInstallAppPerCompany or OnUpgradePerCompany triggers of an Install codeunit to determine if the app is being installed for the first time or upgraded.
A local procedure within an Install codeunit is a method that is only accessible within the codeunit itself. It is not visible to other objects or extensions. This is suitable for tasks that are internal to the installation process and should not be exposed globally.

These selections align with the requirements of handling installation and update procedures in a controlled and encapsulated manner within Business Central extensions.

Question: 6

HOTSPOT

You need to select the appropriate page types to solve the reporting requirements.

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

NOTE; Each correct selection is worth one point.

Page type requirements

Requirement	Page types
Display relevant insights in the Housekeeping Role Center.	CardPart HeadlmePart Worksheet
Display the additional information tor the Floom table.	CardPart FactBox HeadLirrePart
Configure the first installation.	HeadLinePart NavigatePage StandardDialog

Answer:

Explanation:

For the requirements provided, the appropriate page types should be selected as follows:

Display relevant insights in the Housekeeping Role Center: HeadlinePart

Display the additional information for the Room table: FactBox

Configure the first installation: StandardDialog

Comprehensive Detailed Explanation

In the context of Microsoft Dynamics 365 Business Central, page types are crucial for determining how information is presented to the user.

HeadlinePart: This page type is designed to display key data and insights in a concise and visually appealing manner, often used in Role Centers to highlight important information. It is suitable for the Housekeeping Role Center to display relevant insights.

FactBox: This page type is used to display supplementary information related to a selected record in the main part of the page. It's often used to show additional details about a record in a list, card, or document page. In this scenario, it is suitable for showing additional information about a specific Room when viewing the Room table.

StandardDialog: This is a page type that provides a modal dialog for user interaction, commonly used for setup wizards, confirmations, and input forms that require user action before proceeding. This is appropriate for configuring the first installation, where a step-by-step guided interaction is necessary.

Question: 7

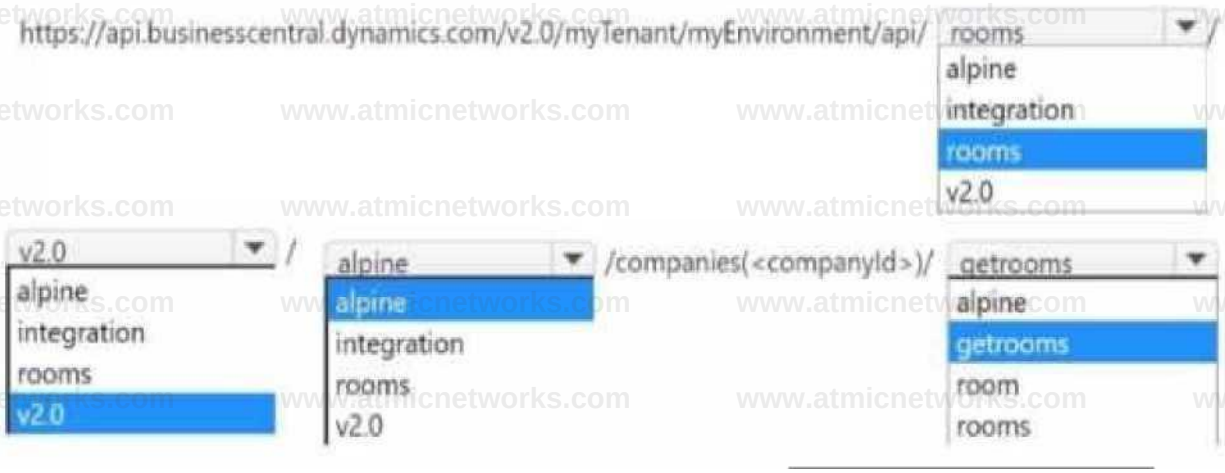
HOTSPOT

You need to provide the endpoint to the PMS provider for the RoomsAPI page.

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

NOTE: Each correct selection is worth one point

API page endpoint



Explanation:

Answer:

https://api.businesscentral.dynamics.com/v2.6/myTenant/myEnvironment/api/alpine/integration/rooms

API page endpoint

http$://api businesscentral dynamics com/v2 O/myTenant/myEnvironment/api/ rooms * /

v2.0 ' / alpine * /companie$(<companyId>)/ qetrooms '

Question: 8

You need to define the tables used for the non-conformity entity.

What should you use?

A. document history table to introduce the non-conformity entities
B. document table to introduce the non-conformity entities
C. supplemental table to introduce the non-conformity lines

Answer: B

Explanation:

Table Structure in Business Central: When creating entities such as "non-conformity" entities in Business Central, you use document tables to represent entities that have a header and line structure. In this case, the non-conformity entity has:

A header with common information (Non-conformity Number, Date, Vendor No., etc.).

One or more lines representing the detailed information for each non-conforming item.

Document Table Usage:

Document Table: A document table is the correct table type for scenarios where you have a header (with general information like vendor details) and lines (with detailed, item-specific information).

Document tables are typically used for entities such as Sales Orders, Purchase Orders, or any other transactional data where you have both header and line information.

Supplemental Table (Option C):

Supplemental tables are usually used to add supplementary information to existing data in Business Central. In this case, we need to store detailed line information, which is a core part of the entity rather than supplementary data, so a supplemental table would not be appropriate here.

Document History Table (Option A):

Document history tables are used to track changes and historical data for entities but are not suitable for the main introduction of the entity and its lines. This option is also not appropriate.

Reference Documentation:

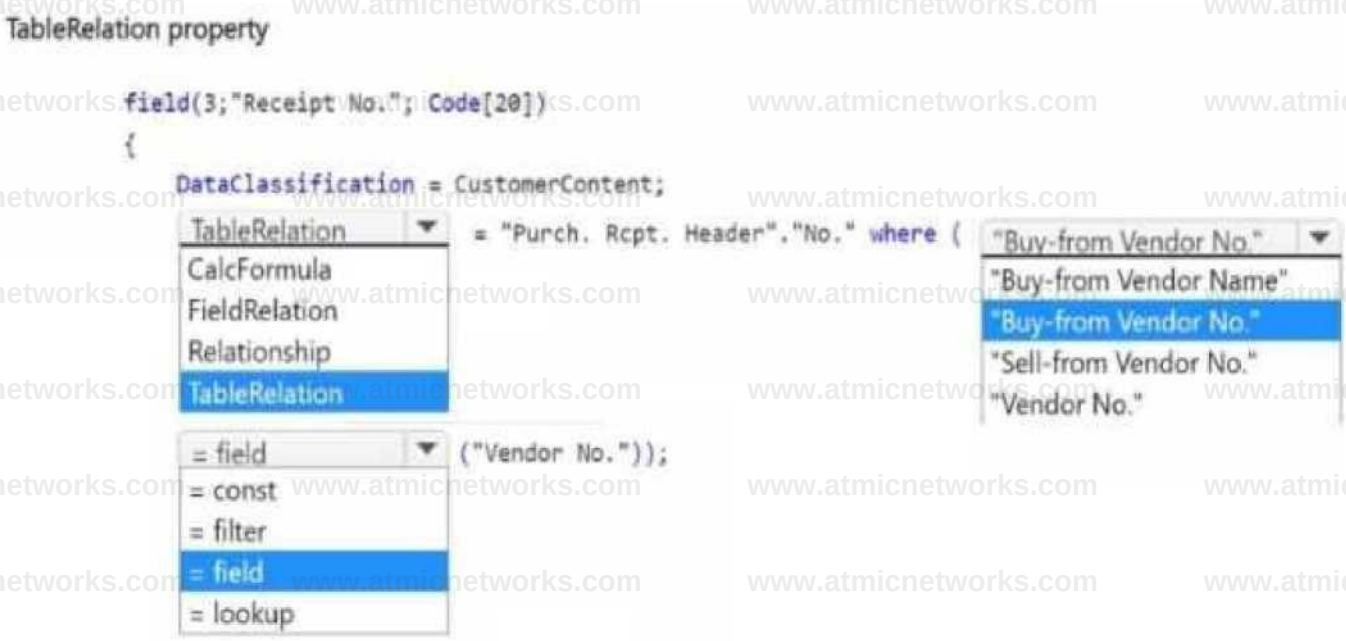
Introduction to Business Central Tables

Document Tables in Business Central

Question: 9

HOTSPOT

You need to define the properties for the Receipt No. field in the Non-conformity table when storing the information to the purchasing department



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

NOTE; Each correct selection is worth one point.

Answer:

Explanation:

```
field(3; "Receipt No."; Code[20])
{
  DataClassification = CustomerContent;
  TableRelation = "Purch. Rcpt. Header"."No." where ("Buy-from Vendor No." = field("Vendor No.")); }
```

TableRelation property

field(3;"Receipt No."; Code[20])

```
Dateclassification = Customercontent;
TableRelation * • "Punch. Rcpt. Heeder"."No." where ( "Buy from Vendor b
x field ^ ("Vendor Ho."));
```

Field Declaration:

The field(3; "Receipt No."; Code[20]) part defines the field in the table with ID 3 and type Code with a length of 20. This field will hold the receipt number.

DataClassification:

CustomerContent is selected for the DataClassification property, which categorizes the data for privacy and compliance management. This aligns with Business Central's recommendations for handling sensitive data in customer-related tables.

TableRelation Property:

The TableRelation property links the "Receipt No." field to another table, which in this case is the "Purch. Rcpt. Header" table. This ensures that only valid receipt numbers from the Purchase Receipt Header table can be selected or entered in this field.

Relation Filter:

The filter condition is applied using the where clause. It ensures that the Receipt No. is only from the Purchase Receipt Header records where the "Buy-from Vendor No." matches the "Vendor No." of the current record.

The condition field("Vendor No.") is selected from the drop-down as shown in the image. This links the vendor information in the non-conformity table to the receipt in the Purchase Receipt Header table.

By linking the "Vendor No." fields, you ensure that only receipt numbers from the correct vendor are available, which improves data consistency and reduces errors during data entry.

Reference to AL Language:

The TableRelation property is frequently used to create references between tables in Business Central. In this case, the correct relationship between the "Purch. Rcpt. Header" and the Nonconformity table is established using the TableRelation and filter.

Reference Documentation:

AL TableRelation Property
AL Field Syntax

Question: 10

You need to access the RoomsAPI API from the canvas app.

What should you do?

A. Use the default API configuration in Business Central
B. Enable the APIs for the Business Central online environment.
C. Open the Web Services page and publish the RoomsAPI page as a web service.
D. Include in the extension a codeunit of type Install that publishes RoomsAPI.

Answer: D

Explanation:

API Publishing for Extensions:

In Business Central, when creating custom APIs like RoomsAPI, it is important to ensure that they are automatically published during the installation or upgrade of the extension.

To achieve this, you can include a codeunit of type Install in the extension that explicitly publishes the custom API (RoomsAPI) as a web service. This ensures that it is available for use immediately after the extension is deployed

without requiring manual intervention.

Codeunit Type:

A codeunit of type Install runs when the extension is installed or upgraded. This type of codeunit can be used to perform setup tasks such as publishing web services or APIs like RoomsAPI.

Why Not Other Options?

Option A (default API configuration): This would not automatically publish the RoomsAPI. Default APIs do not cover custom APIs.

Option B (enable APIs for the environment): Enabling APIs in Business Central allows the standard APIs to be used, but custom APIs still need to be manually published.

Option C (publish via Web Services page): This would work but requires manual intervention to publish RoomsAPI, which does not fulfill the requirement of automatic publishing during installation. Reference Documentation:

Publishing APIs in Extensions

Codeunit Types in Business Central

Question: 11

You need to improve performance when ticketAPI is used to analyze the POS data. What should you do?

A. Set the ODataReadonlyGetEnabled parameter to True in the Business Central admin center.
B. Set the AceesByPermission property to Read on the ticketAPI API page.
C. Enable read scale-out on the Business Central database.
D. Set the DataAccessIntent property to Readonly on the ticketAPI API page.

Answer: C

Explanation:

Read Scale-Out:

Read scale-out is a feature in Business Central that allows you to improve performance by distributing read-only queries (such as the ones from the ticketAPI) across multiple read replicas in the cloud database. This reduces the load on the primary database and helps improve the response time for read-intensive operations, like analyzing POS data through the ticketAPI.

Data Access Intent - ReadOnly:

When enabling read scale-out, you can configure the DataAccessIntent property of APIs to be ReadOnly. This directs the system to use read replicas to handle read-only queries, which enhances performance by ofloading such queries from the primary database.

Why Not Other Options?

Option A (ODataReadonlyGetEnabled): This parameter is unrelated to read scale-out and primarily affects OData services behavior, not API performance tuning.

Option B (AccessByPermission): Setting the permission to Read does not directly affect the performance. It only controls access based on user permissions.

Option D (DataAccessIntent ReadOnly): While setting this property to ReadOnly helps in read-only operations, enabling read scale-out (option C) ensures the underlying infrastructure is optimized to handle such read operations, which is the fundamental action required.

Reference Documentation:Read Scale-Out in Business Central

Data Access Intent in AL

Question: 12

HOTSPOT

You need to create the configuration table and page for the non-conformity functionality.

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

NOTE: Each correct selection is worth one point

Table design configuration

Requirement	Table configuration
Design pattern for the setup table	Adapter No. Series Adapter Singleton
Data type of the pnmary key field	Code BigInteger Code Integer
Property required to prevent users from adding records	InsertAllowed InitValue InsertAllowed

UnBound

Answer:

Explanation:

Design pattern for the setup table:

The correct selection here is Adapter. The Adapter design pattern is commonly used when you need to handle integration points or create a setup table that acts as an intermediary for data manipulation, which fits the requirement for the configuration of the non-conformity functionality. Data type of the primary key field:

The correct data type is Code. In Business Central, when creating a table with a primary key field, the Code data type is typically used for fields such as document numbers, codes, and identifiers. For a setup table, a Code field is appropriate for keys like "No." series or setup identifiers.

Property required to prevent users from adding records:

The correct property is InitValue. This property is used to set initial values for fields and can be configured in such a way that users are prevented from adding records directly, typically enforcing control over record creation and editing in configuration scenarios.

Question: 13

HOTSPOT

You need to populate the Incident Date and Status fields in the Room Incident table.

Which instructions or trigger should you use? To answer, select the appropriate options in the answer area

NOTE: Each correct selection is worth one point

Table creation instructions and triggers

Requirement	Instructions/triggers

Select the instructions to use

"Incident Date":-Workdateik"Status" - Status Ooen

'Incident Date" =WorkdateQ.'Status* = Status Open.

'Incident Date" = TodayO.*Status" := 1;

"Incident Date* = CurrentDateTimeO.'Status' = Status Open,

Select the trigger to introduce the function Jagger Qnln^rt

Trigger OnInsert

Trigger On Rename

Answer:

Explanation:

Instructions to use for Incident Date and Status fields:

The correct instruction is "Incident Date" := Workdate(); "Status" := Status::Open;. This ensures that when a new record is created, the Incident Date is set to the current work date, and the Status field is initialized to 'Open'. This is essential for ensuring that the incident data is always timestamped and correctly marked upon creation.

Trigger to introduce the function:

The correct trigger is Trigger OnModify. This trigger ensures that when a record is modified, such as when an update to the status is made (e.g., from Open to Closed), the necessary logic will be executed to handle the update of fields like Incident Date and Status.

Step-by-Step Reference: Workdate Function in AL Triggers in AL

Topic 2, Contoso, Ltd.

Overview

Contoso, Ltd. Is a sales company in the manufacturing industry. It has subsidiaries in multiple countries/regions, each with its own localization. The subsidiaries must be data-independent from each other. Contoso. Ltd. uses an external business partner to manage the subcontracting of some manufacturing items. Contoso. Ltd. has different sectors with data security between sectors required. Contoso, Ltd. uses Business Central online as the main ERP for financial. sales, purchase, warehouse, and manufacturing processes. It has employees that use the Business Central web application and external applications. The company has a custom external mobile app under development The IT department and its partners installed custom extensions to satisfy the company's requirements where the functionality is not available natively.

Contoso. Ltd. interacts with external services provided by customers and partners. Different applications interact with SOAP and OData endpoints exposed from Business Central.

An external business partner of Contoso, Ltd exposed a REST API for receiving details about new subcontracting orders and for sending the planned release date of each subcontracting order received.

Contoso. Ltd. has not activated the monitoring of the tenant and has no internal telemetry for its apps.

Custom reporting must be created to meet the requirements of the different departments.

Contoso, Ltd. has the following tenant management considerations:

IT department

- The IT department requires the ability to monitor the tenant to prevent performance problems and detect possible anomalies.
- The IT department plans to use Azure Application Insights and Log Analytics to inspect the ingested telemetry signals.
- All tenant upgrades are automatically handled by Microsoft. The IT department does not check for update availability or for tenant-related notifications.
- The IT department has not configured the receipt of tenant-related notifications from the Business Central admin

center.

External business partner

- The external business partner must add custom telemetry to an application created for Contoso. Ltd. to monitor a business process.
- Custom telemetry signals for the application must be visible only on the partner's telemetry. SOAP
- Contoso, Ltd. plans to dismiss using the SOAP protocol for integrations.
- Contoso, Ltd. must be able to detect if external applications are using its Business Central SOAP endpoints.

Issue

The Business Central tenant is upgraded by Microsoft to a new major version during the night.

Users report that one of the Contoso. ltd. extensions disappeared from the tenant The IT department confirms that the extension is still published.

Contoso. Ltd. plans to create a custom mobile application that has the following requirements:

- The app must be used by employees to check item details from the ERP in real time and to report issues that occur during the manufacturing process.
- An AL extension must be created for handling archived issues.
- Business Central development guidelines must be followed when implementing modules.
- A module must be implemented for the reporting and tracking of issues information. You plan to call this module Issue Management The module must expose a method nan Postlude.
- Code modifications will be required over time.
- The Issue Management process must be split into two extensions:
  - o ISSUE BASE: main extension
  - o ISSUE EXT: second extension with dependency from ISSUE BASE
- In the version 1.0.0.0 of the ISSUE BASE extension, you plan to create an Issue table that contains a global Decimal variable named Issue Total.
- In the version 1.0.0.0 of the ISSUE BASE extension, you plan to define a table named Issue Category with a Description field defined as follows:

```
field (2; Description; Text[SG])
{
DataClassificstion * CustoaerContent;
>
```

- The Issue table defined in ISSUE BASE extension contains a Clone procedure defined as follows: procedure Corte () begin end;
- In the ISSUE EXT extension, you create a table extension object of the Issue table.
- The table extension object of the Issue table must access the Issue Total: Decimal variable. After weeks of usage, you discover that you must remove the Description field and the Clone procedure because they are no longer required.

In a new version of the ISSUE BASE extension, you create a new Issue Type table. You must move data row by row from a previously obsolete Issue Category table to the new Issue Type table. Because a large amount of data must be moved, you must write an Upgrade codeunit by using the DataTransfer object.

The IT department creates a custom API for exposing the custom Issue table. The API provides an action for copying an issue to a new table. The action is defined as follows: (Service Enabled] procedure Copy (vary action Context: WebServiceActionContext) begin end;

Contoso, Ltd. must create an API in Business Central to expose item details to the mobile application.

- The API must have the lowest possible impact on the production environment when used during working hours.
- The API must only support Get operations.

A user of the ISSUE BASE extension in Business Central reports a problem.

To debug the problem, snapshot debugging with the following configuration was activated: **“configurations": [**

{

"naw*; "snapshotInitialize; Microsoft production cloud', "type": "al", "request" "snapshotInitialize", "environmentType": "Production", "environnientMame": "production", "hreakOnNext": "HehClient", "exec utionContext": "DebugAndProfile", "userid": "YOWUSERWME"

You discover that the debugging is not triggering.

Contoso, Ltd. must connect Business Central to the external API provided by the business partner. This will be used for the partner to send the details of new subcontracting orders to fulfill the sales demand, and for receiving the planned release date of each order sent. The integration requirements are as follows:

- The business partner will provide a REST API secured with basic authentication. Credentials to access the API will be shared with Contoso, ltd.
- The API for sending subcontracting orders must be called by sending an authenticated POST request to the given endpoint.
- The API for retrieving the order no. and planned release date of each subcontracting order responds with the following JSON:

"status": "OK",
"num results": 110, "results": [

"order.no"; "$80230834",
"luStOmer.name": "Contoso Ltd.", "planned.release.date": "7023-12-13", "updated.date": "2023-10-28"

)

Each order no. must be retrieved.

Question: 14

DRAG DROP

You need to handle the removal of the Description field and the Clone procedure without breaking other extensions.

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.

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

Actions

- Set the Description field as ObsoleteState = Removed: In version 2.0.0.1
- Remove the Description field in version 2.0.0.0,
- Set the Clone procedure as ObsoleteState = Removed; in version 2.0.0.1.
- Remove the Clone procedure in version 2.0.0 0
- Set the Clone procedure as ObsoleteSrate = Pending and ObsoleteReason = Not in use in version 2.0.0.0,
- Set the Description field as ObsoleteState - Pending and ObsoleteReason - 'Not in use in version 2 0.0.0
- Remove the Description field from the Issue table in version 2.0.01
- Add the [Obsolete! xxx)] attribute to the Clone procedure in version 2.O.O.O.

Actions to handle the field and procedure removal

Answer:

Explanation:

In Business Central, when you need to handle the removal of fields and procedures to ensure that other extensions are not affected by these changes, you typically follow a two-step deprecation process. This allows other developers and users to adapt to the changes before they are fully enforced. Here are the steps to handle the removal:

Mark as Obsolete: In the first version where the decision to remove the field or procedure is made, you set the ObsoleteState to Pending and provide an ObsoleteReason. This doesn't remove the feature but indicates to users and

developers that it will be removed in the future. This step is crucial for backward compatibility.

Removal: In a subsequent version, after users have had time to adapt to the deprecation warning, you can then remove the field or procedure or set the ObsoleteState to Removed.

Based on these guidelines, here are the three actions you should perform in sequence:

Set the Description field as ObsoleteState = Pending and ObsoleteReason = 'Not in use' in version 2.0.0.0.

Set the Clone procedure as ObsoleteState = Pending and ObsoleteReason = 'Not in use' in version 2.0.0.0.

Remove the Description field from the Issue table in version 2.0.0.1.

These steps will ensure that anyone using the Description field or Clone procedure will receive a warning about the pending deprecation before it is actually removed, thereby minimizing the impact on other extensions and providing a clear path for migration.

When handling the removal of fields and procedures in Microsoft Dynamics 365 Business Central, the process should be carried out in a way that allows other extensions or dependent features to adapt to the changes without causing immediate failures.

Set Obsolete State and Reason for Description Field (Version 2.0.0.0): The first step involves marking the Description field as obsolete by setting the ObsoleteState to 'Pending'. This is a non-breaking change, signaling to other developers and users that the field is planned for removal in a future version. An ObsoleteReason should also be provided to explain why the field is being deprecated. Set Obsolete State and Reason for Clone Procedure (Version 2.0.0.0): Similarly, the Clone procedure should be marked as obsolete with the ObsoleteState set to 'Pending'. This indicates that the procedure is no longer in use and will be removed in the future. Providing an ObsoleteReason is best practice as it explains the rationale behind the decision.

Remove the Description Field (Version 2.0.0.1): In the subsequent version, after the developers and users have been given time to adapt to the deprecation notice, the Description field can be safely removed from the Issue table. This is considered a breaking change, hence it is done after the field has been marked as obsolete in a previous version.

The reason for not removing the Description field and Clone procedure immediately in version 2.0.0.0 is to avoid causing runtime errors for any extensions or integrations that may depend on these components. By following this sequence, you provide a clear deprecation path that helps maintain the stability of the overall system while evolving the schema.

