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QUESTION 161 The database contains orphaned Color records that are no longer connected to Part records. You need to clean up the orphaned records. You have an existing ContosoEntities context object named context. Which code segment should you use?

A. `var unusedColors = context.Colors.Where(c => !c.Parts.Any()).ToList(); foreach (var unused in unusedColors){ context.DeleteObject(unused) } context.SaveChanges();`
B. `context.Colors.TakeWhile(c => !c.Parts.Any()); context.SaveChanges();`
C. `context.Colors.ToList().RemoveAll(c => !c.Parts.Any()); context.SaveChanges();`
D. `var unusedColors = context.Colors.Where(c => !c.Parts.Any()); context.DeleteObject(unusedColors); context.SaveChanges();`
Answer: A

QUESTION 162 You need to write a LINQ query that can be used against a ContosoEntities context object named context to find all parts that have a duplicate name. Which of the following queries should you use? (Each correct answer presents a complete solution. Choose two).

A. `context.Parts.Any(p => context.Parts.Any(q => p.Name == q.Name));`
B. `context.Parts.GroupBy(p => p.Name).Where(g => g.Count() > 1).SelectMany(x => x);`
C. `context.Parts.SelectMany(p => context.Parts.Where(q => p.Name == q.Name && p.Id != q.Id));`
D. `context.Parts.Where(p => context.Parts.Any(q => q.Name == p.Name && p.Id != q.Id));`
Answer: BD

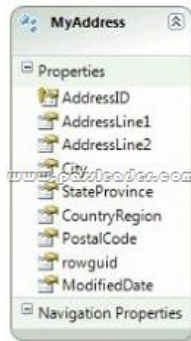
QUESTION 163 You add a table to the database to track changes to part names. The table stores the following row values: - the username of the user who made the change a part ID - the new part name a DateTime value You need to ensure detection of unauthorized changes to the row values. You also need to ensure that database users can view the original row values.

A. Add a column named signature. Use System.Security.Cryptography.RSA to create a signature for all of the row values. Store the signature in the signature column. Publish only the public key internally.
B. Add a column named hash. Use System.Security.Cryptography.MD5 to create an MD5 hash of the row values, and store in the hash column.
C. Use System.Security.Cryptography.RSA to encrypt all the row values. Publish only the key internally.
D. Use System.Security.Cryptography.DES to encrypt all the row values using an encryption key held by the application.
Answer: A

QUESTION 164 Drag and Drop Question The user interface requires that a paged view be displayed of all the products sorted in alphabetical order. The user interface supplies a current starting index and a page size in variables named startIndex and pageSize of type int. You need to construct a LINQ expression that will return the appropriate Parts from the database from an existing ContosoEntities context object named context. You begin by writing the following expression: `context.Parts` Which query parts should you use in sequence to complete the expression? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

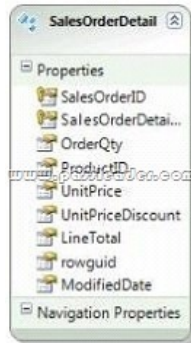
<code>.OrderBy(Function(x) x.Name)</code>
<code>.Skip(pageSize)</code>
<code>.Skip(startIndex)</code>
<code>.Take(pageSize)</code>
<code>.Take(startIndex)</code>

