70-464^{Q&As}

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Developing Microsoft SQL Server Databases

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QUESTION 1

You use SQL Server to maintain the data used by applications at your company.

You need to run two separate SQL statements.

You must guarantee that the following three things happen:

1.

Either BOTH statements succeed or BOTH statements fail as a batch.

2.

If an error occurs on the first statement, SQL should not attempt to run the second statement.

3.

Error information should be returned to the client. What should you do?

```
A.  SET XACT_ABORT ON
    BEGIN TRY
    BEGIN TRANSACTION
      ...Statement 1
      ...Statement 2
    COMMIT TRANSACTION
    END TRY
    BEGIN CATCH
    ROLLBACK TRANSACTION
    END CATCH

B.  SET XACT_ABORT OFF
    BEGIN TRY
    ...Statement 1
    END TRY
    BEGIN TRY
    ...Statement 2
    END TRY
    BEGIN CATCH
    THROW
    END CATCH

C.  SET XACT_ABORT OFF
    BEGIN TRANSACTION
    BEGIN TRY
        ...Statement 1
        ...Statement 2
    END TRY
    BEGIN CATCH
    IF @@ERROR <> 0
    BEGIN
    ROLLBACK TRANSACTION
    THROW
    END
    ELSE
    COMMIT TRANSACTION
    END CATCH

D.  SET XACT_ABORT OFF
    BEGIN TRY
    BEGIN TRANSACTION
        ...Statement 1
        ...Statement 2
    END TRY
    BEGIN CATCH
    ROLLBACK TRANSACTION
    THROW
    END CATCH
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

* SET XACT_ABORT When SET XACT_ABORT is ON, if a Transact-SQL statement raises a run-time error, the entire transaction is terminated and rolled back. When SET XACT_ABORT is OFF, in some cases only the Transact-SQL statement that raised the error is rolled back and the transaction continues processing.

QUESTION 2

You need to create the object used by the parameter of usp_UpdateEmployeeName. Which code segment should you use?

A. CREATE XML SCHEMA COLLECTION EmployeesInfo

B. CREATE TYPE EmployeesInfo AS Table

C. CREATE SCHEMA EmployeesInfo

D. CREATE TABLE EmployeesInfo

Correct Answer: B

Example Usage of Table-Valued Parameters (Database Engine) http://msdn.microsoft.com/en-us/library/bb510489.aspx (Benefits of using Table-Valued Parameters)

/* Create a table type. */

CREATE TYPE LocationTableType AS TABLE

(LocationName VARCHAR(50)

, CostRate INT);

GO

/* Create a procedure to receive data for the table-valued parameter. */ CREATE PROCEDURE dbo. usp_InsertProductionLocation

@TVP LocationTableType READONLY

AS

SET NOCOUNT ON

INSERT INTO AdventureWorks2012.Production.Location

(Name

,CostRate

,Availability

,ModifiedDate)

SELECT *, 0, GETDATE()

FROM @TVP;

GO

Also:

http://msdn.microsoft.com/en-us/library/ms175007.aspx(CREATE TYPE *tabletypename* AS TABLE)

http://msdn.microsoft.com/en-us/library/ms175010.aspx(table data types) Wrong Answers:

http://msdn.microsoft.com/en-us/library/ms174979.aspx(CREATE TABLE) http://msdn.microsoft.com/en-us/library/ms189462.aspx(CREATE SCHEMA) http://msdn.microsoft.com/en-us/library/ms176009.aspx(CREATE XML SCHEMA

COLLECTION)

QUESTION 3

You execute the following code:

```
CREATE TABLE dbo.Projects
( Id int,
details XML);
GO

INSERT INTO Projects (Id,details)
VALUES
(1,
N'<Project Name="Project1">
<Tasks>
  <Task Name="T1"><IsFinished>true"</IsFinished></Task>
  <Task Name="T2"><IsFinished>true"</IsFinished></Task>
</Tasks>
</Project>'),
(2,
N'<Project Name="Project2">
<Tasks>
  <Task Name="T_1"><IsFinished>false</IsFinished></Task>
</Tasks>
</Project>');
```

You need to select the task that has an IsFinished value of true from the Project that has an Id value of 1. Which code segment should you use?

