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QUESTION 61You need to create the object used by the parameter of usp_UpdateEmployeeName. Which code segment should you use? A. CREATE XML SCHEMA COLLECTION EmployeesInfoB. CREATE TYPE EmployeesInfo AS TableC. CREATE TABLE EmployeesInfoD. CREATE SCHEMA EmployeesInfo Answer: BExplanation: http://msdn.microsoft.com/en-us/library/ms175010.aspx http://msdn.microsoft.com/en-us/library/ms174979.aspx http://msdn.microsoft.com/en-us/library/ms189462.aspx http://msdn.microsoft.com/en-us/library/ms176009.aspx QUESTION 62 You need to add a new column named Confirmed to the Employees table. The solution must meet the following requirements:- Have a default value of TRUE.- Minimize the amount of disk space used.Which code segment should you use? A. ALTER TABLE EmployeesADD Confirmed bit DEFAULT 0;B. ALTER TABLE EmployeesADD Confirmed char(1) DEFAULT "1";C. ALTER TABLE EmployeesADD Confirmed char(1) DEFAULT '0';D. ALTER TABLE EmployeesADD Confirmed bit DEFAULT 1; Answer: DExplanation:http://msdn.microsoft.com/en-us/library/ms177603.aspx http://msdn.microsoft.com/en-us/library/ms176089.aspx Case Study 5 - Manufacturing Company (QUESTION 63 ~ QUESTION 67)Application InformationYou are a database administrator for a manufacturing company. You have an application that stores product data. The data will be converted to technical diagrams for the manufacturing process.The product details are stored in XML format. Each XML must contain only one product that has a root element named Product. A schema named Production.ProductSchema has been created for the products xml.You develop a Microsoft .NET Framework assembly named ProcessProducts.dll that will be used to convert the XML files to diagrams. The diagrams will be stored in the database as images. ProcessProducts.dll contains one class named ProcessProduct that has a method name of Convert(). ProcessProducts.dll was created by using a source code file named ProcessProduct.es. All of the files are located in C:Products. The application has several performance and security issues. You will create a new database named ProductsDB on a new server that has SQL Server 2012 installed. ProductsDB will support the application. The following graphic shows the planned tables for ProductsDB:

You will also add a sequence named Production.ProductID_Seq. You plan to create two certificates named DBCert and ProductsCert. You will create ProductsCert in master. You will create DBCert in ProductsDB. You have an application that executes dynamic T-SQL statements against ProductsDB. A sample of the queries generated by the application appears in Dynamic.sql. Application RequirementsThe planned database has the following requirements:- All stored procedures must be signed.- The amount of disk space must be minimized.- Administrative effort must be minimized at all times. - The original product details must be stored in the database. - An XML schema must be used to validate the product details. - The assembly must be accessible by using T-SQL commands. - A table-valued function will be created to search products by type. - Backups must be protected by using the highest level of encryption. - Dynamic T-SQL statements must be converted to stored procedures. - Indexes must be optimized periodically based on their fragmentation. - Manufacturing steps stored in the Manufacturing Steps table must refer to a Product by the same

ProductDetails_Insert.sql

```
CREATE PROCEDURE Production.ProductDetails_Insert @XML nvarchar(1000)
AS
DECLARE @handle INT;
DECLARE @document nvarchar(1000);
SET @document = @XML;

EXEC sp_xml_preparedocument @handle OUTPUT, @document;

INSERT INTO PRODUCTSDB.Production.Invoices (
  ProductID,
  ProductDetails,
  [illegible]
  CreationDate
)
SELECT (NEXT VALUE FOR Production.ProductID_Seq),
  @XML, * FROM OPENXML (@handle, '/Invoice',2)
  WITH (
    ProductType nvarchar(11) 'ProductType/ID',
    ProductName nvarchar(50) '@ProductName',
    CreationDate date 'CreationDate'
  );

EXEC sp_xml_removedocument @handle;
```


Product.xmlAll product types are 11 digits. The first five digits of the product id reference the category of the product and the remaining six digits are the subcategory of the product. The following is a sample customer invoice in XML format:

```
<?xml version="1.0"
<Product ProductName
  [illegible]
  <CreationDate>201
</Invoice>
```

ProductsByProductType.sql

```
(SELECT ProductID,
  ProductType,
  [illegible]
  FROM Production.Products
    WHERE ProductType=@ProductType);
```

Dynamic.sql

```
DECLARE @tsql AS nvarchar(500);
DECLARE @ProductType AS varchar(11), @CreationDate AS date;

SET @sqlstring=N'SELECT ProductID, ProductType, CreationDate
  FROM Production.Product
  [illegible]

EXEC sys.sp_executesql
  @statement=@sqlstring,
  @params=N'@ ProductType AS varchar(11), @CreationDate AS date',
@ProductType=00125061246, @Total='2012-05-10';
```

