70-464^{Q&As}

Developing Microsoft SQL Server Databases

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QUESTION 1

You need to monitor the health of your tables and indexes in order to implement the required index maintenance strategy. What should you do?

A. Query system DMVs to monitor avg_chain_length and max_chain_length. Create alerts to notify you when these values converge.

B. Create a SQL Agent alert when the File Table: Avg time per file I/O request value is increasing.

C. Query system DMVs to monitor total_bucket_count. Create alerts to notify you when this value increases.

D. Query system DMVs to monitor total_bucket_count. Create alerts to notify you when this value decreases.

Correct Answer: A

From scenario:

*

 You need to anticipate when POSTransaction table will need index maintenance.

*

 The index maintenance strategy for the UserActivity table must provide the optimal structure for both maintainability and query performance.

QUESTION 2

Your company has a SQL Azure subscription.

You implement a database named Database1. Database1 has two tables named Table1 and Table2.

You create a stored procedure named sp1. Sp1 reads data from Table1 and inserts data into Table2.

A user named User1 informs you that he is unable to run sp1.

You verify that User1 has the SELECT permission on Table1 and Table2.

You need to ensure that User1 can run sp1. The solution must minimize the number of permissions assigned to User1.

What should you do?

A. Change sp1 to run as the saUser.

B. Grant User1 the EXECUTE permission on sp1.

C. Add User1 to the db_datawriter role.

D. Grant User1 the INSERT permission on Table2.

Correct Answer: B

http://msdn.microsoft.com/en-us/library/ms191291.aspx

QUESTION 3

You execute usp_TestSpeakers.

You discover that usp_SelectSpeakersByName uses inefficient execution plans.

You need to update usp_SelectSpeakersByName to ensure that the most efficient execution plan is used.

What should you add at line 30 of Procedures.sql?

A. OPTION (FORCESCAN)

B. OPTION (FORCESEEK)

C. OPTION (OPTIMIZE FOR UNKNOWN)

D. OPTION (OPTIMIZE FOR (@LastName= \\'Anderson\\'))

Correct Answer: C

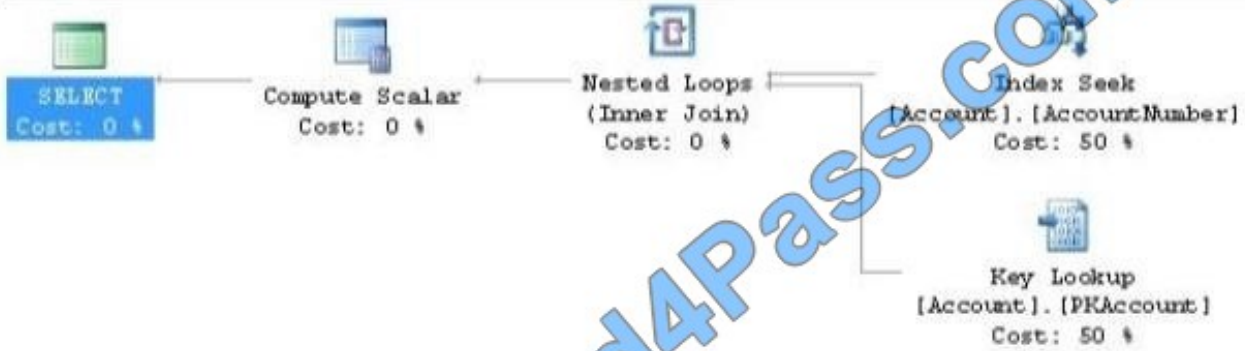http://msdn.microsoft.com/en-us/library/ms181714.aspx

QUESTION 4

You administer an instance of SQL Server.