```
A.  SELECT Projects.details.query('Project/Tasks/Task/[@IsFinished="true"]')
    FROM Projects
    WHERE Projects.Id = 1;

B.  SELECT Projects.details.query('//Task/IsFinished="true"')
    FROM Projects
    WHERE Projects.Id = 1;

C.  SELECT Projects.details
    FROM Projects
    WHERE Projects.Id = 1 AND details LIKE '%true%';

D.  SELECT Projects.details.query('//Task[@IsFinished="true"]')
    FROM Projects
    WHERE Projects.Id = 1;
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 4

You have a database named Database1. You execute the following code:

```
CREATE TABLE dbo.table1
(
  ID int IDENTITY(1,1) NOT NULL PRIMARY KEY,
  FirstName varchar(50) NOT NULL,
  LastName varchar(50) NOT NULL,
  EmailAddress varchar(200) NULL,
  Notes nvarchar(MAX) NULL,
  LastContactDate datetime NULL
)
```

You have the following query. (Line numbers are included for reference only.)

```
01 SELECT FirstName + ' ' + LastName AS Name
02 FROM dbo.table1
03 WHERE Notes LIKE '% call%' AND
04 LastContactDate >= '1/1/2010'
```

Users report that the query takes a long time to complete.

You create a full-text index for the Notes column.

You need to recommend changes to the query to reduce the amount of time it takes for the query to complete.

Which code segment should you use to replace line 03?

A. WHERE FREETEXT(notes, \\'%call%\\') AND

B. INNER JOIN FREETEXTTABLE(dbo.table1, notes, \\'call\\') AS t2 ON dbo.table1.ID = t2.key WHERE

C. WHERE CONTAINS(notes, \\'call*\\') AND

D. WHERE CONTAINS(notes,*%call%\\'> AND

Correct Answer: A

QUESTION 5

You plan to create a database that has multiple tables. The tables will contain product information. Each product has a stock-keeping unit (SKU).

You need to recommend a solution to ensure that each SKU starts with the letters "ADV" and is followed by 10 digits.

The solution must minimize the amount of development effort required.

What should you include in the recommendation?

A. A FOREIGN KEY constraint

B. A trigger

C. A user-defined data type

D. A CHECK constraint

Correct Answer: C

QUESTION 6

You need to add a new column named Confirmed to the Employees table. The solution must meet the following requirements:

1.

Have a default value of TRUE.

2.

Minimize the amount of disk space used. Which code segment should you use?