CategoryFromType.sql

```
CREATE FUNCTION CategoryFromType (@Type varchar(11)) RETURNS nvarchar(20)
AS
BEGIN
  DECLARE @Category AS varchar(20);
  SET @Category = LEFT(@Category,5);
  SELECT @Category = CASE @Type
    [illegible]
    [illegible]
    WHEN '00002'
      THEN 'Wheels'
    ...
    ELSE 'Other'
  END;
RETURN @Category;
END;
```

IndexManagement.sql

```
DECLARE @IndexTable TABLE (
  TableName varchar(100), IndexName varchar(100), Fragmentation int, RowNumber int
  );
DECLARE @TableName sysname, @IndexName sysname, @Fragmentation int,
  @RowNumber int, @sqlcommand varchar(1000);

INSERT INTO @IndexTable (TableName, IndexName, Fragmentation, Rownumber)
  SELECT OBJECT_NAME(i.Object_id),
    i.name AS IndexName,
    indexstats.avg_fragmentation_in_percent,
    ROW_NUMBER() OVER(ORDER BY i.name DESC) AS 'RowNumber'
  FROM sys.dm_db_index_physical_stats(DB_ID(), NULL, NULL, NULL, 'DETAILED')
    AS indexstats INNER JOIN sys.indexes AS i
    ON i.OBJECT_ID = indexstats.OBJECT_ID AND i.index_id = indexstats.index_id;

DECLARE @counter int = 0;

WHILE @counter < (SELECT RowNumber FROM @indextable)
  BEGIN
  SET @counter = @counter + 1;
    SELECT
    FROM @IndexTable WHERE RowNumber = @counter
    )
  SELECT
    @TableName= TableName,
    @IndexName = IndexName,
    @Fragmentation = Fragmentation
  FROM t;

  IF @Fragmentation <= 30
    BEGIN
      SET @sqlCommand =
        N'ALTER INDEX '+@indexName+N' ON '+@TableName+N' REORGANIZE';
      EXEC sp_executesql @sqlCommand;
    END;
  ELSE
    BEGIN
      SET @sqlCommand=N'ALTER INDEX '+@indexName+N' ON '+@TableName+N' REBUILD';
      EXEC sp_executesql @sqlCommand;
    END;
  END;
```


QUESTION 63You need to modify Production.ProductDetails_Insert to comply with the application requirements.Which code segment should you execute? A. ADD SIGNATURE TO Production.ProductDetails_Insert BY CERTIFICATE PRODUCTSCERT;B. OPEN DBCERT;ALTER PROCEDURE Production. ProductDetails_Insert WITH ENCRYPTION;CLOSE D3CERT;C. ADD SIGNATURE TO Production.ProductDetails_Insert BY CERTIFICATE DBCERT;D. OPEN PRODUCTSCERT;ALTER PROCEDURE Production. ProductDetails_Insert WITH ENCRYPTION;CLOSE PRODUCTSCERT; Answer: CExplanation:http://msdn.microsoft.com/en-us/library/bb669102.aspx QUESTION 64You need to create a function that will use a SELECT statement in ProductsByProductType.sql. Which code segment should you use to complete the function?

```
A. CREATE FUNCTION Producti
   RETURNS @tblInvoices TAB
   date)
   AS

B. CREATE FUNCTION Producti
   RETURNS xml
   AS
   RETURN

C. CREATE FUNCTION Producti
   RETURNS @tblInvoices TAB
   date)
   AS
   INSERT INTO @tblInvoices

D. CREATE FUNCTION Producti
   RETURNS TABLE
   AS
   RETURN
```

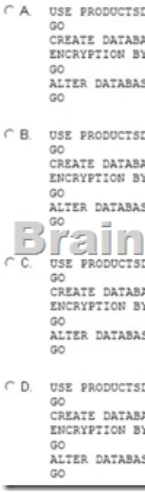

A. Option AB. Option BC. Option CD. Option D Answer: DExplanation: http://msdn.microsoft.com/en-us/library/ms191320.aspx http://msdn.microsoft.com/en-us/library/ms186755.aspx QUESTION 65 You are planning the ManufacturingSteps table. You need to define the ProductID column in the CREATE TABLE statement. Which code segment should you use?

```
A. ProductID bigint FOREIGN KEY REFERENCES
   Production.Product(ProductID) NOT NULL,

B. ProductID bigint
   DEFAULT (NEXT VALUE FOR Production.ProductID_Seq) NOT NULL,

C. ProductID bigint DEFAULT
   ((NEXT VALUE FOR Production.ProductID_Seq OVER
   (ORDER BY ManufacturingStepID)))
   NOT NULL FOREIGN KEY REFERENCES
   Production.Product(ProductID),

D. ProductID bigint DEFAULT
   ((NEXT VALUE FOR Production.ProductID_Seq OVER
   (ORDER BY ManufacturingStepID))) NOT NULL,
```


