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



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QUESTION 91 You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to develop an application that uses the ADO.NET Entity Framework to model entities. You create an entity model as shown in the following diagram. You need to ensure that all Person entities and their associated EmailAddresses are loaded. Which code segment should you use? A. `var people = context.People.Include("EmailAddresses").ToList();` B. `var people = context.People.Except(new ObjectQuery<Person>("Person.EmailAddresses", context)).ToList();` C. `var people = context.People.Except(new ObjectQuery<Person>("EmailAddresses", context)).ToList();` D. `var people = context.People.Include("Person.EmailAddresses").ToList();` Answer: A Explanation: CHAPTER 6 ADO.NET Entity Framework Lesson 1: What Is the ADO.NET Entity Framework? Lazy Loading vs. Explicit Loading vs. Eager Loading (page 384)

<http://msdn.microsoft.com/en-us/library/bb896272.aspx> QUESTION 92 You use Microsoft .NET Framework 4.0 to develop an application that connects to a local Microsoft SQL Server 2008 database. The application can access a high-resolution timer. You need to display the elapsed time, in sub-milliseconds (<1 millisecond), that a database query takes to execute. Which code segment should you use? A. `int Start = Environment.TickCount; command.ExecuteNonQuery(); int Elapsed = (Environment.TickCount) - Start; Console.WriteLine("Time Elapsed: {0:N} ms", Elapsed);` B. `Stopwatch sw = Stopwatch.StartNew(); command.ExecuteNonQuery(); sw.Stop(); Console.WriteLine("Time Elapsed: {0:N} ms", sw.Elapsed.TotalMilliseconds);` C. `DateTime Start = DateTime.UtcNow; command.ExecuteNonQuery(); TimeSpan Elapsed = DateTime.UtcNow - Start; Console.WriteLine("Time Elapsed: {0:N} ms", Elapsed.Milliseconds);` D. `Stopwatch sw = new Stopwatch(); sw.Start(); command.ExecuteNonQuery(); sw.Stop(); Console.WriteLine("Time Elapsed: {0:N} ms", sw.Elapsed.Milliseconds);` Answer: D Explanation: Stopwatch Class (<http://msdn.microsoft.com/en-us/library/system.diagnostics.stopwatch.aspx>) QUESTION 93 You use Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to develop an application. You use the ADO.NET Entity Framework Designer to model entities. You need to associate a previously deserialized entity named person1 to an object context named model and persist changes to the database. Which code segment should you use? A. `person1.AcceptChanges(); model.SaveChanges();` B. `model.People.ApplyChanges(person1); model.SaveChanges();` C. `model.AttachTo("People", person1);`

model.SaveChanges();D. model.People.Attach(person1); model.SaveChanges(); Answer: CExplanation:Cosiderations from Attaching and Detaching objects (<http://msdn.microsoft.com/en-us/library/bb896271.aspx>):The object that is passed to the Attach method must have a valid EntityKey value. If the object does not have a valid EntityKey value, use the AttachTo method to specify the name of the entity set.Attach Use the Attach method ofObjectContext where the method accepts a single typed entity parameter. AttachTo The AttachTo method ofObjectContext accepts two parameters. The first parameter is a string containing the name of the entity set. The second parameter' type is object and references the entity you want to add. Attach The Attach method of ObjectSet, which is the entity set' type, accepts a single typed parameter containing the entity to be added to the ObjectSet.CHAPTER 6 ADO.NET Entity FrameworkLesson 2: Querying and Updating with the Entity Framework Attaching Entities to an ObjectContext(page 437)Attaching and Detaching objects(<http://msdn.microsoft.com/en-us/library/bb896271.aspx>)
[http://msdn.microsoft.com/en-us/library/bb896248\(v=vs.90\).aspx](http://msdn.microsoft.com/en-us/library/bb896248(v=vs.90).aspx)<http://msdn.microsoft.com/en-us/library/bb896248.aspx>

