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PRO: Design & Develop Wndws Apps Using MS .NET Frmwrk 4

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QUESTION 1

You are analyzing an application that uses Microsoft .NET Framework 4 and Microsoft SQL Server 2008.

The application is used to maintain an inventory database and is accessed from several remote Windows client applications. The application frequently updates multiple rows in a database table by using a DbDataAdapter object.

Users report that the application runs slowly during peak business hours.

When large number of records are changed by multiple users, you discover the following:

The CPU utilization of the client applications is normal.

The network utilization increases slightly.

The CPU utilization of the database server remains close to the normal average for a day.

You need to resolve the performance issue. What should you do?

A. Disable batch updates. Modify the client application to perform a single update.

B. Insert a random time interval between updates.

C. Remove any limit on batch update sizes. Modify the client application to perform a single update.

D. Move the update method calls to a separate BackgroundWorker thread.

Correct Answer: C

QUESTION 2

You are designing a Windows Presentation Foundation (WPF) application that uses .NET Framework 4. The application uses a subset of the functionality provided by a third-party COM component that will be replaced later.

The application developers must have access to only the required subset of functionality.

You need to recommend a solution that meets the requirements.

Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

A. Create an adapter assembly that exposes the entire functionality of the COM component.

B. In the adapter assembly, use an embedded interop reference.

C. In the adapter assembly, use a standard interop reference.

D. Create an adapter assembly that exposes the required subset of the COM component functionality.

Correct Answer: CD

QUESTION 3

You are designing a Windows Presentation Foundation (WPF) application by using Microsoft .NET Framework 4 and Microsoft Visual Studio 2010.

You plan to create a Customer object that contains an Orders property. The Orders property contains an array of Order objects.

When users browse Customer objects, they must be able to optionally view Order objects.

You need to design a data access strategy that retrieves data only when necessary.

Which strategy should you use?

A. lazy loading

B. eager loading

C. file streaming

D. pessimistic locking

Correct Answer: A

QUESTION 4

You are designing an application by using Microsoft .NET Framework 4, Microsoft Visual Studio 2010, and Microsoft SQL Server 2008.

The application will be used by a sales team to enter sales orders and update customer information.

You need to ensure that the application meets the following requirements: Allows users to enter sales orders while their computers are disconnected from the network Uploads sales orders to the server database when connected to the network Compiles against the .NET Framework 4 client profile

What should you use?

A. XML files

B. WCF services

C. Microsoft Sync Framework

D. the System.Web.Caching namespace classes

Correct Answer: C

QUESTION 5

You are creating a Windows Presentation Foundation (WPF) application by using Microsoft .NET Framework 4.

You create a photo album-browsing application. When the user opens an album, pictures in the album are displayed in sets of 10. Pictures are obtained from a Windows Communication Foundation (WCF) service. Most of the memory of the application is allocated in the native heap. The memory usage of the application increases when new albums are opened.

You need to ensure that the memory usage of the application remains within a specific range. What should you do?

A. Use a reduced color palette to render pictures.

B. Use the NetTcpBinding binding to communicate with the WCF service.

C. Load the pictures from the WCF service on a background thread. Implement the IDisposable interface.

D. Assign the null value to every variable pointing to a picture that is not displayed. Implement the IDisposable interface.

Correct Answer: D

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