A. Option AB. Option BC. Option CD. Option D Answer: AExplanation: http://msdn.microsoft.com/en-us/library/ms189049.aspx http://msdn.microsoft.com/en-us/library/ms179610.aspx http://msdn.microsoft.com/en-us/library/ff878370.aspx QUESTION 66You need to prepare the database to use the .NET Framework ProcessProducts component. Which code segments should you execute? (Each correct answer presents part of the solution. Choose all that apply.)

```
A. CREATE ASSEMBLY ProductionAssembly FROM 'C:\Products\ProcessProducts.DLL'

B. RECONFIGURE;

C. EXEC sp_recompile @objname = 'Production.ProcessProduct';

D. CREATE TYPE Production.ProcessProduct
   EXTERNAL NAME ProductionAssembly.ProcessProducts.Process;

E. Exec SP_CONFIGURE 'clr enabled', '1';

F. CREATE PROCEDURE Production.ProcessProduct(
     @ProductID int, @ProductType varchar(11)
     )
   AS EXTERNAL NAME ProductionAssembly.ProcessProducts.Process;

G. CREATE ASSEMBLY ProductionAssembly FROM 'C:\Products\ProcessProducts.cs';
```

A. Option AB. Option BC. Option CD. Option DE. Option EF. Option FG. Option G Answer: ABDEExplanation:
http://msdn.microsoft.com/en-us/library/ms131048.aspx http://msdn.microsoft.com/en-us/library/ms131052.aspx
http://msdn.microsoft.com/en-us/library/ms189524.aspx http://msdn.microsoft.com/en-us/library/ms345106.aspx
http://msdn.microsoft.com/en-us/library/ms131107.aspx QUESTION 67An administrator provides a digital certificate named ServerCert. You need to implement Transparent Data Encryption (TDE) on ProductsDB. Which code segment should you use?



A. Option AB. Option BC. Option CD. Option D Answer: CExplanation:
http://msdn.microsoft.com/en-us/library/bb934049.aspx Case Study 6 - Database Application Scenario (QUESTION 68 ~ QUESTION 71)Application InformationYou have two servers named SQL1 and SQL2 that have SQL Server 2012 installed. You have an application that is used to schedule and manage conferences. Users report that the application has many errors and is very slow. You are updating the application to resolve the issues. You plan to create a new database on SQL1 to support the application. A junior database administrator has created all the scripts that will be used to create the database. The script that you plan to use to create the tables for the new database is shown in Tables.sql. The script that you plan to use to create the stored procedures for the new database is shown in StoredProcedures.sql. The script that you plan to use to create the indexes for the new database is shown in Indexes.sql. (Line numbers are included for reference only.) A database named DB2 resides on SQL2. DB2 has a table named SpeakerAudit that will audit changes to a table named Speakers.A stored procedure named usp_UpdateSpeakersName will be executed only by other stored procedures. The stored procedures executing usp_UpdateSpeakersName will always handle transactions.A stored procedure named usp_SelectSpeakersByName will be used to retrieve the names of speakers. Usp_SelectSpeakersByName can read uncommitted data. A stored procedure named usp_GetFutureSessions will be used to retrieve sessions that will occur in the future.Procedures.sql

```
51 FROM Sessions
52 WHERE SpeakerID = @SpeakerID;
53
54 UPDATE Sessions
55 SET RoomID = @RoomID
56 WHERE SpeakerID = @SpeakerID;
57
58 COMMIT TRANSACTION;
59
60 CREATE PROCEDURE usp_AttendeesReport
61   @LastName varchar(100)
62 AS
63 SELECT FirstName + ' ' + LastName AS FullName
64 FROM Attendees
65 WHERE LastName = @LastName;
66 GO
67
68 CREATE PROCEDURE usp_GetFutureSessions
69 AS
70 SELECT SpeakerID,
71   RoomID,
72   DeliveryTime
73 FROM Sessions
74
75 GO
76
77 CREATE PROCEDURE usp_TestSpeakers
78 AS
79 EXECUTE usp_SelectSpeakersByName 'a';
80 EXECUTE usp_SelectSpeakersByName 'an';
81 EXECUTE usp_SelectSpeakersByName 'and';
82 EXECUTE usp_SelectSpeakersByName 'ander';
83 EXECUTE usp_SelectSpeakersByName 'anderson';
84 EXECUTE usp_SelectSpeakersByName 'b';
85 EXECUTE usp_SelectSpeakersByName 'bi';
86 ...
87 EXECUTE usp_SelectSpeakersByName 'zzz';
88 GO
```