QUESTION 94You use Microsoft .NET Framework 4.0 to develop an application that uses WCF Data Services to persist entities from the following Entity Data Model.You create a new Blog instance named newBlog and a new Post instance named newPost as shown in the following code segment. (Line numbers are included for reference only.)01 Blog newBlog = new Blog();02 Post newPost = new Post();0304 Uri serviceUri = new Uri("?");05 BlogsEntities context = new BlogsEntities(serviceUri); 06You need to ensure that newPost is related to newBlog through the Posts collection property and that newPost and newBlog are sent to the service.Which code segment should you insert at line 06? A. context.AttachLink(newBlog, "Posts", newPost); context.SaveChanges(SaveChangesOptions.Batch) ;B. newBlog.Posts.Add(newPost); context.AddToBlogs(newBlog); context.AddToPosts(newPost);context.SaveChanges(SaveChangesOptions.Batch);C. newBlog.Posts.Add(newPost); context.AttachTo("Blogs", newBlog); context.AttachTo("Posts", newPost);context.SaveChanges(SaveChangesOptions.Batch);D. newBlog.Posts.Add(newPost); context.UpdateObject(newBlog); context.UpdateObject(newPost); context.SaveChanges(SaveChangesOptions.Batch); Answer: CExplanation:Attaching and Detaching objects(<http://msdn.microsoft.com/en-us/library/bb896271.aspx>)

QUESTION 95You use Microsoft .NET Framework 4.0 to develop an application that connects to a Microsoft SQL Server 2008 database. The application includes a table adapter named taStore, which has the following DataTable.There is a row in the database that has a ProductID of 680. You need to change the Name column in the row to "New Product Name".Which code segment should you use? A. var dt = new taStore.ProductDataTable();var ta = new taStoreTableAdapters.ProductTableAdapter();ta.Fill(dt);taStore.ProductRow row = (taStore.ProductRow)dt.Rows.Find(680) ; row.Name = "New Product Name"; ta.Update(row);B. var ta = new taStoreTableAdapters.ProductTableAdapter(); var dt = ta.GetData();var row = dt.Select("680") ;row[0]["Name"] = "New Product Name";ta.Update(row);C. var dt = new taStore.ProductDataTable();var ta = new taStoreTableAdapters.ProductTableAdapter();ta.Fill(dt);var dv = new DataView(); dv.RowFilter = "680";dv[0]["Name"] = "New Product Name";ta.Update(dt);D. var dt = new taStore.ProductDataTable(); var row = dt.NewProductRow(); row.ProductID = 680;row.Name = "New Product Name"; dt.Rows.Add(row) ; Answer: AExplanation: DataRowCollection.Find() Method To use the Find method, the DataTable object to which the DataRowCollection object belongs to must have at least one column designated as a primary key column. See the PrimaryKey property for details on creating a PrimaryKey column, or an array of DataColumn objects when the table has more than one primary key.var dt = new CustomersDS.CustomersDataTable();var ta = new CustomersDSTableAdapters.CustomersTableAdapter();ta.Fill(dt); CustomersDS.CustomersRow row = (CustomersDS.CustomersRow)dt.Rows.Find(4); row.Name = "A. Found Customer Id"; ta.Update(row);DataTable.Select() Method Gets an array of all DataRow objects that match the filter criteria. To create the filterExpression argument,use the same rules that apply to the DataColumn class's Expression property value for creating filters.var ta = new CustomersDSTableAdapters.CustomersTableAdapter();var dt = ta.GetData();var row = dt.Select("CustomerID > 2"); row[0]["Name"] = "B. Found Customer Id";ta.Update(row);TableAdapter Overview([http://msdn.microsoft.com/en-us/library/bz9tthwx\(v=vs.80\).aspx](http://msdn.microsoft.com/en-us/library/bz9tthwx(v=vs.80).aspx))

