



70-451^{Q&As}

PRO: Designing Database Solutions and Data Access Using Microsoft SQL Server 2008

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QUESTION 1

You have a stored procedure that uses a cursor. The stored procedure updates several related tables.

You discover that the stored procedure runs slowly and uses a significant amount of resources on the database server.

You need to recommend changes to the stored procedure to meet the following requirements:

What should you recommend?

- A. Change the cursor to a dynamic cursor.
- B. Change the cursor to a client-side cursor.
- C. Rewrite the cursor by using set-based operations.
- D. Rewrite the cursor by using recursive CLR stored procedure.

Correct Answer: C

QUESTION 2

You have a server that runs SQL Server 2008 Standard. The server provides data storage for a third- party contact management application.

A service-level agreement for the application does not allow for modifications to be made to the application or to the database objects used by the application. You need to recommend a strategy to mitigate performance issues. The strategy

must minimize database growth.

What should you recommend?

- A. a scalable shared database
- B. clustered indexes
- C. plan guides
- D. partitioned tables

Correct Answer: C

QUESTION 3

You have a database that has 20 large tables. All the tables have qualified indexes. As the tables grow, you discover that queries that contain JOIN statements execute more slowly. You need to recommend a solution to decrease the



query response time and the I/O. The solution must minimize hardware costs.

What should you recommend?

- A. Implement query hints.
- B. Create a filegroup strategy.
- C. Implement an index strategy.
- D. Create a partitioning strategy.

Correct Answer: D

QUESTION 4

You are a database developer. You plan to design a database solution by using SQL Server 2008. The database supports a Web site and captures user interactions. These interactions are stored in the Activity table of the User_Activity database. Data older than six months is archived to the Activity table of the Archive_Activity database on a different instance of SQL Server 2008.

The structure of the Activity table is as shown in the following table.

Column	Data Type	Description
activity_id	bigint	Primary Key
activity_date	datetime	Date and time of activity
activity_type_id	int	Identifies the type of activity
advert_id	int	Identifies the advertisements
user_id	int	Identifies the user

You plan to design a solution that allows a single query to generate a report that summarizes user interactions for the last 12 months. You need to ensure that the solution is implemented.

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

- A. Create a partition function and a partition scheme.
- B. Modify the Activity tables to use the partition scheme.
- C. Move the archived data back to the User_Activity database.
- D. Create a view by using the UNION ALL clause to retrieve data from the two Activity tables.
- E. Create CHECK constraints on the two Activity tables to limit the values in the activity_date column to an exclusive range.

Correct Answer: DE



QUESTION 5

You are a database developer. You plan to design a database solution by using SQL Server 2008.

The database will contain a table to stage data from an external source. The imported data will contain a field named TransactionTime. The TransactionTime field will use the hh:mm:ss.[m] format (such as 12:55:30.1).

You need to select the appropriate data type for the TransactionTime field. You want to achieve this goal by incurring minimum amount of storage cost.

Which data type should you use?

- A. time
- B. datetime2
- C. smalldatetime
- D. time (1)

Correct Answer: D

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