A. `context.Parts.Cast<Product>().Where(p => p.Descendants.Any(d => d is Product))` B. `context.Parts.Cast<Product>().ToList().Where(p => p.Descendants.Any(d => d is Product))` C. `context.Parts.Cast<Product>().Where(p => p.Descendants.Any(d => d is Product))` D. `context.Parts.Cast<Product>().ToList().Where(p => p.Descendants.Any(d => d is Product))` Answer: D Explanation: `OfType()` Filters the elements of an `IEnumerable` based on a specified type. `Enumerable.OfType<TResult>` Method <http://msdn.microsoft.com/en-us/library/bb360913.aspx> QUESTION 166 You use Microsoft .NET Framework 4.0 to develop an application that uses LINQ to SQL. The Product entity in the LINQ to SQL model contains a field named ProductImage. The ProductImage field holds a large amount of binary data. You need to ensure that the ProductImage field is retrieved from the database only when it is needed by the application. What should you do? A. Set the Update Check property on the ProductImage property of the Product entity to Never. B. Set the Auto-Sync property on the ProductImage property of the Product entity to Never. C. Set the Delay Loaded property on the ProductImage property of the Product entity to True. D. When the context is initialized, specify that the ProductImage property should not be retrieved by using `DataLoadOptions` Answer: C Explanation: Lazy loading is configured in the LINQ to SQL designer by selecting an entity and then, in the Properties window, setting the Delay Loaded property to true. The Delay Loaded property indicates that you want lazy loading of the column. CHAPTER 4 LINQ to SQL Lesson 1: What Is LINQ to SQL? Eager Loading vs. Lazy Loading (page 254) <http://geekswithblogs.net/AzamSharp/archive/2008/03/29/120847.aspx> <http://weblogs.asp.net/scottgu/archive/2007/05/29/linq-to-sql-part-2-defining-our-data-model-classes.aspx> QUESTION 167 You use Microsoft .NET Framework 4.0 to develop an application that uses Entity Framework. The application includes the following Entity SQL (ESQL) query. `SELECT VALUE product FROM AdventureWorksEntities.Products AS product ORDER BY product.ListPrice` You need to modify the query to support paging of the query results. Which query should you use? A. `SELECT TOP Stop VALUE product FROM AdventureWorksEntities.Products AS product ORDER BY product.ListPrice SKIP @skip` B. `SELECT VALUE product FROM AdventureWorksEntities.Products AS product ORDER BY product.ListPrice SKIP @skip LIMIT @limit` C. `SELECT SKIP @skip VALUE product FROM AdventureWorksEntities.Products AS product ORDER BY product.ListPrice LIMIT @limit` D. `SELECT SKIP @skip TOP Stop VALUE product FROM AdventureWorksEntities.Products AS product ORDER BY product.ListPrice` Answer: B Explanation: Entity SQL Reference <http://msdn.microsoft.com/en-us/library/bb387118.aspx> How to: Page Through Query Results <http://msdn.microsoft.com/en-us/library/bb738702.aspx> QUESTION 168 You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to develop an application. You use the Entity Framework Designer to create the following Entity Data Model. The application contains a class as shown in the following code segment. (Line numbers are included for reference only.)
01 `public class MyBaseClass : EntityObject`
02 {
03 `?;`
04 }
You need to ensure that all generated entities inherit from `MyBaseClass`. What should you do?



A. Change `MyBaseClass` to inherit from `ObjectContext`. B. Create a new `ObjectQuery` that uses `MyBaseClass` as the type parameter. C. Modify the generated code file so that all entities inherit from `MyBaseClass`. D. Use the ADO.NET EntityObject Generator template to configure all entities to inherit from `MyBaseClass`. Answer: D Explanation: You can use the Text Template Transformation Toolkit (T4) to

generate your entity classes, and Visual Studio .NET provides the T4 EntityObject Generator template by which you can control the entity object generation. Visual Studio .NET also provides the T4 SelfTracking Entity Generator template by which you can create and control the Add an EntityObject Generator to your project and add the new modification to the text template.self-tracking entity classes. Add an EntityObject Generator to your project and add the new modification to the text template. CHAPTER 6 ADO.NET Entity Framework Lesson 1: What Is the ADO.NET Entity Framework? The EntityObject Generator (page 403-404) <http://blogs.msdn.com/b/efdesign/archive/2009/01/22/customizing-entity-classes-with-t4.aspx> QUESTION 169 You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to develop an application that uses the Entity Framework. The application defines the following Entity Data Model. Within the .edmx file, the following function is defined: <Function Name=?Round? ReturnType=?Decimal?> <Parameter Name=?val? Type=?Decimal? /> <DefiningExpression> CAST(val as Edm.Int32) </DefiningExpression> </Function> The application includes the following LINQ query. var query = from detail in context.SalesOrderDetails select detail.LineTotal.Round(); You need to ensure that the Round function executes on the database server when the query is executed. Which code segment should you use?