Question: 15

You need to determine If you have unwanted incoming web service calls in your tenant during the last seven days. Which two KQL queries should you use? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

A.

```
traces I where timestamp > a@o(7d) I where custcoDieensions has 'R7OO08' I where custoaDiaensions.category !in ('ODataVA', 'ODataV?', 'Api')
```

B.

```
traces | where timestamp > aga(7d) | where customBimensions has 'RTeeeg[1] | where costomOimensions.category •■ 'SOAP'
```

C.

```
traces I where timestamp > ago(?d) I where customOimensions == 'RlOOtJS' | where custonoimeosions.category = 'SOAP
```

D.

```
traces I where timestamp > ago(7d) | where custcoDimensions has 'RT00M'        | where customDiaensions.category !. 'ODataW
```

E.

```
traces | where tinestamp > ago(7d) | where custoiOimensions has 'RTO008'        | where customDiaensions.category tin ('ODataW, 'Api')
```

Answer: AC

Explanation:

The task is to identify unwanted incoming web service calls during the last seven days. To do this, we need to look at KQL (Kusto Query Language) queries that would filter out web service calls based on the timestamp (to ensure the calls are within the last seven days) and by certain characteristics that would indicate they are unwanted, such as the wrong type of protocol (SOAP in this case, as Contoso Ltd. plans to dismiss using it).

Looking at the options:

Option A: This query selects all traces where the timestamp is within the last 7 days and where the custom dimension has a value of 'RT0008', and where the category is either 'ODataV4', 'ODataV3', or 'Api'. This query would show all API calls except SOAP, so it does not directly answer the question about unwanted calls.

Option B: This query filters for traces with a timestamp within the last 7 days, where 'RT0008' is present, and specifically looks for the category 'SOAP'. This query is correct because it directly targets SOAP calls, which are the unwanted calls according to Contoso Ltd.'s plans.

Option C: Similar to option B, this query filters for traces within the last 7 days and looks for 'RT0008' but uses the equality operator for the category 'SOAP'. This would also correctly return the unwanted SOAP calls.

Option D: This query also filters for traces within the last 7 days, but it excludes the 'ODataV4' category, which doesn't necessarily target the unwanted SOAP calls.

Option E: This query selects traces where the timestamp is within the last 7 days and the custom dimension has 'RT0008'. However, it filters out categories 'ODataV4' and 'Api', which does not directly help in identifying the unwanted SOAP calls.

Therefore, the queries that should be used to determine if there are unwanted incoming web service calls (SOAP calls) in the tenant during the last seven days are Options B and C. These queries are specific to identifying SOAP protocol usage, which is what Contoso Ltd. considers unwanted.

Question: 16

You need to call the Issue API action from the mobile application.

Which action should you use?

A. POST/issues (88122e0e-5796-ec11-bb87-000d3a392eb5yMicrosoit.NAV.copy
B. PATCH /issues {88122 eOe-5796-ed 1 -bb87-000d3a392eb5)/MkrosotI.NAV.Copy
C. POST /issues (88122e0e-5796-ec11 -bb87-000d3a392eb5)/Copy
D. POST /issues (88122e0e-5796-ec11 -bb87-000d3a392eb5)/copy
E. POST/issues(88122e0e-5796-ec11-bb87-000d3a392eb5)/MicrosoftNA V.Copy

Answer: C

Explanation:

In the context provided by the case study, when calling an API action from a mobile application, the correct format for a POST request to an action in Business Central typically involves specifying the entity (/issues), the ID of the entity (88122e0e-5796-ec11-bb87-000d3a392eb5), and the action to be called (/Copy). The action name should match the exact name as defined in the AL code, which is case-sensitive.

Option A is incorrect because it uses a non-standard format for the action call.

Option B uses the PATCH method, which is generally used for update operations, not for calling actions.

Option C is correct as it uses the POST method, which is appropriate for calling actions, and correctly specifies the entity, ID, and action name.

Option D is incorrect because the action name /copy is in lowercase, while AL is case-sensitive, and it should match the case exactly as defined in the code.

Option E incorrectly adds 'MicrosoftNAV' before the action name, which is not standard for calling actions in Business Central APIs.
Hence, the correct action to use when calling the Issue API action from the mobile application is given in Option C.

Question: 17

DRAG DROP
You need to configure telemetry for the SaaS tenant and test whether the ingested signals are displayed.
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.

Actions

- Select the Application Insights instance, select Logs and then inspect the Traces table.
- Select the environment in the Admin Center and place the connection string in the Application Insights Connection String field.
- Create an Azure Application Insights instance by using the Azure Portal in the Partner's subscription.
- Create an Azure Application Insights instance by using the Azure Portal in the Customer's subscription.
- Select the Application Insights instance, select Events, and then inspect the Traces table.
- Select the Sessions menu and then select Restart Environment

Steps to configure telemetry

Answer:

Explanation:

The correct sequence of actions to configure telemetry for the SaaS tenant and test whether the ingested signals are displayed would be:
Create an Azure Application Insights instance by using the Azure Portal in the Customer's subscription.
Select the environment in the Admin Center and place the connection string in the Application Insights Connection String field.
Select the Application Insights instance, select Logs and then inspect the Traces table.

To set up telemetry for a SaaS tenant using Azure Application Insights, you need to follow these steps:
Create an Azure Application Insights instance: This is the first step where you create an instance in Azure that will collect the telemetry data. This should be done in the customer's Azure subscription because it's their data that you're monitoring.
Configure the SaaS tenant to use the created Application Insights instance: This involves entering the correct connection string in the Business Central Admin Center so that telemetry data from the tenant is sent to the Application Insights instance.
Verify that telemetry is being collected: After configuring, you would check if the telemetry is arriving as expected by inspecting the Traces table in the Azure Application Insights instance. The 'Traces' table holds the telemetry data, which you can query to verify that the correct signals are being ingested.

Question: 18

You need to determine why the extension does not appear in the tenant.
What are two possible reasons for the disappearance? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. The extension was published as a DEV extension.
B. The extension was not compatible with the new version within 60 days of the first notification.
C. The extension was published as PTE. and the Platform parameter was not updated in the application file.
D. The extension was published as PTE. and the Platform and Runtime parameters were not updated in the application file.
E. The extension was not compatible with the new version within 90 days of the first notification.

Answer: BD

Explanation:

In the context of Microsoft Dynamics 365 Business Central, an extension may not appear in the tenant for several reasons, particularly after an upgrade to a new major version.

Option A suggests that the extension was published as a DEV extension, which typically would not cause it to disappear after an upgrade because DEV extensions are intended for development and testing within sandbox environments.

Option B indicates that the extension was not compatible with the new version within 60 days of the first notification. This is a likely reason because Microsoft enforces compatibility rules, and extensions that are not made compatible within the specified timeframe might be removed or disabled.

Option C refers to the extension being published as a PTE (Per-Tenant Extension) and mentions the Platform parameter not being updated. This could cause issues, but not specifically the disappearance of the extension after an upgrade.

Option D expands on Option C by adding that both the Platform and Runtime parameters were not updated in the application file. This is a critical aspect because if these parameters are not correctly set to indicate compatibility with the new version of Business Central, the extension could be disabled or removed.

Option E is similar to Option B but mentions a 90-day period. This option does not align with standard Business Central practices for version compatibility requirements.

Therefore, the two possible reasons for the disappearance of the extension in the tenant after an upgrade are that the extension was not compatible with the new version within the required timeframe (Option B) and that the extension was published as a PTE without the Platform and Runtime parameters being updated (Option D).

Question: 19

HOTSPOT

You need to create the API page according to the requirements.

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

NOTE: Each correct selection is worth one point.

Code segment for API page

```
page 56100 ItemAPI

    PageType = API;
    Caption • 'ReinApi';
    APIPublisher * 'contow';
    API6roup = 'sales'□
    APIversion - 'vl.O';
    EntityMame - 'item';
    EfttitySethane - 'items';
    ScurceToole = Item;
  ODataKeyFIelds = SystemId;

Inse.'tAI lowed = false:
Delayed Insert = true: DataAccessIntent * Readonly;
```

```
ModifyAllawed - false;
Editable = false;
UsageCategory - Osts;

layout
    area(Content)
        repeater(GroupMame) {
            fieldfno; Rec."No,")
            <
            1
            field{description; Rec.Description)
            )
            fieldfsalesTctal; Rec.“Sales (LCY)">
```

Answer:

Explanation:

Code segment for API page

```
page 56100 ItcaAPI

PageType * API;
Caption • 'IteaApi';
APIPublisher • 'contoso';
APIGroup • 'sales';
APIVersion = 'vl.O';
EntityHame ■ 'item';
EntitySetNaae • ‘items';
SourceTable = Itea;
OOataKeyFields = SystemId;

Inser (Allowed = false: DelayedInsert = true:

ModifyAllowed = false;
Editable = fake;
f7isaqeCategory = Lists: *1

layout
{
    area(Content)
    (
        repeater(Groupl»aae)
        {
```

```
field(no; Rec."No.")

}
field(descript ion; Rec.Description)
(
}
field($alesTotal; Rec.'Sales (LCY)") {
}
}
}
)
)
```

Question: 20

You need to determine why the debugger does not start correctly.

What is the cause of the problem?

A. The "userId" parameter must have the GUID of the user specified, not the username.

B. The "breakOnNext" parameter is not set to -WebServiceClient".

C. The "userId" parameter is specified, and the next user session that is specified in the 'breakOnNext" parameter is snapshot debugged.

D. The "executionContext* parameter is not set to "Debug".

Answer: A

Explanation:

In Microsoft Dynamics 365 Business Central, when configuring snapshot debugging, it is crucial that the parameters in the configuration file are correctly set. From the options provided, the issue with the debugger not starting correctly is most likely due to an incorrect "userId" parameter.

Option A is the cause of the problem. The "userId" parameter must be the GUID of the user, not the username. The snapshot debugger needs the exact GUID to attach to the right session for debugging. Option B is incorrect because "breakOnNext" set to "WebClient" is a valid setting. This tells the debugger to break on the next client action in the web client, which is a typical scenario.

Option C is not the cause of the problem. The "userId" parameter is meant to specify which user session to debug, and this works in conjunction with the "breakOnNext" parameter.

Option D is incorrect as the "executionContext" parameter does not need to be set to "Debug" for snapshot debugging to work. "DebugAndProfile" is a valid value for the "executionContext" parameter, as it allows for debugging and collecting performance information.

Therefore, the reason why the debugger does not start correctly is due to Option A: The "userId" parameter must have the GUID of the user specified, not the username.

Question: 21

HOTSPOT

You need to write the code to call the subcontractor's REST API.

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

NOTE: Each correct selection is worth one point.

```
REST services

procedure Call$ubcontractorAPI(Url: Text[?048J; Username: Text[IG0J; Password: Text(100]; Body: Text)
    ver
        http(I lent; WttpCHent; ResponseMessage HttpResponseHessage, RequestHeaders, tontentHeaders: HttpHeaders; httpContent: HttpContent;
```

```
6a«e64Convert: Codeunit "SaseGA Convert";
Response: Text;
begin
RequestHeaders := httpClient.DefoultRequestHeodersQ;
Request Headers.Add(
```


```
ht t pC ante nt. Get He ader 5 (C 0 ntc n t He aders);
Con tentHeaders.Remove(* Content-Type');
ContentHeaders Add('Content-Type', 'application/jsoo');
```

t

1 httpContent:- Body
- httpContent Clear0
httpContentWr iteFrom(Body)

```
httpClient.Post(Url httpContent)
httpClientPostfUrl, httpContent Response)
httpClientPostfUrl. httpContent. Response Mess age)
httpCllent$end(ll!! httpContent ResponseMessage)
then
```

Answer:

Explanation:

To correctly write the code to call the subcontractor's REST API, you would need to set the Authorization header with the base64 encoded username and password for basic authentication. The code segment indicates the use of the Base64Convert codeunit to convert the username and password to base64 format, which is then prefixed with "Basic " to form the proper Authorization header value.
The correct method to add the Authorization header to the RequestHeaders would be:

RequestHeaders.Add('Authorization', 'Basic ' + Base64Convert.ToBase64(Username + ':' + Password));

And the correct method to set the httpContent with the body of the request would be:

httpContent.WriteFrom(Body);
These are the necessary steps to form a well-structured HTTP request for basic authentication and to include the body of the request in the API call.

Question: 22

You need to create the access modifier for IssueTotal.

Which variable declaration should you use?

A. Protected vat IssueTotal: Decimal
B. Internal var IssueTotal: Decimal
C. Public var IssueTotal: Decimal
D. Local var IssueTotal: Decimal
E. Var IssueTotal; Decimal

Answer: B

Explanation:

In Business Central development using AL (the language for Business Central extensions), the use of access modifiers defines how variables and procedures are accessed within and outside of an object or codeunit.

Access Modifiers in AL:

Public: A public variable can be accessed from any object or codeunit within the same module or extension.

Protected: This restricts access to the current object and objects that inherit from the current object. However, in AL (at least in versions used for Business Central), the Protected access modifier is used with methods but not variables.

Internal: This modifier restricts the visibility to the current extension. This means that variables or methods declared as internal can only be accessed from within the same extension. This is appropriate when you want to provide functionality that is shared within the extension but not exposed externally.

Local: This restricts the variable or method to the current object or method where it is declared. It cannot be accessed from anywhere else, even within the same extension.

Scenario Justification:

In the scenario for Contoso, Ltd., IssueTotal is a global variable in the ISSUE BASE extension, and the ISSUE EXT extension needs to access it. Therefore, the variable cannot be declared as Local, because this would restrict access to just the current object (or method).

Using Public would expose the variable outside of the extension, which is unnecessary because you only want other parts of the extension (specifically the ISSUE EXT extension) to have access.

The best choice in this case is Internal because it restricts access to the variable to within the same extension, which includes the base extension and any dependent extensions like ISSUE EXT. It strikes the right balance between visibility and encapsulation.

Microsoft Dynamics 365 Business Central Developer Reference:

Access Modifiers in AL: Microsoft's documentation on AL provides the details on access modifiers, where it is specified that internal variables can be accessed within the extension, and the public variable is accessible across all extensions【source: Microsoft Learn on AL Programming】.

Best Practices for AL Development: Business Central development best practices suggest keeping variables internal unless they need to be accessed outside of the current extension【source: Microsoft Learn on AL development guidelines】.

Question: 23

DRAG DROP

You need to implement the Issue Management module and expose the PostIssue method.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list

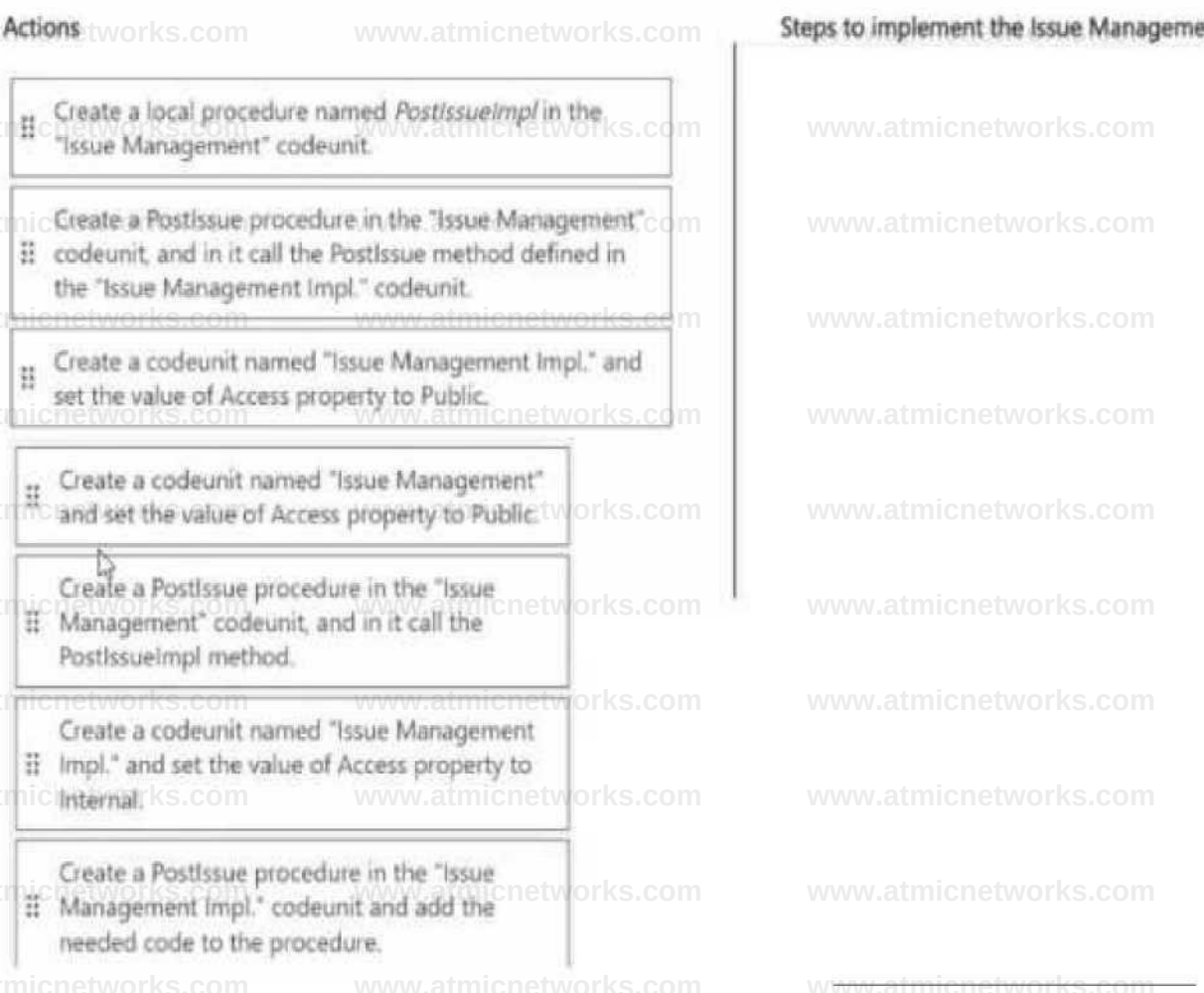
of actions to the answer area and arrange them in the correct order.

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

Answer:

Explanation:

Here is the most logical sequence of actions for implementing the Issue Management module in Business Central and exposing the PostIssue method:



Correct Order:

Create a codeunit named "Issue Management Impl." and set the value of Access property to Internal. This is the first step because Issue Management Impl. is the implementation layer where the actual business logic resides, and setting it to Internal ensures that it is only accessible from within the module, following best practices in encapsulation.

Create a local procedure named PostIssueImpl in the "Issue Management Impl." codeunit.

This step adds the actual PostIssueImpl method, which contains the core logic of posting an issue. Create a codeunit named "Issue Management" and set the value of Access property to Public.

After defining the implementation logic, you need to create a public-facing Issue Management codeunit to expose the service externally.

Create a PostIssue procedure in the "Issue Management" codeunit, and in it call the PostIssueImpl method.

Lastly, expose the PostIssue method in the Issue Management codeunit, which will internally call the PostIssueImpl method, completing the chain.

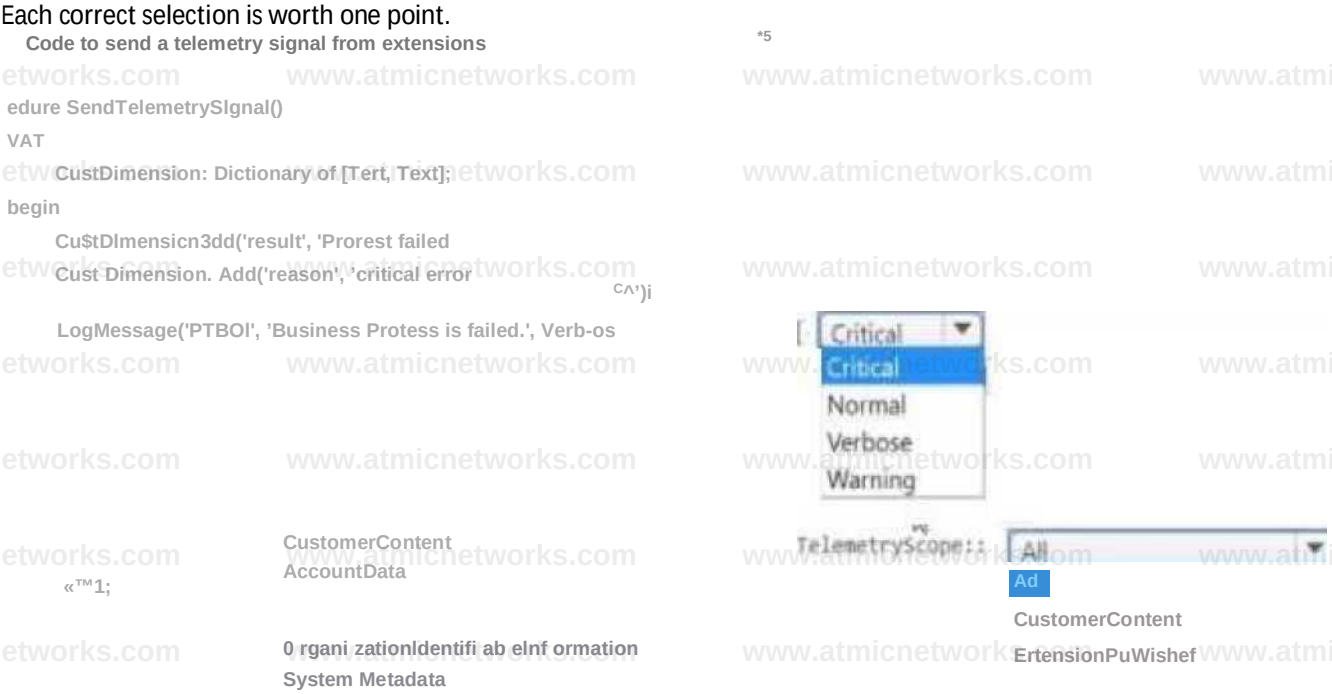
Question: 24

HOTSPOT

You need to log an error in telemetry when the business process defined in the custom application developed for Contoso, Ltd fails.

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

NOTE: Each correct selection is worth one point.



Answer

Explanation:

```
Code to send a telemetry tignal from extensions                                                    ^

procedure SendTeleaetrySignalf) van CustDlwtsionE Dictionary of [text. Text); begin CustolKiension.Add('result', 'Process failed');
CuslDlaemitxi.Md('reason', 'critical error in code'); LogMessage('PT881', 'Business Precess is failed. verbosity::| Cnbcal ᵛ ]•
DatxlassificatIon::[ CustomerContent                                    * , TeleaetryScope:i All                                    ' J, c
end;
```

Verbosity::Critical: This ensures that the telemetry logs the failure as a critical event. DataClassification::CustomerContent: This helps classify the error as related to customer data. TelemetryScope::All: This ensures that the error is visible across all relevant telemetry scopes, making it easier to monitor the issue in real-time.

Question: 25

HOTSPOT

You need to parse the API JSON response and retrieve each order no. in the response body. How should you complete the code segment? To answer select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

API ISON response

```
procedure ReacJsooData(Data: text)

    ITokpfl! 3MXf^0KVni JObjett: JionObjett;

    Subcontrxt ingorderto: code[M];
begin If Oeta - ” then
        *iAV
( /Token R?»jfrom{P?lj)
    /Token ReadFiom(Data)
    /Object ReadFfom(Data)
    I Object Get f Data I
    Koken Read* Data)
[ /Token SelectTokenfresultsj.
J /Object - ■                    oken).
        /token Select Tok en('results),
11 Token = /Object SelectToken( results i , /Array :• JToken.AsArrayO} foreach /Token in /Array do
begin
    subcontractIngOrderho := GetVa/MAstext(lToken, jrder no');
```

Answer:

Explanation:

API ISON response

```
procedure ReadJsonData(Data: text)
    var
        JToken: JsonToken;
        JObject: JsonObject;
        JArray: JsonArray;

        SubcontractingOrderNo: Code[20];
    begin
        if Data = '' then
            exit;
        [ JToken.ReadFrom(Data) ];
        [ JToken.SelectToken('results'); ];
        JArray := JToken.AsArray();
        foreach JToken in JArray do begin
            SubcontractingOrderNo := GetValueAsText(JToken,
'order_no');
nd)
```

Code Segment Analysis:

The AL code is trying to read JSON data from a response and process it to extract subcontracting order numbers. It uses JsonToken, JsonObject, and JsonArray to work with the JSON data. JToken.ReadFrom(Data): This line reads the incoming JSON data and converts it into a token. It processes the full JSON body so you can start working with it.

