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'S: Accessing Data with Microsoft .NET Framework 4: 70-516



Product Description Exam Number/Code: 70-516

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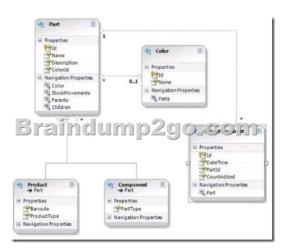
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QUESTION 11You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to create an application. The application contains the following XML fragment:<ApplicationMenu> <MenuItem name="File"> <MenuItem name="New"> <MenuItem n name="Project" /><MenuItem name="Web Site" /></MenuItem><MenuItem name="Open"><MenuItem name="Project" /> <MenuItem name="Web Site" /></MenuItem> <MenuItem name="Save" /></MenuItem><MenuItem name="Edit"><MenuItem name="Cut" /><MenuItem name="Paste" /></MenuItem name="Help"><MenuItem name="Help"><MenuItem name="Help" /><MenuItem name="About" /></MenuItem> </ApplicationMenu> The application queries the XML fragment by using the XmlDocument class. You need to select all the descendant elements of the MenuItem element that has its name attribute as File. Which XPath expression should you use? A. //*[@name='File'][name()='MenuItem']B. /ApplicationMenu/MenuItem['File']//MenuItemC. /ApplicationMenu/MenuItem/descendant::MenuItem['File']D. /ApplicationMenu/MenuItem[@name='File']/descendant::MenuItem Answer: DExplanation:XPath Examples:XmlNodeList nodes = doc.SelectNodes("/ApplicationMenu/MenuItem[@name='File']/descendant::MenuItem"); // 01 == 02XmlNodeList nodes = doc.SelectNodes("/ApplicationMenu/MenuItem[@name='File']//MenuItem"); // 02 == 01XmlNodeList nodes = doc.SelectNodes("/ApplicationMenu/MenuItem[2]/descendant::MenuItem"); // 03XmlNodeList nodes = doc.SelectNodes("/ApplicationMenu/MenuItem[last()]/descendant::MenuItem"); // 04XmlNodeList nodes = doc.SelectNodes("/ApplicationMenu/MenuItem/descendant::MenuItem[/ApplicationMenu/ MenuItem/@name=@name]"); // 05 XmlNodeList nodes = doc.SelectNodes("/ApplicationMenu/MenuItem/*"); // 06XmlNodeList nodes = doc.SelectNodes("/ApplicationMenu/MenuItem/descendant::*[@Description]"); //07XmlNodeList nodes = doc.SelectNodes("/ApplicationMenu/MenuItem[MenuItem][position()=2]"); // 08 == 09XmlNodeList nodes = doc.SelectNodes("/ApplicationMenu/MenuItem[MenuItem and position()=2]"); // 09 == 08XmlNodeList nodes = doc.SelectNodes("/ApplicationMenu/MenuItem[SubMenu or position()=2]"); // 10XPath Examples(http://msdn.microsoft.com/en-us/library/ms256086.aspx) QUESTION 12You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to create a Windows Communication Foundation (WCF) Data Services service. You deploy the service to the following URL: http://contoso.com/Northwind.svc. You want to query the WCF Data Services service to retrieve a list of customer objects. You need to ensure that the query meets the following requirements: - Only customers that match the following filter criteria are retrieved: City="Seattle" AND Level > 200. - Data is sorted in ascending order by the ContactName and Address properties. Which URL should you use for the query? A. http://contoso.com/Northwind.svc/Customers?City=Seattle & Level gt 200 & \$orderby=ContactName,AddressB. http://contoso.com/Northwind.svc/Customers?City=Seattle & Level gt 200 & \$orderby=ContactName and AddressC. http://contoso.com/Northwind.svc/Customers?\$filter=City eq 'Seattle' and Level gt 200 & \$orderby=ContactName,AddressD. http://contoso.com/Northwind.svc/Customers?\$filter=City eq 'Seattle' and Level gt 200 & \$orderby=ContactName and Address Answer: CExplanation:CHAPTER 7 WCF Data ServicesLesson 1: What Is WCF Data Services? Working with Filters (page 474) Accessing the Service from a Web Browser (WCF Data Services Quickstart) (http://msdn.microsoft.com/en-us/library/dd728279.aspx)Accessing Data Service Resources (WCF Data Services)(http://msdn.microsoft.com/en-us/library/dd728283.aspx) QUESTION 13You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to create a Windows Communication Foundation (WCF) Data Services service. You deploy the data service to the following URL: http://contoso.com/Northwind.svc.You need to update the City property of the Customer record that has its ID value as 123. You also need to preserve the current values of the remaining properties. Which HTTP request should you use? A. PUT /Northwind.svc/Customers(123) Host: contoso.com Content-Type: application/json { City: 'Seattle' }B. PUT /Northwind.svc/Customers(123) Host: contoso.com Accept: application/json { City: 'Seattle' }C. MERGE /Northwind.svc/Customers(123) Host: contoso.com Content-Type: application/json { City: 'Seattle' }D. MERGE /Northwind.svc/Customers(123) Host: contoso.com Accept: application/json { City: 'Seattle' } Answer: CExplanation:HTTP Actions OData supports the following HTTP actions to perform create, read, update, and delete operations on the entity data that the addressed resource represents:HTTP GET-This is the default action when a resource is accessed from a browser. No payload is supplied in the request message, and a response method with a payload that contains the requested data is returned.HTTP POST-Inserts new entity data into the supplied resource. Data to be inserted is supplied in the payload of the request message. The payload of the response message contains the data for the newly created entity. This includes any autogenerated key values. The header also contains the URI that addresses the new entity resource. HTTP DELETE-Deletes the entity data that the specified resource represents. A payload is not present in the request or response messages. HTTP PUT - Replaces existing entity data at the requested resource with new data that is supplied in the payload of the request message.HTTP MERGE-Because of inefficiencies in executing a delete followed by an insert in the data source just to change entity data, OData introduces a new HTTP MERGE action. The payload of the request message contains the properties that must be changed on the addressed entity resource. Because HTTP MERGE is not defined in the HTTP specification, it may require additional processing to route a HTTP MERGE request through non-OData aware servers. Accessing and Changing Data Using REST Semantics(http://msdn.microsoft.com/en-us/library/dd728282.aspx)HTTP header fields(http://en.wikipedia.org/wiki/List of HTTP header fields)Accept Content-Types that are acceptableContent-Type The mime type of the body of the request (used with POST and PUT requests) A Guide to Designing and Building RESTful WebServices with WCF 3.5 (http://msdn.microsoft.com/en-us/library/dd203052.aspx) VB ScenarioBackgroundYou are updating an existing Microsoft .NET Framework 4 application that includes a data layer built with ADO.NET Entity Framework 4. The application communicates with a Microsoft SQL Server 2008 instance named INST01 on a server named SQL01. The application stores data in a database named Contoso in the INST01 instance. You need to update the existing technology and develop new functionality by using Microsoft Visual Studio 2010. Application and Database Storage The application tracks bicycle parts as they pass through a factory. Parts are represented by the abstract Part entity and its associated partial classes. Each part has a name stored in the Name field and a unique identifier stored in the Id field. Parts are either component s (represented by the Component class) such as chains, wheels, and frames, or finished product s (represented by the Product class) such as completed bicycles. The Component class and the Product class derive from the Part class and may contain additional class-specific properties. Parts may have a color (represented by the Color class), but not all parts have a color, Parts may be composed of other parts, and those parts may in turn be composed of other parts; any p art represents a tree of the parts that are used to build it, The lowest level of the tree consists of c omponents that do not contain other components. A product is a p art that has been completed and is ready to leave the factory. A p roduct typically consists of many c omponents (forming a tree of child p arts) but can also be constructed by combining other p roducts and/or c omponents to form a bundled p roduct, such as a bicycle and a helmet that are sold together. C omponents and p roducts are stored in a database table named Parts by using a table-per-hierarchy (TPH) mapping. Components have a null ProductType field and a non-null PartType field. Products have a non-null ProductType field and a null PartType field. The following diagram illustrates the complete Entity data model diagram (EDMX diagram),



