



70-464^{Q&As}

Developing Microsoft SQL Server Databases

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QUESTION 1

You execute the following code:

```
CREATE TABLE dbo.Customers  
(  
    id int PRIMARY KEY,  
    CustomerName char(10)  
)
```

You create a nonclustered index named IX_CustomerName on the CustomerName column. You execute the following query:

```
SELECT * FROM dbo.Customers  
WHERE LEFT(CustomerName,1) = 'a'
```

You need to reduce the amount of time it takes to execute the query.

What should you do?

- A. Partition the table and use the CustomerName column for the partition scheme.
- B. Replace IX_CustomerName with a clustered index.
- C. Replace LEFT(CustomerName ,1) = 'a' with CustomerName LIKE 'a%'.
- D. Replace LEFT(CustomerName ,1) = 'a' with SUBSTRING(CustomerName ,1,1) = 'a'.

Correct Answer: C

<http://msdn.microsoft.com/en-us/library/ms179859.aspx> <http://msdn.microsoft.com/en-us/library/ms187748.aspx>

QUESTION 2

You need to encapsulate a T-SQL script into a reusable user-defined object.

The object must meet the following requirements:

- Permit insertions into a table variable.
- Support structured exception handling.
- Prevent changes to the definition of referenced objects.
- Support the use of the APPLY operator on the output of the object.

Which type of object should you use?

- A. An inline table-valued function
- B. A stored procedure



- C. A scalar user-defined function
- D. A multi-statement table-valued function

Correct Answer: C

QUESTION 3

You need to design a solution that meets the refactoring requirements.

Which type of object should you include in the solution?

- A. An indexed view
- B. An aggregate function
- C. A distributed view
- D. A table-valued function

Correct Answer: D

From scenario: The results from the query must be able to be joined to other queries.

User-defined functions that return a table data type can be powerful alternatives to views. These functions are referred to as table-valued functions. A table-valued user-defined function can be used where table or view expressions are allowed in Transact-SQL queries. While views are limited to a single SELECT statement, user-defined functions can contain additional statements that allow more powerful logic than is possible in views.

A table-valued user-defined function can also replace stored procedures that return a single result set. The table returned by a user-defined function can be referenced in the FROM clause of a Transact-SQL statement, but stored procedures that return result sets cannot.

References: [https://technet.microsoft.com/en-us/library/ms191165\(v=sql.105\).aspx](https://technet.microsoft.com/en-us/library/ms191165(v=sql.105).aspx)

QUESTION 4

You need to create an indexed view that contains an aggregation.

Which function is required in the view definition?

- A. MAX
- B. COUNT_BIG
- C. COUNT
- D. SUM

Correct Answer: B



COUNT_BIG is a scalar aggregate function.

The capability of the query optimizer to take advantage of indexed views when it processes queries has improved over earlier version, such as support for aggregate functions.

For example, the following query that contains a scalar aggregate function in its SELECT list:

```
SELECT COUNT_BIG (*) FROM dbo.TableT
```

Can be matched with an index created on this view:

```
CREATE VIEW V2 WITH SCHEMABINDING AS
```

```
SELECT COUNT_BIG (*) AS Cnt
```

```
FROM dbo.TableT
```

Note: COUNT_BIG returns the number of items in a group. COUNT_BIG works like the COUNT function. The only difference between the two functions is their return values. COUNT_BIG always returns a bigint data type value. COUNT

always returns an int data type value.

References:

[https://technet.microsoft.com/en-us/library/ms187864\(v=sql.105\).aspx](https://technet.microsoft.com/en-us/library/ms187864(v=sql.105).aspx)

QUESTION 5

You create a table named Customers by using the following code segment:

```
CREATE TABLE dbo.Customers  
(  
    id int primary key,  
    name char(10)  
)
```

You create a non-clustered index named IX_Name on the name column.

You write the following query to retrieve all of the customers that have a name that starts with the letters SMI:

```
SELECT * FROM dbo.Customers  
WHERE 'smi' = LEFT(name, 3)
```

You discover that the query performs a table scan. You need to ensure that the query uses the index. What should you do?

- A. Replace LEFT(name,3) = 'smi' by using name like 'smi%'
- B. Replace LEFT(name,3) = 'smi' by using substring(name,1,3) = 'smi'
- C. Recreate IX_Name as a unique index
- D. Recreate IX Name as a clustered index



Correct Answer: A

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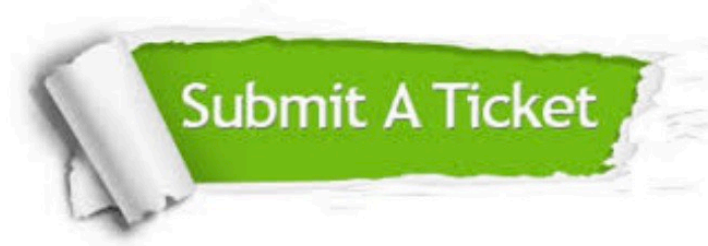
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