MB-500 Q&As

Microsoft Dynamics 365 Finance and Operations Apps Developer

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QUESTION 1

You are a Dynamics 365 Finance developer.

Several users check out a custom form version control and modify the form.

You need to find the user that has added a specific line of code to the form.

What should you do?

A. Open the object in Object Designer, select the title of the object, and then right-click View History.

B. In Solution Explorer, navigate to the object and right-click View History.

C. Using Visual Studio, navigate to the object. Add the object to a new solution, and then right-click View History.

D. Using Visual Studio, navigate to the object in Application Explorer and right-click View History.

Correct Answer: B

Reference: https://dynamicsuser.net/ax/f/developers/93354/how-to-rollback-a-change-set-completely-automatically-in-tfs

QUESTION 2

A company uses Dynamics 365 Finance.

You create a new form that must have the ability to open from the menu.

You need to set up the form for the menu.

What should you add to the menu?

A. display menu item

B. menu reference

C. output menu item

D. action menu item

Correct Answer: A

Each form must have an associated Display Menu Item.

Each form must be directly accessible via its Display Menu Item.

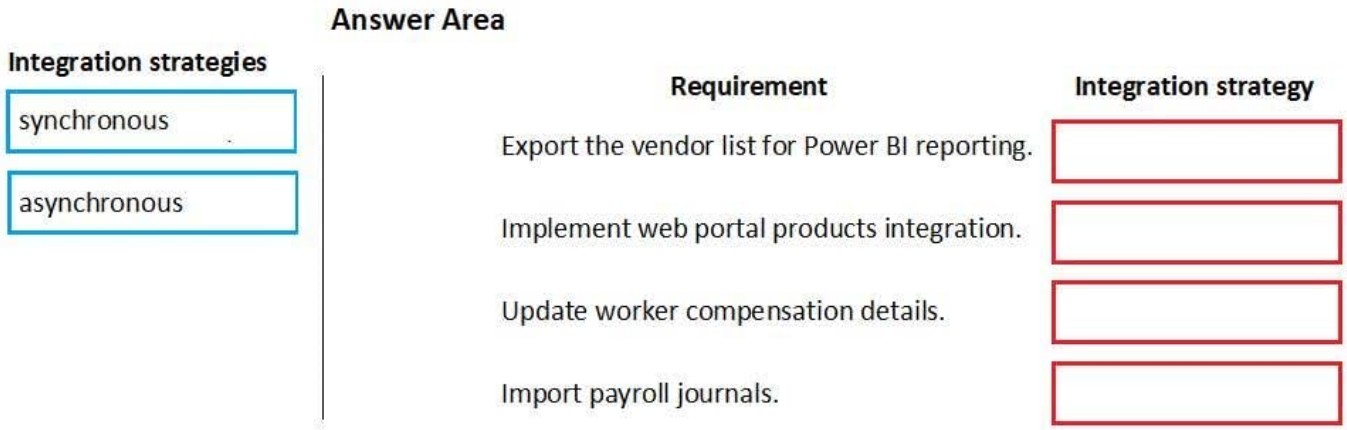
Reference: https://docs.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/mobile-apps/platform/form-design-requirements

QUESTION 3

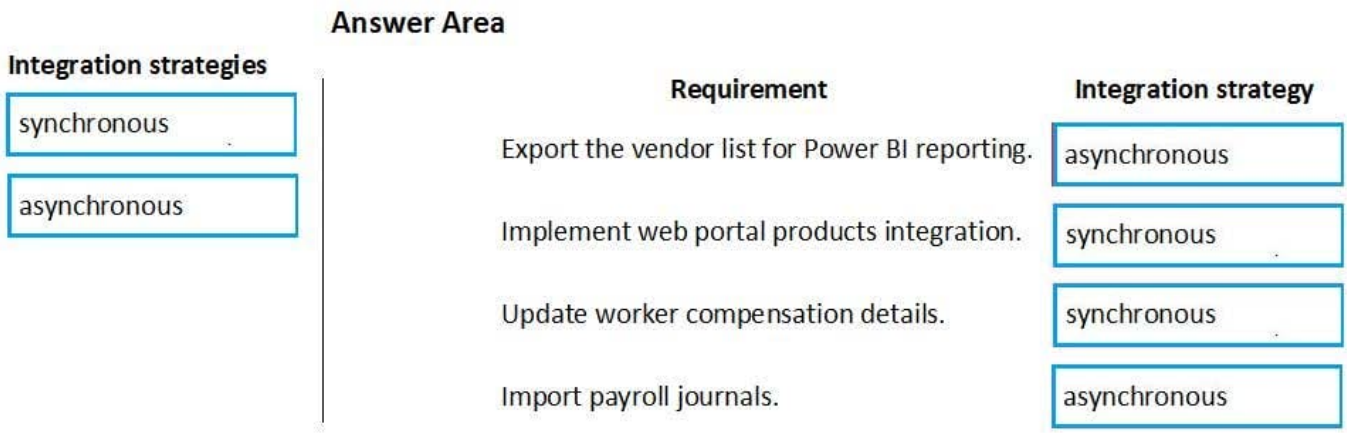
DRAG DROP You need to implement the company\\'s integration requirements. Which integration strategies should you use? To answer, drag the appropriate integration strategies to the correct requirements. Each integration strategy may be used once, more than once, or not at all. You may need to drag the split bar