The following graphic illustrates detail s of the Part-Color Association.



The following code segments show relevant portions of the files referenced by the case study items. (Line numbers in the samples below are included for reference only and include a two-character prefix that denotes the specific file to which they belong.)





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CENTITYSetMapping Name="Farta">
CENTITYSetMapping Name="Farta">
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CENTITYPEMApping TypeSame="InTypeOf(Contoso.Model.Part)">
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CENTITYPEMAPPING TypeMapping
CENTITYPEMAPPING TypeMapping
CONTORMATORY Name="IntypeOf(Contoso.Model.Component)">
CENTITY
```

```
Model/Color.vb CLO1 Imports System.
CLO3 Imports System.Collections.Generic
CLO3 Imports System.Linq
CLO4 Imports System.Linq
CLO5
CLO6 Namespace Contoso.Model
CLO7
C F CHID COLOR Function ToString() As String
CL12 Public Overrides Function ToString(Me.Name) 6 ")"
CL14 CL15 End Class
CL16 CL17 End Class
CL16 CL17 End Namespace
```

```
Model/Component.vb CT01 Imports System. Imports System. Collections.Generic Imports System. Linq CT04 Imports System. Imports System. Text Imports System. Text Imports System. Text CT05 CT07 Namespace Contoso. Rodel CT07 CT11 CT11 CT12 CT12 CT13 CT14 CT15 CT16 End Class CT17 End Class CT17 Text CT17 Text
```