JToken.SelectToken("results"): This line selects the part of the JSON containing the results array. The key "results" is where the JSON response data is expected to be found.

JsonArray: Once the results are extracted, they are stored as an array, and each element in the array (which is expected to contain subcontracting order numbers) is processed.

SubcontractingOrderNo: The extracted order_no from the JSON is stored in this variable.

Breakdown of Steps:

JToken.ReadFrom(Data): This step reads the entire JSON response.

JToken.SelectToken("results"): This step selects the results array from the JSON response.

JArray.AsArray(): This step converts the selected results token into a JSON array that can be iterated over.

GetValueAsText(JToken, 'order_no'): This step retrieves the order_no from each element in the array.

Correct Code Completion:

JToken.ReadFrom(Data): This is the correct method to read the incoming JSON response, as it will convert the string into a JsonToken that can be further processed.

JToken.SelectToken("results"): This is the correct method to extract the results array from the token. This method looks for the key "results" in the JSON and retrieves the relevant array.

Final Code Segment: al

Copy code

```
procedure ReadJsonData(Data: text)
var
    JToken: JsonToken;
    JObject: JsonObject;
    JArray: JsonArray;
    SubcontractingOrderNo: Code[20];
begin
```

```
if Data = '' then
  exit;
JToken := JToken.ReadFrom(Data); // Step 1: Read the JSON response data.
JToken := JToken.SelectToken('results'); // Step 2: Select the "results" array.

JArray := JToken.AsArray(); // Convert the token into a JSON array.
foreach JToken in JArray do begin
  SubcontractingOrderNo := GetValueAsText(JToken, 'order_no'); // Retrieve the order number. end;
end;
```

JToken.ReadFrom(Data): This reads the raw JSON data string and converts it into a JSON token that can be processed.
JToken.SelectToken("results"): This extracts the results array from the JSON data.
JArray.AsArray(): Converts the token into an array so we can iterate over it.
GetValueAsText(JToken, 'order_no'): Extracts the order_no value from each item in the array.

Question: 26

HOTSPOT
You need to write an Upgrade codeunit and use the DataTransfer object to handle the data upgrade. Which solution should you use for each requirement? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Actions to set up the data upgrade topic

Requirement	Solution
Upqtade codeunit trigger	OnValidateUpqradePerDatabase *
	OnVahdateU pgr adePerCompany
	OnUpgradePer Database
	OnUpgradePeiCompany
DataT'ansfet method to use	Copy Rows ˅
	Copyf idds
	Set Tables
	Transfer Fields

Answer:

Explanation:

Actions to set up the data upgrade topic

Requirement	Solution
Upgrade codeunit trigger	OnValrdateUpqradePeiDatabaseW *
Databansfer method to use	CopyRows *

Upgrade codeunit trigger: OnValidateUpgradePerDatabase
Since the question specifies that you are handling data upgrades, and you need to use validation before upgrading at the database level, the correct choice is OnValidateUpgradePerDatabase. This method ensures that the upgrade process is validated before applying to the entire database, making it more efficient when data affects multiple companies or structures.
DataTransfer method to use: CopyRows
CopyRows is the appropriate method when you are handling large data transfers between tables, especially in an upgrade scenario where you are migrating or transferring data from one table to another. It copies entire rows of data and is optimal for bulk data operations during upgrades.

Topic 3, Fabrikam Inc

Company background and technical environment

Current environment

Fabrikam Inc. is a medium-sized company that plans to implement Dynamics 365 Business Central as an ERP system. The company has a development department that will help with the ERP implementation.
Most employees work remotely from different countries or regions and speak different languages.
The various locations and languages cause issues with the current on-premises software.

Planned improvements

Fabrikam Inc. plans to implement new and modern software to manage the company. The company wants to use Business Central
because it is cloud-based and meets all company requirements.
The company intends to improve reporting and integration functionality by using modern tools such as Power BI and APIs. To reduce the amount of information sent by email, the company plans to expose vendor information to be consumed from external users.

Technical specifications

The development department installed Visual Studio Code to create Business Central extensions so the ERP system could be customized according to company needs. All extensions must be developed for the Business Central 2024 wave 1 online version.
The development department plans to use telemetry to control the appropriate use of each new development and works directly in licensed sandbox environments supplied by Microsoft.
The following departments at Fabrikam Inc. have multiple requirements:

- Development
- Control
- Accounting
- Quality

Development department

The development department designed an extension for the purchase department. Because the developers plan to work with telemetry for monitoring operations, they need the Application Insights

information. To accomplish this, the department must add a setting in the corresponding file. The quality department does not want to receive any warning about the Application Insights setting when the extension is compiled.

Control department

The control department requires customization to Business Central by using a per-tenant extension (PTE) named Subcontract

Docs. The PTE includes a table named Subcontract Documents. The table has the following fields:

- ID: A unique identifier
- Subcontract No.: Related to the standard Vendors table
- Description: A short description of a received document
- Document: A media type that has the document
- Comments: Comments about the document
- Date: When the document was imported
- Amount: Amount related with the imported document
- Posted Indicates if the document is managed

The extension must be in English - United States (ENU) and Spanish Traditional Sort (ESP) so the application can be used in both languages. The translations must be on the table, not on the page, to avoid repeating them. The control department does not want to use translation files.

The control department manager requires a brief guide for the Description and Comments fields when employees create a new record so users know what to include in the fields. The guide must disappear as soon as users add a value in the fields.

The Subcontract Documents table must be displayed on a new page named Subcontract Document List through an action from the standard Vendor page.

The Amount field, included in the Subcontract Document List, must be formatted in bold format when the record is posted (field Posted = true).

The control department also requires a report to display a list of subcontract documents named Subcontract Documents Excel List. The report must meet the following requirements:

- Downloads a file only in Microsoft Excel.
- Includes a predefined format with two worksheets; one with the posted subcontract documents and another with the unposted subcontract documents.

Accounting department

The accounting department plans to use Power BI to analyze information generated by the control department.

The accounting department plans to expose an API named API Customer Lines. To improve the performance, the API must use read-only information and work with a Query object to summarize the data.

```
1   query 50168 NyQuery
* (
3       QueryType - API;
4       APIPublisher = 'Fabrikam';
5       APIGroup = 'Accounting';
6       APIversion = 'beta';
7       EntityName = 'customer';
8       EntitySetUame = ‘customers';
9       elements
1® {
11          dataitem(customer; Customer)
12              {
13                  column(customer_Number; "No.")
14                  {
15                  }
```

```
16              column (customerjiaine; Name)
17              {
18              }
19              dataitem(salesline;          "Sales    Line")
28              {
21                  DataltemLink ■ "Sell-to Customer No." = customer."No.";
22                  sqlJoinType      -   innerioin;
23                  column(qty;      "Outstanding Quantity")
24                  {
25                  }
26              }
27          }
28      }
29  }
```

The accounting department must expose data such as the following.

custonier_Number	customer_Name	qty
20000	Selangorian Ltd	900
30000	Blanemark Hifi	500
40000	Deerfield Graphics	250

The qty column must be the sum of the Outstanding quantity field of Sales Order Lines. It must be in descending order by quantity.

The department also exposes a page named Fabrikam Vendor API that includes vendor information from the Vendor table, such as number and name. The API must use the replica database to improve performance.

Because Fabrikam Inc. is based in multiple countries and regions, the company periodically must send accounting movements between two dates to the local tax offices named Fabrikam Accounting. The format for this file must be an XML file generated by an XMLport object. For security reasons, it is not possible to receive data from this XMLport.

The department has a version 1.0.0.1 installed for an extension named Quality Control. The department develops a new version 1.0.0.2 and uses a codeunit with the subtype Upgrade to update it. The department requires the values for AppVersion and DataVeision on the tnaaer OnUoaradePerCompany after using NavAocGetCurrentModuleInformation.

The generated XML file must have a schema like this:

The generated XML file must have a schema like this:

```
<?xml version="1.0" encoding="UTF-16" standalone-"no"?>
{root*
    {documentation*
        cdate*01/17/23</date>
        {amount* 128.48{/amount*
        <accountNo>14i30</accountNo>
    {/documentation*
    {documentation*
        <date>ei/17/23</date>
        {amount>128.40</amount*
        caccountho>50iiO{/accountNo>
    {/documentation*
{/root*
```

Quality department

The quality department requires that every new app or extension is designed to meet standard company guidelines. The quality

department plans to follow the standard Business Central data model. The quality development must be able to use triggers correctly.

The department must ensure that when a vendor is deleted, the system also removes each record in the Subcontract Documents table related to the vendor. If the subcontract document record has the field Posted = false, it must not be possible to delete the record.

Question: 27

HOTSPOT

You need to define the XML file properties for the accounting department.

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

NOTE: Each correct selection is worth one point.

XMLport properties

**xmlport 50100 “Fabrikam Accounting*

Caption - ‘Fabrikam Accounting;

Format - Xml: 3

Format = Fixed Text.

Format = VariableText

Format = Xml;

Direction = Both,

Direction - Both;

Direction = Export, Direction = Import **UseRequestPage = true;**

schema

text?1eme nt(root)

tab 1 ee lement (doc ument at ion Subcontract Documents

G/L Account GA Entry"

Explanation:

fieldelement(date; documentation."Posting Date")

Answer:

XMLport properties

xmlport 50100 “Fabrikam Accounting”

Caption - ‘Fabrikam Accounting'
Format = Xml;

Direction = Both; *
UseRequestPage • true;

schema
{
textelement(root)

tableelement(documentation “Subcontract Documents" ˅) {
fieldelement(date; documentation."Posting Date") 1

Question: 28

HOTSPOT
You need to assist the development department with setting up Visual Studio Code to design the purchase department extension, meeting the quality department requirements.
How should you complete the app.json file? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Development environment configuration

■' applicationInsightsConnectionStiing "Instrumentalionxey=243d2dc8 t>0e2....",
application! nsightsConnectionString
■■ applicationInsightsKey "target": Cloud

Cloud
Extension
OnPrem

Answer:

Explanation:
Development environment configuration

{

■ applicationInsightsConnectionStnng * ": "instrumentationKey=243d2dc8-60e2..
"target": Cloud ^ ,
"runtime": "13.0",

}

Question: 29

You need to add a property to the Description and Comments fields with corresponding values for the control department manager.
Which property should you add?

A. Description
B. Caption
C. ToolTip
D. InstructionalText

Answer: C

Explanation:

Question: 30

HOTSPOT
You need to create the code related to the Subcontract Documents table to meet the requirement for the quality department.
How should you complete the code segment? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Standard tnggers in code

codeunit 50100 Vendot

codeunrt 50100 Vendor

table 50100 "Vendor Control"

tableextension 50100 "Vendor Control" extends Vendor

tableextension 50100 "Vendor Control" extends Subcontract Documents'

trigger OnDeleteO

trigger QnDeleteQ

tugger OnModifyO

procedure OnDeleteSubcontractDocument()

var

SubcontractDocument: Record "Subcontract Documents";

errlbl: Label 'You cannot remove a vendor that has subcontract documents.'; begin

SubcontractDocument.SetRangef"Subcontract No.", reC."N0.");

subcontractDocument.5etRange("Posted", false);

if not subcontractDocument.lsEmpty then

error(errLbl)

confirm(errLbl)

error (errLbl)

I message(errLbl)

else begin

SubcontractDocument.SetRange(Posted);

if SubcontractDocument.Findset() then

subcontractDocument.DeleteAll();

end;

end;

Answer:

Explanation:

Standard tnggers in code

codeunit 50100 Vendor

{

trigger OnDelete()

var

subcontractDocument: Record "subcontract Documents';

errlbl: Label 'You cannot remove a vendor that has subcontract documents begin

SubcontractDocument.SetRange("Subcontract No.", rec."No.");

SubcontractDocument.SetRange("Posted", false);

if not SubcontractDocument.IsEmpty then

error(errLbl) ^

else begin

SubcontractDoc unent.SetRange(Posted);

```
if SubcontractDocument.FindSet() then
    SubcontractDocument.DeleteAllf):
```

Question: 31

You need to edit the code to meet the formatting requirements on the Subcontract Document List for the control department.

Which formatting should you use?

A.

```
heldi'Amount Re..Amount)

        Style = Strong;
        StyleExpr - RecPosted - true;
```

B.

```
field(Posted;Rec.Posted)

            Style = None;
            StyleExpr = Rec.Amount > 0;
```

C.

```
fieId(Amount; Rec.Amount)
        (
            Style = None;
            StyleExpr = Rec.Posted = true;
        }
```

D.

```
field(Posted;Rec.Posted) {
            Style ■ Strong;
            StyleExpr = Rec.Posted = true; V
```

E.

```
field(Amount; Rec.Amount)
        {
            Style = Strong;
            StyleExpr = true;
```

Answer: C

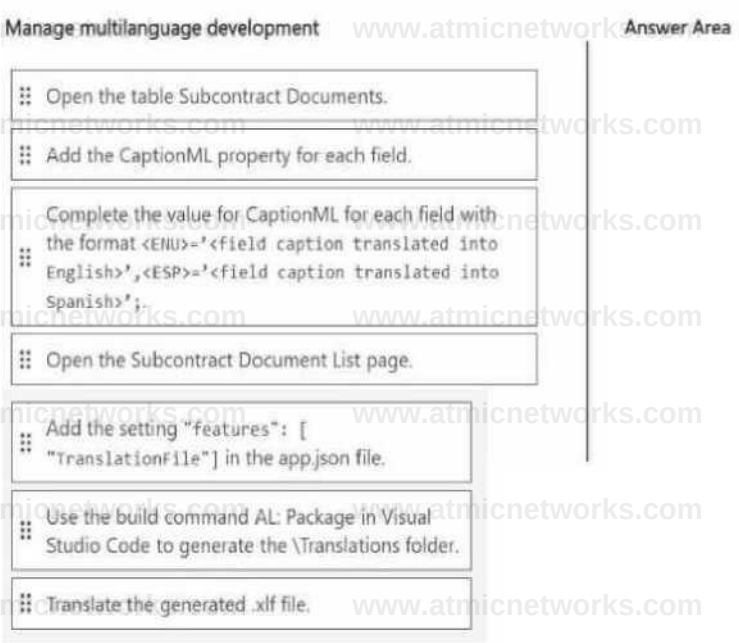
Explanation:

Question: 32

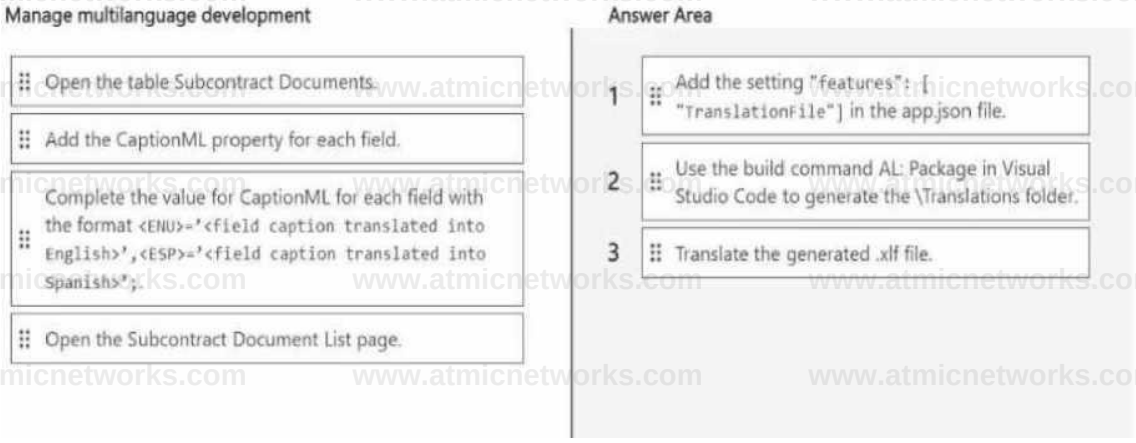
DRAG DROP

You need to configure the Subcontract Docs extension to translate the fields.

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.



Answer:



Question: 33

HOTSPOT

You need to create the Fabrikam Vendor API for the accounting department.

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

NOTE: Each correct selection is worth one point.

Using API pages

page 50101 "Fabrikam Vendor API"

page 50101 "Fabrikam Vendor API"

query 50101 "Fabrikam Vendor API" pageextension 50101 Fabrikam Vendor API

UEHangSEMJ

PageType = API,

QueryType = API

PageType = List;I

Caption • 'Fabrikam Vendor API';

APIPublisher - 'fabrikam';

APIGroup ■ 'control';

APIVersion = 'v?.0‘;

EntityName - 'vendor';

EntitySetName - 'vendors';

Source!able - Vendor;

Editable = false;

DataAccessIntent = Readonly,

DataAccessIntent = ReadWrite,

DataAccessIntent - Readonly;

InsertAllowed = false

ModifyAllowed = false;

layout

area(Content)

repeater(GroupName)

{

field(vendorNo; rec."No.")

{

caption = 'vendorNo';

}

field(vendorName; rec.Name)

Caption = 'Name';

}

Answer:

Explanation:

Using API pages

page 50101 "Fabrikam Vendor API*

PageType - API; T caption • 'Fabrikam vendor API’; APIPublisher - ’fabrikam';

```
APIGroup • 'control*;
APIVersion - *v2.0';
EntityName - 'vendor*;
EntitySetName - 'vendors'; sourceiable - vendor;
Editable = false;
DataAccessIntent = Readonly; ˅layout
areaiContent)

repeater(GroupName)
field(vendorNo; rec."No.")
caption = 'vendorNo';
}
field(vendorName; rec.Name) {
Caption = 'Name';
```

Question: 34

HOTSPOT

You need to modify the API Customer list code to obtain the required result.
For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Code to create API Customer Lines

Statements	Yes	No
Add two lines, one between lines 8 and 9 with orderBy - descending("Outstanding Quantity"); and another between lines 24 and 25 with Method - Sum;.	0	0
Add three lines: one between line 8 and 9 with orderBy ■ descending(qty);, another between line 22 and 23 with DataltemTableFilter * "Document Type" - filter('order');. and another between lines 24 and 25 with Hethod • Sum;		
Add three lines, one between lines 8 and 9 with OrderBy = descending(qty);, another between lines 22 and 23 with DataltemTableFilter - "Document type" - const('Order');, and another between lines 24 and 25 with Method - Sum;.		

Answer:

Explanation:

Code to create API Customer Lines

Statements	Yes	No
Add two lines, one between lines 8 and 9 with orderBy - descending("Outstanding Quantity"); and another between lines 24 and 25 with Method - Sum;.	©	O
Add three lines: one between line 8 and 9 with orderBy ■ descending(qty);, ® another between line 22 and 23 with DataltemTableFilter * "Document Type" - filter('order');. and another between lines 24 and 25 with Hethod • Sum;		
Add three lines: one between lines 8 and 9 with OrderBy = descending(qty);, another between lines 22 and 23 with DataltemtableFilter - "Document type" - const('Order');, and another between lines 24 and 25 with Method - Sum;.	®	

Question: 35

HOTSPOT

You need to develop the report Subcontract Documents Excel List that is required by the control department.

You have the following code:

```
1 report 50100 "Report Excel Layout"
2 {
3     Usagecategory - ReportsAndAnalysis;
4     ApplicationArea - All;
5     DefaultRenderingLayout - wordlayout;
6     Caption * 'Subcontract Documents Excel List';
7     dataset
8
9         dataitem(PostedDocuments; “Subcontract Documents*)
10
11                 DataltemTableview = where(Posted = const(true));
12                 column(ID; ID) { }
13                 column(Description; Description) { }
14                 column(Comments; comments) { }
15
16         dataltem(UnPostedDocuments; "Subcontract Documents")
17
18                 DataltemTableview » where(Posted - const(false));
19                 column(ID Unposted; ID) { )
20     columnist ription_UnPosted; Description) { } column(comments_Unposted; comments) ( )
21
22
23       rendering
24
25         layout(excelLayout)
26
27                 Type • Excel;
28                 LayoutFile - 'subcontratorDocuments.xlsx';
29
30         1ayout(wordL ayout)
31
32                 Type = Word;
33                 LayoutFile - 'subcontratorDocuments.docx’;
34
35
36
37 }
```

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

Code update for the Subcontract Documents Excel List

Statements	Yes	No
Delete lines 31 to 35 because that includes a Word report Change line 5 to DefaultLayout = Excel;.		

Delete lines 31 to 35 because that includes a Word report Change the line 5 to DefaultRenderingLayout=excelLayout; and add a new line after line 6 with ExcelLayoutKultipleDataSheets = true;.

Change the property on line 5 to	0 O

DefaultRenderingLayout-excelLayout; and add a new line after line 6 with the orooertv ExcelLavoutMultloleDataSheets - true;.

Answer:

Explanation:

Code update for the Subcontract Documents Excel List

Statements	Yes	No
Delete lines 31 to 35 because that includes a Word report Change line 5 to DefaultLayout = Excel;.	O	®
Delete lines 31 to 35 because that includes a Word report Change © the line 5 to DefaultRenderingLayout-excelLayout; and add a new line after line 6 with ExcelLayoutHultipleOataSheets * true;.		
Change the property on line 5 to DefaultRenderingLayout-excelLayout; and add a new line after line 6 with the orooertv ExcelLavoutMultloleDataSheets - true;.	O ®	

Question: 36

You need to evaluate the version values of the Quality Control extension to decide how the quality department must update it.

Which two values can you obtain in the evaluation? Each correct answer presents part of the solution. Choose two.

NOTE: Each correct selection is worth one point.

A. AppVersion - 1.0.0.1
B. AppVersion = 1.0.0.2
C. DataVersion = 0.0.0.0
D. DataVersion = 1.0.0.1
E. DataVersion = 1.0.0.2

Answer: A, C

Explanation:

Topic 4, Misc. Questions

Question: 37

You are developing an app that will be published to Microsoft AppSource.

The app requires code analyzers to enforce some rules. You plan to add the analyzers to the settings.json file. You need to activate the analyzers for the project.

Which three code analyzers should you activate to develop the app for AppSource? Each correct answer presents part of the solution

NOTE: Each correct selection is worth one point.

A. CodeCop
B. UICop

C. a custom rule set
D. PerTenantExtensionCop
E. AppSourceCop

Answer: B, D, E

Explanation:
When developing an app for Microsoft AppSource, it is crucial to adhere to specific guidelines and standards to ensure compatibility and compliance. The three code analyzers you should activate are: CodeCop (A): This is the default analyzer for AL language extensions. It enforces the AL Coding Guidelines, ensuring that the code follows best practices for readability, maintainability, and performance. It checks for a wide range of issues, from syntax errors to best practice violations, making it essential for any AL development.
PerTenantExtensionCop (D): This analyzer is specifically designed for extensions that are intended to be installed for individual tenants. It includes rules that ensure the extension does not interfere with the per-tenant customizations and adheres to the guidelines for extensions that can be safely installed and uninstalled without affecting the underlying application.
AppSourceCop (E): This analyzer is tailored for extensions that are intended for publication on Microsoft AppSource. It enforces additional rules that are specific to AppSource submissions, such as checking for the use of reserved object ranges and ensuring that all prerequisite dependencies are correctly declared. This is crucial for ensuring that your app meets all the requirements for listing on AppSource.
By activating these three analyzers, developers can ensure their app adheres to the standards required for AppSource, as well as maintain high code quality and compatibility with Business Central.