between panes or scroll to view content. NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:



Box 1: asynchronous

An asynchronous pattern is a non-blocking pattern, where the caller submits the request and then continues without waiting for a response.

Box 2: Synchronous

A synchronous pattern is a blocking request and response pattern, where the caller is blocked until the callee has finished running and gives a response.

Box 3: Synchronous

Box 4: asynchronous

Batch data is asynchronous.

Reference:

https://docs.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/data-entities/integrationoverview#

synchronous-vs-asynchronous-integration-patterns

QUESTION 4

A company uses Dynamics 365 Finance.

You must create a process that updates the following:

1.

A single record for customer number A0001 in the customer table.

2.

The value of its customer group to 10. You need to implement the process. Which code segment should you use?

Name	Comments
AccountBase	Root EDT
AccountId	Derives from AccountBase

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

Update method.

The update method updates the current record with the contents of the buffer. It also updates the appropriate system fields. The optional where clause specifies a condition that the update method tests as it processes each row of the table.

Only those rows that test true against the condition are updated with the new values.

The following example selects the CustTable table for update. Only records where the value of the AccountNum field equals 4000 are updated. Because there is no call to next, and this example doesn\\'t use a select while statement, only one

record is updated. The value of the CreditMax field is changed to 5000.

CustTable custTable; ttsBegin; select forUpdate custTable

where custTable.AccountNum == \\'4000\\';

custTable.CreditMax = 5000;

custTable.update();

ttsCommit;

Note: forUpdate Checking

This check ensures that no record can be updated or deleted if the record has not first been selected for update. A record can be selected for update, either by using the forUpdate keyword in the select statement, or by using the

selectForUpdate method on tables.

ttsLevel Checking

This check ensures that no record can be updated or deleted except from within the same transaction scope as it was selected for update. Integrity is ensured by using the following statements:

ttsBegin: marks the beginning of a transaction. This ensures data integrity, and guarantees that all updates performed until the transaction ends (by ttsCommit or ttsAbort) are consistent (all or none).

ttsCommit: marks the successful end of a transaction. This ends and commits a transaction. MorphX guarantees that a committed transaction will be performed according to intentions.

Incorrect:

Not A; Use ttsBegin and ttsCommit.

There is also a typo in the last line:

ustTable.Update(); instead of custTable.Update();

Not B: need to use

where custTable.AccounntNum == \\'A0001\\'

to select the proper record.

Not C: Use select forupdate

Reference:

https://learn.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/dev-ref/xpp-data/xpp-update

https://learn.microsoft.com/en-us/dynamicsax-2012/developer/transaction-integrity

QUESTION 5

You are a Dynamics 365 Finance developer. You make changes to an existing custom class.

The code comparison tool shows version conflicts between your version and the latest checked-in version of the custom class.

In Visual Studio, you open the Source Control Explorer. You locate the latest changeset for the class and you open the changeset in Team Explorer.

You need to compare the latest code that is in source control with the code that you created.

Which option should you use?

A. Compare with Workspace Version

B. Compare with Previous Version

C. View History

D. Compare with Latest Version

Correct Answer: A

Reference: https://docs.microsoft.com/en-us/azure/devops/repos/tfvc/compare-files?view=azure-devops

QUESTION 6

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 uses Dynamics 365 Finance. You are customizing elements for the extended data types (EDTs) shown in the following table.

```
[ExtensionOf(classStr(SalesLineType))]
final class mySalesLineType_myExtension
{
  public int extensionMethodDayofWeek()
  {
    return dayofwk(systemDateGet());
  }
}
```

You have a table named WorkCalendar. The table has a column named BasicCalendarID that uses the BasicCalendarID EDT.

