



# 70-518<sup>Q&As</sup>

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

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### QUESTION 1

You are designing a distributed application that will be deployed to 5,000 users worldwide.

Servers on five continents will host the Web services and the Microsoft SQL Server 2008 databases that support the application.

You have the following requirements:

Collect information about all errors associated with the application.

Store and view all error information in a centralized location.

Minimize the network bandwidth required for the transfer of error information.

You need to recommend a strategy for reporting error information. Which strategy should you recommend?

- A. Write error messages to the SQL Server databases. Synchronize the databases by using merge replication.
- B. Write error messages to the event logs on the local computers. Use Windows Error Reporting to view the error information.
- C. Write error messages to the event logs on the local computers. Use Windows Management Instrumentation (WMI) to view the error information.
- D. Write error messages to the SQL Server databases. Synchronize the databases by using transactional replication.

Correct Answer: B

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### QUESTION 2

You are designing an n-tier solution that includes a Windows Presentation Foundation (WPF) client application. The WPF application connects to a middle-tier server that runs the data access layer. The data access layer connects to a

Microsoft SQL Server 2008 database and to a mainframe-based database.

The mainframe-based database will be replaced in one year.

You have the following requirements:

Centrally manage all database connections.

Minimize changes to the code base when the database is replaced.

Ensure that the WPF application will not need to be redeployed when the database is replaced.

You need to recommend an approach for designing the data access layer.

What should you recommend?

- A. Create a data access layer class that uses a database factory class to access all databases. Add the connection



string information for the databases to the configuration file for the WPF application.

B. Add the connection string information for the databases to the configuration file for the WPF application. Implement one class in the WPF application for each data source.

C. Create a data access layer class that uses a database factory class to access all databases. Add the connection string information for the databases to the configuration file for the data access layer class.

D. Add the connection string information for the databases to the configuration file for the WPF application. Implement a database factory class from within the WPF application.

Correct Answer: C

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### QUESTION 3

You are designing an application by using Windows Presentation Foundation (WPF), Microsoft .NET Framework 4, and Microsoft SQL Server 2008.

The application will contain several forms that include custom data validators.

You need to ensure that data is validated before the database updates occur. You also need to ensure that the validation logic can be reused.

How should you design the validation?

A. Implement the IDataErrorInfo interface in the data class of the application.

B. Implement the INotifyPropertyChanged interface in the data class of the application.

C. ?Subscribe to the MouseLeave event for all user interface (UI) components of the application. ?Perform data validation in the event handler and alert users when a data entry error occurs.

D. ?Subscribe to the TextChanged event for all user interface (UI) components of the application. ?Perform data validation in the event handler and alert users when a data entry error occurs.

Correct Answer: A

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### QUESTION 4

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 DbDotoAdopter object.

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

When large numbers 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. Move the update method calls to a separate BackgroundWorker thread.
- D. Remove any limit on batch update sizes. Modify the client application to perform a single update.

Correct Answer: D

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#### QUESTION 5

You are developing an application by using Microsoft .NET Framework 4 and Microsoft Visual Studio 2010.

The application contains a grid that displays customer data stored in a database table. Users report that the grid takes a long time to display.

You plan to implement data caching to improve loading time for the grid.

You need to ensure that the cached data expires when the customer data is updated.

What should you do?

- A. Use the System.Web.Caching.CacheDependency class.
- B. Use the System.Runtime.Caching.SqlChangeMonitor class.
- C. Use the ADO.NET Entity Framework.
- D. Use a static variable to store the Grid object.

Correct Answer: A

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