Question: 38

You are developing an app.
You plan to publish the app to Microsoft AppSource.
You need to assign an object range for the app.
Which object range should you use?
A. custom object within the range 50000 to 59999
B. custom object within the range 50000 to 99999
C. divided by countries and use specific a country within the range 100000 to 999999
D. an object range within the range of 7000000 to 74999999 that is requested from Microsoft
E. free object within the standard range 1 to 49999

Answer: D

Explanation:
When developing an app for Microsoft AppSource, it is essential to use an object range that is specifically designated by Microsoft to avoid conflicts with other apps and the base application. The correct object range to use is:
An object range within the range of 70000000 to 74999999 that is requested from Microsoft (D): This range is reserved for AppSource apps. Developers need to request this range from Microsoft to ensure that the objects used in their extension do not conflict with those used by other extensions or
by the base application. Using this reserved range helps maintain the integrity and compatibility of extensions published on AppSource.
It's important to note that the other ranges mentioned (A, B, C, and E) are not suitable for apps intended for AppSource. Ranges 50000 to 59999 and 50000 to 99999 are typically reserved for pertenant customizations or partner solutions, not for distribution on AppSource. The standard range 1 to 49999 is reserved for the base application objects, and using an object range divided by countries (C) is not a standard practice for AppSource apps.

Question: 39

A company is deploying Business Central on-premises.
The company plans to use a single-tenant deployment architecture.
You need to describe how the data is stored and how the Business Central Server is configured.
In which two ways should you describe the single-tenant architecture? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.

A. Each customer has their own Business Central Server.
B. The application and the business data are stored in the same database.
C. Multiple customers share a single Business Central Server.
D. The application and business data are stored in separate databases.
E. Multiple customers share multiple Business Central Server instances.

Answer: A, B

Explanation:
In a single-tenant deployment architecture of Business Central on-premises, the following characteristics describe how the data is stored and how the Business Central Server is configured: The application and the business data are stored in the same database (B): In a single-tenant architecture, each tenant (which typically corresponds to a single customer) has its own dedicated database. This database contains both the application objects (such as pages, reports, codeunits, etc.) and the business data (such as customer, vendor, and transaction records). This setup ensures that each tenant's data is isolated and can be managed independently.
The application and business data are stored in separate databases (D): While (B) is a characteristic of a single-tenant deployment, it's important to clarify that in some configurations, the application objects can be stored in a separate database from the business data. This approach can be used for easier maintenance and upgrades of the application code without affecting the business data. However, each tenant still has its own set of databases, maintaining the single-tenancy model.
The other options provided do not accurately describe a single-tenant architecture:
Each customer has their own Business Central Server (A): This statement might be misleading. In a single-tenant deployment, while each customer has their own database, they do not necessarily have their own Business Central Server instance. Multiple databases (tenants) can be hosted on a single server instance, although they are not shared across customers.
Multiple customers share a single Business Central Server (C) and Multiple customers share multiple Business Central Server instances (E): These options describe a multi-tenant architecture rather than a single-tenant one. In a multi-tenant setup, multiple customers (tenants) can share the same server instance and even the same application database, with data isolation ensured at the application level.

Question: 40

DRAG DROP
A company plans to deploy Business Central.
The company has the following deployment requirements:

- Use the company hardware architecture to run the deployment.
- Use sandbox environments to develop extensions.
- Allow tenants to connect to Shopify with the standard connector.
- Use Microsoft Power Automate to create a workflow that calls a business event.

You need to identify the deployment type for each requirement.

Which deployment types should you use? To answer, move the appropriate deployment types to the correct requirements. You may use each deployment type once, more than once, or not at all.

Answer:

Explanation:

Use the company hardware architecture to run the deployment: On-premises

Use sandbox environments to develop extensions: Online

Allow tenants to connect to Shopify with the standard connector: Online

Use Microsoft Power Automate to create a workflow that calls a business event: Online

When deploying Microsoft Dynamics 365 Business Central, there are two main deployment types to consider: On-premises and Online.

On-premises Deployment:

The requirement to use the company's hardware architecture implies a need for an on-premises deployment. This is because on-premises deployment allows for the application to be installed and run directly from the company's in-house servers and computing infrastructure, giving full control over the environment and data.

Online Deployment:

The use of sandbox environments for developing extensions is a feature provided in the online version of Business Central. Sandbox environments are a part of the service offered in the cloudbased version, which allows developers to test and develop without affecting the live environment. Connection to Shopify with the standard connector implies an online deployment. The standard connector is typically a cloud-based service that allows Business Central to connect with other cloud platforms like Shopify, which is more seamlessly integrated with the online version.

Lastly, the use of Microsoft Power Automate to create a workflow that calls a business event suggests an online deployment. Power Automate is a cloud-based service designed to create automated workflows between applications and services - which aligns with the services provided by the online version of Business Central.

Therefore, each requirement aligns with the deployment types as indicated above.

Question: 41

DRAG DROP

A company is examining Connect apps and Add-on apps for use with Business Central.

You need to describe the development language requirements for Connect apps and Add-on apps.

How should you describe the app language requirements? To answer, move the appropriate app types to the correct descriptions. You may use each app type once, more than once, or not at all. You may need to move the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

App types

Add-on app Connect app

Connect app and Add-on app descriptions

Deacription	App type
Developed by using any coding language	Connect app
Developed by using AL language in Visual Studio Code Add-on app	

Developed by using any coding language: Connect app
Developed by using AL language in Visual Studio Code: Add-on app

In Microsoft Dynamics 365 Business Central, there are distinct types of applications that can be developed: Connect apps and Add-on apps. Each has its own development language requirements: Connect apps: Connect apps are designed to connect Business Central with external services or applications. They are often developed using a variety of programming languages, not limited to the AL language, and can be hosted outside of the Business Central environment. Therefore, when a description states that the app is developed using any coding language, it generally refers to a Connect app. This type of app integrates with Business Central through APIs and web services.

Add-on apps:

Add-on apps are built to extend the functionality of Business Central within the application itself. These are developed using the AL language, which is the programming language for Business Central, and they are created and managed within the Visual Studio Code environment with the AL Language extension. An Add-on app is typically a Business Central extension that is directly installed into the Business Central environment.

The language and environment used for developing these apps are key differentiators between Connect apps and Add-on apps.

Question: 42

DRAG DROP

A company is implementing Business Central.

In the per-tenant extension, TableA Header and TableA Line are document tables, and TableB Header and TableB Line are document history tables.

The company requires that the resulting dataset of query objects contain the following records:

- All records from TableA Header even if no matching record value exists in the linked TableA Line
- Records from TableB Header where a match is found in the linked TableB Line field

You need to configure the linked data item to generate the required dataset.

Which SqlJoinType should you use? To answer, move the appropriate SqUoinTypes to the correct dataset requirements. You may use each SqlJoinType once, more than once, or not at all. You may need to move the split bar between panes or scroll to view content.

Sql Join Types

I CrossJoin

Inner Join

LeftOuterJoin

FbghtOuterJoln

link data items

Dataset requirement	SqUoinType
include all records from TableA Header.	
Indude only matched records from TableB Header |	

Answer:

Explanation:

Sql JoinTypes

I GossJoin

Inner ioin

LeftOuterJoin

FUghtOuterJoin

link data items

Dataset requirement	SqUoinType
indude all records from TableA Header.	LeftOuteUom
Indude only matched records from TableB Header [Inner Join	

Include all records from TableA Header even if no matching record value exists in the linked TableA Line: LeftOuterJoin
Include only matched records from TableB Header: InnerJoin

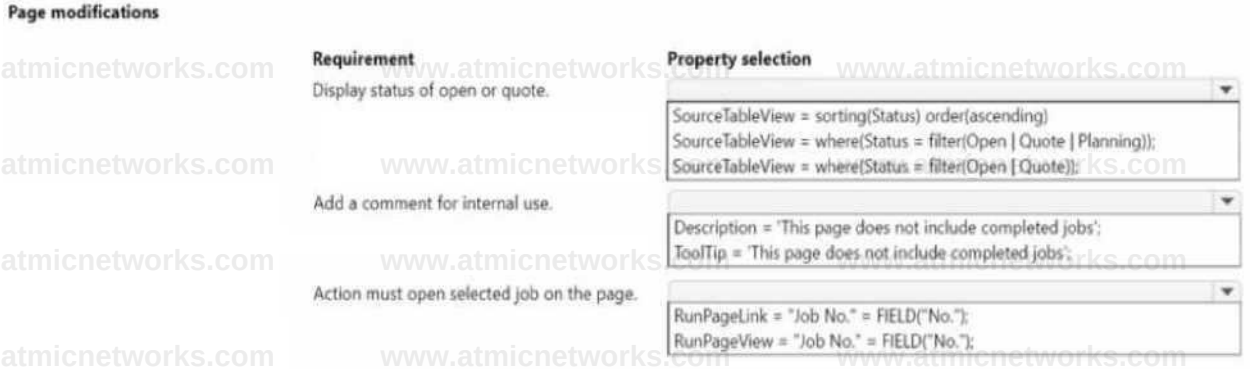
In SQL and similarly in Business Central when defining table relationships in query objects, the type of join determines how records from one table are combined with records from another table. Here's what each join type means in the context of the company's requirements: LeftOuterJoin:
A LeftOuterJoin includes all records from the 'left' table (TableA Header) and the matched records from the 'right' table (TableA Line). If there is no match, the result is NULL on the side of the 'right' table. This is why it fits the requirement to include all records from TableA Header even if there is no matching record in TableA Line.
InnerJoin:
An InnerJoin includes records when there is at least one match in both tables. So, it will only include records from TableB Header where a corresponding match is found in TableB Line. If there is no match, the records from TableB Header will not appear in the result set. This aligns with the requirement to include only matched records from TableB Header.
By using these join types, the company can ensure that their dataset includes the appropriate records from the document tables and document history tables according to their specified requirements.

Question: 43

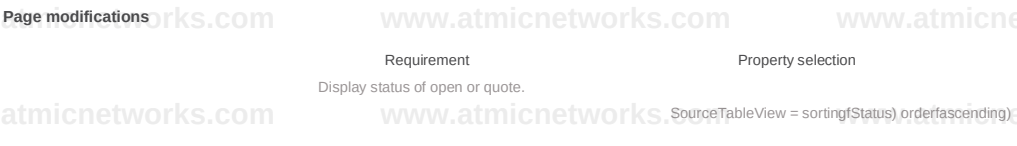
HOTSPOT
A company has a page named New Job Status connected to a source table named Job. The page has an action named Item Ledger Entries. The company requires the following changes to the page:

- Filter the page to display only jobs with open or quote status.
- Add the following comment for internal use: This page does not include completed jobs.
- Item Ledger Entries action must open the selected job on the page and display it in the UI for users to modify.

You need to select the property selections to use for each requirement.
Which property selections should you use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.



Answer:
Explanation:



fouir^tihlrVMi ; whwnyMiii ; filwinmn I Quote I Manning)) j SourceTableView »

wherefStatus | filterlOpen | Quoltlt^j

Add a comment for internal use

ToolTip » 'This page does not include completed jobs;]

Action must open selected job on the page f ■ »

[tunljvlmi : lob No ' = HEIDI No]

ptunPageView - IOD NO. - num NO I

Question: 44

A company plans to meet new regulatory requirements.

The regulator has issued new tax tiers.

You need to update the base application table by using a table extension.

Which table field property can you change?

A. CalcFormula
B. DecimalPlaces
C. BlankZero
D. AutoFormatType

Answer: C

Explanation:

When updating the base application table using a table extension in Microsoft Dynamics 365 Business Central, certain properties of table fields can be modified to meet new requirements, such as regulatory changes. The DecimalPlaces property (B) is one such property that can be adjusted in a table extension. This property determines the number of decimal places that are displayed and stored for decimal fields in the table. Adjusting the DecimalPlaces property can be particularly useful when dealing with financial data and tax calculations that require precision to meet new tax tiers set by a regulator. It's important to note that not all properties can be modified in a table extension; for example, the CalcFormula property (A) cannot be changed as it affects how the field's value is calculated, which could have significant implications on the base application's logic.

Question: 45

HOTSPOT

You have the following XML file sample for the Items list:

```
<Ite«>
    <Ite« »to=*i(W>
      <Description*Tablet/Description>
    </Itei»*
    cite* »to*"lDOr>
      (Description>Chair</Description>
    </Itt«>
    <Iten Ho="10er>
      <Description>Sofa</Description>
    </Ite«>
</Ite«ns>
```

You plan to create the next XML file by using an XMLport object.

You need to complete the code segment to export the file in the required format

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

Node types

```
schema
{
    textelement(Items)
    {
        [Item; Item)
        Fieldattribute
        Fieldelement
        Tableelement
        Textelement
        {
            [No; Item."No.")
            Fieldattribute
            Fieldelement
            Textattribute
            Textelement
            { }
            [Description; Item.Description)
            Fieldattribute
            Fieldelement
            Textattribute
            Textelement
        }
    }
}
```

Answer:

Explanation:

Node types

S<he«4

textelment(Itw)
{ ^(Iteo; Itn»)
F>eWa (tribute
Fiekielemont
(Tableelement J

^_(Ho; Ite»."Ho.') FieldatInbute Fieldelement J
Textattribute Textelement

( ) ^(Description; Itee.Descript ion) FieWattribute
| Fieldelement J Textattribute
Text element

)
}
}

Question: 46

DRAG DROP

A company has the following custom permission set:

permissionset 50080 "Sales Person Permission Set"

Assignable ■ false;

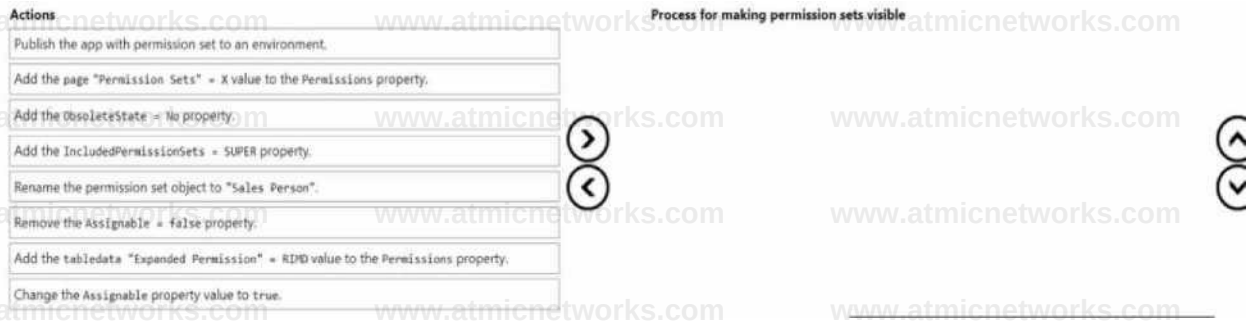
```
    Caption • 'Sales Person Permission Set*;

    Permissions ■
        tabledata Customer = RIMD,
        tabledata "Payment Terms" » PHD, tabledata Currency ■ RM, tabledata "Sales Header" > RIM,
        tabledata "Sales Line" • RIHO;
)
```

You need to make the permission set visible on the Permission Sets page.

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.

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



Answer:

Explanation:

To make the permission set visible on the Permission Sets page, perform the following actions in sequence:

Change the Assignable property value to true.

Add the ObsoleteState = No property.

Publish the app with the permission set to an environment.

Process for making permission sets visible:

In Business Central, the Assignable property determines whether a permission set is shown in the user interface for assigning to users. By default, if Assignable is set to false, the permission set is hidden. Therefore, it should be set to true to make the permission set visible.

The ObsoleteState property indicates whether an object is outdated (Obsolete) or not (No). If an object is marked as obsolete, it is typically hidden from the user interface. Therefore, setting ObsoleteState = No ensures that the permission set is not treated as outdated and remains visible. Finally, publishing the app with the permission set to an environment updates the environment with the new or modified objects, including permission sets, making them available for assignment to users.

Question: 47

DRAG DROP

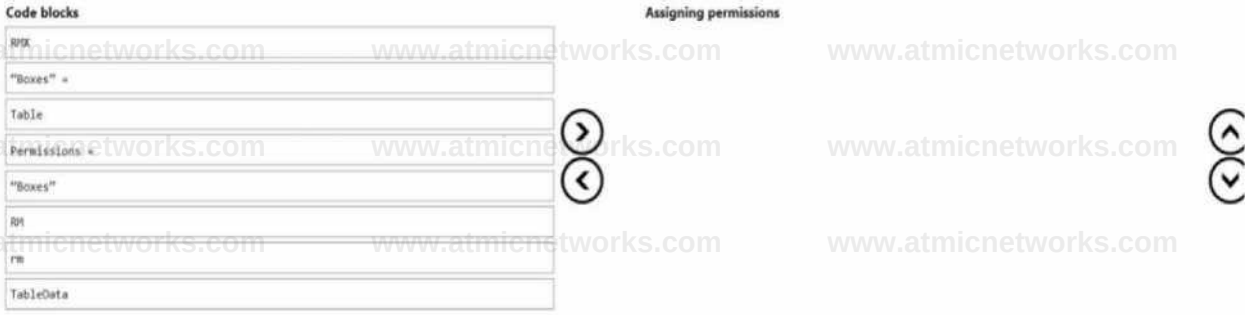
You create a codeunit that works with a table named Boxes. You plan to filter the records and then modify them.

You get an error that you do not have permission to work with the Boxes table.

You need to assign the Indirect permissions for the Boxes table to the codeunit.

Which four code blocks should you use in sequence to assign the correct permission? To answer, move the appropriate code blocks from the list of code blocks to the answer area and arrange them in the correct

order.



Answer:

Explanation:
To assign the indirect permissions for the Boxes table to the codeunit, use the following code blocks in sequence:
TableData "Boxes" = Permissions RIM
Assigning permissions:
In Business Central, to assign permissions within a codeunit, you need to specify the table that the permissions apply to, followed by the type of permission. The sequence starts by indicating that we are defining table data permissions (TableData). Then, we specify the table in question ("Boxes" =). After that, we state that we are setting permissions (Permissions). Finally, we assign the RIM permissions, which stands for Read, Insert, and Modify permissions. The Indirect permission allows the codeunit to read, insert, and modify records in the Boxes table indirectly, meaning these operations can be performed by the codeunit when it is called by a user who has direct permissions for these operations.

Question: 48

You create a Business Central report.
You need to insert values on the Request page to be saved for the next time the report is run. What should you do?

A. Set the Transact! on Type property to Update.
B. Declare a Savevalues' variable and assign it to true on the OnOpenPage () trigger.
C. Set the Use Request Page property to true.
D. Set the SaveValues property to true.

Answer: B

Explanation:
To ensure that the values inserted on the Request page of a Business Central report are saved for the next time the report is run, the SaveValues property (D) should be set to true. This property is available on the Request page of the report and, when set to true, allows the system to remember the values entered by the user, so they do not have to re-enter them each time they run the report. This feature enhances user experience by reducing repetitive data entry and ensuring consistency in report parameters across multiple executions. The other options mentioned, such as setting the Transaction Type property to Update (A) or declaring a Savevalues variable in the OnOpenPage trigger (B), are not directly related to saving user input on a report's Request page.

Question: 49

You plan to write unit test functions to test newly developed functionality in an app.
You must create a test codeunit to write the functions.
You need to select the property to use for the test codeunit.

Which property should you use to ensure that the requirements are fulfilled?

A. SubType
B. Access
C. Description

Answer: A

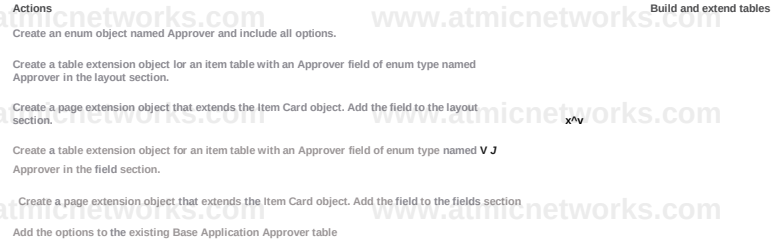
Explanation:
When creating a test codeunit in Microsoft Dynamics 365 Business Central to write unit test functions, the SubType property (A) of the codeunit should be set to Test. This property is crucial for defining the codeunit's purpose and behavior within the application. By setting the SubType property to Test, you are indicating that the codeunit contains test functions intended to validate the functionality of other parts of the application, such as customizations or new developments. This distinction ensures that the testing framework within Business Central recognizes the codeunit as a container for test functions, allowing it to execute these functions in a testing context, which can include setting up test data, running the tests, and cleaning up after the tests have completed.

Question: 50

DRAG DROP
A company owns and operates hotels, restaurants, and stores.
When the staff orders materials from the purchasing department, the requests are not directed to the correct approvers.
The staff requires a new field named Approver from which they can select the appropriate approver.
The field must include the following options:

- Hotel manager
- Restaurant manager
- Store manager
- Purchasing manager

You need to create the Approver field in the Item table by using an AL extension.
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.



Answer:

Explanation:
To create the Approver field in the Item table using an AL extension, perform the following actions in sequence:
Create an enum object named Approver and include all options.
Create a table extension object for an Item table with an Approver field of enum type named Approver in the fields section.
Create a page extension object that extends the Item Card object. Add the field to the fields section. Build and extend tables:
To add a new field to an existing table in Business Central using AL extension, you need to define an enumeration

(enum) with the possible values for the new field. Then, you create a table extension object where you add the new field and specify its type as the enum you created. This adds the field to the Item table. Finally, you modify the user interface to display the new field by creating a page extension for the Item Card page and adding the new field to it.

Question: 51

DRAG DROP

You create the following Vendor table and Item table in Business Central.

Vendor

Vendor No	Vendor Name
V0001	Contoso
V0002	Fabrikam
VOOOJ	Relecloud

You require the following data set to assign vendors to items.

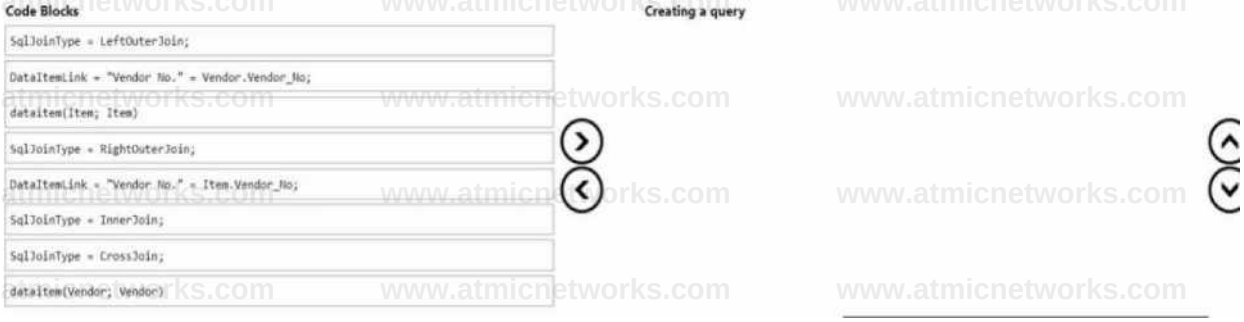
Item:

Item No.	Item Description	Vendor No.
1000	Table	V0001
1001	Chair	V0002
1002	Shelf	V0001
1003	Sofa	V0002
1004	Bed	V0004

You need to create a query to assign the vendors.

Vendor No	Vendor Name	Item No	Item Description
V0001	Contoso	1000	Table
V0001	Contoso	1002	Shelf
V0002	Fabrikam	1001	Chair
V0002	Fabrikam	1003	Sofa

Which three code blocks should you use to develop the solution? To answer, move the appropriate code blocks from the list of code blocks 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.



