

# MB-820<sup>Q&As</sup>

Microsoft Dynamics 365 Business Central Developer

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#### **QUESTION 1**

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 appison 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.

Correct Answer: C

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 error-proof method to exclude specific captions from the translation process.

#### **QUESTION 2**

#### **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.

Hot Area:

# Page type requirements Requirement Page types Display relevant insights in the Housekeeping Role Center. w CardPart HeadLinePart Worksheet Display the additional information for the Room table. CardPart FactBox HeadLinePart Configure the first installation. HeadLinePart NavigatePage StandardDialog

Correct Answer:



Box 1: HeadlinePart

Display relevant insights in the HouseKeeping Role center.

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Scenario: A Housekeeping Role Center to minimize navigation to relevant areas in Business Central online and to show relevant information in it

Page types and layouts
*
HeadlinePart A page that is embedded in a RoleCenter page to display relevant insights from across the business Single entity Single group of fields representing headlines.
Incorrect:
*
Worksheet
Line-based data entry tasks (such as journals) and inquiries.
Collection of entities
A single list or table with a caption. May have field groups and subpages above and below the worksheet\\'s Repeater.
Box 2: CardPart
Display the additional information for the Room Table.
Scenario: Pages to embed into a new Room page to show additional information about the Room entity
*
Card Master, reference, and set up data management. Card page example Single entity Titled entity with FastTabs. May embed parts.
Incorrect:
*
FactBox No such thing.
Box 3: NavigatePage Configure the first installation.
*
NavigatePage
Multi-step dialog (also known as a "Wizard").
Single or collection
Can have one or more groups of fields and parts.
Reference: https://learn.microsoft.com/en-us/dynamics365/business-central/dev-itpro/developer/devenv-page-types-and-layouts

#### **QUESTION 3**

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#### **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.

Hot Area:

#### InStream and OutStream local procedure DownloadIncidentPicture(Incident : Record Incident) var TempBlob : Codeunit "Temp Blob"; IncidentOutStream : OutStream; IncidentInStream : InStream; ImageFilter, FileName : Text; begin (IncidentOutStream); TempBlob. CreateStream CreateInStream CreateOutStream WriteOutStream Incident.Image.ExportStream(IncidentOutStream); ▼ (IncidentInStream); TempBlob. CreateStream CreateInStream CreateOutStream ReadInStream ImageFilter := 'Image Files (\*.bmp; \*.jpg; \*.gif) | \*.bmp; \*.jpg; \*.gif'; FileName := 'Customer Picture'; if not DownloadFromStream( , 'Download Incident Picture', ', ImageFilter, FileName) then InStream exit; OutStream end; IncidentInStream IncidentOutStream

Correct Answer:

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#### InStream and OutStream

local procedure	Download Trackdont	04-4	cure(Incident : Record Incident)
var	DownToadIncIdent	10	ure(incluent : Record incluent)
The state of the s	: Codeunit "Temp	Rlo	, · · · · · · · · · · · · · · · · · · ·
	utStream : OutStr		
	nStream : InStream		
	er, FileName : Te		
begin	er, razerome . re		
TempBlob.		*	(IncidentOutStream);
rempozou.	CreateStream		
	CreateInStream		
	CreateOutStream	- 10	
	WriteOutStream		
		m(I	ncidentOutStream);
TempBlob.		*	(IncidentInStream);
	CreateStream		
	CreateInStream		
	CreateOutStream		
	ReadInStream		
FileName	:= 'Customer Pictu	re'	
if not Do	wnloadFromStream(	1	,'Download Incident Picture','',ImageFilter, FileName) then
exit;		In	Stream
end;		-	utStream
			cidentInStream
		In	cidentOutStream

Box 1: CreateOutStream Box 2: CreateInStream Box 3: Instream Reference:

https://community.dynamics.com/blogs/post/?postid=19ce850a-6ff7-4b99-8b3c-65aa6411771b

#### **QUESTION 4**

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

Correct Answer: D

In the context of cleaning up sandbox environments for a company where data needs to be cleared each time an

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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 5**

#### **HOTSPOT**

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

1.

Child data items must not be displayed on the request page for some master detail reports.

2.

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.