- A. public static class DecimalHelper { [EdmFunction("SqlServer", "Round")]
 public static Decimal Round(this Decimal Amt) { throw
 new NotSupportedException(); } } B. public static class DecimalHelper {
 [EdmFunction("Edm", "Round")] public static Decimal Round(this Decimal Amt)
 { throw new NotSupportedException(); } }
 C. public static class DecimalHelper { public static SqlDecimal Round(this Decimal
 input) { return SqlDecimal.Round(input, 0); } }
 D. public static class DecimalHelper { public static Decimal Round(this Decimal input)
 { return (Decimal)(Int32)input; } } Answer: B

Explanation: EdmFunctionAttribute Class

<http://msdn.microsoft.com/en-us/library/system.data.objects.dataclasses.edmfunctionattribute.aspx> How to: Call Model-Defined Functions in Queries <http://msdn.microsoft.com/en-us/library/dd456857.aspx> The model-defined function has been created in the conceptual model, but you still need a way to connect your code to it. To do so, add a function into your C# code, which will have to be annotated with the EdmFunctionAttribute attribute. This function can be another instance method of the class itself, but best practice is to create a separate class and define this method as static. QUESTION 170 You use Microsoft .NET Framework 4.0 to develop an application. You write the following code to update data in a Microsoft SQL Server 2008 database. (Line numbers are included for reference only.) 01 private void ExecuteUpdate(SqlCommand cmd, string connString, string updateStmt) 02 { 03 ... 04 } You need to ensure that the update statement executes and that the application avoids connection leaks. Which code segment should you insert at line 03? A. SqlConnection conn = new SqlConnection(connString); conn.Open(); cmd.Connection = conn; cmd.CommandText = updateStmt; cmd.ExecuteNonQuery(); cmd.Connection.Close(); B. using (SqlConnection conn = new SqlConnection(connString)) { cmd.Connection = conn; cmd.CommandText = updateStmt; cmd.ExecuteNonQuery(); cmd.Connection.Close(); } C. using (SqlConnection conn = new SqlConnection(connString)) { conn.Open(); cmd.Connection = conn; cmd.CommandText = updateStmt; cmd.ExecuteNonQuery(); } D. SqlConnection conn = new SqlConnection(connString); conn.Open(); cmd.Connection = conn;

cmd.CommandText = updateStmt; cmd.ExecuteNonQuery(); Answer: C Explanation:

<http://stackoverflow.com/questions/376068/does-end-using-close-an-open-sql-connection>

<http://www.w3enterprises.com/articles/using.aspx> <http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqlconnection.aspx>



<http://www.passleader.com/70-516.html> QUESTION 171 You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to develop an application. You use the Entity Framework Designer to create an Entity Data Model (EDM). You need to create a database creation script for the EDM. What should you do? A. Use a new Self-Tracking Entities template. B. Drag entities to Server Explorer. C. Run the Generate Database command. D. Select Run Custom Tool from the solution menu. Answer: C Explanation: You can generate the database from the conceptual model: Right-click the Entity Framework designer surface and then choose Generate Database From Model. The script has been created and saved to a file, but it has not been executed. Model First

<http://blogs.msdn.com/b/efdesign/archive/2008/09/10/model-first.aspx>

QUESTION 172 You use Microsoft .NET Framework 4.0 to develop an application that connects to a Microsoft SQL Server 2008 database. You need to ensure that the application connects to the database server by using SQL Server authentication. Which connection string should you use? A. SERVER=MyServer; DATABASE=AdventureWorks; Integrated Security=SSPI; UID=sa; PWD=secret;

B. SERVER=MyServer; DATABASE=AdventureWorks; UID=sa; PWD=secret;

C. SERVER=MyServer; DATABASE=AdventureWorks; Integrated Security=false;

D. SERVER=MyServer; DATABASE=AdventureWorks; Trusted Connection=true; Answer: B

Explanation: SQL Server authentication using the passed-in user name and password. User ID, Uid, User, Password, Pwd

Connection String Syntax (ADO.NET) <http://msdn.microsoft.com/en-us/library/ms254500.aspx>

QUESTION 173 You use Microsoft .NET Framework 4.0 to develop an application that connects to a Microsoft SQL Server 2008 database. You add the following stored procedure to the database. CREATE PROCEDURE dbo.GetClassAndStudents AS BEGIN SELECT * FROM dbo.Class SELECT * FROM dbo.Student END You create a SqlConnection named conn that connects to the database. You need to fill a DataSet from the result that is returned by the stored procedure. The first result set must be added to a DataTable named Class, and the second result set must be added to a DataTable named Student. Which code segment should you use?