Answer:

Explanation:

To create a query that assigns vendors to items in Business Central, use the following code blocks in sequence:

dataitem(Vendor; Vendor)

dataitem(Item; Item)

DataItemLink = "Vendor No." = Item.Vendor_No;

Creating a query:

In Business Central, a query object is used to combine data from multiple tables. You start by specifying each table as a data item. In this case, you would start with the Vendor table and then the Item table. After specifying the data items, you need to link them together. The DataItemLink property is used to establish a relationship between two data items based on a common field. Here,

you are linking the Vendor and Item tables on the "Vendor No." field, which is present in both tables. This link ensures that the query will return a dataset that includes related records from both tables based on the vendor number. The order of the code blocks ensures the logical flow and relationships between tables as required for the query.

Question: 52

DRAG DROP

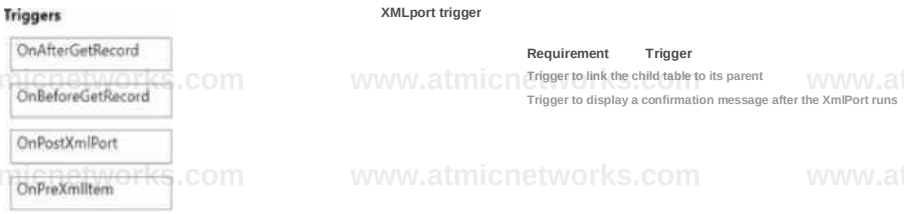
You are developing an XMLport to export data from the parent Item table and a related child "Item Unit of Measure' table. The XMLport configuration must provide the following:

- Link the child table to its parent.
- Display a confirmation message after the XMLport runs.

You need to generate the XMLport.

What should you do? To answer, move the appropriate triggers to the correct requirements. You may use each trigger once, more than once, or not at all. You may need to move the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:

To meet the XMLport configuration requirements:

Link the child table to its parent: Use the OnAfterGetRecord trigger.

Display a confirmation message after the XMLport runs: Use the OnPostXMLPort trigger.

In Business Central, when you are developing an XMLport for data export, triggers are used to perform actions at different stages of the XMLport's operation:

OnAfterGetRecord Trigger:

This trigger fires after a record is retrieved from the database but before it is processed for output in the XMLport. It is the ideal place to link child table records to their parent because you have access to the current record that can be used to set filters or modify data in the child table before it is written to the XML file.

OnPostXMLPort Trigger:

This trigger fires after the XMLport has finished processing all records. It is the correct place to display a confirmation message because it ensures that the message will appear after the entire XMLport operation is complete. Here, you can use application-specific functions to show the message, such as MESSAGE function in AL code.

By placing the appropriate triggers in these positions, you can ensure that the XMLport will link the child records

to their parent records during the data export process and will notify the user with a confirmation message once the operation is successfully completed.

Trigger*	XMLport trigger	Requirement Trigger
OnAfterGetRecord		Trigger to link the child table to its parent Trigger Trigger to display a confirmation message after the XmlPort Trigger runs
OnBdoreGetRecord		
OnPostXmlPoTt		
OnPreXmlhem		

Question: 53

HOTSPOT

You have a per tenant extension that contains the following code.

```
10  interface "IDiscount Calculation*
11  (
12      procedure GetLine(var Line: Variant)
13      procedure 6etDiscount() : Decimal
W 1
15 codeunit 50100 'Discount Mgmt.* implements "IDiscount Calculation"
16  (
17  procedure GetLine(var VariantLine: Variant)
18      begin
19      end;
20      procedure    GetDiscount()   DiscountAmount   :Decimal
21      begin
22      end;
23      procedure    DiscountIsValid(DocumentDate:  Date):      Boolean
2d      begin
25      end;
* )
```

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

NOTE: Each correct selection is worth one point.

Interface implementation

Statement	Yes	No
Codeunit 'Discount Mgmt.' compiles successfully.		
Variantline in line 17 must be changed to Line and the DIscountAmount removed (or the codeunit to compile.		
The DiscountIsValid method must be defined in the interface for the code to compile		

Answer:

Explanation:

Codeunit "Discount Mgmt." compiles successfully. = NO

VariantLine in line 17 must be changed to Line and the DiscountAmount removed for the codeunit to compile. = NO

The DiscountIsValid method must be defined in the interface for the code to compile. = YES

The codeunit "Discount Mgmt." will not compile successfully as is because the DiscountIsValid method is not defined in the "IDiscount Calculation" interface, yet it is being declared in the codeunit

which implements this interface. AL requires that all procedures in the codeunit that implements an interface must be defined in the interface itself.

The VariantLine in line 17 does not need to be changed to Line, nor does the DiscountAmount need to be removed for the codeunit to compile. These are valid declarations in AL and they are correctly implemented in the codeunit. The Variant data type in AL is used to handle various data types and DiscountAmount is a valid return type for a procedure.

For the code to compile successfully, the DiscountIsValid method must be included in the interface because AL enforces that any codeunit implementing an interface must implement all the methods defined in that interface.

Question: 54

HOTSPOT

You create a query that contains a procedure to display the top customers.

The procedure breaks at runtime.

```
01 procedure RunTopCustomerOverviewO 02 var
03 TopCustomerOverview: Query "Top Customer Overview";
04 TextOOGMsg: Label 'Customer nene ■ %1, Sales ■ V, Comment ■ 'JU specifies customer name, %2 specifies customer sales 05 bejin
06        TopCustomerOverview.SetFilter($ales_LCY, •>10000);
07 while TopC us tamerOverview. Re ad () do
08        Message(Text000Msg, TopC ustowerOverv lew Jiame, TopCustomerOverview. Sales.LCY);
09        TopC us towerOverv lew. C lose ();
10 end;
```

You need to fix the code.

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

NOTE: Each correct selection is worth one point.

Creating a query

Statement	Yes	No
Enclose line 08 into BEGIN.. ENO		
Add TopCustooerOverview.Open(); before Top£usto»erOvervie»<.SetFilter(Sales_LCY, •>10000'); in line 06.		
Add TopCustoeerOverview.Openf); after Top<usto«erOverview.$etFilter(Sales_LCV, '>10000'); in line 06.		
Replace Set Filter In line 06 with SetRange		

Answer:

Explanation:

Enclose line 08 into BEGIN .. END = NO

Add TopCustomerOverview.Open(); before = YES

TopCustomerOverview.SetFilter(Sales_LCY, '>10000'); in line 06.

Add TopCustomerOverview.Open(); after TopCustomerOverview.SetFilter(Sales_LCY, '>10000'); in line 06. = YES

Replace SetFilter in line 06 with SetRange. = NO

The code provided has a runtime error because the query TopCustomerOverview must be opened before it can be read from. Therefore, TopCustomerOverview.Open(); should be added before trying to read from the query, which is not present in the code.

Enclosing line 08 into a BEGIN .. END block is unnecessary because it is a single statement, and AL does not require a BEGIN .. END block for single statements within trigger or procedure bodies.

TopCustomerOverview.SetFilter(Sales_LCY, '>10000'); is a correct method to set a filter for the query, and using SetRange instead is not necessary unless the requirement is specifically to set a range of values, which is not indicated in the procedure's description.

In summary, for the procedure to run correctly, the query must be opened after setting the filter and before attempting to read from it. The SetFilter method is correct for the intended operation, and there's no requirement to use SetRange or to enclose the Message call in a BEGIN .. END block.

Question: 55

HOTSPOT

A company plans to customize its per tenant extension reports. The company has the following requirements for the customization:

- Child data items must not be displayed on the request page for some master detail reports.
- Selecting key filter fields takes users too much time. The customization must decrease the amount of time to select the fields.

You need to optimize the report request page.

Which actions should you configure? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Report request page

Observation	Action
Child data Items of some master detail reports must not be	displayed on the request page-_____ Set the PrintOnlyIfDetail property to true.
	Set the UseRequestPage property to true, Set the Data Item Tabi eView sorting property Set the Oat a Item Lin ((Reference property to the parent data item
Decrease the amount of time to select filter fields	[Set the Save Values Property to true Specify the request page options. Specify the Reque$tFilte<Field$ property. Specify the RequestFilterHeading property.

Answer:

Explanation:

For the given requirements, you should configure the following actions:

For child data items not to be displayed on the request page for some master-detail reports, set the DataItemLinkReference property to the parent data item.

To decrease the amount of time to select key filter fields, specify the RequestFilterHeading property.

In Dynamics 365 Business Central, when customizing report request pages, certain properties can be set to control the behavior and display of the report options:

Hiding Child Data Items:

The DataItemLinkReference property is used to link a child data item to a parent data item in the data model of a report. Setting this property correctly will ensure that the child data items are related to the correct parent data item and will be displayed or hidden accordingly on the request page. If the goal is to prevent child data items from being displayed, you need to make sure they are correctly linked and configured to not appear.

Optimizing Filter Field Selection:

The RequestFilterHeading property is used to group filter fields on the request page. By specifying this property, you can create a more organized and user-friendly interface, which can significantly speed up the process of selecting filters. This property allows you to categorize filters into headings, making it quicker and easier for users to find and set the necessary filters for the report.

By adjusting these properties on the report request page as part of the per tenant extension

customization, you will address the company's requirements to optimize the user experience when running reports.

Question: 56

HOTSPOT

A company uses Business Central. The company has branches in different cities.

A worker reports that each time they generate a daily summary report they get an error message that they do not have permissions.

```
15  local procedure GetLogisticsChargeO LogisticsCharge- DeciKal;
16      var
17              LogisticsSetup: Record “Logistics          Setup*;
18      begin
19              LogistIcsSetup.6et();
20              LogisticsCharge ;= LogisticsSetup.‘Logistics              Charge';
21      end;
```

You need to resolve the issue.

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

NOTE: Each correct selection is worth one point.

Method attributes

Statement	Yes	No
Configure [InherentPemissions(PemissionObjectType:.Table, Database;:"Logistics Setup", 'x', InberentPemissionsScope: : Both)) above line 15.	0	o
Configure (InherentPemiss ions (Remiss ionObject Type: Tabi eDat a, Database::“logistics Setup", '•', InberentPemissionsScope: Remissions)] above line 15.		
Configure (InherentPemiss ions (Pemiss ionOb jectType: TableData, Database "Logistics Setup", ‘r‘, InberentPemissionsScope::Both)] above line 15.		
Configure (InherentPemissions(PemissionObjectType: .Table, Database::"logistics Setup". ‘X’. InberentPemissionsScope:Remissions)] above line 15.		

Answer:

Explanation: □ **Method attributes**

Statement	Yes	No
Configure [1 nhe rentPe miss ions (Pe miss. ionObject Type:: Table, Database ::‘ Logist ics Setup*, *', InherentPemissiDnsScopei:Bath)] above lin^ 15.	O	O
Configure [InherenlPemissions (PemusionObjeclType; zlableDeta, Database-"logistics Setup", 'R\ Inhere nt Pern! ssiansScope:: Pern Inions}) above line 15.	O	O
Configure [InherentPemi wicns (PemissionObjeetType:.TableData, Database:: “Logistics Setup", ‘r\ Inherent Pern Its ion (Scope: .Both)] above line 15.	O	O
Configure [InherentPemi salons (PemissiOHObiectType:. Table, Database — "Logistics Setup". X'. InberentPemissionsScope: Remissions)] above line 15.	O	O

Question: 57

You are exporting data from Business Central.

You must export the data in a non-fixed length and width in CSV format.

You need to generate an XMLport to export the data in the required format Which Format property value should you use?

A. XML

B. VariableText

C. FixedText

Answer: B

Explanation:

When exporting data from Business Central and the requirement is for the data to be in a non-fixed length and width CSV format, the Format property of the XMLport should be set to VariableText (B). The VariableText format

is designed for handling data exports where the fields are separated by a delimiter, such as a comma or tab, which is typical of CSV (Comma-Separated Values) files. This format allows for the flexibility needed when dealing with varying field lengths, as it does not enforce a fixed width for each field, making it ideal for CSV data exports. Setting the Format property to FixedText (C) would enforce a fixed width for each field, which is not suitable for CSV files, while the XML format (A) is used for exporting data in an XML structure, which is different from the CSV format requirements.

Question: 58

You are creating an entitlement object in Business Central to enable transactability for AppSource apps.
You must map the entitlement object to a plan in Partner Center.
You need to select the value of the Type property to use in the entitlement object.
Which value should you use?

A. PerUserServicePlan
B. Implicit
C. Unlicensed
D. Role

Answer: A

Explanation:
In Business Central, when creating an entitlement object to enable transactability for AppSource apps and mapping it to a plan in Partner Center, the Type property of the entitlement object should be set to PerUserServicePlan (A). The PerUserServicePlan type is used to define an entitlement that is based on a service plan, which is typically how transactability features are managed for apps distributed through AppSource. This type of entitlement allows for the mapping of specific features or capabilities of the app to a service plan in Partner Center, enabling granular control over what users are entitled to use based on their subscription. The other values, such as Implicit (B), Unlicensed (C), and Role (D), are used in different contexts and do not apply to the scenario of mapping an entitlement object to a plan for AppSource apps.

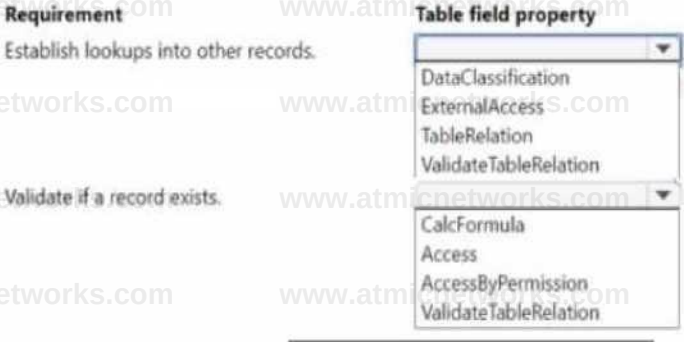
Question: 59

HOTSPOT
You plan to create a table to hold client data.
You have the following data integrity requirements:

- Lookups into other records must be established.
- Validate if a record exists in a destination record.

You need to select the table field property to use for each requirement.
Which table field property should you use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Build tables



Answer:

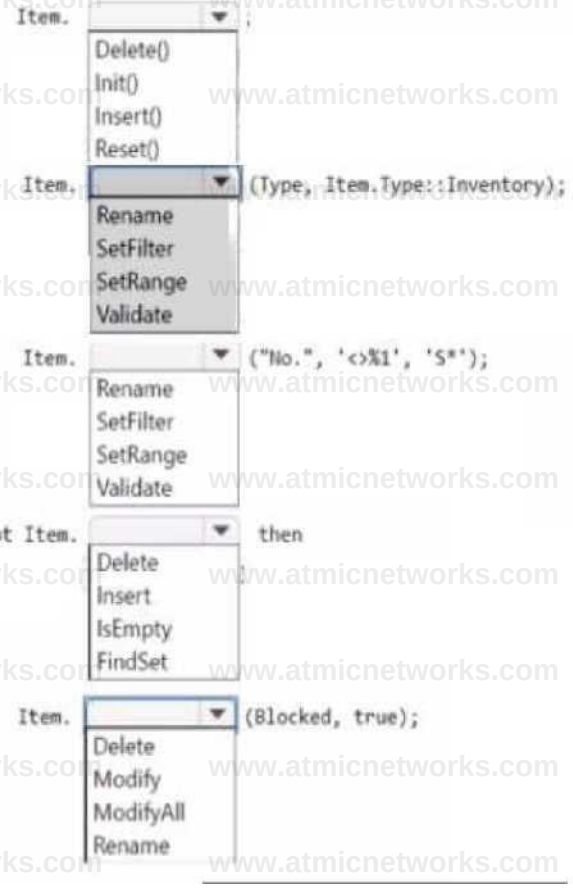
Explanation:
For the data integrity requirements, the table field properties to use are:
To establish lookups into other records, use the TableRelation property.
To validate if a record exists in a destination record, use the ValidateTableRelation property.

In Business Central, when creating tables to hold data, maintaining data integrity is crucial:
TableRelation Property:
This property is used to create a relationship between the field in one table and a field in another table, which is typically used for lookups. When you set the TableRelation property on a field, it allows users to select from a list of values that exist in the related table.
ValidateTableRelation Property:
This property is used to ensure that the value entered in a field matches one of the values in a related table. If a user tries to enter a value that doesn't exist in the related table, an error will occur.

Question: 60

HOTSPOT
You are writing a procedure to block all inventory items with numbers that do not start with the letter S.
You need to complete the procedure.
How should you complete the code expressions? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Procedure

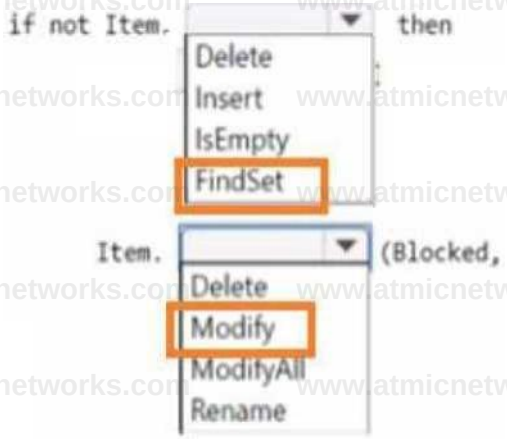


Explanation:

Answer

Deleted
InrtO
InsertQ
I Re^etO I
Itea, t](Type, Itea.Type::Inventory);
j Rename
I SetFiher
SptRange
Validate

Itea. ” ("No.", '<>%1', '$••);
^Renam^^ QetMe^ SetRange
Validate




```
procedure BlockNonSItems()
var
    Item: Record Item;
begin
    // Reset the Item record to clear any previous filters.
    Item.Reset();
    // Set the filter to exclude items that start with 'S'.
    Item.SetFilter("No.", '<>%1*', 'S');
    // Find each item that matches the filter.
    if Item.FindSet() then
      repeat
        // Set the Blocked field to true to block the item.
        Item.Blocked := true;
        // Save the changes to the Item record.
        Item.Modify();
    until Item.Next() = 0; // Continue until no more items are found. end;
```

Question: 61

You create a page with the PageType property set to RoleCenter.
You navigate through the different sections of the page.
You need to add functionalities to the page.
What should you do?

A. Define actions in the area (reporting) before actions in the area (creation).
B. Define the navigation menu in the area(processing).
C. Define the navigation bar in the area (embedding).
D. Add a source table on the Role Center page.

Answer: C

Explanation:
When creating a page with the PageType property set to RoleCenter in Microsoft Dynamics 365 Business Central, it's essential to organize the functionalities and actions in a manner that enhances user experience and efficiency. The best practice is to define actions in the area (reporting) before actions in the area (creation) (A). This organization allows users to access reporting and analytical features quickly, which are commonly used in Role Centers for overview and insight purposes, before moving on to creation or transactional tasks. This logical flow aligns with typical user workflows, where analysis and review precede the creation of new records or transactions. The other options, such as defining the navigation menu in the area(processing) (B), defining the navigation bar in the area (embedding) (C), or adding a source table on the Role Center page (D), do not directly address the need to add functionalities to the Role Center page in a user-friendly manner.

Question: 62

A company has a Business Central online environment.
You are exporting a file from a client by using the DownloadFromStream method.
You need to create an InStream data type to send the data
Which solution should you use?

A. Use OeateInStream method from codeunit "Temp Blob".
B. Use OeateInStream method for BLOB field of "TempBlob" table.
C. Use CreateInStream method for File type variable.

Answer: A

Explanation:
When exporting a file from a client using the DownloadFromStream method in a Business Central online environment, you need to create an InStream data type to send the data. The solution is to use the CreateInStream method from codeunit "Temp Blob" (A). The Temp Blob codeunit provides temporary storage of BLOBs (Binary Large Objects) and is commonly used for handling files and streams in Business Central. By using the CreateInStream method on a Temp Blob, you create an InStream that can then be used with the DownloadFromStream method to send the file data to the client. This approach is efficient for file handling and transfer in Business Central, especially in scenarios involving data export or file manipulation.

Question: 63

A company has a task that is performed infrequently. Users often need to look up the procedure to complete the task.

The company requires a wizard that leads users through a sequence of steps to complete the task.

You need to create the page to enable the wizard creation.

Which page type should you use?

A. NavigatePage
B. Card
C. RoleCenter
D. List

Answer: A

Explanation:

For a task that is performed infrequently and requires users to follow a sequence of steps, a wizardlike interface is ideal. In Microsoft Dynamics 365 Business Central, the NavigatePage page type (A) is best suited for this purpose. NavigatePage is designed to guide users through a series of steps or pages, allowing them to complete a task by making choices or entering data in a structured manner. This page type is often used for setup wizards, data migration tasks, or any other process that benefits from a step-by-step approach. Unlike the other page types like Card (B), RoleCenter (C), or List (D), NavigatePage specifically supports the navigation and decision-making flow required for wizard creation, making it the optimal choice for this requirement.

Question: 64

HOTSPOT

You create a table with fields.

You observe errors in the code

You need to resolve the errors.

```
01 field(l; "lob No."; Cod*[20])
02 {
03 Coption « 'Job No.';
04 }
05 field(2; Description; text[150|)
06 {
07        Copt ion * 'Description';
08 }
09 field(3; "Soles Amount"; Decimal)
10 {
11        Au tof OHMt Type • 1;
12        Calcformula = suefJob Task"."Recognized Sales Amount" where("3ob No." = fleld("No.")}); Caption = 'Calc. Recog.
13        Sales Amount';
14        Editable • false;
15 }
16 field(5; "Over Budget"; Boolean) w {
18 Caption • 'Over Budget'; to \
20 field(6; "Project Manager"; Code[50])
21    {
22        Caption = 'Project Manager';
23        TableRelation ■ "User Setup";
M }
```

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

Error resolution

Statement	Yes	No
In line 12. declare "Job Task" as a variable.		
Add the property FieldClass = FlowField; for field 3.		
Add the property FieldClass = FlowFilter: for field 3.		
In line 23. assign the User Setup" table to a field		

Answer:

Explanation:
In line 12, declare "Job Task" as a variable. = NO
Add the property FieldClass = FlowField; for field 3. = YES
Add the property FieldClass = FlowFilter; for field 3. = NO
In line 23, assign the "User Setup" table to a field. = YES

For "In line 12, declare 'Job Task' as a variable": In the AL code provided, the "Job Task" appears to be part of a CalcFormula of a FlowField, which means it references a table and not a variable. The "Job Task" does not need to be declared as a variable because it is used to reference a table in a CalcFormula expression.
For "Add the property FieldClass = FlowField; for field 3": The line of code CalcFormula = sum("Job Task"."Recognized Sales Amount" where("Job No." = field("No."))); indicates that this field is calculated from other table data, which is the definition of a FlowField. Therefore, adding the property FieldClass = FlowField; is necessary for the field to function correctly.
For "Add the property FieldClass = FlowFilter; for field 3": FlowFilters are used to filter data based on the value in a flow field. Since field 3 is using a CalcFormula to sum values, it is a FlowField and not a FlowFilter. Therefore, this statement is not correct.
For "In line 23, assign the 'User Setup' table to a field": The line TableRelation = "User Setup"; suggests that the "Project Manager" field has a relation to the "User Setup" table, which is a method of assigning a table to a field to ensure that the values in "Project Manager" correspond to values in the "User Setup" table. Hence, this statement is true.

Question: 65

You have a decimal variable named AmountlCY.
You need to round up the variable to four decimal places.
Which result value should you use?
A. Result: = Round (AmountLCY,A. '>"}:
B. Result: = Round {AmountLCY. 0.0001. =');
C. Result: = Round (AmountLCY. 0.0001. '<'):
D. Result: = Round (AmountLCY, 0.0001, >');

Answer: B

Explanation:
To round up a decimal variable to four decimal places in Microsoft Dynamics 365 Business Central, you should use the Round function with specific parameters. The correct formula is Result := Round(AmountLCY, 0.0001, '=') (B). This function rounds the AmountLCY variable to the nearest value based on the second parameter, which is 0.0001 in this case, representing four decimal places. The third parameter, '=', specifies that the function should round to the nearest value, which effectively rounds up the value when it's halfway between two possible rounded values. This approach ensures that the AmountLCY variable is accurately rounded to four decimal places, which is essential for
financial calculations and reporting to maintain precision.

