



MB-820^{Q&As}

Microsoft Dynamics 365 Business Central Developer

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QUESTION 1

HOTSPOT

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

The procedure breaks at runtime.

```
01 procedure RunTopCustomerOverview()  
02 var  
03   TopCustomerOverview: Query "Top Customer Overview";  
04   Text000Msg: Label 'Customer name = %1, Sales = %2', Comment = '%1 specifies customer name, %2 specifies customer sales';  
05 begin  
06   TopCustomerOverview.SetFilter(Sales_LCY, '>10000');  
07   while TopCustomerOverview.Read() do  
08     Message(Text000Msg, TopCustomerOverview.Name, TopCustomerOverview.Sales_LCY);  
09   TopCustomerOverview.Close();  
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.

Hot Area:

Creating a query

Statement	Yes	No
Enclose line 08 into BEGIN..END	<input type="radio"/>	<input type="radio"/>
Add TopCustomerOverview.Open(); before TopCustomerOverview.SetFilter(Sales_LCY, '>10000'); in line 06.	<input type="radio"/>	<input type="radio"/>
Add TopCustomerOverview.Open(); after TopCustomerOverview.SetFilter(Sales_LCY, '>10000'); in line 06.	<input type="radio"/>	<input type="radio"/>
Replace SetFilter in line 06 with SetRange.	<input type="radio"/>	<input type="radio"/>

Correct Answer:



Creating a query

Statement	Yes	No
Enclose line 08 into BEGIN..END	<input type="radio"/>	<input checked="" type="radio"/>
Add TopCustomerOverview.Open(); before TopCustomerOverview.SetFilter(Sales_LCY, '>10000'); in line 06.	<input checked="" type="radio"/>	<input type="radio"/>
Add TopCustomerOverview.Open(); after TopCustomerOverview.SetFilter(Sales_LCY, '>10000'); in line 06.	<input checked="" type="radio"/>	<input type="radio"/>
Replace SetFilter in line 06 with SetRange.	<input type="radio"/>	<input checked="" type="radio"/>

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 2

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.

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 3

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 4

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



Correct Answer: ADE

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 5

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)")
                {
                }
            }
        }
    }
}

```




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.



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Reference: <https://learn.microsoft.com/en-us/dynamics365/business-central/dev-itpro/developer/properties/devenv-dataaccessintent-property>

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