You need to increase the length of the column by using an extension.

Solution: Create an extension for CalendarID.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

We need to just extend CalendaID (not CalendarName).

Note: There are several properties that can be customized on existing extended data types (EDTs) through extension:

You can only set the new String size to a value equal to or larger than the base EDT value. Label Help text Form help Country region codes String size

Reference: https://docs.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/extensibility/modify-edt

QUESTION 7

You are a Dynamics 365 Finance developer. You need to create an extension class. Which action should you perform?

A. Mark the class as final.

B. Add the suffix .extension to the file name.

C. Mark the class as protected.

D. Mark the class as private.

Correct Answer: A

Extension classes are final classes that are adorned with the ExtensionOf attribute and that also have a name that has the _Extension suffix.

Because the classes are instantiated by the runtime system, it\\'s not meaningful to derive from the extension class. Therefore, the extension class must be marked as final.

Reference:

https://docs.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/extensibility/method-wrapping-coc

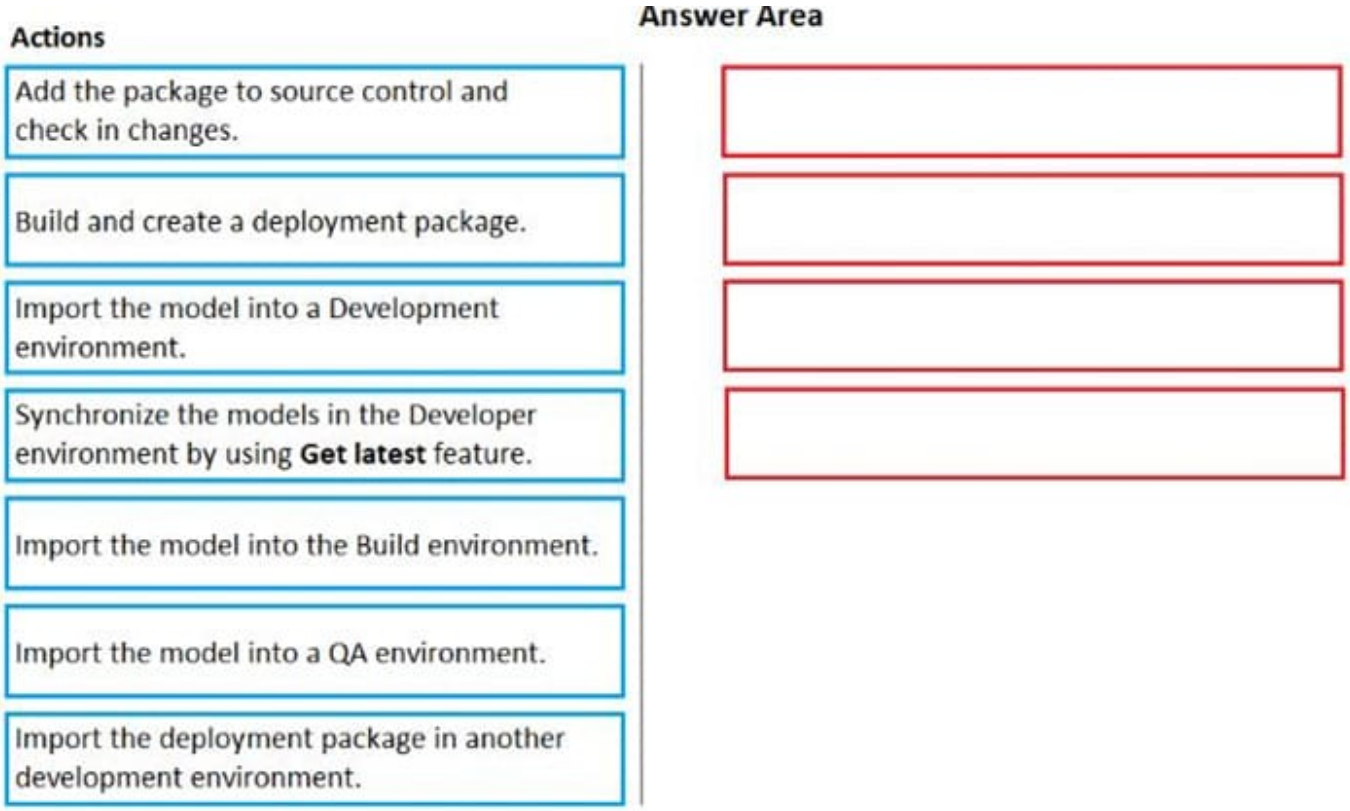
QUESTION 8

DRAG DROP

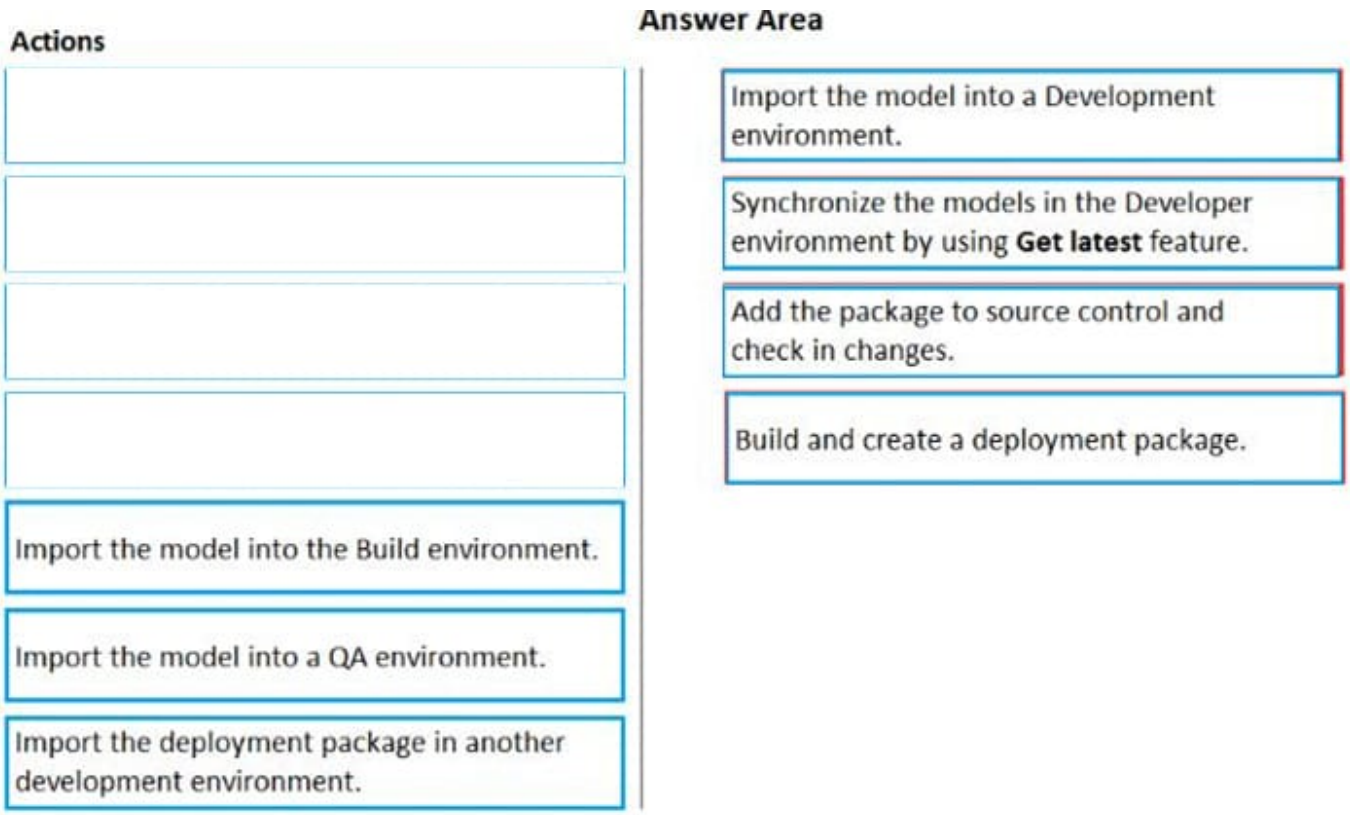
You need to deploy the web portal integration solution.

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

Select and Place:



Correct Answer:



QUESTION 9

You create a bring your own database (BYOD) entity that includes four tables.

You need to configure change tracking for specific fields in the entity.

Which option should you enable?

