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Developing SQL Databases

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QUESTION 1

You run the following Transact-SQL statement:

```
CREATE TABLE OrderLines(
   OrderLineID INT NOT NULL IDENTITY PRIMARY KEY CLUSTERED,
   OrderID INT NOT NULL,
   StockItemID INT NOT NULL,
   Description NVARCHAR(100) NOT NULL,
   Quantity INT NOT NULL,
   UnitPrice DECIMAL(18, 2) NULL
)
```

There are multiple unique OrderID values. Most of the UnitPrice values for the same OrderID are different.

You need to create a single index seek query that does not use the following operators: Nested loop Sort Key lookup

Which Transact-SQL statement should you run?

A. CREATE INDEX IX_OrderLines_1 ON OrderLines (OrderID, UnitPrice) INCLUDE (Description, Quantity)

B. CREATE INDEX IX_OrderLines_1 ON OrderLines (OrderID, UnitPrice) INCLUDE (Quantity)

C. CREATE INDEX IX_OrderLines_1 ON OrderLines (OrderID, UnitPrice, Quantity)

D. CREATE INDEX IX_OrderLines_1 ON OrderLines (UnitPrice, OrderID) INCLUDE (Description, Quantity)

Correct Answer: A

An index with nonkey columns can significantly improve query performance when all columns in the query are included in the index either as key or nonkey columns. Performance gains are achieved because the query optimizer can locate all

the column values within the index; table or clustered index data is not accessed resulting in fewer disk I/O operations.

Note: All data types except text, ntext, and image can be used as nonkey columns.

Incorrect Answers:

C: Redesign nonclustered indexes with a large index key size so that only columns used for searching and lookups are key columns.

D: The most unique column should be the first in the index.

References: https://docs.microsoft.com/en-us/sql/t-sql/statements/create-index-transact-sql?view=sql-server-2017

QUESTION 2

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains

a unique solution. Determine whether the solution meets the stated goals. You have a table that has a clustered index and a nonclustered index. The indexes use different columns from the table. You have a query named Query1 that uses the nonclustered index.

Users report that Query1 takes a long time to report results. You run Query1 and review the following statistics for an index seek operation:

Index Seek (NonClustered)
Scan a particular range of rows from a nonclustered index.

Physical Operation	Index Seek
Logical Operation	Index Seek
Actual Execution Mode	Row
Actual Number of Rows	3571454
Actual Number of Batches	0
Estimated I/O Cost	0.0093577
Estimated Operator Cost	0.0107304 (0%)
Estimated CPU Cost	0.0013727
Estimated Subtree Cost	0.0107304
Estimated Number of Executions	1
Number of Executions	8
Estimated Number of Rows	0
Estimated Row Size	19 B
Actual Rebinds	0
Actual Rewinds	0
Ordered	True
Node ID	100

You need to resolve the performance issue.

Solution: You update statistics for the nonclustered index.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

We see Actual Number of Row is 3571454, while Estimated Number of Rows is 0. This indicates that the statistics are old, and need to be updated.

QUESTION 3

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains

a unique solution. Determine whether the solution meets the stated goals.

You have a database that contains a table named Employees. The table stores information about the employees of your company.

You need to implement and enforce the following business rules:

Limit the values that are accepted by the Salary column.

Prevent salaries less than $15,000 and greater than $300,000 from being entered.

Determine valid values by using logical expressions.

Do not validate data integrity when running DELETE statements.

Solution: You implement a foreign key on the table.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

A check constraint is needed.

References: https://en.wikipedia.org/wiki/Check_constraint

QUESTION 4

You are experiencing performance issues with the database server.

You need to evaluate schema locking issues, plan cache memory pressure points, and backup I/O problems.

What should you create?

A. a System Monitor report

B. a sys.dm_tran_database_transaction dynamic management view query

C. an Extended Events session that uses Query Editor

D. an Activity Monitor session in Microsoft SQL Management Studio.

Correct Answer: D

References: https://msdn.microsoft.com/en-us/library/hh212951.aspx

QUESTION 5

You have a database with multiple tables. You must insert data into the tables by using views.

Which of the following two statements best describes an updatable view?

NOTE: Each correct selection is worth one point.

A. The view must not include the primary key of the table.

B. The view may include GROUP BY or HAVING statements.

C. The view may include a composite field.

D. Each view must reference columns from one table.

E. The view must not include subqueries.

Correct Answer: BD

B: The columns being modified must not be affected by GROUP BY, HAVING, or DISTINCT clauses.

D: Any modifications, including UPDATE, INSERT, and DELETE statements, must reference columns from only one base table. Incorrect Answers:

A: Primary keys are allowed.

C: The columns cannot be derived in any other way, such as through the following:

A computation. The column cannot be computed from an expression that uses other columns.

E: The restrictions apply to any subqueries in the FROM clause of the view, just as they apply to the view itself.

References:

https://docs.microsoft.com/en-us/sql/t-sql/statements/create-view-transact-sql?view=sql-server-2017

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