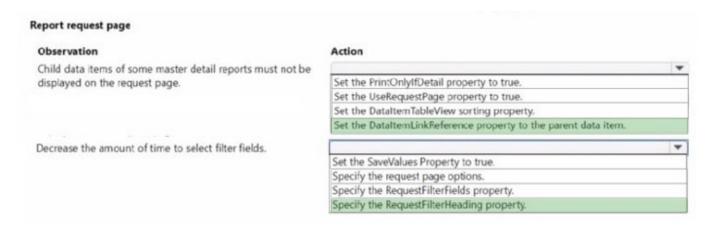
Hot Area:



Correct Answer:



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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 6**

#### 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.

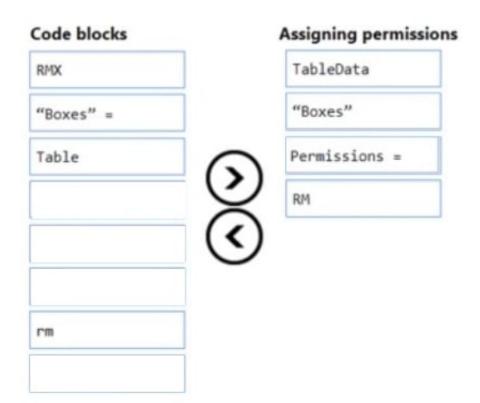
You need to assign the Indirect permissions for the Boxes table to the codeunit.

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.

Select and Place:

Code blocks	Assigning permission
RMX	
"Boxes" =	
Table	
Permissions =	
"Boxes"	<b>((</b> )
RM	
rm	
TableData	

Correct Answer:



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

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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 7**

You need to define the data types for the fields of the Non-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 Non-conformity Number field

B. DateTime 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

Correct Answer: CD

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

Non-conformity Number: must use the No. Series table from Business Central online to manage this field and use these features: Alphanumeric values Number format that includes "NC" and the year as part of the number; for example, NC24-001

Non-conformity Date: stores only the creation date

Reference: https://learn.microsoft.com/en-us/dynamics365/business-central/dev-itpro/developer/devenv-format-property

#### **QUESTION 8**

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



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R	Card

C. RoleCenter

D. List

Correct Answer: A

For a task that is performed infrequently and requires users to follow a sequence of steps, a wizard-like 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 9**

#### **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:

1.

Filter the page to display only jobs with open or quote status.

2.

Add the following comment for internal use: This page does not include completed jobs.

3.

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.

Hot Area:



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#### Correct Answer:



#### **QUESTION 10**

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

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Correct Answer: D

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 per-tenant 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 11**

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

Correct Answer: B

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 12**

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 | where timestamp > ago(7d) | where customDimensions has \\'RT0008\\' | where customDimensions.category !in (\\'ODataV4\\', \\'ODataV3\\', \\'Api\\')

B. traces | where timestamp > ago(7d) | where customDimensions has \\'RT0008\\' | where customDimensions.category == \\'SOAP\\'

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C. traces | where timestamp > ago(7d) | where customDimensions == \\'RT0008\\' | where customDimensions.category == \\'SOAP\\'

D. traces | where timestamp > ago(7d) | where customDimensions has \\'RT0008\\' | where customDimensions.category != \\'ODataV4\\'

E. traces | where timestamp > ago(7d) | where customDimensions has \\'RT0008\\' | where customDimensions.category !in (\\'ODataV4\\', \\'Api\\')

Correct Answer: BC

Analyzing Incoming Web Services Request Telemetry

Web services telemetry gathers data about SOAP, OData, and REST API requests to the service. It provides information like the request\\'s endpoint, time to complete, HTTP status codes, and more.

What type of web services are called (REST API, OData, or SOAP)?

The custom dimension category hold information about the type of endpoint (REST API, OData, or SOAP) being called.

This KQL code illustrates how you can find which endpoints are being called and which types of endpoints are being used. Such information might be useful, should you want to modernize your use of web services to use REST APIs, which is

recommended over using SOAP web services or OData web services based on pages.

// Incoming Web Service Requests - endpoint information

traces

| where timestamp > ago(1d) // change as needed

| where customDimensions has "RT0008"

| where customDimensions.eventId == "RT0008"

| project timestamp

// endpoint information

- , category = customDimensions.category // API, ODataV3, ODataV4, or SOAP
- , endpoint = customDimensions.endpoint // URI

Scenario:

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

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.

Reference:



https://learn.microsoft.com/en-us/dynamics365/business-central/dev-itpro/administration/telemetry-webservices-trace

#### **QUESTION 13**

#### 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.

Select and Place:

App types	Connect app and Add-on app descriptions	
Add-on app	Description	App type
Connect app	Developed by using any coding language	
	Developed by using AL language in Visual Studio Code	

#### Correct Answer:

App types	Connect app and Add-on app descriptions	
	Description	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:

Add-on apps:

The language and environment used for developing these apps are key differentiators between Connect apps and Addon apps.

