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QUESTION 1

You execute usp_SelectEmployeesByName multiple times, passing strings of varying lengths to @LastName. You discover that usp_SelectEmployeesByName uses inefficient execution plans.

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

What should you add at line 31 of StoredProcedures.sql?

A. OPTION (ROBUST PLAN)

B. OPTION (OPTIMIZE FOR UNKNOWN)

C. OPTION (KEEP PLAN)

D. OPTION (KEEPFIXED PLAN)

Correct Answer: B

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

QUESTION 2

You run the following code segment:

```
CREATE TABLE dbo.Customers
(
    Id int CONSTRAINT Check_ID PRIMARY KEY,
    CustomerName varchar(50),
    Details xml
);
GO
CREATE PRIMARY XML INDEX PXML_Customers
    ON dbo.Customers (Details);
GO
```

After you add 10,000 rows to Customers, you discover that the index is fragmented.

You need to defragment the index in the least amount of time.

Which code segment should you execute?

To answer, drag the appropriate value to the correct location in the code segment in the answer area. (Answer choices may be used once, more than once, or not at all.)

Select and Place:

Values	Answer Area
ON OFF	ALTER INDEX ALL ON Custcmers REBUILD WITH (ONLINE = [Value] , STATISTICS_NORECOMPUTE [Value]);

Correct Answer:

Values	Answer Area
[ ] [ ]	ALTER INDEX ALL ON Custcmers REBUILD WITH (ONLINE = [OFF] , STATISTICS_NORECOMPUTE [ON]);

Note:

Locking the table during the process and not recomputing statistics would be the fastest.

*

Online = OFF

Table locks are applied for the duration of the index operation. An offline index operation that creates, rebuilds, or drops a clustered, spatial, or XML index, or rebuilds or drops a nonclustered index, acquires a Schema modification (Sch-M)

lock on the table. This prevents all user access to the underlying table for the duration of the operation. An offline index operation that creates a nonclustered index acquires a Shared (S) lock on the table. This prevents updates to the

underlying table but allows read operations, such as SELECT statements.

*

STATISTICS_NORECOMPUTE = ON

Out-of-date statistics are not automatically recomputed.

Reference: ALTER INDEX (Transact-SQL)

QUESTION 3

You plan to create a new table that has the following requirements:

1.

Uses a GUID data type as the primary key.

2.

Uses a clustered index as the primary key.

3.

Minimizes fragmentation.

You need to recommend which option to include in the CREATE statement.

Which option should you include?

More than one answer choice may achieve the goal. Select the BEST answer.

A. NEWID

B. @@IDENTITY

C. NEWSEQUENTIALID

D. IDENTITY

Correct Answer: C

The NEWSEQUENTIALID function creates a GUID that is greater than any GUID previously generated by this function on a specified computer since Windows was started. After restarting Windows, the GUID can start again from a lower range, but is still globally unique. When a GUID column is used as a row identifier, using NEWSEQUENTIALID can be faster than using the NEWID function. This is because the NEWID function causes random activity and uses fewer cached data pages. Using NEWSEQUENTIALID also helps to completely fill the data and index pages.

References: https://docs.microsoft.com/en-us/sql/t-sql/functions/newsequentialid-transact-sql

QUESTION 4

While testing the CategoryFromType function, you discover that the function is returning \\'Other\\'. You need to update CategoryFromType to return the category name.

Which line of code should you modify in CategoryFromType.sql?

A. 04

B. 05

C. 12

D. 14

Correct Answer: B

QUESTION 5

You have the following stored procedure.

```
CREATE PROCEDURE GetFile
      @FileName nvarchar(512)
AS
SELECT *
FROM Files
WHERE FileName = @FileName
```

The stored procedure takes much longer to execute than expected.

While reviewing the execution plan of the stored procedure, you discover the following predicate for a Clustered Index Scan operator.

```
CONVERT_IMPLICIT(nvarchar(512),[SampleDatabase].[dbo].[Files].[FileName],0)=[@1]
```

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

A. Change the @FileName parameter from nvarchar(512) to varchar(512).

B. Change the FileName column from varchar(512) to nvarchar(512).

C. Add a NOLOCK query hint to the SELECT statement.

D. Convert the table to a memory-optimized table.

E. Add a FORCESEEK query hint to the SELECT statement.

Correct Answer: A

When using a variable, make sure that the datatype matches the column\\'s datatype. We suspect that the issue is that the variable is NVARCHAR (512) whilst the table column is VARCHAR (512). This is indicated by the CONVERT_IMPLICIT operator in the execution plan.

References: https://sqlserverperformance.wordpress.com/2009/02/02/beware-of-convert_implicit-in-a-sql-execution-plan/

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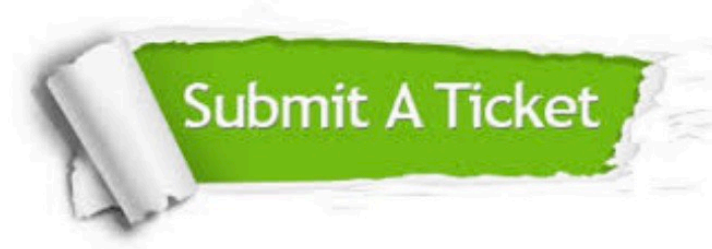To Read the Whole Q&As, please purchase the Complete Version from Our website.

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