



# Microsoft

## MB-820 Exam

### Microsoft Dynamics 365 Business Central Developer

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# Version: 6.5

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## Question: 1

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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.

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### InStream and OutStream

```

local procedure DownloadIncidentPicture(Incident : Record Incident)
var
    TempBlob : Codeunit "Temp Blob";
    IncidentOutStream : OutStream;
    IncidentInStream : InStream;
    ImageFilter, FileName : Text;
begin
    TempBlob. (IncidentOutStream);
    
    Incident.Image.ExportStream(IncidentOutStream);
    TempBlob. (IncidentInStream);
    
    ImageFilter := 'Image Files (*.bmp;*.jpg;*.gif)|*.bmp;*.jpg;*.gif';
    FileName := 'Customer Picture';

    if not DownloadFromStream(, 'Download Incident Picture', '', ImageFilter, FileName) then
        exit;
    
```

---

**Answer:**

---

Explanation:

**InStream and OutStream**

```

local procedure DownloadIncidentPicture(Incident : Record Incident)
var
    TempBlob : Codeunit "Temp Blob";
    IncidentOutStream : OutStream;
    IncidentInStream : InStream;
    ImageFilter, FileName : Text;
begin
    TempBlob..(IncidentOutStream);
    CreateStream
    CreateInStream
    CreateOutStream
    WriteOutStream
    Incident.Image.ExportStream(IncidentOutStream);
    TempBlob..(IncidentInStream);
    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
        exit;
    
```

```

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 52102 "POS API Management"
{
    [
        Access = Internal
        Access = Public
        Permissions = TableData "POS Information" = rdx
        Permissions = TableData "POS Information" = RMDX
    ]

    trigger OnRun()
    begin
        readAPI();
    end;

    procedure readAPI()
    procedure readAPI(PosNo: Integer)
    var procedure readAPI()

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

---

**Answer:**

---

Explanation:

**Create and access codeunits**

```
codeunit 52102 "POS API Management"
{
    Access = Internal;
    Access = Public;
    Permissions = TableData "POS Information" = rdx;
    Permissions = TableData "POS Information" = RMDX;

    trigger OnRun()
    begin
        readAPI();
    end;

    procedure readAPI()
    procedure readAPI(PosNo: Integer)
    var procedure readAPI()

    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 52102 "POS API Management"
{
    [ ]: ;

    trigger OnRun()
    begin
        readAPI();
    end;

    [ ]: ;
    begin
        // your code here
    end;
}

```

---

**Question: 3**

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**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**

```
group(commentsGroup)
{
    field("comments"; NonConformityComments)
    {
        ApplicationArea = All;
        MultiLine = True;
        MultiLine = False;
        NotBlank = True;
        NotBlank = False;
        DataType
        ExtendDataType
        ExtendedDatatype
        RichDataType
    }
}
-----
var
    NonConformityComments: Text;
```

The screenshot shows a code editor with a field definition for 'comments'. The field is defined as 'field("comments"; NonConformityComments)'. Below this, there are several properties being set: 'ApplicationArea = All;', 'MultiLine = True;', 'MultiLine = False;', 'NotBlank = True;', and 'NotBlank = False;'. There are two dropdown menus for 'DataType' and 'ExtendedDataType'. The 'DataType' dropdown menu is open, showing options: 'DataType', 'ExtendDataType', 'ExtendedDatatype', and 'RichDataType'. The 'ExtendedDataType' dropdown menu is also open, showing options: 'LongContent', 'None', 'RichContent', and 'TextRichContent'. The code ends with '}', '}', and 'var NonConformityComments: Text;'.

---

**Answer:**

---

Explanation:

**ExtendedDataType property**

```

group(commentsGroup)
{
  field("comments"; NonConformityComments)
  {
    ApplicationArea = All;
    MultiLine = True;
    MultiLine = False;
    NotBlank= True;
    NotBlank= False;
    DataType
    ExtendDataType
    ExtendedDatatype
    RichDataType
  }
}
-----
var
  NonConformityComments: Text;
  
```

**ExtendedDataType property**

```

group(commentsGroup)
{
  field("comments"; NonConformityComments)
  {
    ApplicationArea = All;
    [ ]
    [ ] = [ ];
  }
}
-----
var
  NonConformityComments: Text;
  
```

**Question: 4**

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. 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: C, 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 Non-conformity 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 required 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 for information

Start of the declaration of the method or procedure to perform the tasks

**Data type or declaration**

ModuleDependencyInfo  
ModuleInfo  
SessionInformation

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.

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