A. ALTER TABLE Employees
ADD Confirmed char(1) DEFAULT '1';

B. ALTER TABLE Employees
ADD Confirmed char(1) DEFAULT '0';

C. ALTER TABLE Employees
ADD Confirmed bit DEFAULT 0;

D. ALTER TABLE Employees
ADD Confirmed bit DEFAULT 1;

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 7

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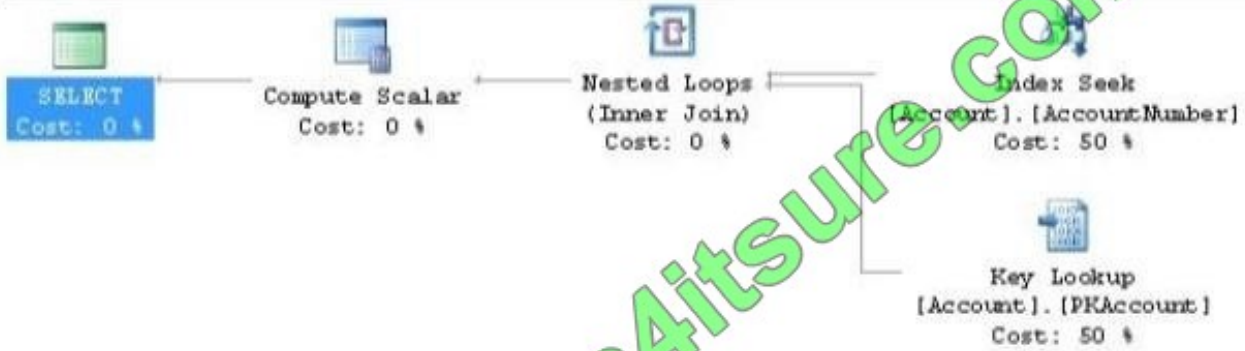
```
SELECT *
FROM    dbo.Account
WHERE   AccountNumber = 'A10000001'
```

```
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 %

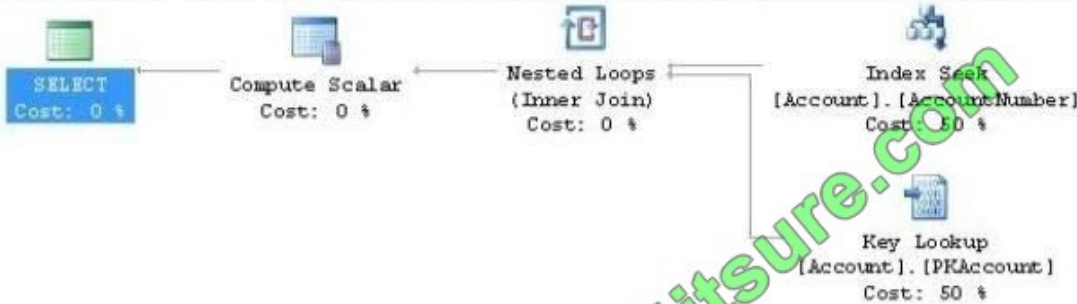| AccountID	AccountNumber	Name	QueryTime
----------------------- ------	-------------- -	------------ -	-------------------- ----
0F63B176-7257-4480-9D0E-126C45 CEFFF1	A10000001	Don Hall	2014-01-29 18:01:50.923

```
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-126C45CEFFF1	A10000001	Don Hall	2014-01-29 20:14:05.660
337227AA-3A4B-4B28-8E02-0ADEAD06EA10	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 8

You plan to modify a procedure that contains hundreds of lines of code. The modification must support the following guidelines:

1.

Use only tables that are not persistent in the database.

2.

Minimize the amount of time required to execute and recompile procedures.

You need to identify which type of table must be used to support the planned modification.

Which type of table should you identify?

A. A system table

B. A partitioned table

C. A table variable

D. A temporary table

Correct Answer: C

QUESTION 9

You need to modify usp_GetOrdersAndItems to ensure that an order is NOT retrieved by usp_GetOrdersAndItems while the order is being updated. What should you add to usp_GetOrdersAndItems?

A. Add SET TRANSACTION ISOLATION LEVEL SERIALIZABLE to line 03.

B. Add SET TRANSACTION ISOLATION LEVEL SNAPSHOT to line 03.

C. Add (UPDLOCK) to the end of line 06.

D. Add (READPAST) to the end of line 06.

Correct Answer: D

QUESTION 10

You have a SQL Server 2012 environment that contains two servers. The servers are configured as shown in the following table.

Server name	Database	Type
Server1	DB1	Principal
Server2	DB1	Mirror

After the failover is complete, a user receives the following error message when connecting to DB1 on Server2:

"Msg 916, Level 14, State 1, Line 1

The server principal "Account1" is not able to access the database "DB1" under the current security context."

You verify that there is a server login for Account1 on Server2.

You need to ensure that Account1 can connect to DB1.

What should you do?

