



70-464^{Q&As}

Developing Microsoft SQL Server Databases

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**QUESTION 1**

You use SQL Server. The physical server is a dedicated database server that has 120GB of RAM available. There is approximately 50GB of storage space available on a slow local disk. You create a new stored procedure. You decide you need to temporarily hold approximately 300,000 rows from two tables, from which you will compute two complex business scores. The stored procedure will use temporary storage defined as follows:

```
AccountNumber char(10) NOT NULL
YearToDateSalesTotal decimal(15,2) NULL
SalesScore int NULL
FutureSalesExpectationScore int NULL
```

The code will make several passes through the data, applying complex calculations before writing the data to a permanent disk-based table in the same database from which it reads the data.

For this stored procedure, you need to deal with temporary data in the most efficient way to minimize physical disk pressure.

What should you do? More than one answer choice may achieve the goal. Select the BEST answer.



- A.

```
CREATE TYPE dbo.AccountScoringModel as TABLE
(
    AccountNumber char(10) COLLATE Latin1_General_100_BIN2 NOT NULL ,
    YearToDateSalesTotal decimal(15,2) NULL,
    SalesScore int NULL,
    FutureSalesExpectationScore int NULL,
    INDEX AccountNumber HASH (AccountNumber) WITH (BUCKET_COUNT = 25000)
) WITH ( MEMORY_OPTIMIZED = ON )
GO
DECLARE @AccountScoring as dbo.AccountScoringModel
```
- B.

```
DECLARE @AccountScoring as TABLE
(
    AccountNumber char(10) NOT NULL,
    YearToDateSalesTotal decimal(15,2) NULL,
    SalesScore int NULL,
    FutureSalesExpectationScore int NULL
)
```
- C.

```
CREATE TABLE #AccountScoring
(
    AccountNumber char(10) NOT NULL,
    YearToDateSalesTotal decimal(15,2) NULL,
    SalesScore int NULL,
    FutureSalesExpectationScore int NULL
)
```
- D.

```
CREATE TYPE dbo.AccountScoringModel as TABLE
(
    AccountNumber char(10) COLLATE Latin1_General_100_BIN2 NOT NULL ,
    YearToDateSalesTotal decimal(15,2) NULL,
    SalesScore int NULL,
    FutureSalesExpectationScore int NULL,
    INDEX AccountNumber HASH (AccountNumber) WITH (BUCKET_COUNT = 120)
) WITH ( MEMORY_OPTIMIZED = ON )
GO
DECLARE @AccountScoring as dbo.AccountScoringModel
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

* You must specify a value for the BUCKET_COUNT parameter when you create the memory- optimized table. In most cases the bucket count should be between 1 and 2 times the number of distinct values in the index key. If the index key contains a lot of duplicate values, on average there are more than 10 rows for each index key value, use a nonclustered index instead. You may not always be able to predict how many values a particular index key may have or will have. Performance should be acceptable if the BUCKET_COUNT value is within 5 times of the actual number of key values.

QUESTION 2



You need to implement a solution that meets the job application requirements. What should you do?

- A. Create a one-to-one relationship between the Openings table and the Applications table.
- B. Create a one-to-one relationship between the Candidates table and the Applications table.
- C. Add a UNIQUE constraint to the Applications table on the ApplicationID column and CandidateID column.
- D. Add a UNIQUE constraint to the Applications table on the OpeningID column and the CandidateID column.

Correct Answer: D

QUESTION 3

You plan to create a custom aggregation function named Function1.

You plan to deploy Function1 to SQL Server 2012.

You need to ensure that Function1 can access a web service. The solution must minimize the number of changes made to the database.

You create a Microsoft .NET Framework class that contains the definition of Function1.

You upload a certificate to SQL Server.

What three tasks should you perform next?

To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

	Answer Area
Use the certificate to add a digital signature to the assembly.	
Execute the CREATE FUNCTION statement.	
Execute the CREATE ASSEMBLY statement.	
Execute the CREATE AGGREGATE statement.	
Modify the TRUSTWORTHY property of the database.	

Correct Answer:



	Answer Area
Use the certificate to add a digital signature to the assembly.	Modify the TRUSTWORTHY property of the database.
Execute the CREATE FUNCTION statement.	Execute the CREATE ASSEMBLY statement.
	Execute the CREATE AGGREGATE statement.

Box 1: Modify the TRUSTWORTHY property of the database-

Box 2: Execute the CREATE ASSEMBLY statement.

Box 3: Execute the CREATE AGGREGATE statement.

Note:

*

TRUSTWORTHY CREATE signature

The TRUSTWORTHY property indicates whether the instance of SQL Server trusts the database and the contents within it.

*

CREATE AGGREGATE

Creates a user-defined aggregate function whose implementation is defined in a class of an assembly in the .NET Framework. For the Database Engine to bind the aggregate function to its implementation, the .NET Framework assembly that contains the implementation must first be uploaded into an instance of SQL Server by using a CREATE ASSEMBLY statement.

*

```
Example: ALTER DATABASE [DatabaseName] SET TRUSTWORTHY ON GO CREATE ASSEMBLY [CLR.Utilities]
FROM \\C:\Path\To\File\CLR.Utilities.dll\ WITH PERMISSION_SET = UNSAFE GO CREATE AGGREGATE
[dbo].[Concatenate] (@input nvarchar(max)) RETURNS nvarchar(max) EXTERNAL NAME
[CLR.Utilities].[CLR.Utilities.Concatenate] GO
```

QUESTION 4

You plan to deploy SQL Server 2012. You must create two tables named Table1 and Table2 that will have the following specifications:

Table1 will contain a date column named Column1 that will contain a null value approximately 80 percent of the time.



Table2 will contain a column named Column2 that is the product of two other columns in Table2.

Both Table1 and Table2 will contain more than 1 million rows.

You need to recommend which options must be defined for the columns. The solution must minimize the storage requirements for the tables. Which options should you recommend? To answer, drag the appropriate options to the correct column in the answer area.

Select and Place:

Options	Answer Area
Sparse	Column1
Computed	Column2
Persisted computed	

Option
Option

Correct Answer:

Options	Answer Area
	Column1
	Column2
Persisted computed	

Sparse
Computed

<http://msdn.microsoft.com/en-us/library/cc280604.aspx> <http://msdn.microsoft.com/en-us/library/ms186241.aspx>

QUESTION 5

You need to create the object used by the parameter of usp_InsertSessions. Which statement should you use?

- A. CREATE XML SCHEMA COLLECTION SessionDataTable
- B. CREATE TYPE SessionDataTable AS Table



C. CREATE SCHEMA SessionDataTable

D. CREATE TABLE SessionDataTable

Correct Answer: B

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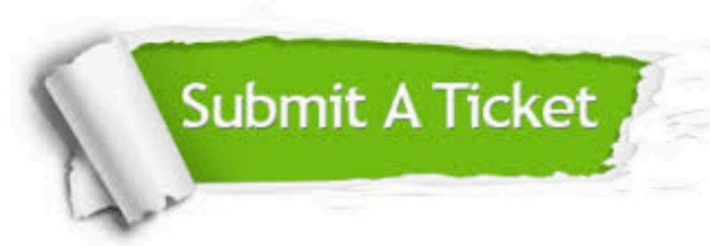
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