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

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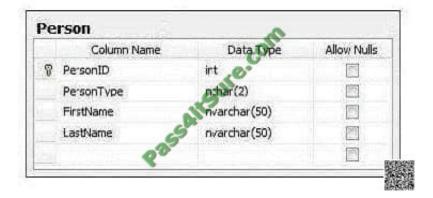Official Exam Center

QUESTION 1

You are designing a maintenance strategy for a database that contains several views. The views will be assigned custom permissions. You need to recommend a solution that will allow developers to modify the views without affecting the views\\' existing permissions. What should you recommend?

A. Create a new view.

B. Alter the existing view.

C. Rename the existing view.

D. Drop the existing view and then recreate the view.

Correct Answer: B

QUESTION 2

You are a database developer. You plan to design a database solution by using SQL Server 2008. A database contains a table named Person. The structure of the table is as shown in the following exhibit. (Click the Exhibit button.)

The table has the following indexes:

A unique clustered index on the PersonID column named IX_Person_PersonID A nonclustered index on the FirstName and LastName columns named IX_Person_FirstName_LastName A nonclustered index on the PersonType column

named IX_Person_PersonType that has FirstName and LastName as included columns The table contains approximately 700,000 records. The approximate number of records for each PersonType is 3,000.

You execute the following query.

SELECT P.FirstName, P.LastName

FROM Person P

WHERE P.PersonType = \\'DR\\'

You plan to analyze the performance of the query by using an execution plan. You need to ascertain that the indexes

are used optimally.

What should you do?

A. Verify that a clustered index scan operation is performed on the IX_Person_PersonID index.

B. Verify that an index seek operation is performed on the IX_Person_PersonType index.

C. Verify that an index seek operation is performed on the IX_Person_PersonType index, and a key lookup operation is performed on the IX_Person_PersonID index.

D. Verify that an index seek operation is performed on the IX_Person_PersonType index, and an index scan operation is performed on the IX_Person_FirstName_LastName index.

Correct Answer: B

QUESTION 3

You are a database developer. You plan to design a database solution by using SQL Server 2008. The database has a table named Sales. The Sales table contains 10 million rows.

You discover that the following query takes a long time to execute.

SELECT s.sale_id,...

FROM Sales AS s

JOIN Country AS c

ON s.Country_id = c.Country_id

AND c.Country_name = \\'USA\\'

A summary of the execution plan is as shown in the following code segment. |--Hash Match(Inner Join,

HASH:

([s].[Country_id]) = ([c].[Country_id]) |--Clustered Index Scan(OBJECT:([Country].

[PK_Country_Country_id] AS

[c]) |--Clustered Index Scan(OBJECT:([Sales].[PK_Sales_Sale_id] AS [s]))

You need to ensure that the query retrieves data in minimum possible time.

What should you do?

A. Modify the query to use a loop join hint.

B. Modify the query to use a merge join hint.

C. Create a nonclustered index in the Country_id column of the Sales table.

D. Create a nonclustered index in the Country_name column of the Country table.

Correct Answer: C

QUESTION 4

You have a line-of-business application.

The application generates reports based on data from database views. Users report that it takes a long time to generate reports.

You run a SQL Server Profiler trace and discover that the application is generating many blocking processes.

You need to minimize the number of blocking processes. You must achieve this goal without modifying the statements that the application sends to the server.

What should you do?

A. Change the isolation level of the database.

B. Implement a database Service Broker.

C. Create new database report views.

D. Change the isolation level of each query.

Correct Answer: A

QUESTION 5

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

Account managers in your company store order data in a database. Your company requires a list of customers for each account manager. The list must be sorted in the descending order of the order amount.

You create a query that generates the list at the end of each month. You need to ensure that the query executes as quickly as possible.

What should you do?

A. Create a cursor that returns each account manager, and then sort the order data by order amount.

B. Use a SELECT statement that uses the OVER clause to rank the customers by order amount for each account manager.

C. Create a correlated subquery to return the order amount for each account manager. Sort the results first by account manager and then by order amount.

D. Create a table-valued function that returns the order amount for a specific account manager, and then create a query

by using the CROSS APPLY clause to list each account manager. Sort the results first by account manager and then by order amount.

Correct Answer: B

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