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

A. Update the SID for Account1 on DB1.

B. Add Account1 to the db_datareader role.

C. Create a new database user on DB1.

D. Implement Windows authentication.

Correct Answer: B

QUESTION 11

You review a query that runs slowly. The query accesses data in a table named Schema1.Table1. The following is the relevant portion of the execution plan for the query:

```
<MissingIndexes>
  <MissingIndexGroup Impact="95.8296">
    <MissingIndex Database="DB1" Schema="Schema1" Table="Table1">
      <ColumnGroup Usage="EQUALITY">
        <Column Name="Column1" ColumnId="14" />
      </ColumnGroup>
      <ColumnGroup Usage="INEQUALITY">
        <Column Name="Column2" ColumnId="17" />
        <Column Name="Column3" ColumnId="21" />
      </ColumnGroup>
      <ColumnGroup Usage="INCLUDE">
        <Column Name="Column4" ColumnId="11" />
      </ColumnGroup>
    </MissingIndex>
  </MissingIndexGroup>
</MissingIndexes>
```

You need to create the missing index. Which code segment should you execute?

A. CREATE NONCLUSTERED INDEX IX1 on Schema1.Table1 (Column1)

B. CREATE NONCLUSTERED INDEX IX1 on Schema1.Table1 (Column1, Column2, Column3) INCLUDE (Column4)

C. CREATE NONCLUSTERED INDEX IX1 on schema1.Table1 (Column1) INCLUDE (Column4)

D. CREATE NONCLUSTERED INDEX IX1 on Schema1.Table1 (Column1) INCLUDE (Column4) WHERE Column2

Column3

Correct Answer: C

QUESTION 12

You need to modify the stored procedure usp_LookupConcurrentUsers. What should you do?

A. Use the summary table as an in-memory optimized table with a non-hash clustered index.

B. Use the summary table as an in-memory optimized table with a non-hash nonclustered in- dex.

C. Use a type variable instead of the summary table.

D. Add a clustered index to the summary table.

Correct Answer: A

QUESTION 13

You plan to create a new column in a disk-based table. The column must meet the following requirements:

1.

Be able to store images that are larger than 1 MB each.

2.

Be able to access the images from Microsoft .NET Framework applications.

You need to recommend which data type must be used in the column.

Which data type should you recommend?

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

A. FileStream

B. nvarchar

C. image

D. varbinary

Correct Answer: A

QUESTION 14

You need to add a new column named Confirmed to the Attendees table. The solution must meet the following

requirements:

1.

Have a default value of false.

2.

Minimize the amount of disk space used. Which code block should you use?

A. ALTER TABLE Attendees ADD Confirmed bit DEFAULT 0;

B. ALTER TABLE Attendees ADD Confirmed char(l) DEFAULT \\'1\\';

C. ALTER TABLE Attendees ADD Confirmed bit DEFAULT 1;

D. ALTER TABLE Attendees ADD Confirmed char(l) DEFAULT `1\\';

Correct Answer: A

http://msdn.microsoft.com/en-us/library/ms177603.aspx

QUESTION 15

You have a SQL Server 2012 database that contains a table named Users. The Users table contains usernames and passwords.

You need to ensure that all new records have a password.

Which code segment should you use?

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

```
○ A.    ALTER TABLE dbo.Users
           DROP Password;
        GO
        ALTER TABLE dbo.Users
           ADD Password varchar(30) NOT NULL;
        GO


○ B.    ALTER TABLE dbo.Users
           ADD CONSTRAINT CK_Users_Password
           CHECK (Password IS NULL);
        GO


○ C.    DROP TABLE dbo.Users;
        GO
        CREATE TABLE dbo.Users (
           CustID int PRIMARY KEY,
           Name varchar(30),
           Password varchar(30),
           CONSTRAINT CK_Users_Password
             CHECK (Password IS NOT NULL));
        GO


○ D.    ALTER TABLE dbo.Users
           ADD CONSTRAINT CK_Users_Password
           CHECK (Password IS NOT NULL);
        GO
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

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