Indexes.sql

```
01 CREATE INDEX IX_Sessions ON Sessions
02 (SessionID, DeliveryTime)
03 INCLUDE (RoomID)
04
05 GO
06
07 CREATE INDEX IX_Speakers ON Speakers
08 (LastName);
09 GO
10
11 CREATE INDEX IX_Attendees_Name ON Attendees
12 (FirstName, LastName);
13
14 GO
15
16 CREATE INDEX IX_Attendees_Confirmed ON Attendees
17 (Confirmed);
18 GO
```


Tables.sql

```
01 CREATE DATABASE Conference;
02 GO
03
04 ALTER DATABASE Conference
05 SET READ_COMMITTED_SNAPSHOT ON;
06 GO
07
08 CREATE TABLE Attendees
09 (
10   AttendeeID int IDENTITY (1,1) NOT NULL,
11    FirstName nvarchar(100) NOT NULL,
12    LastName nvarchar(100) NOT NULL,
13    EmailAddress nvarchar(100) NOT NULL,
14
15    CONSTRAINT PK_Attendees_AttendeeID PRIMARY KEY (AttendeeID)
16 );
17 GO
18
19 CREATE TABLE Speakers
20 (
21   SpeakerID int IDENTITY(1,1) NOT NULL,
22   FirstName nvarchar(100) NOT NULL,
23   LastName nvarchar(100) NOT NULL,
24   EmailAddress nvarchar(100) NOT NULL,
25   CONSTRAINT PK_Speakers_SpeakerID PRIMARY KEY (SpeakerID)
26 );
27 GO
28
29 CREATE TABLE Sessions
30 (
31   SessionID uniqueidentifier NOT NULL
32     CONSTRAINT DF_SessionID DEFAULT (NEWID()),
33    SpeakerID int NOT NULL,
34    Title nvarchar(100) NOT NULL,
35    Abstract nvarchar(max) NOT NULL,
36    DeliveryTime datetime NOT NULL,
37    TitleAndSpeaker nvarchar(200)
38
39 );
40 GO
41
42 CREATE TABLE Rooms
43 (
44    RoomID uniqueidentifier NOT NULL CONSTRAINT DF_RoomID DEFAULT (NEWID()),
45     Location varchar(100) NOT NULL
46 );
```


QUESTION 68You need to provide referential integrity between the Sessions table and Speakers table. Which code segment should you add at line 47 of Tables.sql?

A.
```
ALTER TABLE dbo.Sessions ADD CONSTRAINT
FK_Sessions_Speakers FOREIGN KEY (SessionID)
REFERENCES dbo.Speakers (SpeakerID);
```

B.
```
ALTER TABLE dbo.Speakers ADD CONSTRAINT
FK_Speakers_Sessions FOREIGN KEY (SessionID)
REFERENCES dbo.Sessions (SessionID);
```


C.
```
ALTER TABLE dbo.Sessions ADD CONSTRAINT
FK_Sessions_Speakers FOREIGN KEY (SpeakerID)
REFERENCES dbo.Speakers (SpeakerID);
```

D.
```
ALTER TABLE dbo.Speakers ADD CONSTRAINT
FK_Speakers_Sessions FOREIGN KEY (SpeakerID)
REFERENCES dbo.Sessions (SessionID);
```

A. Option AB. Option BC. Option CD. Option D Answer: CExplanation: http://msdn.microsoft.com/en-us/library/ms189049.aspx http://msdn.microsoft.com/en-us/library/ms179610.aspx http://msdn.microsoft.com/en-us/library/ff878370.aspx QUESTION 69You need to add a new column named Confirmed to the Attendees table. The solution must meet the following requirements:- Have a default value of false.- Minimize the amount of disk space used.Which code block should you use? A. ALTER TABLE AttendeesADD Confirmed bit DEFAULT 0;B. ALTER TABLE AttendeesADD Confirmed char(1) DEFAULT '0';C. ALTER TABLE AttendeesADD Confirmed char(1) DEFAULT '1'; D. ALTER TABLE AttendeesADD Confirmed bit DEFAULT 1; Answer: AExplanation: http://msdn.microsoft.com/en-us/library/ms177603.aspx QUESTION 70You are evaluating the table design. You need to recommend a change to Tables.sql that reduces the amount of time it takes for usp_AttendeesReport to execute. What should you add at line 14 of Tables.sql? A. FullName AS (FirstName + ' ' + LastName),B. FullName nvarchar(100) NOT NULL DEFAULT (dbo.CreateFuIlName(FirstName, LastName)),C. FullName AS (FirstName + ' ' + LastName) PERSISTED,D. FullName nvarchar(100) NOT NULL CONSTRAINT DF_FullName DEFAULT (dbo.CreateFullName (FirstName, LastName)), Answer: C

Explanation:http://msdn.microsoft.com/en-us/library/ms188300.aspx http://msdn.microsoft.com/en-us/library/ms191250.aspx
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