QUESTION 96You use Microsoft .NET Framework 4.0 to develop an application that exposes a WCF Data Services endpoint.The endpoint uses an authentication scheme that requires an HTTP request that has the following header format.GET /OData.svc/Products(1)Authorization: WRAP access_token "123456789" You add the following method to your DataService implementation.01 protected override void OnStartProcessingRequest(ProcessRequestArgs args) 02 {0304 }You need to ensure that the method retrieves the authentication token. Which line of code should you use? A. string token = args.OperationContext.RequestHeaders["Authorization"];B. string token = args.OperationContext.RequestHeaders["WRAP access_token"];C. string token = args.OperationContext.ResponseHeaders["Authorization"];D. string token = args.OperationContext.ResponseHeaders["WRAP access_token"]; Answer: AExplanation:OData and Authentication-OAuth WRAP (<http://blogs.msdn.com/b/astoriateam/archive/2010/08/19/odata-and-authentication-part-8-oauth-wrap.aspx>)

QUESTION 97You use

Microsoft Visual Studio 2010 and Microsoft .NET Framework 4.0 to develop an application that connects to a Microsoft SQL Server 2008 database. You use the ADO.NET Entity Framework Designer to model entities. You add the following stored procedure to the database, and you add a function import to the model. CREATE PROCEDURE [dbo].[InsertDepartment] @Name nvarchar(50), @ID int NULL OUTPUT AS INSERT INTO Department (Name) VALUES (@Name) SELECT @ID = SCOPE_IDENTITY() You need to insert a new department and display the generated ID. Which code segment should you use? A. using (SchoolEntities context = new SchoolEntities()) { var id = new ObjectParameter("ID", typeof(int)); context.InsertDepartment("Department 1", id); Console.WriteLine(id.Value); } B. using (SchoolEntities context = new SchoolEntities()) { var id = context.InsertDepartment("Department 1", null); Console.WriteLine(id); } C. using (SchoolEntities context = new SchoolEntities()) { ObjectParameter id = null; context.InsertDepartment("Department 1", id); Console.WriteLine(id.Value); } D. using (SchoolEntities context = new SchoolEntities()) { var id = new ObjectParameter("ID", null); context.InsertDepartment("Department 1", id); Console.WriteLine(id.Value); } Answer: A Explanation: Reference:

<http://blogs.microsoft.co.il/blogs/gilf/archive/2010/05/09/how-to-retrieve-stored-procedure-output-parameters-in-entity-framework.aspx> QUESTION 98

You use Microsoft .NET Framework 4.0 to develop an ASP.NET Web application that connects to a Microsoft SQL Server 2008 database. The application uses Integrated Windows authentication in Internet Information Services (IIS) to authenticate users. A connection string named connString defines a connection to the database by using integrated security. You need to ensure that a SqlCommand executes under the application pool's identity on the database server. Which code segment should you use? A. using (var conn = new SqlConnection()) { conn.ConnectionString = connString; SqlCommand cmd = null; using (HostingEnvironment.Impersonate()) { cmd = new SqlCommand("SELECT * FROM BLOG", conn); } conn.Open(); var result = cmd.ExecuteScalar(); } B. using (var conn = new SqlConnection(connString)) { var cmd = new SqlCommand("SELECT * FROM BLOG", conn); conn.Open(); using (HostingEnvironment.Impersonate()) { var result = cmd.ExecuteScalar(); } } C. using (var conn = new SqlConnection()) { using (HostingEnvironment.Impersonate()) { conn.ConnectionString = connString; } var cmd = new SqlCommand("SELECT * FROM BLOG", conn); conn.Open(); var result = cmd.ExecuteScalar(); } D. using (var conn = new SqlConnection()) { conn.ConnectionString = connString; var cmd = new SqlCommand("SELECT * FROM BLOG", conn); using (HostingEnvironment.Impersonate()) { conn.Open(); } var result = cmd.ExecuteScalar(); } Answer: D