A. DataSet ds = new DataSet(); SqlDataAdapter ad = new SqlDataAdapter(?GetClassAndStudents?, conn);

ds.Tables.Add(?Class?); ds.Tables.Add(?Student?); ad.Fill(ds); B. DataSet ds = new DataSet();

SqlDataAdapter ad = new SqlDataAdapter(?GetClassAndStudents?, conn); ad.TableMappings.Add("Table?", ?Class?);

ad.TableMappings.Add(?Table1?, ?Student?); ad.Fill(ds); C. DataSet ds = new DataSet();

SqlDataAdapter ad = new SqlDataAdapter(?GetClassAndStudents?, conn); ad.MissingMappingAction =

MissingMappingAction.Ignore; ad.Fill(ds, ?Class?); ad.Fill(ds, ?Student?); D. DataSet ds = new

DataSet(); SqlDataAdapter ad = new SqlDataAdapter(?GetClassAndStudents?, conn); ad.Fill(ds); Answer: B Explanation:

<http://msdn.microsoft.com/en-us/library/ms810286.aspx>

QUESTION 174 You use Microsoft .NET Framework 4.0 to develop an application that uses the Entity Framework. The application defines the following Entity SQL (ESQL) query, which must be executed against the mode. string prodQuery = ?select value p from Products as p where p.ProductCategory.Name = @p0?; You need to execute the query. Which code segment should you use? A. var prods =

ctx.CreateQuery<Product>(prodQuery, new ObjectParameter("p0", "Road Bikes")).ToList(); B. var prods =

ctx.ExecuteStoreCommand(prodQuery, new ObjectParameter("p0", "Road Bikes")).ToList(); C. var

prods = ctx.ExecuteFunction<Product>(prodQuery, new ObjectParameter("p0", "Road Bikes")).ToList();

D. var prods = ctx.ExecuteStoreQuery<Product>(prodQuery, new ObjectParameter("p0", "Road

Bikes")).ToList(); Answer: A Explanation: CreateQuery<T>-Creates an ObjectQuery<T> in the current object context by using

the specified query string. ExecuteStoreCommand-Executes an arbitrary command directly against the data source using the

existing connection. ExecuteFunction(String, ObjectParameter[]) -Executes a stored procedure or function that is defined in the

data source and expressed in the conceptual model; discards any results returned from the function; and returns the number of rows

affected by the execution. `ExecuteStoreQuery<TElement>(String, Object[])`-Executes a query directly against the data source that returns a sequence of typed results. `ObjectContext.CreateQuery<T>` Method

<http://msdn.microsoft.com/en-us/library/bb339670.aspx> QUESTION 175 You use Microsoft .NET Framework 4.0 to develop an application that connects to a Microsoft SQL Server 2008 database. The application uses nested transaction scopes. An inner transaction scope contains code that inserts records into the database. You need to ensure that the inner transaction can successfully commit even if the outer transaction rolls back. What are two possible `TransactionScope` constructors that you can use for the inner transaction to achieve this goal? (Each correct answer presents a complete solution. Choose two.) A. `TransactionScope(TransactionScopeOption.Required)` B. `TransactionScope()` C. `TransactionScope(TransactionScopeOption.RequiresNew)` D. `TransactionScope(TransactionScopeOption.Suppress)` Answer: CD Explanation: Required-A transaction is required by the scope. It uses an ambient transaction if one already exists. Otherwise, it creates a new transaction before entering the scope. This is the default value. RequiresNew-A new transaction is always created for the scope. Suppress-The ambient transaction context is suppressed when creating the scope. All operations within the scope are done without an ambient transaction context.

`TransactionScopeOption` Enumeration <http://msdn.microsoft.com/en-us/library/system.transactions.transactionscopeoption.aspx> QUESTION 176 You 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 database includes a table that contains information about all the employees. The database table has a field named `EmployeeType` that identifies whether an employee is a Contractor or a Permanent employee. You declare the `Employee` entity base type. You create a new Association entity named `Contractor` that inherits the `Employee` base type. You need to ensure that all Contractors are bound to the Contractor class. What should you do?