A. custom query

B. entire entity

C. entity export

D. primary table

Correct Answer: A

Reference: https://docs.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/data-entities/entity-change-track

QUESTION 10

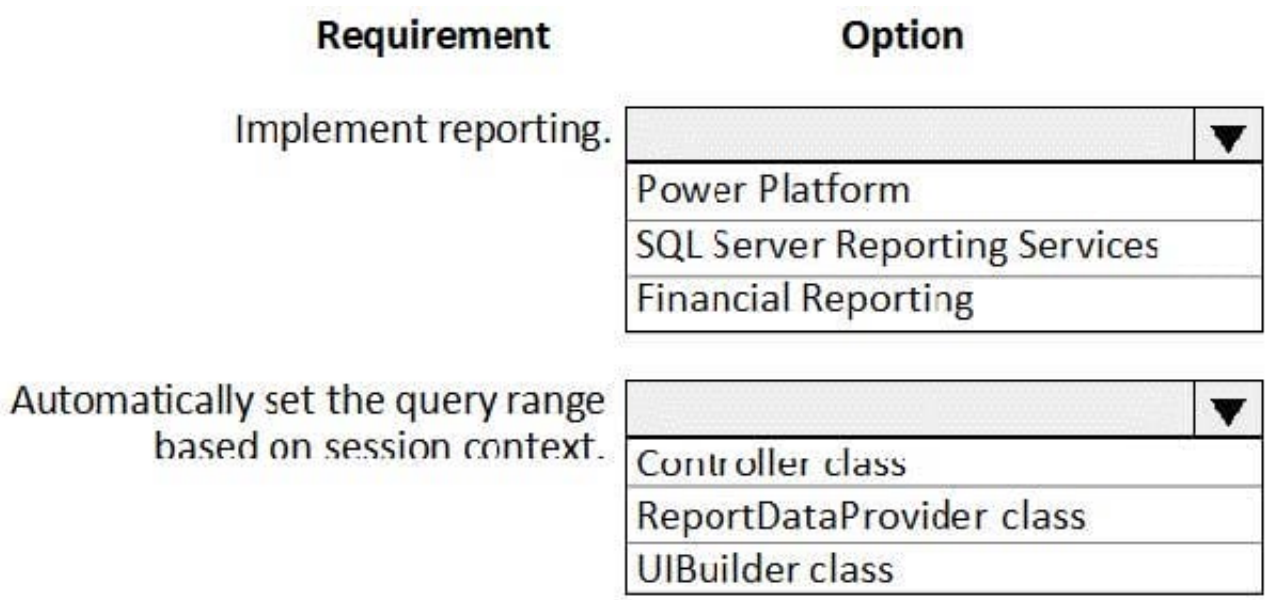
HOTSPOT

You need to implement the reporting requirements for the Vendor exclusion list.

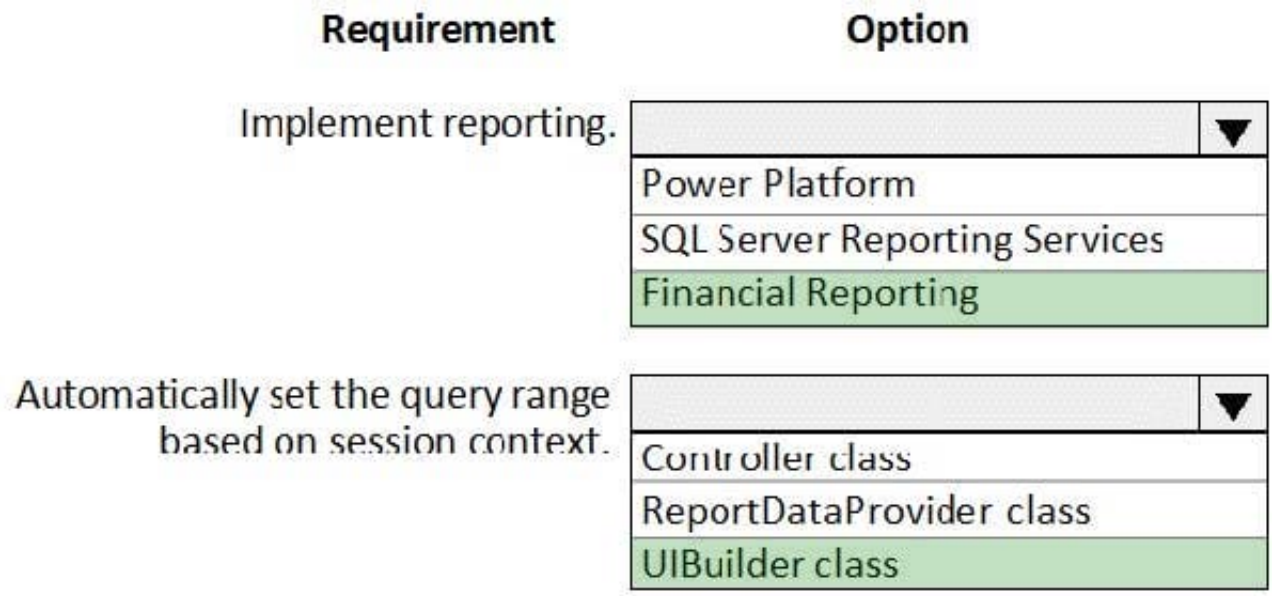
Which options you should use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Scenario: Provide functionality to periodically export the Vendor exclusion list to prepare reports by using standard reporting capabilities of Dynamics 365 Finance.