You are tasked with tuning a common set of queries. You have the results of several test executions, along with query plans. The schema and the data for all database object(s) used remain unchanged between executions. The QueryTime column is defined as a computed column that uses the GETDATE() system function. The query plans and results are shown below:

```
SELECT *
FROM    dbo.Account
WHERE   AccountNumber = 'A10000001'
```

```
Query 1: Query cost (relative to the batch): 100%
SELECT * FROM [dbo].[Account] WHERE [AccountNumber]=@1
```
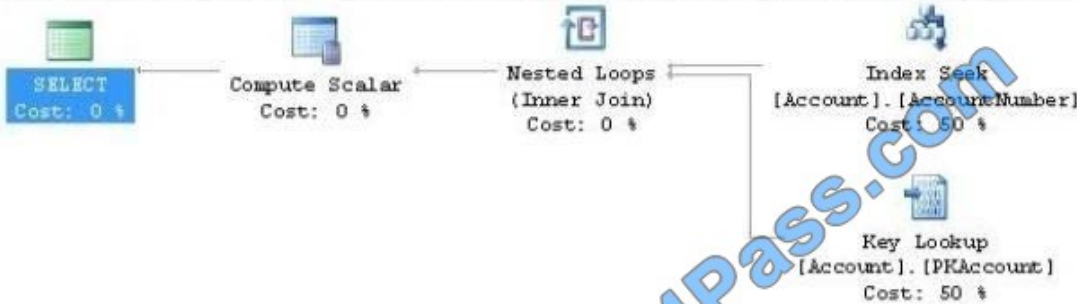

SELECT
Cost: 0 % ← Compute Scalar
Cost: 0 % ← Nested Loops
(Inner Join)
Cost: 0 %

Index Seek
[Account].[AccountNumber]
Cost: 50 %

Key Lookup
[Account].[PKAccount]
Cost: 50 %

AccountID	AccountNumber	Name	QueryTime
---------------------------------- ------	---------------- -	------------ -	-------------------- ----
0F63B176-7257-4480-9D0E-126C45 CEFFF1	A10000001	Don Hall	2014-01-29 18:01:50.923

```
SELECT *
FROM    dbo.Account
WHERE AccountNumber IN( 'A10000001','Q88700323','R00000012')
GO
```

```
Query 1: Query cost (relative to the batch): 100%
SELECT * FROM dbo.Account WHERE AccountNumber IN( 'A10000001','Q88700323','R00000012')
```


AccountID	AccountNumber	Name	QueryTime
--------------------------------------	---------------	-------------	-----------------------
0F63B176-7257-4480-9D0E-126C45 CEFFF1	A10000001	Don Hall	2014-01-29 20:14:05.660
337227AA-3A4B-4B28-8E02-0ADEAD 06EA10	Q88700323	Darren Parker	2014-01-29 20:14:05.660
C4980E64-874E-4640-8826- BAF35D8FB845	R00000012	Carol Philips	2014-01-29 20:14:05.660

You need to make an initial diagnosis of the situation, based solely on this input

Which two statements can you make about the performance characteristics of this query? Each correct answer presents a complete solution. Choose two.

A. The queries would perform better if the index named AccountNumber included the Name and QueryTime column.

B. The queries would perform worse if the index named AccountNumber included the NameColumn.

C. The queries would perform better if the index named AccountNumber included the Name column.

D. The object Account is a table, with an index having a leading column of AccountNumber and a Clustered Index named PKAccount.

E. The object Account is an indexed view, with an index having a leading column of AccountNumber and a Clustered Index named PKAccount.

F. The object Account is a view, joining the Account-AccountNumber and Account.PKAccount objects together.

Correct Answer: BD

QUESTION 5

You are evaluating the index design.

You need to recommend a change to Indexes.sql that minimizes the amount of time it takes for usp_SelectEmployessByName to execute.

Which line of code should you use to replace line 08 of Indexes.sql?

A. (EmployeeID) INCLUDE (LastName);

B. (LastName) INCLUDE (FirstName);

C. (LastName, EmployeeID);

D. (FirstName, LastName);

Correct Answer: A

https://docs.microsoft.com/en-us/sql/relational-databases/indexes/create-indexes-with-included-columns?view=sql-server-2017

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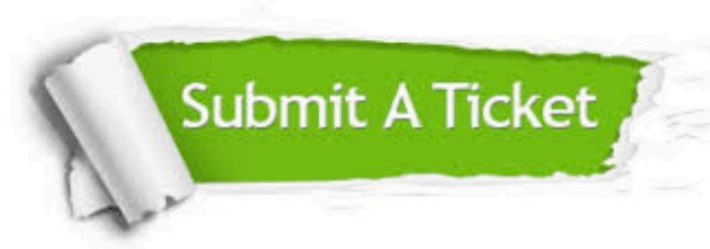Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

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