QUESTION 99 You use Microsoft .NET Framework 4.0 to develop an ASP.NET 4 Web application. You need to encrypt the connection string information that is stored in the web.config file. The application is deployed to multiple servers. The encryption keys that are used to encrypt the connection string information must be exportable and importable on all the servers. You need to encrypt the connection string section of the web.config file so that the file can be used on all of the servers. Which code segment should you use? A. Configuration config = WebConfigurationManager.OpenWebConfiguration("~/"); ConnectionStringsSection section = (ConnectionStringsSection)config.GetSection("connectionStrings"); section.SectionInformation.ProtectSection("RsaProtectedConfigurationProvider"); config.Save(); B. Configuration config = WebConfigurationManager.OpenMachineConfiguration("~/"); ConnectionStringsSection section = (ConnectionStringsSection)config.GetSection("connectionStrings"); section.SectionInformation.ProtectSection("RsaProtectedConfigurationProvider*"); config.Save(); C. Configuration config = WebConfigurationManager.OpenWebConfiguration("~/"); ConnectionStringsSection section = (ConnectionStringsSection)config.GetSection("connectionStrings"); section.SectionInformation.ProtectSection("DpapiProtectedConfigurationProvider"); config.Save(); D. Configuration config = WebConfigurationManager.OpenMachineConfiguration("~/"); ConnectionStringsSection section = (ConnectionStringsSection)config.GetSection("connectionStrings"); section.SectionInformation.ProtectSection("DpapiProtectedConfigurationProvider"); config.Save(); Answer: A Explanation: You encrypt and decrypt the contents of a Web.config file by using System.Configuration.DPAPIProtectedConfigurationProvider from the System.Configuration.dll assembly, which uses the Windows Data Protection API (DPAPI) to encrypt and decrypt data, or by using System.Configuration.RSAProtectedConfigurationProvider, which uses the RSA encryption algorithm to encrypt and decrypt data. When you use the same encrypted configuration file on many computers in a web farm, only System.Configuration.RSAProtectedConfigurationProvider enables you to export the encryption keys that encrypt the data and import them on another server. This is the default setting.

CHAPTER 8 Developing Reliable Applications Lesson 3: Protecting Your Data Storing Encrypted Connection Strings in Web Applications (page 555) QUESTION 100 You use Microsoft .NET Framework 4.0 and the Entity Framework to develop an application. You create an Entity Data Model that has an entity named Customer. You set the optimistic concurrency option for Customer. You load and modify an instance of Customer named loadedCustomer, which is attached to anObjectContext named context. You need to ensure that if a concurrency conflict occurs during a save, the application will load up-to-date values from the

database while preserving local changes. Which code segment should you use? A. try{ context.SaveChanges();}
catch(EntitySqlException ex){ context.Refresh(RefreshMode.StoreWins, loadedCustomer);}B. try{ context.SaveChanges();}
catch(OptimisticConcurrencyException ex){ context.Refresh(RefreshMode.ClientWins, loadedCustomer);}C. try{
context.SaveChanges();}catch(EntitySqlException ex){ context.Refresh(RefreshMode.ClientWins, loadedCustomer);}D. try{
context.SaveChanges();}catch(OptimisticConcurrencyException ex){ context.Refresh(RefreshMode.StoreWins, loadedCustomer);
}
Answer: B
Explanation: EntitySqlException Represents errors that occur when parsing Entity SQL command text. This exception is
thrown when syntactic or semantic rules are violated. System.Object System.Exception System.SystemException
System.Data.DataException System.Data.EntityException System.Data.EntitySqlException OptimisticConcurrencyException The
exception that is thrown when an optimistic concurrency violation occurs. System.Object System.Exception System.SystemException
System.Data.DataException System.Data.UpdateException System.Data.OptimisticConcurrencyException Optimistic Concurrency
(ADO.NET) (<http://msdn.microsoft.com/en-us/library/aa0416cz.aspx>)
<http://msdn.microsoft.com/en-us/library/system.data.objects.refreshmode.aspx>
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