Question: 66

DRAG DROP

You are developing a test application to test the posting process of a sales order. You must provide the following implementation:

- Specify the value of post options (dialog: Ship, Invoice, Ship & Invoice) as Invoice.
- Perform calculations and values checking.

You need to complete the development of the test codeunit.

Which methods should you use? To answer, move the appropriate methods to the correct implementation. You may use each method once, more than once, or not at all. You may need to move the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Method*	Test codeunit implementation!	
■ HancKer Normal ry——————— j I	Implementation Specify the value of the post options as Invoice. Perform calculations and values checking,	Method

Answer:

Explanation:

Specify the value of the post options as Invoice:

Test

Perform calculations and values checking:

Handler

In the context of Microsoft Dynamics 365 Business Central testing, the 'Test' attribute is used to mark a method as a test method. This is where you would specify the action or the behavior you're testing – in this case, setting the post options as Invoice. It's within these test methods that you would simulate setting the posting option to "Invoice" programmatically.

For performing calculations and checking values, you would use 'Handler' methods to handle specific business events or conditions that occur within the system, such as before or after posting a document. These handlers can ensure that calculations are done correctly and that all validation checks pass before the document is posted.

The 'Normal' method would be a standard method that could be involved in the posting process, ensuring that all business logic is correctly applied and that the calculations and value checks are as expected.

In a test codeunit, you would typically have test methods that call these handler and normal methods to verify the business logic in various scenarios, such as posting with different options or checking the results of calculations under different conditions.

Question: 67

HOTSPOT

A company plans to integrate tests with its build pipelines.

The company has two Docket sandbox environments: SandboxA and SandboxB.

You observe the following:

- SandboxA is configured without the Test Toolkit installed.
- SandboxB must be configured from scratch. The Test Toolkit must be installed in SandboxB during configuration.

You need to configure the sandbox environments.

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

Test Toolkit

intainerHane SandboxA

include Test Toolkit includeTestFtamewoik Install-Test Toolkit ToBcContai net
Import- Test ToolkitToBcContainer

```
JartifactVrl ■ Get-BcArtifactUrl -type OnPren' -country 'tai
SlicenseFile = 'C:\iic\license.bclicense' Get-BcArtiFactUrl -type 'OnPren' -
country 'wl' New-BcContainer '
    -accept_eula '
    -COntainerNane 'SandboxB' "
    •artifactUrl tartifactUrl ' inageUame 'Images' '
    -licensefile ilicensefile '
-
```

▼

inclu deTest Toolkit includeTestFrameworkI
i Install TestToolkrtTo8cContainer
Import-TestToolkitToBcContainer I

```
-includeAL '
-vsixFile (Get LatestAllaneuageExtensionUrl) '
■npdateHost*
```

Answer:

Explanation:

```
                                        ^     • coot A IA^HIMW SandboxA
include Test Toolkit
include Te^tFtdmework
JnstaJHestTooj^^
ImpcxlTestToolkitToBcContdinei


SartifactUrl • Get-BcArtifactUrl -type 'OnPreaT -country 'wl'
SlicenseFile= 'C:\Lic\license.b<license'
Get-BcArtifactUrl -type 'OnPrew* -country 'wl'
Hew-BeContainer '
      -accept_eula *
      -ContaincrNaae 'SandboxB' *
      •artifactUrl SartiFactUrl *
                                        i*agella»e 'ImageB' '
      -licenseFile SlicenseFile *

  mcludeTest Toolkit
 jnHy^TejjFrjjnig^grl^^
I Install*TestToolkitToBcContamef lmpoftle$tiooikitioB<Container

• inc ludeAL *
•vsixFile (Get-LatestAllanguageExtensionUrl) *
•updeteHosts
Tert Toolkit
                                                    ˅ -ContainerName SandboxA

SartlfactUrl ■ Get-BcArtifactUrl -type 'OnPrem' -country 'wl' SlicenseFile =
'C:\Lic\license.bclicense'
Get-BcArtifactUrl -type 'OnPrem* -country 'wl' New-BcConteiner "
    -accept_et>la "
    • containerflame 'SandboxB' '
    •artifactUrl SartifactUrl '
    -iMgetUme 'ImageB' '
    •HcenseFile SlicenseFile '
    <ZZZZZZ=3'
    -includeAl
    •vsixFile (Get■LatestAllanguageExtensionUrl) *
    ■updateHosts
```

Based on the PowerShell script snippet you've provided and the scenario described, you need to configure Docker sandbox environments for a company with specific requirements for Test Toolkit installations.

For SandboxA, since it is configured without the Test Toolkit installed, you would typically use the PowerShell cmdlet Install-TestToolkitToBcContainer to install the Test Toolkit into the Business Central Docker container.

For SandboxB, which must be configured from scratch with the Test Toolkit installed during configuration, you would include the Test Toolkit as part of the New-BcContainer script block that creates the container.

The relevant cmdlets and parameters for SandboxB would include:

-includeTestToolkit: This parameter ensures that the Test Toolkit is included during the creation of the new container.

Given the limited context from the image, here's how you should complete the cmdlets for SandboxB:

Add -includeTestToolkit in the New-BcContainer script to ensure the Test Toolkit is installed when creating SandboxB.

Since you are setting up SandboxB from scratch, you don't need to run Install-TestToolkitToBcContainer separately as the toolkit will be included at the time of container creation with the -includeTestToolkit parameter.

For the New-BcContainer cmdlet, you would fill in the placeholders with the appropriate values for artifactUrl, imageName, and licenseFile if they are required for your specific setup.

Question: 68

HOTSPOT

A company is setting up a custom telemetry trace signal to send traces on failed customer statement emails.

```
05    local procedure SendTraceOnFailedToEmailCustomer$tatMent(Customer: Record Customer)
06    var
07        Dimensions: Dictionary of (Text, Text];
08 FailedEmailLbl: Label 'Failed to email customer statement';
09 begin
10        Dimensions.A<ld('systemId', Customer.SystemId);
11        Session.logMessaeeCFCUSTSTMT', FailedEmailLbl, Verbosity::Error,
12        DataClassification::SystemMetadata, TelemetryScope::ExtensionPublisher, Dimensions);
13    end;
```

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

Telemetry trace statements

Statement	Yes	No
The telemetry trace sends custom signals to an Application Insights resource specified in the extension $ app.json file and on the tenant	O	O
Dictionary keys for the extension name and version must be specified to identify the extension during analysis.		
The telemetry trace sends events to Application Insights resources set up on the tenant.		

Answer:

Explanation:

The telemetry trace sends custom signals to an Application Insights resource specified in the extension's app.json file and on the tenant. = YES

Dictionary keys for the extension name and version must be specified to identify the extension during analysis. = YES

The telemetry trace sends events to Application Insights resources set up on the tenant. = YES

Telemetry in Business Central allows developers to collect custom telemetry for extensions using Application Insights. The telemetry trace is used to send custom signals to an Application Insights resource. This resource is typically specified in the app.json file of the extension and must be configured on the tenant where the extension is installed.

The use of dictionary keys for the extension name and version is a best practice to identify the extension during analysis in Application Insights. These keys can be added to the telemetry trace to ensure that when the data is collected, it's clear which extension the data is associated with.

Finally, it is correct that the telemetry trace sends events to Application Insights resources that are set up on the tenant, enabling the collection and analysis of telemetry at the tenant level.

Question: 69

HOTSPOT

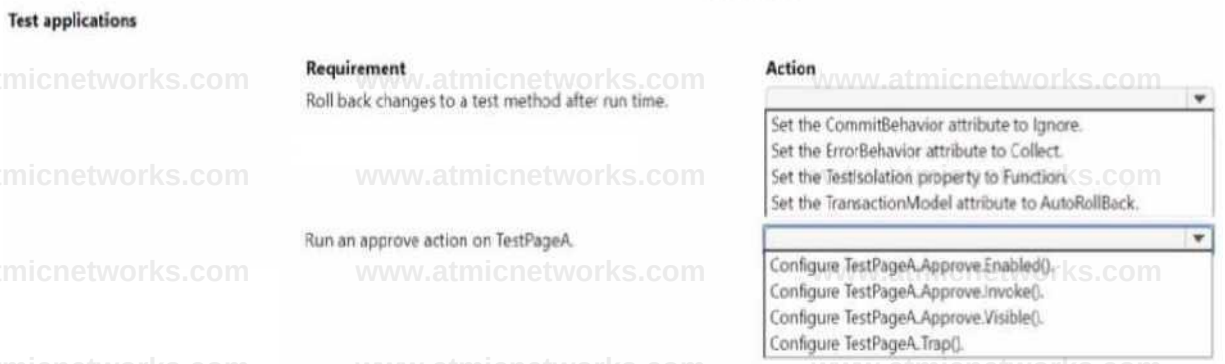
You develop a test application.

You must meet the following requirements:

- Roll back changes to a test method after run time.
- Run an approve action on a test page named TestPageA.

You need to implement the given requirements on the test codeunit

Which actions should you perform? To answer, select the appropriate options in the answer area NOTE: Each correct selection is worth one point.



Answer:

Explanation:

To roll back changes to a test method after run time, you should:

Set the TransactionModel attribute to AutoRollback.

To run an approve action on a test page named TestPageA, you should:

Configure TestPageA.Approve.Invoke().

In Business Central's testing framework, the TransactionModel attribute can be set to AutoRollback. This ensures that any changes made during the test are rolled back after the test is complete, leaving the database in its original state.

For running an action on a test page, you would use the 'Invoke' method on the action you wish to perform. In this case, to run an approve action on TestPageA, you would use TestPageA.Approve.Invoke() within your test codeunit. This simulates the user action of approving something on the page.

These actions ensure that the testing environment is properly set up to test specific functionalities without persisting test data and to invoke actions as part of the test scenarios.

Question: 70

You are cleaning up sandbox environments for a company.

The company requires data to be cleared from the environments each time an extension is published.

You need to configure the launch.json file.

Which schemaUpdateMode property should you set?

A. ForceUpgrade
B. ForceSync
C. Synchronize

D. Recreate

Answer: D

Explanation:
In the context of cleaning up sandbox environments for a company where data needs to be cleared each time an extension is published, the schemaUpdateMode property in the launch.json file should be set to Recreate (D). Setting this property to Recreate ensures that every time the extension is published, the existing tables and data are dropped, and then the tables are recreated based on the current extension's schema. This mode is particularly useful in development and testing environments where you need a clean slate for testing each version of the extension without the remnants of previous data affecting the outcomes. It's important to use this setting cautiously, as it results in the loss of all existing data in the tables defined by the extension, which is suitable for a sandbox environment but not for production environments.

Question: 71

You need to allow debugging in an extension to view the source code. In which file should you specify the value of the allowDebugging property?

A. settings.json
B. rad.json
C. app.json
D. launchjson

Answer: C

Explanation:
To enable debugging in an extension and allow the source code to be viewed, the allowDebugging property should be specified in the app.json file (C). The app.json file serves as the manifest for an AL project in Microsoft Dynamics 365 Business Central, defining the project's properties, dependencies, and features. By setting the allowDebugging property to true in this file, developers enable the debugging of the extension's source code, facilitating troubleshooting and development. This is essential for analyzing the behavior of the extension and identifying issues during the development process.

Question: 72

A company uses Business Central.

The company plans to use a translation file in an extension. The extension has a caption that should not be translated. You need to prevent the caption from being translated.

What should you do?

A. Use the CaptionML property and copy the same caption for each language used.
B. Set the GenerateLockedTranslations feature in the appjson file.
C. Add the Locked = true parameter to the Caption.
D. Delete the Caption property.
E. Copy the same caption for each language in the translation file.

Answer: C

Explanation:
To prevent a caption from being translated in an extension for Microsoft Dynamics 365 Business Central, you should add the Locked = true parameter to the Caption (C). This parameter explicitly marks the caption as locked for translation, ensuring that it remains unchanged across different language versions of the extension. This approach is useful for specific terms, brand names, or other elements within the application that should remain consistent regardless of the user's language settings. Unlike the other options, which involve manual manipulation of the translation file or properties,

setting Locked = true directly in the AL code provides a clear, maintainable, and errorproof method to exclude specific captions from the translation process.

Question: 73

A company plans to set up a local Business Central Development Docker container. The environment will be used for testing new project ideas.

You need to ensure that the most recent Business Central artifact URL has been selected. Which command should you use?

A. Get-BcArtifactUrl -type sandbox -select Current
B. Get-BcArtifactUrl -type sandbox -select Closest
C. Get-BcArtifactUrl -type sandbox -select NextMinor
D. Get-BcArtifactUrl -type sandbox -select NextMajor

Answer: A

Explanation:

To ensure the most recent Business Central artifact URL is selected for setting up a local Business Central Development Docker container, the command to use is Get-BcArtifactUrl -type sandbox - select Current (A). This PowerShell command retrieves the URL for the latest available Business Central artifact for a sandbox environment, ensuring that the Docker container is set up with the most up-to-date version for testing new project ideas. The -select Current parameter is crucial as it specifies that the current, or latest, version of the artifact is to be retrieved, as opposed to selecting a version based on other criteria such as Closest, NextMinor, or NextMajor.

Question: 74

A company has a Business Central online environment.

You need to create an HTTP GET request that connects to an external REST service.

Which solution should you use?

A. HttpContent data type variable
B. Codeunit 1299 "Web Request Helper"
C. Codeunit S459 "JSON Management"
D. Codeunit 1297 "Http Web Request Mgt"
E. HttpClient data type variable

Answer: E

Explanation:

To create an HTTP GET request that connects to an external REST service in a Business Central online environment, the solution to use is the HttpClient data type variable (E). The HttpClient data type in AL language is designed for sending HTTP requests and receiving HTTP responses from a resource identified by a URI. This makes it the ideal choice for interfacing with external REST services, as it
provides the necessary methods and properties to configure and execute HTTP GET requests, handle the responses, and process the data returned by the REST service. This approach is more direct and flexible compared to using specific codeunits like "Web Request Helper" (B) or "Http Web Request Mgt" (D), which might not provide the same level of control or specificity needed for RESTful interactions.

Question: 75

HOTSPOT

You create an 'AddItemsToJson" procedure and publish it.

```
81  procedure    AddItemsToJson()    Request?ext:   Text
02  var
03        Iten: Record Item;
04        ItewObject: IsonObject;
05        IteasArray: JsonArray;
06  begin
07        Clear(ItensArray);
08        Clear(ItemObject);
09        If Item.FindSet() then begin
10            repeat
11                ItemObject Addt'No', Item.'No.");
12                ItemObject Add('Description', Item.Description);
13                ItemsArray.Add(ItemObject);
14            until Item.Hext() > 8;
15            IteinsArray.HriteTo(Reque$tText);
16        end;
17        end;
```

The procedure fails to run.
You need to fix the errors in the code.
For each of the following statements, select Yes if the statement is true. Otherwise, select No.

JSON file processing Statement	Yes	No
In line 13. replace the Add method with Insert In line 15 replace the WriteTo method with ReadFrom. Change the ItemObject vanable type from JsonObject to JsonToken Move line 06 in the beginning of R£PEAT_UNTIL		

Answer:

Explanation:

In line 13, replace the Add method with Insert. = NO
In line 15, replace the WriteTo method with ReadFrom. = NO
Change the ItemObject variable type from JsonObject to JsonToken. = NO
Move line 08 in the beginning of REPEAT .. UNTIL. = YES
The provided code is intended to serialize a list of items from the Item table into a JSON array format.
Here is a breakdown of the code and the necessary corrections:

In line 13, "ItemsArray.Add(ItemObject)": This line is correctly using the Add method to add the ItemObject to the ItemsArray. The Add method is the correct method to use for adding items to a JsonArray. Therefore, there is no need to replace Add with Insert.

In line 15, "ItemsArray.WriteTo(RequestText)": The WriteTo method is used correctly to serialize the ItemsArray into a JSON formatted string and store it in the RequestText variable. The ReadFrom method is used for the opposite operation, i.e., to deserialize a JSON formatted string into a JsonArray, which is not the goal in this context. Hence, no change is needed here.

Change the ItemObject variable type from JsonObject to JsonToken: The ItemObject variable is intended to hold JSON objects representing individual items, making JsonObject the appropriate type. JsonToken is not a type used in this context within AL for Business Central, and thus the variable type should remain as JsonObject.

Move line 08, "Clear(ItemObject)": This line should be moved inside the repeat loop to ensure that the ItemObject is cleared for each item in the loop. Placing it before the repeat would only clear it once before the loop starts, which could lead to incorrect serialization as the previous item's properties would not be cleared from the ItemObject.

The logic for serializing records into JSON is a common operation when interfacing with APIs or web services in Business Central, and the pattern shown in the code is typical for such operations.

Question: 76

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 on the review screen.

A company creates a Business Central app and a table named MyTable to store records when sales orders are posted. Users report the following issues:

- The users receive permission errors related lo MyTable.
- Users are no longer able to post sales orders since installing the new app.
- The users cannot access the list page created in MyTable.

You need to resolve the user issues without creating new permission sets. You must use the principle of least privilege.

Solution: In the MyTable object add the property InherentPermissions = Rl. Does the solution meet the goal?

A. Yes

B. No

Answer: B

Explanation:

The property InherentPermissions is used to automatically grant permissions to the table object it is applied to, but setting it to Rl (which seems to be a typo and should likely be 'RL' for Read and Insert permissions) is not sufficient in this scenario. The issues reported by the users suggest that they need more than just read and insert permissions on MyTable. Since users are unable to post sales orders, they likely need Modify, Delete, or Execute permissions on certain tables or objects related to the sales order process. Additionally, the inability to access the list page created in MyTable could be due to lacking Read permissions on other related objects or pages. Therefore, merely setting InherentPermissions = RL on MyTable does not comprehensively address the users' permission issues, especially when considering the principle of least privilege. A more tailored approach to permissions, potentially involving adjustments to the app's code or configuration to ensure proper
permissions are applied where necessary, would be needed.

Question: 77

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 on the review screen.

A company creates a Business Central app and a table named MyTable to store records when sales orders are posted. Users report the following issues:

- The users receive permission errors related to MyTable.
- Users are no longer able to post sales orders since installing the new app.
- The users cannot access the list page created in MyTable.

You need to resolve the user issues without creating new permission sets. You must use the principle of least privilege.

Solution: Assign a SUPER permission set.

Does the solution meet the goal?

A. Yes

B. No

Answer: B

Explanation:

Assigning a SUPER permission set to all users would indeed resolve the permission errors and access issues reported by the users, as it grants full permissions across all objects and data in Business Central. However, this approach contradicts the principle of least privilege, which advocates for providing only the minimum levels of access necessary for users to perform their jobs. The SUPER permission set would excessively elevate user privileges, potentially leading to security risks and unintended modifications to critical data. Therefore, while assigning the SUPER permission set might technically resolve the immediate issues, it does not meet the goal of adhering to the principle of least privilege and is not a recommended solution.

Question: 78

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 set 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 on the review screen.

A company creates a Business Central app and a table named MyTable to store records when sales orders are posted.

Users report the following issues:

- The users receive permission errors related to MyTable.
- Users are no longer able to post sales orders since installing the new app.
- The users cannot access the list page created in MyTable.

You need to resolve the user issues without creating new permission sets. You must use the principle of least privilege.

Solution: Decorate the event subscriber used for inserting data in MyTable by entering (InherentPermissions(PermissionOb]ectType:TableData. Database:MyTable. 'R')]

Does the solution meet the goal?

A. Yes

B. No

Answer: A

Explanation:

Using InherentPermissions in an event subscriber with the specified syntax could potentially resolve the permission issues related to MyTable, provided that the permissions specified (in this case, 'R' for Read) align with the minimum necessary for the users to perform their tasks. This approach allows the app to grant permissions dynamically based on the context of the event subscriber, which in this case is involved with inserting data into MyTable. By granting Read permission at the event level, it ensures that users have the necessary permissions to interact with MyTable in the context of the operations facilitated by the event subscriber, without needing to alter existing permission sets or grant broader permissions than necessary. This solution adheres to the principle of least privilege by ensuring that permissions are granted only within the narrow scope needed for specific operations, thereby potentially resolving the reported user issues in a secure and controlled manner.

Question: 79

DRAG DROP

A company uses four objects in development in Business Central.

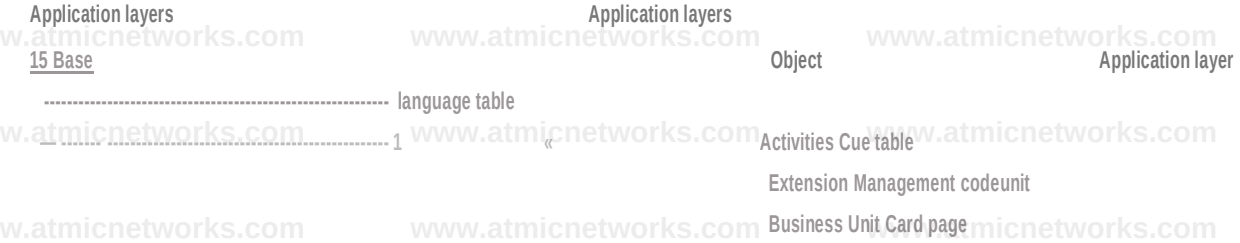
The company plans to make changes to the objects.

You need to identify the application layer for each object in Visual Studio Code.

Which objects ate available in each application layer? To answer, move the appropriate application layer to the correct objects You may use each application layer once, more than once, or not at all.

You may need to move the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:

Language table → System layer

Activities Cue table → Base layer

Extension Management codeunit → System layer

Business Unit Card page → Base layer

Application Layers in Business Central:

In Business Central, there are different layers such as Base and System, which represent different levels of the application architecture. Here's a breakdown of where each object is likely to belong based on typical Business Central architecture:

Language Table:

This table typically belongs to the System layer, as language and localization features are often part of the foundational aspects of the system.

Activities Cue Table:

This would likely be found in the Base layer because it involves business logic that supports user interface elements (like activity cues) specific to the Business Central application.

Extension Management Codeunit:

The Extension Management Codeunit likely belongs to the System layer, as it deals with handling extensions, which is closely related to the core system functionality for managing and deploying changes.

Business Unit Card Page:

This object would typically be part of the Base layer, as it is a business-specific object that handles the user interface for business unit data, part of the core Business Central application.

Question: 80

You have an XMLport that exports items from a database to an XML file.

You need to change the export format from XML to CSV.

What should you do?

A. Change the Direction property to Both
B. Change the FormatEvaluate property to Legacy.
C. Change the XmlVeisionNo property to 1.1.
D. Fill the FileName property with the Items.csv value.
E. Change the Format property to VariableText.

Answer: E

Explanation:

XMLport Overview

In Microsoft Dynamics 365 Business Central, XMLports are used for importing and exporting data in XML, CSV, or other text formats. By default, XMLports are designed to work with XML data, but they can also handle delimited text formats like CSV (Comma-Separated Values).

Requirement Clarification

The requirement is to change the export format from XML to CSV. CSV is a text-based format, not an XML format. To accommodate this, you need to change how the XMLport handles data during export. Properties of XMLport

The Format property in XMLports controls whether the output format is XML or a text-based format such as CSV.

The VariableText option of the Format property specifies that the data should be exported in a variable text format, like CSV.

The XMLports default to an XML format, but by setting the Format property to VariableText, you can change the export to CSV format or another text-delimited format.