Box 1: Financial Reporting

The financial reporting functions are available to users who have the appropriate privileges and duties assigned to them through their security roles.

Box 2: UIBuilder class

Example:

Defining parameters defaulting using code

1.

In Solution Explorer, double-click on the FMRentalsByCustUIBuilder class to open the designer.

2.

Locate the class build method and update the initialization code.

The parameter initialization code sets the default values of the report execution relative to today\\'s date. Use the classes UIBuilder to override the framework\\'s default handling of report parameters.

Additional extension scenarios supported include:

Automatically set query ranges based on session context using Controller classes

Reference: https://docs.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/analytics/create-nextgenreporting-solutions https://docs.microsoft.com/en-us/dynamics365/finance/general-ledger/financial-reporting-gettingstarted

QUESTION 11

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 uses Dynamics 365 finance and operations apps.

You have a custom enumeration named CarType. The enumeration has the following elements: Sedan, SUV.

You must extend CarType and add a new element named MUV to CarType.

You need to develop a solution that meets the requirements.

Solution: Set the is Extensible property to true for the CarType enumeration. Create a new enumeration to add the MUV element.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

To add new values to an enum, you should extend the enum. Any enum that is marked as Extensible (IsExtensible = true) can be extended.

Note:

There are two ways to extend an enum:

*

Create a project that has a model reference where you want the new enum extension. Right-click the enum to extend, and then select Create extension.

*

Right-click the enum to extend, and then select Create extension in new project. You\\'re prompted to select the model that the extension enum should be created in.

The enum extension is created in the selected model. You can add new enum values to this extension. Reference: https://docs.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/extensibility/add-enum-value

QUESTION 12

HOTSPOT

You have a Dynamics 365 Finance and Operations environment.

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

```
01 class SalesPriceDiscount
02  {
03     ...
04     public void calculatePrice
05     {
06        ...
07     }
08     public static AmountCur getDiscount(Percent markup)
09     {
10        ...
11     }
12 }
13 [ExtensionOf(classStr(SalesPriceDiscount))]
14 final class SalesPriceDiscountMy_Extension
15 {
16     public void calculatePrice()
17     {
18     ...
19       next calculatePrice()
20       ...
21       }
22 }
```

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

Hot Area:

Answer Area

Statement	Yes	No
The calculatePrice() method in the extension class can access and manage public and protected methods and variables of the base class.	○	○
You can modify the calculatePrice() method in the extension class by adding conditional logic at line 20.	○	○
The static method getDiscount() in Line 10 of the base class can be wrapped and extended by adding business logic to the extension class.	○	○
The extension class can be instantiated by running the following code: `SalesPriceDiscountMy_Extension myInstance = new SalesPriceDiscountMy_Extension();`	○	○

Correct Answer:

Answer Area

Statement	Yes	No
The calculatePrice() method in the extension class can access and manage public and protected methods and variables of the base class.	○	○
You can modify the calculatePrice() method in the extension class by adding conditional logic at line 20.	○	○
The static method getDiscount() in Line 10 of the base class can be wrapped and extended by adding business logic to the extension class.	○	○
The extension class can be instantiated by running the following code: `SalesPriceDiscountMy_Extension myInstance = new SalesPriceDiscountMy_Extension();`	○	○

Box 1: Yes Class extension - Method wrapping and Chain of Command. The functionality for class extension, or class augmentation, has been improved. You can now wrap logic around methods that are defined in the base class that you\\'re augmenting. You can extend the logic of public and protected methods without having to use event handlers. When you wrap a method, you can also access public and protected methods, and variables of the base class. In this way, you can start transactions and easily manage state variables that are associated with your class.