```
Model IName.vb

IM01 Namespace Contoso.Model

IM02

IM03 public Public Interface IName

IM05 End Interface

IM06

IM07 End Namespace
```

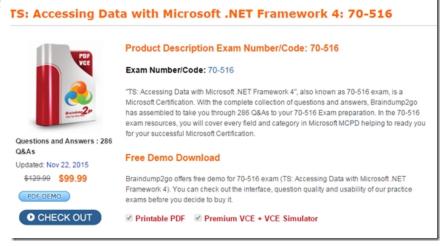
```
Model Part.vbModel Product.vb PR02 Imports System Collections.Generic Imports System.Collections.Generic Imports System.Imports System.Import
```

QUESTION 14You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to create an application. The application

connects to a Microsoft SQL Server 2008 database. The application uses DataContexts to query the database. You create a function that meets the following requirements: - Updates the Customer table on the database when a customer is marked as deleted. -Updates the related entries in other tables (CustomerAddress, CustomerContacts) by marking them as deleted. - Prevents consumer code from setting the Deleted column's value directly. You need to ensure that the function verifies that customers have no outstanding orders before they are marked as deleted. You also need to ensure that existing applications can use the update function without requiring changes in the code. What should you do? A. Override the Delete operation of the DataContext object.B. Override the Update operation of the DataContext object.C. Modify the SELECT SQL statement provided to the DataContext object to use an INNER JOIN between the Customer and Orders tables.D. Add new entities to the DataContext object for the Customers and Orders tables. Answer: A QUESTION 15You use Microsoft Visual Studio 2010 and the Microsoft .NET Framework 4.0 to create an application. The application connects to a Microsoft SQL Server database. The application uses DataContexts to query the database. You define a foreign key between the Customers and Orders tables in the database. You need to ensure that when you delete a customer record, the corresponding order records are deleted. You want to achieve this goal by using the minimum amount of development effort. What should you do? A. Override the Delete operation of the customer entity.B. Remove the foreign key between the Customers and Orders tables.C. Use the ExecuteDynamicDelete method of the DataContext object.D. Modify the foreign key between the Customers and Orders tables to enable the ON DELETE CASCADE option. Answer: DExplanation:DataContext.ExecuteDynamicDelete Method(http://msdn.microsoft.com/en-us/library/system.data.ling.datacontext.executedynamicdelete.aspx) QUESTION 16You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to create an application. The application connects to a Microsoft SQL Server database. The application uses DataContexts to query the database. The application meets the following requirements: -Stores customer data offline. - Allows users to update customer records while they are disconnected from the server. - Enables offline changes to be submitted back to the SQL Server by using the DataContext object. You need to ensure that the application can detect all conflicts that occur between the offline customer information submitted to the SQL Server and the server version. You also need to ensure that you can roll back local changes. What should you do? A. Add a try/catch statement around calls to the SubmitChanges method of the DataContext object and catch SqlExceptions.B. Add a try/catch statement around calls to the SubmitChanges method of the DataContext object and catch ChangeConflictExceptions.C. Override the Update operation of the DataContext object. Call the ExecuteDynamicUpdate method to generate the update SQL.D. Call the SubmitChanges method of the DataContext object. Pass System.Data.Ling.ConflictMode.ContinueOnConflict to the method. Answer: DExplanation: FailOnFirstConflict Specifies that attempts to update the database should stop immediately when the first concurrency conflict error is detected. Continue On Conflict Specifies that all updates to the database should be tried, and that concurrency conflicts should be accumulated and returned at the end of the process. ExecuteDynamicUpdate() Method Called inside update override methods to redelegate toLINQ to SQL the task of generating and executing dynamic SQL for update operations. Conflict Mode Enumeration (http://msdn.microsoft.com/en-us/library/bb345922.aspx)DataContext.ExecuteDynamicUpdate Method(http://msdn.microsoft.com/en-us/library/system.data.linq.datacontext.executedynamicupdate.aspx) QUESTION 17You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to create a multi-tier application. You use Microsoft ADO.NET Entity Data Model (EDM) to model entities. The model contains entities named SalesOrderHeader and SalesOrderDetail. For performance considerations in querying SalesOrderHeader, you detach SalesOrderDetail entities from ObjectContext. You need to ensure that changes made to existing SalesOrderDetail entities updated in other areas of your application are persisted to the database. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.) A. Re-attach the SalesOrderDetail entities.B. Set the MergeOption of SalesOrderDetail to MergeOptions.OverwriteChanges.C. Set the MergeOption of SalesOrderDetail to MergeOptions.NoTracking.D. Call ObjectContext.ApplyCurrentValue.E. Call ObjectContext.ApplyOriginalValue. Answer: AEExplanation:ApplyCurrentValues(Of TEntity) Copies the scalar values from the supplied object into the object in the ObjectContext that has the same key. The ApplyCurrentValues<TEntity> method is used to apply changes that were made to objects outside the ObjectContext, such as detached objects that are received by a Web service. The method copies the scalar values from the supplied object into the object in the ObjectContext that has the same key. You can use the EntityKey of the detached object to retrieve an instance of this object from the data source. Any values that differ from the original values of the object are marked as modified. Note, the method does not apply the current values to the related objects of currentEntity. ApplyOriginalValues(Of TEntity) Copies the scalar values from the supplied object into set of original values for the object in the ObjectContext that has the same key. The ApplyOriginalValues < TEntity > method is used to apply changes that were made to objects outside the ObjectContext, such as detached objects that are received by a Web service. The method copies the scalar values from the supplied object into the object in the ObjectContext that has the same key. You can use the EntityKey of the

detached object to retrieve an instance of this object from the data source. Any values that differ from the current values of the object are marked as modified. Note, the method does not apply the current values to the related objects of original Entity. QUESTION 18 You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to create an application. The application uses the ADO.NET Entity Framework to manage customer and related order records. You add a new order for an existing customer. You need to associate the Order entity with the Customer entity. What should you do? A. Set the Value property of the EntityReference of the Order entity.B. Call the Add method on the EntityCollection of the Order entity.C. Use the AddObject method of the ObjectContext to add both Order and Customer entities.D. Use the Attach method of the ObjectContext to add both Order and Customer entities. Answer: AExplanation:Entity Reference (Of Entity) Represents a related end of an association with a multiplicity of zero or one. QUESTION 19You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to create an application. The application connects to a Microsoft SQL Server database over the network. The application uses data from multiple related database tables. You need to ensure that the application can be used if the connection is disconnected or unavailable. Which object type should you use to store data from the database tables? A. DataSetB. DataAdapterC. DataReaderD. Data Services Answer: AExplanation: The DataSet, which is an in-memory cache of data retrieved from a data source, is a major component of the ADO.NET architecture. The DataSet consists of a collection of DataTable objects that you can relate to each other with DataRelation objects. You can also enforce data integrity in the DataSet by using the UniqueConstraint and ForeignKeyConstraint objects. QUESTION 20You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to create an application. You use a Table Adapter object to load a DataTable object. The DataTable object is used as the data source for a GridView control to display a table of customer information on a Web page. You need to ensure that the application meets the following requirements: - Load only new customer records each time the page refreshes. - Preserve existing customer records. What should you do? A. Set the ClearBeforeFill property of the TableAdapter to false. Use the Fill method of the TableAdapter.B. Set the ClearBeforeFill property of the TableAdapter to false. Use the GetData method of the TableAdapter to create a new DataTable.C. Set the ClearBeforeFill property of the TableAdapter to true. Use the Fill method of the TableAdapter to load additional customers.D. Set the ClearBeforeFill property of the TableAdapter to true. Use the GetData method of the TableAdapter to create a new DataTable. Answer: AExplanation: TableAdapter. Fill Populates the TableAdapter's associated data table with the results of the TableAdapter's SELECT command. Table Adapter. Update Sends changes back to the database. For more information, see How to: Update Data Using a TableAdapter. TableAdapter. GetData Returns a new DataTable filled with data. TableAdapter. Insert Creates a new row in the data table. For more information, see Howto: Add Rows to a DataTable.TableAdapter.ClearBeforeFill Determines whether a data table is emptied before you call one of the Fill methods. Table Adapter Overview(http://msdn.microsoft.com/en-us/library/bz9tthwx(v=vs.80).aspx) Braindump2go is famous for our Interactive Testing Engine that

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