Explanation of Correct Answer (E)

To switch from XML to CSV export:

You need to change the Format property of the XMLport to VariableText.

The VariableText option allows for the export of data in a non-XML format, which is precisely what CSV represents (a comma-delimited text file).

Why Other Options Are Incorrect

Option A (Change the Direction property to Both):

The Direction property controls whether the XMLport is used for Import, Export, or Both (import and export), but it does not affect the file format (XML vs. CSV). Hence, this is irrelevant to the file format change.

Option B (Change the FormatEvaluate property to Legacy):

The FormatEvaluate property is not related to changing the export format. It deals with the evaluation of the data format during the processing but doesn't change the format type (XML or CSV).

Option C (Change the XmlVeisionNo property to 1.1):

The XmlVersionNo property defines the XML version used for the export (such as 1.0 or 1.1). This only applies to XML exports and does not change the format to CSV.

Option D (Fill the FileName property with Items.csv):

While this option would specify the name of the file being exported (i.e., "Items.csv"), it doesn't control the format of the export itself. The actual format change is controlled by the Format property. Developer Reference from Microsoft Documentation

According to the official Microsoft documentation for XMLports in Business Central, the Format property is critical for determining how data is structured for export. To change the file format from XML to CSV, developers need to set the Format property to VariableText. This allows for export in a text-delimited format, which is ideal for CSV.

XMLport Properties - Format Property

How to: Export Data in Text Format Using XMLports

Question: 81

HOTSPOT

A company uses Business Central. The company is generating a detailed custom report.

A user observes that the generated report dataset contains more Delivery Line records than expected for one specific Delivery Header.

You need to generate a report that contains the accurate number of records.

```
(JI datai!^("Delivery Header"; "Delivery Header")
02                (
63                    column{No_; "Ho.") ( }
04                    coluiinfCustomer Hane; "Customer fume") { )
OS                    detaitem("Delivery Line"; "Delivery Une")
```

```
06                (
07                    column!Documentho; "Document Ho.") ( )
O8                    column!Delivmry_AddreM) "Delivery Address") { }
09                }
```

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

NOTE: Each correct selection is worth one point.

Property configuration statements

Statement	Yes
Configure the DataItemTableview property of the Delivery Header data item.	
Configure the RequestFiltei Fields property of both data items.	
Configure the DataIteml ink property of the Delivery Line table	O

Answer:

Explanation:

The report generated by the company contains more Delivery Line records than expected for one specific Delivery Header. To address this, certain properties within the report's data items need to be configured correctly.

Property Configuration Statements:

Configure the DataItemTableView property of the Delivery Header data item

This property defines the view (filtering and sorting) for a data item in a report. If the DataItemTableView is not configured properly, it might pull in more records than expected.

Answer: Yes. By configuring this property, you can control which Delivery Header records are Explanation:retrieved, preventing excess records.

Configure the RequestFilterFields property of both data items

This property allows the user to set fields to filter on the request page of the report. Configuring the filter fields can help users refine the records being retrieved for both Delivery Header and Delivery Line.

Answer: Yes. By setting appropriate filters on both data items, users can control which records to Explanation:include, which is critical in narrowing down the correct data.

Configure the DataItemLink property of the Delivery Line table

This property links two data items based on common fields. If not configured properly, more Delivery Line records than expected might be retrieved because the link between Delivery Header and Delivery Line might not be accurate.

Answer: Yes. Configuring the DataItemLink ensures that only the Delivery Line records associated Explanation:with the specific Delivery Header are retrieved, avoiding an excess of records.

Conclusion:

DataItemTableView property of Delivery Header data item → Yes

RequestFilterFields property of both data items → Yes

DataItemLink property of Delivery Line table → Yes

Each configuration is necessary for generating the correct number of records in the report dataset.

Question: 82

A company plans to change a field on the Resource Card page in a Base Application.

You need to hide the field "Unit Price" from the Resource Card page.

Which code snippet should you use?

A.

```
Midlist ("Unit Price")
        visible * fab
```

B.

```
■odify("unit Price')
        Enabled - false
```

C.

```
addlast ("Unit Price")
        Enabled * false;
```

D.

```
i»dify("Unit Price")
        Visible = false;
```

Answer: D

Explanation:

To hide the field "Unit Price" from the Resource Card page in Microsoft Dynamics 365 Business Central, you need to modify the visibility property of the field using the modify keyword, which allows you to change the properties of an existing field on a page.

modify("Unit Price") is the correct way to target an existing field on a page (like the Resource Card page).

The line Visible = false; makes the field invisible on the page.

Here's a breakdown of why each option is right or wrong:

Option A:

Uses addlast("Unit Price"), which is incorrect because you are not adding a new field; you're modifying an existing one.

Also, Visible = false is correct for hiding a field, but the wrong method (addlast) is used.

Option B:

Uses modify("Unit Price") with Enabled = false;. This would disable the field (make it non-editable), not hide it. The field would still be visible, so this does not meet the requirement.

Option C:

Uses addlast("Unit Price"), which is incorrect, and Enabled = false;, which would disable the field, not hide it.

Option D:

modify("Unit Price") { Visible = false; } is the correct syntax for hiding the field on the page.

Correct Code Snippet:

```
modify("Unit Price")
{
  Visible = false;
}
```

This hides the "Unit Price" field from the Resource Card page.

Question: 83

You are customizing Business Central by using Visual Studio Code. You create a project that will extend Business Central.

The AL extension contains JSON files, which are automatically generated and are used to store configuration data

For testing purposes, you plan to add the following changes to the files:

- Specify that page 21 must be opened after publishing.
- Enable debugging
- Disable the capability to download the source code

You need to add the configurations to the JSON files.

Which two configurations should you add? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Set "startupObjectId": 27 on launchjson.

B. In the "resourceExposurePolicy" tag, set "at low Debugging". true and allowDownloadingSource": false on launchjson.

C. Set "start upObjectId": 27 on appjson.

D. In the "resourceExposurePolicy" tag, set "allowDebugging": true and "allowDown loading Source": true on appjson.

E. In the "resourceExposurePolicy" tag, set "allowDebugging": true and "allowDownloadingSource": false on appjson.

Answer: C, E

Explanation:

You are customizing Business Central using Visual Studio Code and JSON files for configuration.

You plan to:

Open page 21 after publishing.

Enable debugging.

Disable the capability to download the source code.

Which configurations should you add?

The options involve two primary JSON files: launch.json and app.json, and configuration tags like startupObjectId and resourceExposurePolicy.

Question: 84

DRAG DROP

You are treating an app tor Business Central.

You plan to specify the following parameters and properties of the server and app.

- Startup object type and object ID
- Runtime
- Dependencies

You need to configure the JSON file for the specified parameters and properties

Which JSON files should you configure? To answer, move the appropriate files to the correct object

purposes You may use each file once, more than once, or not at all You may need to move the split bar between panes or scroll to view content NOTE Each correct selection is worth one point.

Answer:

Explanation:

Each JSON file has its own purpose in Business Central extensions:

app.json

Purpose: This file holds metadata about the application and contains configuration settings for dependencies and startup object information.

Startup object type and object ID should be configured here.

launch.json

Purpose: This file defines how to run and debug the application during development.

Runtime settings are configured here.

Final Answer (Drag and Drop):

Startup object type and object ID → app.json

Runtime → launch.json

Dependencies → app.json

Question: 85

HOTSPOT

You create a 'Contoso Post" procedure to send an http POST request in JSON format. You publish the procedure to your environment.

You write the following procedure code:

```
dl    proc^dur^    Conto^oPo^t(R^QU^S?Tpxt Ttxt» VAC R^pon^T^xt 2 T^wti Tokens T^xt)
Ml    van
»3          content: Httpcontent;
®4          Headers: HttpHeaders;
B5          Client: Httpclient;
M           ResponseMessage: HttpResponseHessage;
W     begin
■8          Client. clearQ;
09          Content .Clear!);
10          content.MriteFroa(ReguestText);
11          content.GetHeaders(Headers);
112         Headers .Clear();
13          Headers.Add('Content-Type', 'text/plain');
114         Headers,Add('Authorization', 'Bearer + Token);
15          if Client.Post('https://tontoso.com/api', Content, ResponseMessage) then
H6          Content,ReadAs(ResponseText);
I? end;
```

The procedure does not work as expected.

You need to find and fix all errors in HTTP class usage.

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

NOTE: Each correct selection is worth one point.

Locate code errors

Statement	Yes
Replace line 16 with Responserex! := ResponseMessage	
In line 13, change the 'text/plain' value to appl Ration/JSOH*	
Replace line 14 with Client.DefaultReque$tHeaders.Add('Author!cation', 'Bearer ' ♦ Token);	
In line 10, replace writeFrom with ReadAS	

Answer:

Explanation:

Statements:

Replace line 16 with ResponseText := ResponseMessage

Answer: No

Explanation:

The correct way to handle the response is to use ReadAs or similar methods to read the content from the response, not just assign the ResponseMessage directly to ResponseText. Hence, this statement is incorrect.

In line 13, change the 'text/plain' value to 'application/json'

Answer: Yes

Explanation:

Since the procedure is expected to send a POST request with JSON content, changing the content type to 'application/json' is correct. This ensures that the server understands the content is in JSON format.

Replace line 14 with Client.DefaultRequestHeaders.Add('Authorization', 'Bearer ' + Token);

Answer: No

Explanation:

In AL, the authorization headers are managed through HttpHeaders, and the Client.DefaultRequestHeaders method is not available in AL. Therefore, this statement is incorrect.

In line 10, replace WriteFrom with ReadAs

Answer: No

Explanation:

WriteFrom is the correct method for sending the request content, as it writes data from the RequestText variable to the HttpContent. ReadAs is used for reading the response, not for writing the request content.

Question: 86

HOTSPOT

A company uses Azure Application Insights for Business Central online in its production environment.

A user observes that some job queues go into the failed state and require manual intervention.

You need to analyze job queue lifecycle telemetry.

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

NOTE: Each correct selection is worth one point.

Kusto Query language (KQL) job queue analysts code segment

```
| take * i«>
  tab
    top project extend
| where custoeoiwnslons.eventId -- 'vouRfvtMTio'
| Bisect .V tinestamp take
    TOp

    extend
    , jobqueueQbjectId - custcOifiensions.allobQueueObjectId
    , jobQueueObjectType • custonDisensions .aDobQueueObjecttyp
    , jobQueueCxecutlonliuNberOfAfteivpttToHun
    custoOinensions.al tobQueuetlumberOf AttemptstoHun
```

Answer:

Explanation:

Kusto Query language (KQL) job queue analysis code segment

```
traces | take       * loo
| where custoaOimensions.event id ^- 'YOUMVENTID* | protect          * timestamp

, jobQueueObjectId - custoOijnensions.alJobQueueobjectId
, jobQueuoObjecttype - custonOiaensions.aDobQoeueObjectType ,
jobQueuetxecutlonNumberOfAttemptsToHun
custoaDi mens ions, al lobQueuehwaberOf AtteaptsloRun
```

KQL Code Segment:

First command (traces):

The query begins with traces to analyze telemetry data logs. The next command determines how the results are filtered or displayed.

take 100: This is the correct option to retrieve the top 100 rows from the traces table.

Command for selecting fields:

project: This command is used to select specific fields from the telemetry data, allowing you to retrieve and display only the fields relevant to the job queue telemetry.

The correct answer is project, as it allows you to choose fields like jobQueueObjectId, jobQueueObjectType, etc., from the customDimensions table.

Question: 87

You must simulate the user interaction of selecting a posting option. The options must include:

- Ship
- Invoice
- Ship & Invoice

You need to create a test codeunit to run the test.

What should you use?

A. Normal attribute
B. Handler method
C. Test attribute

Answer: B

Explanation:
Handler methods are used in tests to simulate user interactions, such as responding to dialogs, confirmation messages, or option selections. Since you need to simulate the user interaction of selecting a posting option (Ship, Invoice, Ship & Invoice), a Handler method would be the appropriate choice for capturing this kind of user input.
Normal attribute and Test attribute are used for marking methods for test execution, but they do not simulate user interaction, making Handler method the correct answer.
For more details, see the Microsoft Docs on Test Codeunits and Handler Methods.

Question: 88

You ate creating a view for a Business Central app.
The view requires a custom layout that displays only customer records with a balance greater than 500 in local currency.
You need to configure the view to specify that it has a custom layout.
Which property combination should you use?
A. shareLayout = false; Filters = where (Balance = filter (> 500), “Currency Code" =filter ("ICY*));
B. SharedLayout - true; Filters - where (Balance ■ filter (> 506), “Currency Code" - filter ('LCY')>;
C. SharedLayout - false; Filters - where ("Balance (ICY)" - filter (> 500));
D. Sharediayout = true; Filters - where ("Balance (ICY)" - filter (> 500));

Answer: B

Explanation:
SharedLayout = true allows for the layout to be shared across views, and it is often used when defining a custom layout that should follow specific filtering conditions.
The Filters property specifies the exact filter criteria for the view, in this case, filtering on Balance > 500 and the Currency Code = LCY (local currency).
A uses incorrect filter syntax and shareLayout = false, which doesn't allow the layout to be shared, so it’s not ideal for this use case.
C and D both have issues with the filter syntax and do not use proper Currency Code filtering or share layout settings.
For more details, check Creating Views in Business Central.

Question: 89

A company uses Business Central.
You plan to help users through the installation process by using Assisted Setup.
You need to create a wizard page.
Which two actions should you perform? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.
A. Set the PageType property to NavigatePage.
B. For each step needed in the guide, add a group0 control to the root-level of the layout > area(Content) control
C. Set the PageType property to Worksheet
D. For each step needed in the guide, add a repeater!) control to the root-level of the layout > area(Content) control.

Answer: A, B

Explanation:

A: In Business Central, wizard pages are created using the NavigatePage type because it allows step- by-step navigation, which is perfect for wizard-like user experiences.

B: The group control organizes the content for each step in the guide, and it's essential to add these controls to the layout's Content area for each step of the wizard.

C: Worksheet is used for pages designed to handle larger datasets, not for wizard or step-by-step flows.

D: Repeater controls are used for displaying multiple records, not for guiding users through steps, so it's incorrect for this scenario.

For more information, you can refer to Assisted Setup in Business Central.

Question: 90

HOTSPOT

A company uses a Vendor-List report from the Base Application.

The company has new requirements that cannot be met by extending the Vendor - List report.

You create a new report named My Customized Vendor - List.

You need to replace the Vendor - List report with My Customized Vendor - List.

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

NOTE Each correct selection is worth one point.

Substitute a report

codeunit 50100 "Substitute Report* [EventSubscriber(GbjectType::Codeunit, Codeunit:: Report Distribution Management

Report Management OnAfterSubstituteRepo't

OnAfterSubstituteReport

Report Selection Mgt On SelectReportlayout

local procedure OnSubstituteReport(ReportId: Integer; var NewReportId: Integer) begin

if Report id - Report::* Vendor - List T * then

My Customized Vendor List

newReportId :• Report::* My Cust-nm;ed Venden List

MHSM

Vendor - List

Answer:

Explanation:

Substitute a report

codeunit 50100 "Substitute Report*

|EnentSubscriber(ObjectType::Codeunit, Codeunit:: Report Distribution Management * t ' OnAfterSubst local procedure

OnSubstItuteReport(ReportId: Integer; var NewReportId:

Integer)

begin

if ReportId = Report::" Vendor – List " then

NewReportId := Report::" My Customized Vendor - List "

end;

he code in the image shows an event subscription to substitute reports in Business Central.

Code

EventSubscriber subscribes to an event in Business Central that allows you to replace or substitute the report at runtime.

The event here is associated with Report Distribution Management.

The local procedure OnSubstituteReport checks if the report being requested is Vendor - List. If it is, it replaces it with My Customized Vendor - List.

Completion:

EventSubscriber ObjectType: The correct object type in this case is Report Distribution Management.

Event Name: The appropriate event to substitute a report is OnAfterSubstituteReport.

Question: 91

You plan to call a web service by using the data type HttpClient from a Business Central AL extension

You must provide the following implementation for the web service call:

- The web service must authenticate the client with a certificate.
- The certificate must include a password.
- The password must be hidden when you debug the code

You need to include the certificate in the web service call. Which instruction should you use?

A. Httpclient.Addertifieate(certificate: Text, Password: Text);
B. HttpClient.AddCertificate{Certifkate: SecretText, Password: SecretText);
C. Httpclient.Addeertifieate(Certifieate: Blob, Password: secretText);
D. HttpClient.AddCertificate{Password: SecreTiext);

Answer: B

Explanation:

ou plan to call a web service using HttpClient from a Business Central AL extension. The web service must authenticate using a certificate that includes a password, and the password must be hidden during debugging.

Options

The question asks for the correct implementation where the certificate and password are provided and where the password is hidden when debugging.

SecretText is a special data type in Business Central that hides sensitive data (like passwords) during debugging.

Question: 92

A company has a test application.

A user observes the following error messages when running the test:

- "Unhandled UI: Message'
- "Unhandled UI: Confirm"

You need to resolve the errors. Which action should you take?

A. Create a separate test runner codeunit that has Message Handler and Confirm Handler methods.
B. Create the Message Handler and Confirm Handler methods in the test runner codeunit.
C. Create a separate test codeunit that has Message Handler and Confirm Handler methods.
D. Create the Message Handler and Confirm Handler methods in the test codeunit.

Answer: B

Explanation:

A user observes error messages such as:

"Unhandled UI: Message"

"Unhandled UI: Confirm"

These messages indicate that the test code is not handling system prompts like Message and Confirm dialogs, which can appear during test execution.

Options

Message Handler and Confirm Handler methods are used to intercept and handle these UI prompts during automated testing.

These methods should be added to the test runner codeunit, which is responsible for running the tests and handling these system-level interactions.

Question: 93

You ate creating a test codeumt for a company that uses Business Central. The company requites the following list of choices while posting a sales order:

- Ship
- Invoice
- Ship & Invoice

You must create a test codeunit that automatically selects one of these options. You need to create the test codeunit Which handler should you use?

A. SessionSettings Handle'
B. SendNotificationHandler
C. Recall Notification Hand let
D. StrMenuHandler

Answer: D

Explanation:

StrMenuHandler is used to simulate the selection of an option from a string-based menu, such as the "Ship," "Invoice," or "Ship & Invoice" options when posting a sales order. This handler allows you to programmatically select an option during automated testing.

Other handlers, such as SessionSettingsHandler or SendNotificationHandler, do not simulate the selection of menu choices, which is specifically required in this scenario.

For more details on StrMenuHandler and how it simulates user interaction with menu choices, refer to the Test Handlers in Business Central.

Question: 94

You have a query object named Items Query. You write code using an Items Query query variable.
You need to export the Items Query query data to a file. Which SaveAs function should you use?

A. SaveAsExcel
B. SaveAsWoid
C. SaveAsHiml
D. SaveAsCsv

Answer: D

Explanation:

SaveAsCsv is the correct function to export the query data to a CSV (Comma-Separated Values) file, which is a

commonly used text format for data exports.
SaveAsExcel would export to an Excel file, SaveAsWord to a Word document, and SaveAsHtml to an HTML file, but since the requirement is to export to a file and the question doesn't specify any particular file format other than what fits standard data exports, CSV is the most fitting and efficient format for this scenario.
For more information, see the Query Object Functions in Business Central.

Question: 95

HOTSPOT
You are creating a new Business Central report.
You plan to use triggers and functions to dynamically create a dataset and control the report behavior.
You must provide the following implementation.

- Run when the report is loaded.
- Run when the data item is iterated for the last time.
- Skip the rest of the report.

You need to select the triggers and functions for the report.
Which triggers and functions should you use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Report tngger and function

Requirement	Trigger/function
Runs when the report is loaded	OnPteReport OnImtReport OnPostReport
Runs when the data item has been iterated for the last time	OnPostDataitem OnPreDataItem OnAfterGetRecord
Use this function to skip the rest of the report	
Use this function to skip the test of the report.	Cui (Report Quit) Cut i Report BreakO CunReport SkipQ

Answer:

Explanation:

Run when the report is loaded: OnInitReport
Run when the data item is iterated for the last time: OnPostDataItem
Skip the rest of the report: CurrReport.Skip()

Triggers and Functions:
Run when the report is loaded.
The correct trigger for running a function when the report is loaded is OnInitReport.
OnInitReport is triggered when the report is initialized, which aligns with the requirement to run when the report is loaded.
Run when the data item is iterated for the last time.
The correct trigger here is OnPostDataItem.
OnPostDataItem runs when the data item has been fully processed and iterated for the last time, which is the specific requirement for this condition.

Skip the rest of the report.

The correct function here is CurrReport.Skip().

CurrReport.Skip() is used to skip the remaining records and terminate the current iteration, allowing you to skip the rest of the report as required.

Question: 96

A company uses Business Central Users in DepartmentA are assigned a base application permission set.

The company observes that Departments can display a critical page that should be unavailable to the department.

You need to resolve the system control issue.

What should you do?

A. Create a different role center page that excludes the critical page and assigns it to the users.
B. Extend the base application permission set and configure the Included PermissionSets property.
C. Extend the base application permission set and configure the ExcludedPermissionSets property
D. Create an entitlement object that excludes the base application permission set.
E. Create a permission set object that excludes the critical table and assigns it to the users.

Answer: E

Explanation:

Permission sets control access to objects (such as pages, tables, reports) in Business Central. By creating a new permission set that specifically excludes the critical table (or page) and assigning this permission set to the users in Department A, you can prevent them from accessing the page.

Option A (creating a different role center page) is incorrect because role centers control the user interface, but do not directly restrict access to specific pages or tables.

Option B and Option C (extending the base application permission set) are not the best options because extending permission sets typically involves adding permissions, not removing access. The question requires restricting access to a critical page, so simply including or excluding permission sets won't solve the issue at the table or page level.

Option D (creating an entitlement object) is not relevant here, as entitlements are used in more complex licensing scenarios or environments.

Summary:

Creating a permission set object that specifically excludes access to the critical table or page and assigning it to the users will solve the problem effectively.

Question: 97

HOTSPOT

A company plans to import and export data with Business Central

You must configure an XMLport that provides the following implementation;

- Specifies import 01 export on the Request page at run time
- Formats the data in a non-fixed length CSV format

You need to create the XMLport.

How should you complete the code segment' To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

XMLport configuration

xml port 50163 'Sample XXIPort*

Caption • 'txpwt Ite* Dat†!
Default*IeldsValIdation - liaise;
Direction - _____
Import
Export Both
fieldDeHalter • •<*>•;
fieldseparator • '< _____*

Newline
< NewLrne > < Newti n e >
Format • VariableText;
TextEncodIng - tnT16;
U&eRequeitPage * true;

1

Answer:

Explanation:

Direction: Both
Format: VariableText
You are configuring an XMLport for Business Central with the following requirements:
Specifies import or export on the Request page at runtime.
Formats the data in a non-fixed length CSV format.
XMLport Configuration:
Specifies import or export on the Request page at runtime.
The Direction property must be set to Both.
This allows the XMLport to both import and export data depending on user selection during runtime.
Formats the data in a non-fixed length CSV format.
The Format property must be set to VariableText.
VariableText is used for delimited text formats like CSV, which do not have a fixed length for fields.

Question: 98

DRAG DROP
A company is implementing Business Central.
The company has the following requirements for a report:

- The report must be loaded for users in a specific location only.
- Data entered in the request page must be validated before any further processing.

* A filter must be defined for users based on the Department field defined in user setup.

You need to implement the given requirements.
Which triggers should you use? To answer, move the appropriate triggers to the correct

requirements. You may use each trigger once, more than once, or not at all. You may need to move the split bar between panes or scroll to view content. NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Load the report for users in a specific location: OnInitReport

Validate data before processing: OnPreReport

Define filter based on Department field: OnPreDataItem

The requirements for the report are:

The report must be loaded for users in a specific location only.