Box 2: Yes In the following example, the wrapper around doSomething and the required use of the next keyword create a Chain of Command (CoC) for the method. CoC is a design pattern where a request is handled by a series of receivers. The pattern supports loose coupling of the sender and the receivers [ExtensionOf(classStr(BusinessLogic1))] final class BusinessLogic1_Extension {

```
 str doSomething(int arg)

{

 // Part 1

 var s = next doSomething(arg + 4);

 // Part 2

 return s;

 } }
```

Box 3: Yes

Instance and static methods can be wrapped by extension classes. If a static method is the target that will be wrapped, the method in the extension must be qualified by using the static keyword.

Box 4: No

Wrapper methods must always call next.

Note: Wrapper methods in an extension class must always call next, so that the next method in the chain and, finally, the original implementation are always called. This restriction helps guarantee that every method in the chain contributes to

the result.

In the current implementation of this restriction, the call to next must be in the first-level statements in the method body.

Here are some important rules:

Calls to next can\\'t be done conditionally inside an if statement.

Calls to next can\\'t be done in while, do-while, or for loop statements.

A next statement can\\'t be preceded by a return statement.

Because logical expressions are optimized, calls to next can\\'t occur in logical expressions. At runtime, the execution of the complete expression isn\\'t guaranteed.

Reference:

https://docs.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/extensibility/method-wrapping-coc

QUESTION 13

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution,

while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are adding a new field to the SalesTable form.

You must use an extension to add a status field onto the form.

You need to create the extension in the Application Object Tree (AOT) and add the extension to the demoExtensions model.

Solution: Navigate to the Visual Studio user interface forms extensions section for the SalesTable form and create an extension.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Reference:

https://stoneridgesoftware.com/how-to-extend-sales-order-update-functionality-to-custom-fields-in-d365- finance-and-operations/

QUESTION 14

HOTSPOT

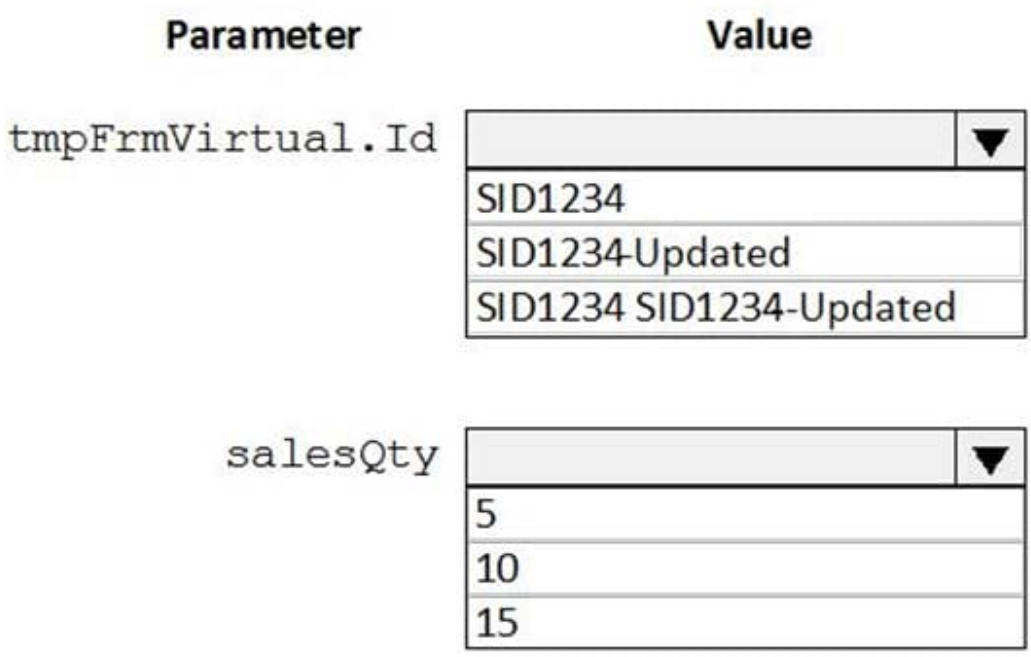
You are a Dynamics 365 Finance and Operations developer. You have the following code: (Line numbers are created for reference only.)

```
01 class TestQuestion
02 {
03   public static void main(Args _args)
04   {
05     TestQuestion testQuestion = new testQuestion();
06     testQuestion.run();
07   }
08   public void run()
09   {
10     TmpFrmVirtual tmpFrmVirtual;
11     str salesId;
12     int salesQty
13     tmpFrmVirtual.Id = "SID1234";
14     salesQty  = 5;
15     this.updateValues(tmpFrmVirtual, salesQty);
16     info(tmpFrmVirtual.Id);
17     info(salesQty);
18   }
19   public void updateValues(TmpFrmVirtual _tmpFrmVirtual, str _salesQty)
20   {
21     TmpFrmVirtual tmpFrmVirtual = _tmpFrmVirtual;
22     int salesQty = _salesQty;
23     tmpFrmVirtual.Id = "SID1234"-Updated";
24     salesQty = 10;
25   }
26 }
```