A. Modify the .edmx file to include the following line of code: `<NavigationProperty Name="Type" FromRole="EmployeeType" ToRole="Contractor" />` B. Modify the .edmx file to include the following line of code: `<Condition ColumnName="EmployeeType" Value="Contractor" />` C. Use the Entity Data Model Designer to set up an association between the Contractor class and `EmployeeType`. D. Use the Entity Data Model Designer to set up a referential constraint between the primary key of the Contractor class and `EmployeeType`. Answer: B Explanation: `<Association Name="FK_OrderDetails_Orders1"> <End Role="Orders" Type="StoreDB.Store.Orders" Multiplicity="1"> <OnDelete Action="Cascade" /> </End> <End Role="OrderDetails" Type="StoreDB.Store.OrderDetails" Multiplicity="*" /> <ReferentialConstraint> <Principal Role="Orders"> <PropertyRef Name="ID" /> </Principal> <Dependent Role="OrderDetails"> <PropertyRef Name="OrderId" /> </Dependent> </ReferentialConstraint> </Association>` QUESTION 177 You use Microsoft Visual Studio 2010 and Microsoft ADO.NET Framework 4.0 to create an application. The application connects to a Microsoft SQL Server 2008 database. You use the ADO.NET LINQ to SQL model to retrieve data from the database. You use stored procedures to return multiple result sets. You need to ensure that the result sets are returned as strongly typed values. What should you do? A. Apply the `FunctionAttribute` and `ResultTypeAttribute` to the stored procedure function. Use the `GetResult<TElement>` method to obtain an enumerator of the correct type. B. Apply the `FunctionAttribute` and `ParameterAttribute` to the stored procedure function and directly access the strongly typed object from the results collection. C. Apply the `ResultTypeAttribute` to the stored procedure function and directly access the strongly typed object from the results collection. D. Apply the `ParameterAttribute` to the stored procedure function. Use the `GetResult<TElement>` method to obtain an enumerator of the correct type. Answer: A Explanation: You must use the `IMultipleResults.GetResult<TElement>` Method pattern to obtain an enumerator of the correct type, based on your knowledge of the stored procedure. `FunctionAttribute` Associates a method with a stored procedure or user-defined function in the database. `IMultipleResults.GetResult<TElement>` Method

<http://msdn.microsoft.com/en-us/library/bb534218.aspx> QUESTION 178 You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to create an application. You create stored procedures by using the following signatures: `CREATE procedure [dbo].[Product_Insert](@name varchar(50),@price float)` `CREATE procedure [dbo].[Product_Update](@id int, @name varchar(50), @price float)` `CREATE procedure [dbo].[Product_Delete](@id int)` `CREATE procedure [dbo].[Order_Insert](@productId int, @quantity int)` `CREATE procedure [dbo].[Order_Update](@id int, @quantity int,@originalTimestamp timestamp)` `CREATE procedure [dbo].[Order_Delete](@id int)` You create a Microsoft ADO.NET Entity Data Model (EDM) by using the Product and Order entities as shown in the exhibit. You need to map the Product and Order entities to the stored procedures. To which two procedures should you add the `@productId` parameter? (Each correct answer presents part of the solution. Choose two.)



A. Product_Delete B. Product_Update C. Order_Delete
D. Order_Update Answer: CD QUESTION 179 You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to create an application. You use Plain Old CLR objects (POCO) to model your entities. The application communicates with a Windows Communication Foundation (WCF) Data Services service. You need to ensure that entities can be sent to the service as XML. What should you do? A. Apply the virtual keyword to the entity properties. B. Apply the [Serializable] attribute to the entities. C. Apply the [DataContract(IsReference = true)] attribute to the entities. D. Apply the [DataContract(IsReference = false)] attribute to the entities. Answer: C Explanation: DataContractAttribute Specifies that the type defines or implements a data contract and is serializable by a serializer, such as the DataContractSerializer. To make their type serializable, type authors must define a data contract for their type. IsReference Gets or sets a value that indicates whether to preserve object reference data. QUESTION 180 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 model entities. You need to create a database from your model. What should you do? A. Run the edmgene.exe tool in FullGeneration mode. B. Run the edmgene.exe tool in FromSSDLGeneration mode. C. Use the Update Model Wizard in Visual Studio. D. Use the Generate Database Wizard in Visual Studio. Run the resulting script against a Microsoft SQL Server database. Answer: D Explanation: To update the database, right-click the Entity Framework designer surface and choose Generate Database From Model. The Generate Database Wizard produces a SQL script file that you can edit and execute.

Why Not T
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