#### **QUESTION 14**

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



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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".

Correct Answer: A

Initialize a snapshot debugging session

You can start a snapshot by creating a snapshot configuration file in Visual Studio Code.

Choose whether to run the session on a cloud service or locally. The configuration file contains the following information.

userId The GUID of the user who initiated the process to start snapshot debugging. For on-premises, this can also be the user name in user password authentication scenarios. The user must be able to start, or have a session type opened that is specified in the breakOnNext parameter.

Etc.

Scenario: Debugging problems A user of the ISSUE BASE extension in Business Central reports a problem.

You discover that the debugging is not triggering.

Incorrect:

Not B: Example (attach to a web client session)

The following example illustrates a configuration for a local server, where you want to debug a web client session.

```
{
"name": "My attach to local server",
"type": "al",
"request": "attach",
"server": "https://localhost",
"serverInstance": "BC200",
"authentication": "Windows",
"breakOnError": true,
```



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"breakOnRecordWrite": false,

"enableSqlInformationDebugger": true,

"enableLongRunningSqlStatements": true,

"longRunningSqlStatementsThreshold": 500,

"numberOfSqlStatements": 10,

"breakOnNext": "WebClient"

} ...

Reference: https://learn.microsoft.com/en-us/dynamics365/business-central/dev-itpro/developer/devenv-attach-debugnext https://learn.microsoft.com/en-us/dynamics365/business-central/dev-itpro/developer/devenv-snapshot-debugging

#### **QUESTION 15**

#### **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.

Hot Area:



## Code segment for API page

```
page 50100 ItemAPI
{
    PageType = API;
    Caption = 'ItemApi';
    APIPublisher = 'contoso';
    APIGroup = 'sales';
    APIVersion = 'v1.0';
    EntityName = 'item';
    EntitySetName = 'items';
    SourceTable = Item;
ODataKeyFields = SystemId;
    InsertAllowed = false;
    DelayedInsert = true;
    DataAccessIntent = ReadOnly;
    ModifyAllowed = false;
    Editable = false;
    UsageCategory = Lists;
    layout
        area(Content)
        {
             repeater(GroupName)
                 field(no; Rec. "No.")
                 {
                 field(salesTotal; Rec. "Sales (LCY)")
                 {
                 }
            }
        }
    }
}
```



Correct Answer:



## Code segment for API page

```
page 50100 ItemAPI
{
    PageType = API;
    Caption = 'ItemApi';
    APIPublisher = 'contoso';
    APIGroup = 'sales';
    APIVersion = 'v1.0';
    EntityName = 'item';
    EntitySetName = 'items';
    SourceTable = Item;
ODataKeyFields = SystemId;
    InsertAllowed = false;
    DelayedInsert = true;
    DataAccessIntent = ReadOnly;
    ModifyAllowed = false;
    Editable = false;
    UsageCategory = Lists;
    layout
        area(Content)
        {
            repeater(GroupName)
                 field(no; Rec. "No.")
                 {
                 field(salesTotal; Rec. "Sales (LCY)")
                 {
                 }
          }
        }
    }
}
```



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Box 1: DataAccessIntent = readOnly;

Scenario:

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.

**DataAccessIntent Property** 

Sets the data access intent of the page.

Applies to

Page

Report

Query

Property Value

\*

#### ReadOnly

Intent to access records, but not to modify them. Read-only pages are run against a replica of the database leading to improved performance, but preventing modifications to the database records.

ReadWrite

Intent to access and modify records.

**Syntax** 

DataAccessIntent = ReadOnly|ReadWrite;

Remarks

For reports, API pages, and API queries, the Business Central server can use read-only database replicas on Azure SQL Database and SQL Server. If replicas are enabled, use this property to reduce the load on the primary database. Using

ReadOnly might also improve performance when viewing objects. ReadOnly works as a hint for the server to route the connection to a secondary (read-only) replica, if one is available. When a workload is executed against the replica, insert/

delete/modify operations aren\\'t possible. If any of these operations are executed against the replica, an exception is thrown at runtime.

Box 2: Editable = false;

Note: It only applies to pages of the type API. For such, The Editable property must be set to false.



Reference: https://learn.microsoft.com/en-us/dynamics 365/business-central/dev-itpro/developer/properties/devenv-data access intent-property

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