Which values does the info() method return? To answer, select the appropriate option in the answer area. NOTE: Each correct selection is worth one point.

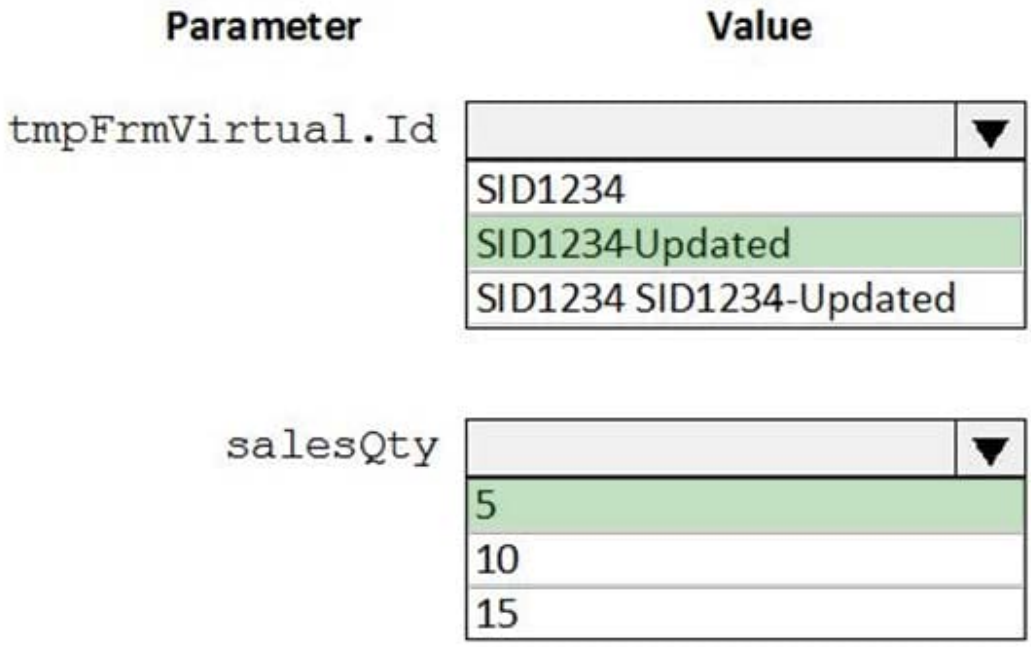
Hot Area:

Answer Area



Correct Answer:

Answer Area



Box 1: SID1234 Parameters All methods have their own scope. A method can take one or more parameters. Within the scope of the method, these parameters are treated as local variables and are initialized with a value from the parameter in the method call. All parameters are passed by value, which means that you can\\'t change the value of the original variable. You can change only the local variable in the method. This local variable is a copy of the original variable.

Box 2: 5

Reference: https://docs.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/dev-ref/xpp-classes-methods

QUESTION 15

You are a Dynamics 365 Finance and Operations developer.

You have a form that displays customer records by using a listpage control. You must add related sales total information for the selected customer to the form.

You need to display the required related sales total information.

What should you add to the form?

A. a custom lookup

B. a tile

C. a factbox

D. an external feed

E. a quick filter

Correct Answer: C

A list page presents a set of data on a user interface that is optimized so that you can browse records, find the right record, and then take an action upon that record. The list page lets the user search, filter, and sort the data. FactBoxes on the right side of the grid show related data for the active record.

Reference: https://docs.microsoft.com/en-us/dynamics365/fin-ops-core/dev-itpro/user-interface/list-page-form-pattern