Data entered in the request page must be validated before any further processing.

A filter must be defined for users based on the Department field defined in user setup.

Trigger Matching:

The report must be loaded for users in a specific location only.

The correct trigger for loading the report is OnInitReport.

This trigger runs when the report is initialized, and you can use it to define user-specific loading conditions, like location-based filtering.

Data entered in the request page must be validated before any further processing.

The correct trigger for validation before processing is OnPreReport.

This trigger occurs before the report is run and can be used for data validation before further processing begins.

A filter must be defined for users based on the Department field defined in user setup.

The correct trigger to define filters is OnPreDataItem.

This trigger occurs before data item processing begins and is used to apply filters such as those based on the Department field in the user setup.

Question: 99

HOTSPOT

You are developing a codeunit for a company that uses Business Central.

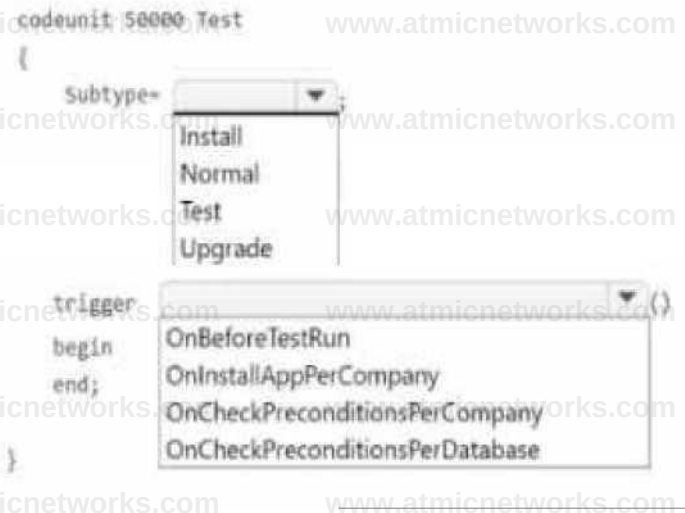
The code unit must be run only during installation of an extension package.

You need to create the codeunit.

How should you complete the code' To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Codeunit trigger



Answer:

Explanation:
Subtype: Install
Trigger: OnInstallAppPerCompany

You are developing a codeunit that should only run during the installation of an extension package.

Options:

Subtype: The correct subtype is Install, as it indicates that the codeunit runs only when the extension is being installed.

Trigger: The correct trigger for running during installation is OnInstallAppPerCompany, which handles code execution when the app is installed for a specific company.

Question: 100

HOTSPOT

You need to use a query data type to retrieve requited data.

How should you complete the code' To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Retrieve data from queries

```
If Query*,I () then begin
TopNumberOfRows
Open
Read
Close
while Query*.          * () do begin
TopNumberOfRows
end;                   Open
end;                   ^
Close
```

Answer:

Explanation:

You are retrieving data using a query data type. The following code snippet needs to be completed: If QueryA...: The correct option here is Open. This opens the query and prepares it for data retrieval. While QueryA...: The correct option here is Read.

This reads through the query results one row at a time.

If QueryA...: Open
While QueryA...: Read

Question: 101

DRAG DROP
You plan to run a debug for a client.
You extend the Standard Sales - Invoice report to add a new requirement.
You create a Report Extension 'Ext Standard Sales - Invoice' with ID = 50100 and add the following lines of code. (Line numbers are included for reference only.)

```
01 modify (VAtAmountcirw)
07 {
03      trigger onAfterAfterotRetcirdO
W       begin
 05 HewToUIVAIBMHCV »• «t0awcY(»w>.Mlar.'Posting Date', wader ."Currency Code", Header. "Currency Factor") 06 iwrotalVATAmuntiCY ♦•
6ctMK>unt ICY (Header.'Porting Date*, Header .“currency code*. Header."Currency fact 07 end;
M }
```

The client informs you that the value of the New Total VATBaseLCY column is incorrect.
You need to run a debug to identify the cause.
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.

Actions	Extension debugging process
- In Visual Studio Code, locate the Ext Standard Sales - Invoice report * extension from your application	
3 Comment line OS	
On the Ext Standard Sales Invoice report extension, search where the H NewTotalVATBaseLCY var table is being calculated and set a breakpoint on the line.	
.. In Visual Studio Code, navigate through the Base Application to locate the Standard Sales - Invoice report	
3 Use the step-over functionality	
S Start debugging	
3 Use the step-into functionality	

Answer:

Explanation:
Here’s the process to follow in the correct sequence:
In Visual Studio Code, locate the Ext Standard Sales - Invoice report extension from your application. The first step is to locate the specific extension you're working with so you can modify or inspect its code.
Search where the NewTotalVATBaseLCY variable is being calculated and set a breakpoint on the line.
To debug the issue, you need to place a breakpoint on the line where the NewTotalVATBaseLCY is calculated.
Start debugging.
Once the breakpoint is set, you begin the debugging process to examine the values and code execution.
Use the step-over functionality.
After starting the debugging, you will use the step-over functionality to move through the code line by line and observe the values of the variables.

Question: 102

A company has an on-premises Business Central instance named TEST The instance uses Windows authorization and a developer

services port of 7149 Visual Studio Code is installed on the same server.

You create a new AL project but cannot download the symbols. The launch json file contains the following code:

```
"nawe": 'Your lota! server*, “request*: “launch", 'type*: "al*, "environo-nt Type": “OnPrew", “server": *http://localhost*,
“serverInstance": "DEV*, 'authentication": "windows*, 'breakonfrror*: "All", “launchBrowser": true,
“enablelongRunning^qlStateMnts*: true, “enableSqlInfomatlonDebuggar*: true, “tenant": “default", *usePublicURtrroii$erver*: true
```

You need to download the symbols.

Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

A. Change the server Instance parameter to TEST
B. Add the port: 7149 parameter.
C. Change the name parameter to TEST.
D. Change the authentication parameter to UserPassword.
E. Check which server the instance is installed on and replace http//localhost with the correct IP address.

Answer: AB

Explanation:

You are working on an on-premises Business Central instance and unable to download symbols for a new AL project. The current configuration in launch.json does not allow you to download symbols, and you need to make corrections.

Key Points in the Scenario:

Instance name is TEST.

Developer services port is 7149.

Windows authentication is being used.

Correct Answers:

A. Change the server Instance parameter to TEST.

The serverInstance parameter must match the name of the Business Central instance, which is TEST in this scenario. You need to modify this to reflect the correct instance name.

B. Add the port: 7149 parameter.

Since the developer services are using port 7149, you need to specify this in the launch.json file by adding the port parameter with the value 7149.

Incorrect Options:

C. Change the name parameter to TEST: The name parameter is just a label and does not affect downloading symbols, so changing this won't help.

D. Change the authentication parameter to UserPassword: The authentication method is already set to Windows, which is valid for this scenario. Changing it to UserPassword is unnecessary unless specified by the system.

E. Check which server the instance is installed on and replace http://localhost with the correct IP address: Since the server is on the same machine as Visual Studio Code (as specified), localhost is correct.

Question: 103

HOTSPOT

A company is setting up a sandbox environment.

You observe the following issues in Visual Studio Code:

- When you open the User Settings window, no AL command is available
- In the Problems tab. the error 'The target page Customer List for the extension object is not found' is displayed.

You need to identify a solution for each issue.

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

NOTE: Each correct selection is worth one point.

Configure the development environment

Issue	Solution
No AL command in User Settings	Sign up for Business Central sandbox Set the Type property to al in launchjson. Install the AL Language extension
Error in the Problems tab	In the resource exposure policy, set allowDebugging to trm Download Symbols Configure the dependencies property m appjson

Answer:

Explanation:

No AL command in User Settings:

The correct solution is to Install the AL Language extension.

This issue arises when the AL Language extension is not installed in Visual Studio Code, which is required to work with AL projects in Business Central.

Error in the Problems tab:

The correct solution is to Download Symbols.

This error typically occurs when the symbols (metadata for pages, tables, etc.) are not downloaded, and Visual Studio Code cannot resolve the reference to the Customer List page. Downloading symbols should fix the problem.

Question: 104

A company has extended Business Central.

You plan to submit the extension to AppSource.

You need to ensure that an application meets the technical requirements before submitting it for validation.

Which three actions should you perform? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Use the OnBeforeCompanyOpen event for improved sign in time
B. Include extension translation files with the submission.
C. Ensure the app file is digitally signed
D. Code all date fields in the mm-dd-yyyy format
E. Use data classification on all tables and extension fields.

Answer: BCE

Explanation:

B. Include extension translation files with the submission.

AppSource submissions require that the extension be localized to different languages, and including translation files is part of the requirement.

C. Ensure the app file is digitally signed.

Digitally signing the app file is a security requirement for AppSource submissions to ensure the integrity and authenticity of the app.

E. Use data classification on all tables and extension fields.

Microsoft requires that all data, especially personal data, be classified using the data classification feature to comply with GDPR and other data privacy regulations.

Question: 105

A company uses Business Central.

The company plans to use the AL object model in Business Central to extend the Base Application.

You need to extend the objects.

Which two objects can you extend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Codeunit
B. Report
C. Query
D. API page
E. Enum

Answer: B, E

Explanation:

A. Codeunit

Codeunits can be extended in AL to add or modify functionality in Business Central.

B. Report

Reports can also be extended to customize the format or data presented in the reports without modifying the base report.

Incorrect Options:

C. Query: Queries cannot be extended. You would need to create new queries or modify the existing ones directly.
D. API page: You cannot extend API pages, but you can create new API pages.
E. Enum: You cannot extend Enums because they are predefined sets of values.

Question: 106

HOTSPOT

You create a procedure to check if a purchase order has lines.

The procedure returns false for purchase order PO-00001 even though it has purchase lines.

```
01      procedure              CheckPurcha»eLines(PurchaseHeader: Record 'Purchase Header"): Boolean
02      var
  03 Purehasecine: Record 'Purchase line'; os      begin
  05 Purchaseline.Set Range ("Ox uwnt Type*, Pure haseHcader. "Doc went Type*); 06 Pure baseline,SetRange("Mo.", PurchassHeader,'Ho.*);
07 exit (not Purchase! me. Istmpty());
00 end;
```

You need to fix the code to get the correct result.

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

NOTE- Each correct selection is worth one point.

Debug AL code

Statement	Yes	No
Add Cleat (Purchaseline), as a line before line 01 of the code	0	O
Add Putcha$eLineSelFittef('Line No '. >0) as a line after line 06	O	O
Change the filter on line 06 from a 'No' field to a "Document O No.* field		
Remove 'not' in fine 07	OO	

Answer:

Explanation:

Add Clear(PurchaseLine); as a line before line 01 of the code: No
Add PurchaseLine.SetFilter("Line No."; '>0') as a line after line 06: Yes
Change the filter on line 06 from a "No." field to a "Document No." field: No
Remove "not" in line 07: No
Add Clear(PurchaseLine); as a line before line 01 of the code.
No
You do not need to clear the PurchaseLine record before running the query, because the SetRange filters will take care of setting the correct context.
Add PurchaseLine.SetFilter("Line No."; '>0') as a line after line 06.
Yes
Adding a SetFilter on the "Line No." field ensures that you're checking for actual purchase lines greater than 0, which are valid lines. This would fix the issue where the check might return false even when lines exist.
Change the filter on line 06 from a "No." field to a "Document No." field.
No
The filter on the No. field is correct, as it's filtering based on the purchase order number. Changing this to Document No. is unnecessary.
Remove "not" in line 07.
No
The not in line 07 is necessary because IsEmpty() returns true when no lines are found. To correctly return a boolean indicating whether the purchase order has lines, you need to negate the result of IsEmpty().

Question: 107

HOTSPOT
A developer creates a profile for part-time shop supervisors and adds customizations.
You plan to add new requirements to the profile.
You need to analyze the code to understand the profile and make sure there are no errors.

```
a: profile "Part Time step Supervisor*
« (
£3 Description ■ 'This profile is for Part time Shop Supervisors';
04 Caption • 'Part Time shop Supervisor';
OS      RoieCenter • "Shop      Supervisor     Role Center";
06      enabled • true;
07      Promoted = true;
RO      Customization* -Customization!;


19 pagecustomization Customization! customizes "Item list*
11 {
12      layout
13      {
14              modify("Profit X")

16                      Visible • false;

18              aoveafter(*unlt Cost";     "Costing method")

» )
```

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

Profile and customization

Statement	Yes	No
The Pan T^me Shop Supervisor profile will be applied only to users with 'Register Tune' * true on User Setup		
Variables, procedures, and tuggers cannot be added on page customization objects		
Une 10 should use **extends** instead o‘ **customizes**		
In line 18. "Unit Cost’ will be moved after ’Costing Method’ O O		

Answer:

Explanation:

The Part Time Shop Supervisor profile will be applied only to users with "Register Time" = true on User Setup: No

Variables, procedures, and triggers cannot be added on page customization objects: Yes

Line 10 should use extends instead of customizes: No

In line 18, "Unit Cost" will be moved after "Costing Method": Yes

The Part Time Shop Supervisor profile will be applied only to users with "Register Time" = true on User Setup.

No

The code doesn't contain any reference to the User Setup table or the Register Time field, so this is not correct. Profiles are not applied conditionally based on fields like this.

Variables, procedures, and triggers cannot be added on page customization objects.

Yes

Page customization objects are meant for UI modifications, such as moving or hiding fields. You cannot add variables, procedures, or triggers in a page customization object.

Line 10 should use extends instead of customizes.

No

In AL, when customizing a page within a profile, you use customizes rather than extends. Extends is used when modifying base application objects, but customizes is used to customize pages within a profile.

In line 18, "Unit Cost" will be moved after "Costing Method".

Yes

The code in line 18 is correct. The moveafter directive will move the "Unit Cost" field after the "Costing Method" field on the page layout.

Question: 108

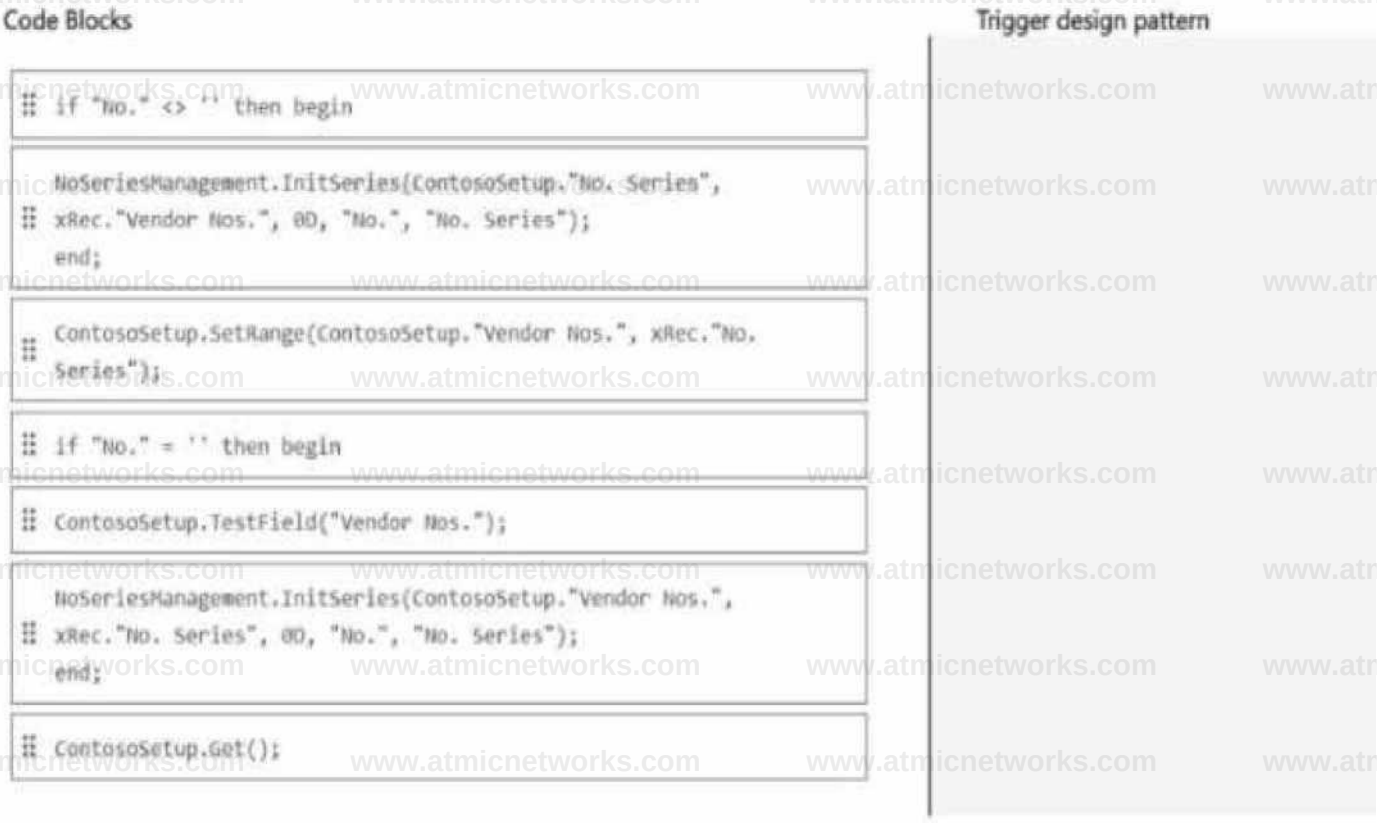
DRAG DROP

You develop a table named Contoso Setup and a page.

You plan to use No. Series to automatically assign a unique number to data entries. You set up No. Series on the Vendor Nos. field of the Contoso Setup table.

You need to apply the No. Series Design Pattern to the trigger OnInsert().

Which four code segments should you use to develop the solution? To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.



Answer:

Explanation:

To properly apply the No. Series Design Pattern in the OnInsert() trigger, the correct sequence of actions should be as follows:

ContosoSetup.Get();

First, retrieve the Contoso Setup record using the Get method. This ensures that the necessary setup information is available, including the No. Series.

if "No." = '' then begin

Next, check if the No. field is empty. If it is, a new number from the No. Series should be assigned.

NoSeriesManagement.InitSeries(ContosoSetup."Vendor Nos.", "No. Series", 0D, "No.", "No. Series"); Call the InitSeries function to assign a new number from the No. Series. This initializes the No. Series for the Vendor Nos. field.

ContosoSetup.TestField("Vendor Nos.");

Lastly, ensure that the Vendor Nos. field is populated and valid by calling TestField.

Correct Order for Code Segments:

ContosoSetup.Get();

if "No." = '' then begin

NoSeriesManagement.InitSeries(ContosoSetup."Vendor Nos.", "No. Series", 0D, "No.", "No. Series");

ContosoSetup.TestField("Vendor Nos.");

Question: 110

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 plans to optimize its permission sets.
The company has the following permission sets:

Permission Set A	Permission Set B
Permissions = tabledata Job • RiMD;	Permissions = tabledata Job • IND;

You need to provide the following implementation for a third permission set:
- Create a new Permission Set C that is a composite of Permission Set A and Permission Set B.
- Assign Permission Set C to a user.

You need to ensure that the user has only read access to the Job table.
Solution: Set the Excluded Permission Sets property to Permission Set B.
Does the solution meet the goal?

A. Yes
B. No

Answer: B

Explanation:

Question: 111

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 plans to optimize its permission sets.
The company has the following permission sets:

Permission Set A	Permission Set B
Permissions = tabledata Job = RiMD;	Permissions = tabledata Job = IMD;

You need to provide the following implementation for a third permission set:
- Create a new Permission Set C that is a composite of Permission Set A and Permission Set B.
- Assign Permission Set C to a user.

You need to ensure that the user has only read access to the Job table.
Solution: Set the IncludedPermissionSets property to Permission Set A and the Excluded PermissionSets property to Permission SetB.
Does the solution meet the goal?

A. Yes
B. No

Answer: B

Explanation:

Question: 112

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 plans to optimize its permission sets.

The company has the following permission sets:

Permission Set A	Permission Set B
Permissions = tabledata Job = RiMD;	Permissions = tabledata Job = IMD;

You need to provide the following implementation for a third permission set:

- Create a new Permission Set C that is a composite of Permission Set A and Permission Set B.
- Assign Permission Set C to a user.

You need to ensure that the user has only read access to the Job table.

Solution: Set the Included Permission Sets property to Permission Set B and the Excluded PermissionSets property to Permission Set A.

Does the solution meet the goal?

A. Yes

B. No

Answer: B

Explanation:

Question: 113

You have a custom app.

A warning for the rule code named AAOXYZ appears in multiple app objects.

You need to change the severity of the rule from Warning to Info for only the current app.

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

NOTE: Each correct selection is worth one point.

A. Add the following ruleset object to the ruleset.json file:

```
"id": "AAGXYZ", "action": * Info"}
```

To the “rules" array.

B. Open the Visual Studio Code user settings.json file.

C. Open the Visual Studio Code project settings.json file.

D. Add the following ruleset object to the ruleset.json file:

```
{
  "id": "AA0XYZ",
   "action": "Hidden" }
```

To the "rules" array.

E. Change the "al.enableCodeAnalysis" property value to "false".

F. Add the "al.ruleSetPath" property with a path to the ruleset.json file.

Answer: B, F

Explanation:

Question: 114

HOTSPOT

You need to use a query data type to retrieve required data.

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

NOTE: Each correct selection is worth one point.

```
1 column(CompanyHomePage; ConipanyInformation."Home Page")
2 {
3 }
```

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

Code update to manage a warning

Statements	Yes	No
Create a custom Home Page field for the Company information table.	0	0
Enclose Line 1 within #pragma warning disable AL0432 .. #pragma warning restore AL0432.	0	O
Disable the ALO432 rule in the ruleset	0	0
Remove or comment the column and then put it back after the field	0	0

Answer:

Explanation:

Code update to manage a warning

Statements	Yes	No
Create a custom Home Page field for the Company information table.		
Enclose Line 1 within **#pragma warning disable AL0432 .. Spragma ® warning restore AL0432.**		
Disable the AL0432 rule in the ruleset	O	•
Remove or comment the column and then put it back after the field 0		®

Question: 115

A company plans to optimize its permission sets. The company has the following permission sets:

Permission Set A	Permission Set 8
Permissions - tabledata Job = RiMD;	Permissions - tabledata Job = IMD;

You need to provide the following implementation for a third permission set:

- Create a new Permission Set C that is a composite of Permission Set A and Permission Set B.
- Assign Permission Set C to a user.

You need to ensure that the user has only read access to the Job table.

Solution: Set the IncludedPermissionSets property to Permission Set A.

Does the solution meet the goal?

A. Yes

B. No

Answer: A

Explanation:

Question: 116

A company plans to optimize its permission sets. The company has the following permission sets:

Permission Set A	Permission Set B
Permissions =• tabledata Job = RiMD;	Permissions = tabledata Job = IW;

You need to provide the following implementation for a third permission set:

- Create a new Permission Set C that is a composite of Permission Set A and Permission Set B.
- Assign Permission Set C to a user.

You need to ensure that the user has only read access to the Job table.

Solution: Set the IncludedPermissionSets property to Permission Set A and the ExcludedPermissionSets property to Permission Set B.

Does the solution meet the goal?

A. Yes
B. No

Answer: A

Explanation:

Question: 117

A company plans to optimize its permission sets. The company has the following permission sets:

Permission Set A	Permission Set B
Permissions * tabledata Job = RiMD;	Permissions = tabledata Job = IW;

You need to provide the following implementation for a third permission set:

- Create a new Permission Set C that is a composite of Permission Set A and Permission Set B.
- Assign Permission Set C to a user.

You need to ensure that the user has only read access to the Job table.

Solution: Set the IncludedPermissionSets property to Permission Set B and the ExcludedPermissionSets property to Permission Set A.

Does the solution meet the goal?

A. Yes
B. No

Answer: B

Explanation: