

Microsoft

EXAM 70-433

TS: Microsoft SQL Server 2008, Database Development

Total Q&A: 145

Exam Version: 7.60

http://www.exam1pass.com/70-433-exam.html



Question: 1

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You administer a Microsoft SQL Server 2008 database for an inventory management system.

The application contains a product table that has the following definition: CREATE TABLE

[Production].[Product](

[ProductID] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](50) NOT NULL,

[ProductNumber] [nvarchar](25) NOT NULL,

[Color] [nvarchar](15) NULL,

[Class] [nchar](2) NULL,

[Style] [nchar](2) NULL,

[Active] [bit] NOT NULL,

[ModifiedDate] [datetime] NOT NULL,

 ${\tt CONSTRAINT\,[PK_Product_ProductID]\,PRIMARY\,KEY\,CLUSTERED}$

(

[ProductID] ASC

-) ON [PRIMARY]) ON [PRIMARY]GO You want to add a new field to the Product table to meet the following requirements:
- ·Allows user-specified information that will be added to records in the Product table.
- ·Supports the largest storage size needed for the field.
- ·Uses the smallest data type necessary to support the domain of values that will be entered by users. You need to add a field named User_Data_1 to support Unicode string values that have a minimum length of two characters and a maximum length of 100 characters.

Which SQL statement should you use?

- A. ALTER TABLE [Production].[Product] ADD [User_Data_1] NCHAR(100)
- B. ALTER TABLE [Production].[Product] ADD [User Data 1] NUMERIC(11,6)
- C. ALTER TABLE [Production].[Product] ADD [User_Data_1] VARCHAR(100)
- D. ALTER TABLE [Production].[Product] ADD [User_Data_1] MONEY
- E. ALTER TABLE [Production].[Product] ADD [User_Data_1] SMALLMONEY
- F. ALTER TABLE [Production].[Product] ADD [User_Data_1] DATE
- G. ALTER TABLE [Production].[Product] ADD [User_Data_1] INT
- H. ALTER TABLE [Production].[Product] ADD [User_Data_1] BIGINT
- I. ALTER TABLE [Production].[Product] ADD [User_Data_1] TINYINT
- J. ALTER TABLE [Production].[Product] ADD [User_Data_1] NVARCHAR(100)
- K. ALTER TABLE [Production].[Product] ADD [User_Data_1] CHAR(100)
- L. ALTER TABLE [Production].[Product] ADD [User Data 1] NUMERIC(6,11)
- M. ALTER TABLE [Production].[Product] ADD [User_Data_1] DATETIME2
- $N.\ ALTER\ TABLE\ [Production]. [Product]\ ADD\ [User_Data_1]\ DATETIME$
- O. ALTER TABLE [Production].[Product] ADD [User_Data_1] BIT
- P. ALTER TABLE [Production]. [Product] ADD [User Data 1] SMALLINT
- Q. ALTER TABLE [Production].[Product] ADD [User Data 1] SMALLDATETIME



R. ALTER TABLE [Production].[Product] ADD [User_Data_1] NUMERIC(5,6)

Answer: J

Question: 2

You are the database developer for a Microsoft SQL Server 2008 database that contains tables named order and product.

The tables have the following definitions: CREATE TABLE [order]

(OrderID INT,

ProductID INT,

CustomerID INT,

OrderDate DATETIME); CREATE TABLE product

(ProductID INT,

ProductName VARCHAR(100),

SalePrice money,

ManufacturerName VARCHAR(100)); You need to write a query that will extract a valid XML result set of all ordered products. You also need to ensure that the query conforms to the following schema: <?xml version="1.0" encoding="utf-16"?><xsd:schema

attributeFormDefault="unqualified" elementFormDefault="qualified" version="1.0"

xmlns:xsd="http://www.w3.org/2001/XMLSchema">

<xsd:element name="OrderedProducts">

<xsd:complexType>

<xsd:sequence>

<xsd:element name="ProductID" type="xsd:int" />

<xsd:element name="ProductName" type="xsd:string" />

<xsd:element name="SalePrice" type="xsd:decimal" />

<xsd:element name="ManufacturerName" type="xsd:string" />

<xsd:element name="OrderDate" type="xsd:dateTime" />

</xsd:sequence>

</xsd:complexType>

</xsd:element></xsd:schema> Which SQL query should you use?

Α.

 $SELECTp. ProductID, p. ProductName, p. Sale Price, p. Manufacturer Name, o. Order Date FROM product \\ p. INNER. JOIN[order] o. ON. p. ProductID = o. ProductIDFOR XML AUTO ('Ordered Products'); \\$

B.

SELECTp.ProductID,p.ProductName,p.SalePrice,p.ManufacturerName,o.OrderDateFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductIDFOR XML AUTO;

C.

SELECTp.ProductID,p.ProductName,p.SalePrice,p.ManufacturerName,o.OrderDateFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductIDFOR XML PATH ('OrderedProducts');

D.

SELECT'<OrderedProducts>',p.ProductID,p.ProductName,p.SalePrice,p.ManufacturerName,o.Ord erDate,'</OrderedProducts>'FROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductIDFOR XML PATH;



E. SELECT1 as Tag,0 as Parent,p.ProductID as

[OrderedProducts!1!ProductID!ELEMENT],p.ProductName as

[OrderedProducts!1!ProductName!ELEMENT],p.SalePrice as

[OrderedProducts!1!SalePrice!ELEMENT],p.ManufacturerName as

[OrderedProducts!1!ManufacturerName!ELEMENT],o.OrderDate as

[OrderedProducts!1!OrderDate!ELEMENT]FROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductIDFOR XML EXPLICIT;

F. SELECT1 as Tag,0 as Parent,p.ProductID as

[OrderedProducts!1!ProductID!ELEMENT],p.ProductName as

[OrderedProducts!1!ProductName!ELEMENT],p.SalePrice as

[OrderedProducts!1!SalePrice!ELEMENT],p.ManufacturerName as

[OrderedProducts!1!ManufacturerName!ELEMENT],o.OrderDate as

[OrderedProducts!1!OrderDate!ELEMENT]FROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductIDFOR XML EXPLICIT ('OrderedProducts');

G.

SELECTp.ProductID,p.ProductName,p.SalePrice,p.ManufacturerName,o.OrderDateFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductIDFOR XML RAW;

Η.

SELECTp.ProductID,p.ProductName,p.SalePrice,p.ManufacturerName,o.OrderDateFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductIDFOR XML RAW ('OrderedProducts');

Answer: C OR E

Question: 3

You are a database developer writing reports for a sales management application. A customer table has the following definition: CREATE TABLE customer

(CustomerID INT,

FirstName VARCHAR(30),

LastName VARCHAR(50),

StreetAddress VARCHAR(100),

City VARCHAR(100),

[State] VARCHAR(25),

PostalCode VARCHAR(5)); An order table has the following definition: CREATE TABLE [order]

(OrderID INT,

ProductID INT,

CustomerID INT,

OrderDate DATETIME); You need to write a report that contains the following columns:

Column name	Description
CustomerID	The CustomerID
FullName	Concatenated first and last names
Postalcode	Customer's Postal Code
OrderCount	Number of orders for this customer
EarliestOrderDate	The OrderDate from the earliest (by OrderDate) order for this customer



You also need to ensure that the report meets the following requirements:

- ·Contains only customers who have placed orders
- ·Contains only customers who have Postal Codes beginning with 89
- ·Returns only one record for each customer
- ·The report is ordered by the CustomerID in ascending order Which Transact-SQL query should you use?

A. SELECT c.CustomerID,c.FirstName + ' ' + c.LastName AS FullName,c.PostalCode,COUNT(*) AS OrderCount,MIN(o.OrderDate) AS EarliestOrderDateFROM Customer cINNER JOIN [order] o ON c.CustomerId = o.CustomerIdWHEREc.PostalCode LIKE '89%'GROUP BY c.CustomerId, c.FirstName + ' ' + c.LastName, c.PostalCode, o.CustomerIdORDER BY c.CustomerID

B. SELECT c.CustomerID,c.FirstName + ' ' + c.LastName AS FullName,c.PostalCode,COUNT(*) AS OrderCount,MIN(o.OrderDate) AS EarliestOrderDateFROM Customer cINNER JOIN [order] o ON c.CustomerId = o.CustomerIdWHERE c.PostalCode = '89%'GROUP BY c.CustomerId, c.FirstName + ' ' + c.LastName, c.PostalCode, o.CustomerIdORDER BY FullName

C. WITH FullNames AS(SELECT CustomerId,FirstName + ' ' + LastName AS FullNameFROM customer)SELECT c.CustomerID,fn.FullName,c.PostalCode,COUNT(*) AS

OrderCount,MIN(o.OrderDate) AS EarliestOrderDateFROM Customer cINNER JOIN FullNames fn

ON fn.CustomerID = c.CustomerIDINNER JOIN [order] o ON c.CustomerId = o.CustomerIdWHERE c.PostalCode LIKE '89%'GROUP BY c.CustomerId, fn.FullName, c.PostalCode, o.CustomerIdORDER BY c.CustomerID

D. SELECT c.CustomerID,c.FirstName + ' ' + c.LastName AS FullName,c.PostalCode,COUNT(*) AS OrderCount,MIN(o.OrderDate) AS EarliestOrderDateFROM Customer cLEFT OUTER JOIN [order] o ON c.CustomerId = o.CustomerIdWHERE c.PostalCode LIKE '89%'GROUP BY c.CustomerId, c.FirstName + ' ' + c.LastName, c.PostalCode, o.CustomerIdORDER BY c.CustomerID E. USING FullNames AS(SELECTCustomerId,FirstName + ' ' + LastName AS FullNameFROM customer)SELECT c.CustomerID,fn.FullName,c.PostalCode,COUNT(*) AS OrderCount,MIN(o.OrderDate) AS EarliestOrderDateFROM Customer cINNER JOIN FullNames fn ON fn.CustomerID = c.CustomerIDINNER JOIN [order] o ON c.CustomerId = o.CustomerIdWHERE c.PostalCode LIKE '89%'GROUP BY c.CustomerId, fn.FullName, c.PostalCode, o.CustomerIdORDER BY c.CustomerID

F. SELECT c.CustomerID,c.FirstName & ' ' & c.LastName AS FullName,c.PostalCode,COUNT(*) AS OrderCount,MIN(o.OrderDate) AS EarliestOrderDateFROM Customer cINNER JOIN [order] o ON c.CustomerId = o.CustomerIdWHERE c.PostalCode LIKE '89%'GROUP BY c.CustomerId, c.FirstName & ' ' & c.LastName, c.PostalCode, o.CustomerIdORDER BY c.CustomerID G. SELECTc.CustomerID,c.FirstName + ' ' + c.LastName AS FullName,c.PostalCode,COUNT(*) AS OrderCount,MIN(o.OrderDate) AS EarliestOrderDateFROM Customer cINNER JOIN [order] o ON c.CustomerId = o.CustomerIdWHEREc.PostalCode LIKE '89%'ORDER BY c.CustomerID H. WITH FullNames AS(SELECTCustomerId,FirstName + ' ' + LastName AS FullNameFROM customer)SELECTc.CustomerID,fn.FullName,c.PostalCode,COUNT(*) AS OrderCount,MIN(o.OrderDate) AS EarliestOrderDateFROM Customer cINNER JOIN FullNames fn ON fn.CustomerID = c.CustomerIDINNER JOIN [order] o ON c.CustomerId = o.CustomerIdGROUP BY c.CustomerId, fn.FullName, c.PostalCode, o.CustomerIdORDER BY c.CustomerID

Answer: A OR C



Question: 4

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You administer a Microsoft SQL Server 2008 database named AdventureWorks that contains a table named Production.Product. The table contains a primary key named PK_Product_ProductID and a non-clustered index named AK_Product_ProductNumber. Both indexes have been created on a single primary partition.

The table has the following definition: CREATE TABLE [Production].[Product](

[ProductID] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](50) NOT NULL,

[ProductNumber] [nvarchar](25) NOT NULL,

[Color] [nvarchar](15) NULL,

[Class] [nchar](2) NULL,

[Style] [nchar](2) NULL,

[ModifiedDate] [datetime] NOT NULL,

 ${\tt CONSTRAINT~[PK_Product_ProductID]~PRIMARY~KEY~CLUSTERED}$

(

[ProductID] ASC

) ON [PRIMARY]) ON [PRIMARY]GO The index has the following definition: CREATE UNIQUE NONCLUSTERED INDEX [AK_Product_ProductNumber] ON [Production].[Product] (

[ProductNumber] ASC) ON [PRIMARY]GO The Production.Product table contains 1 million rows.

You want to ensure that data retrieval takes the minimum amount of time when the queries executed against the Production. Product table are ordered by product number or filtered by class.

You need to find out the degree of fragmentation for the indexes on the Production. Product table.

Which Transact-SQL statement should you use?

A. ALTER STATISTICS Production. Product

B. SELECT * FROM sys.indexes where name=N'Production.Product'

C. CREATE STATISTICS ProductClass_StatsON Production.Product (Name, ProductNumber,

Class)WHERE Class is not null

D. SELECT * FROM sys.dm_db_index_physical_stats (DB_ID(),

OBJECT_ID(N'Production.Product'), NULL, NULL, NULL)

E. SELECT * FROM STATS WHERE name='AK_Product_ProductNumber'

F. DBCC SHOW_STATISTICS ('Production.Product', AK_Product_ProductNumber)

G. UPDATE INDEX AK Product ProductNumber ON Production. Product SET

(STATISTICS_NORECOMPUTE = ON)

H. ALTER INDEX AK_Product_ProductNumber ON Production.Product REBUILD

I. SELECT * FROM sys.dm_db_index_operational_stats (DB_ID(),

OBJECT ID(N'Production.Product'), NULL, NULL)

J. SELECT * FROM SYS.STATS WHERE name='AK Product ProductNumber'

K. EXEC sys.sp_configure 'index create memory', 1

 $L.\ CREATE\ STATS\ Product Class_Stats ON\ Production. Product\ (Name,\ Product Number,\ Class) WHERE$

Class is not nullWITH SAMPLE 100 PERCENT





M. ALTER DATABASE [AdventureWorks] SET AUTO_UPDATE_STATISTICS ON

N. ALTER INDEX AK Product ProductNumber ON Production.Product REBUILD Partition = 1

O. UPDATE STATISTICS Production. Product

P. ALTER INDEX AK Product ProductNumber ON Production.Product REORGANIZE

Q. CREATE STATISTICS ProductClass_StatsON Production.Product (Name, ProductNumber, Class)WHERE Class <> null

Answer: D

Question: 5

A table named Contacts includes a column named SmtpAddress. You must develop a report that returns e-mail addresses from the Contacts table that have the following format: at least one character, the at sign (@), at least one character, and then ".org". You need to return data that meets the requirements. Which Transact-SQL statement should you use?

A. select * from Contacts where SmtpAddress like '%@%.org'

B. select * from Contacts where SmtpAddress like '_%@_%.org'

C. select * from Contacts where SmtpAddress like '_%@_.org'

D. select * from Contacts where SmtpAddress like '%@%[.]org'

Answer: B

Question: 6

You have a column named TelephoneNumber that stores numbers as varchar(20). You need to write a query that returns the first three characters of a telephone number. Which expression should you use?

A. CHARINDEX('[0-9][0-9]', TelephoneNumber, 3)

B. SUBSTRING(TelephoneNumber, 3, 3)

C. SUBSTRING(TelephoneNumber, 3, 1)

D. LEFT(TelephoneNumber, 3)

Answer: D

Question: 7

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You administer a Microsoft SQL Server 2008 database named AdventureWorks that contains a table named Production.Product. The table contains a primary key named PK_Product_ProductID and a non-clustered index named AK_Product_ProductNumber. Both indexes have been created on a single primary partition. The table has the following definition: CREATE TABLE [Product](

[ProductID] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](50) NOT NULL,

[ProductNumber] [nvarchar](25) NOT NULL,

[Color] [nvarchar](15) NULL,

[Class] [nchar](2) NULL,



[Style] [nchar](2) NULL,
[ModifiedDate] [datetime] NOT NULL,
CONSTRAINT [PK_Product_ProductID] PRIMARY KEY CLUSTERED
(
[ProductID] ASC

) ON [PRIMARY]) ON [PRIMARY]GO The index has the following definition: CREATE UNIQUE NONCLUSTERED INDEX [AK_Product_ProductNumber] ON [Production].[Product] ([ProductNumber] ASC) ON [PRIMARY]GO The Production.Product table contains 1 million rows. You want to ensure that data retrieval takes the minimum amount of time when the queries executed against the Production.Product table are ordered by product number or filtered by class. You need to build new query optimization statistics on the Production.Product table to support queries that filter data rows where the class field has a null value. Which Transact-SQL statement should you use?

- A. DBCC SHOW_STATISTICS ('Production.Product', AK_Product_ProductNumber)
- B. EXEC sys.sp_configure 'index create memory', 1
- C. ALTER INDEX AK_Product_ProductNumber ON Production.Product REORGANIZE
- D. ALTER INDEX AK_Product_ProductNumber ON Production.Product REBUILD Partition = 1
- E. CREATE STATS ProductClass_StatsON Production.Product (Name, ProductNumber, Class)WHERE Class is not nullWITH SAMPLE 100 PERCENT
- F. SELECT * FROM sys.dm_db_index_physical_stats (DB_ID(),
- OBJECT_ID(N'Production.Product'), NULL, NULL, NULL)
- G. UPDATE INDEX AK_Product_ProductNumber ON Production.Product SET (STATISTICS NORECOMPUTE = ON)
- H. UPDATE STATISTICS Production.Product
- I. CREATE STATISTICS ProductClass_StatsON Production.Product (Name, ProductNumber, Class)WHERE Class <> null
- J. SELECT * FROM sys.dm_db_index_operational_stats (DB_ID(),

OBJECT_ID(N'Production.Product'),NULL, NULL)

- K. SELECT * FROM SYS.STATS WHERE name='AK_Product_ProductNumber'
- L. ALTER INDEX AK Product ProductNumber ON Production. Product REBUILD
- M. ALTER STATISTICS Production.Product
- N. CREATE STATISTICS ProductClass_StatsON Production.Product (Name, ProductNumber, Class)WHERE Class is not null
- O. SELECT * FROM sys.indexes where name=N'Production.Product'
- P. ALTER DATABASE [AdventureWorks] SET AUTO_UPDATE_STATISTICS ON
- Q. SELECT * FROM STATS WHERE name='AK_Product_ProductNumber'

Answer: N

Question: 8

You are using SQL Server Profiler to gather deadlock information. You need to capture an XML description of a deadlock. Which event should you use?

- A. Showplan XML
- B. Lock:Deadlock



- C. Deadlock Graph
- D. Lock:Deadlock Chain

Answer: C

Question: 9

You develop a new stored procedure for an existing database. You create two tables named Customer and Orders.

The tables have the following definitions: CREATE TABLE Customer

(CustomerID int NOT NULL PRIMARY KEY CLUSTERED,

CustomerName nvarchar(255) NOT NULL,

CustomerAddress nvarchar (1024) NOT NULL) CREATE TABLE Orders

(OrderID int NOT NULL PRIMARY KEY CLUSTERED,

CustomerID int NOT NULL FOREIGN KEY REFERENCES Customer(CustomerID),

OrderDetails nvarchar(MAX)) Users are restricted from accessing table objects directly. You need to ensure that users are able to retrieve customer data. You need to create a stored procedure that meets the following requirements:

- ·Returns a row that contains the name, address, and number of orders made by a customer by specifying the CustomerID value.
- ·Returns a row even if the customer has made no orders.
- ·Does not return a row if the CustomerID does not exist. Which Transact-SQL statement or statements should you use?
- A. INSERT INTO Tickets VALUES (4, 'sales', 'open', 0), (5, 'support', 'open', 0), (6, 'support', 'open', 1)
- B. UPDATE TicketsSET IsArchived = 1WHERE TicketId IN (1, 2, 3)
- C. CREATE PROCEDURE p_GetTotalOrdersByCustomer (@customerid int)AS SELECT
- c.CustomerName, c.CustomerAddress, TotalOrders = COUNT(o.OrderID)FROM Customer cINNER
- JOIN Orders oON c.CustomerID = o.CustomerIDGROUP BY c.CustomerName,
- c.CustomerAddressWHERE c.CustomerID = @customerid GO
- D. CREATE PROCEDURE p_GetTotalOrdersByCustomer (@customerid int)AS SELECT
- c.CustomerName, c.CustomerAddress,TotalOrders = SUM(o.OrderID)FROM Customer cINNER
- JOIN Orders oON c.CustomerID = o.CustomerIDGROUP BY c.CustomerName, c.CustomerAddress GO
- E. INSERT INTO SupportTickets VALUES (4, 'support', 'open', 0), (5, 'support', 'in progress', 0), (6, 'support', 'closed', 0)
- F. INSERT INTO Tickets VALUES (4, 'support', 'open', 0), (5, 'support', 'in progress', 0), (6, 'support', 'closed', 0)
- G. CREATE PROCEDURE p_GetTotalOrdersByCustomer (@customerid int)AS SELECT c.CustomerName, c.CustomerAddress, TotalOrders = ISNULL(o.TotalOrders, 0)FROM Customer cINNER JOIN (SELECT CustomerID, TotalOrders = COUNT(OrderID)FROM OrdersWHERE CustomerID = @customeridGROUP BY CustomerID) oON c.CustomerID = o.CustomerIDWHERE c.CustomerID = @customerid GO
- H. CREATE PROCEDURE p_GetTotalOrdersByCustomer (@customerid int)AS SELECT c.CustomerName, c.CustomerAddress, TotalOrders = ISNULL(o.TotalOrders, 0)FROM Customer



cINNER JOIN (SELECT CustomerID, TotalOrders = SUM(OrderID)FROM OrdersWHERE CustomerID = @customeridGROUP BY CustomerID) oON c.CustomerID = o.CustomerIDWHERE c.CustomerID = @customerid GO

Answer: BORF

Question: 10

You administer a Microsoft SQL Server 2008 instance that has two databases. The first database named AdventureWorks contains a table named Sales. Sales Orders.

The Sales. Sales Orders table has the following definition: CREATE TABLE [Sales]. [Sales Order Detail] ([Sales Order Detail] [int] IDENTITY (1,1) NOT NULL,

[ProductID] [int] NOT NULL,

[OrderQty] [smallint] NOT NULL,

[OrderDate] [datetime] NOT NULL,

 ${\tt CONSTRAINT~[PK_SalesOrderDetail]~PRIMARY~KEY~CLUSTERED}$

(

[SalesOrderDetailID] ASC

)) ON [PRIMARY] The second database named AdventureWorksDW contains a table named dbo.SalesOrderSummary.

The dbo.SalesOrderSummary table has the following definition: CREATE TABLE

[dbo].[SalesOrderSummary] (

ProductID [int] NOT NULL,

OrderQty [int] NOT NULL,

OrderYear [int] NOT NULL,

CONSTRAINT [PK SalesOrderSummary] PRIMARY KEY CLUSTERED

(

OrderYear ASC,

ProductID ASC

-)) ON [PRIMARY] You plan to migrate sales data for the year 2011 from the SalesOrderDetail table into the SalesOrderSummary table. You need to ensure that the following requirements are met:
- ·All data is removed from the SalesOrderSummary table before migrating data.
- ·A subset of data is migrated from the SalesOrderDetail table in the AdventureWorks database to the SalesOrderSummary table in the AdventureWorksDW database.
- ·Migrated data summarizes order quantity in one row per product for the year 2011. Which three Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)
- A. USE AdventureWorksGO
- B. USE AdventureWorksDWGO
- C. DELETE TABLE dbo.SalesOrderSummaryGO
- D. TRUNCATE TABLE dbo.SalesOrderSummaryGO
- E. SELECTProductID,SUM(OrderQty) as OrderQty,YEAR(OrderDate) as OrderYear INTOdbo.SalesOrderSummaryFROMAdventureWorks.Sales.SalesOrderDetailWHEREYEAR(OrderDate)=2011GROUP BYProductID,YEAR(OrderDate)GO
- F. SELECTProductID, SUM (OrderQty) AS OrderQty, YEAR (2011) AS





 $Order Year INTO dbo. Sales Order Summary FROM Adventure Works. Sales. Sales Order Detail GROUP \\ BY Product IDHAVING YEAR (2011) = 2011 GO$

G. INSERT dbo.SalesOrderSummary (ProductID, OrderQty,

OrderYear)SELECTProductID,SUM(OrderQty) AS OrderQty,YEAR(OrderDate) AS OrderYear

FROM Adventure Works. Sales. Sales Order Detail WHEREYEAR (Order Date) = 2011 GROUP

BYProductID,YEAR(OrderDate)GO

H. INSERT dbo.SalesOrderSummary (ProductID, OrderQty,

OrderYear)SELECTProductID,SUM(OrderQty),YEAR(2011)

FROMAdventureWorks.Sales.SalesOrderDetailGROUP BYProductIDHAVINGYEAR(2011)=2011GO

Answer: (B BEFORE D) AND (D BEFORE G) AND ONLY (B, D, G)

Question: 11

A database contains tables named Sales and SalesArchive. SalesArchive contains historical sales data. You configure Change Tracking on the Sales table. The minimum valid version of the Sales table is 10. You need to write a query to export only sales data that changed since version 10, including the primary key of deleted rows.

Which method should you use?

- A. FROM SalesRIGHT JOIN CHANGETABLE (CHANGES Sales, 10) AS C ...
- B. FROM SalesINNER JOIN CHANGETABLE (CHANGES Sales, 10) AS C ...
- C. FROM SalesRIGHT JOIN CHANGETABLE (CHANGES SalesArchive, 10) AS C ...
- D. FROM SalesINNER JOIN CHANGETABLE (CHANGES SalesArchive, 10) AS C ...

Answer: A

Question: 12

You administer a Microsoft SQL Server 2008 database that contains a stored procedure named dbo.SalesOrderDetails. The stored procedure has following definition: CREATE PROCEDURE dbo.SalesOrderDetails

@CustomerID int,

@OrderDate datetime,

@SalesOrderID intASSELECT

h.SalesOrderID,

h.OrderDate,

d.OrderQty,

d.ProductIDFROM

Sales.SalesOrderHeader h

INNER JOIN

Sales.SalesOrderDetail d

ON d.SalesOrderID = h.SalesOrderIDWHERE

h.CustomerID = @CustomerID

or h.OrderDate > @OrderDate

or h.SalesOrderID > @SalesOrderIDGO Parameter values passed to the stored procedure largely





vary. You discover that the stored procedure executes quickly for some parameters but slowly for other parameters. You need to ensure that the query plan generated is optimized to provide the most consistent execution times for any set of parameters passed to the stored procedure. Which query hint should you use?

- A. OPTION (KEEP PLAN)
- **B. OPTION (KEEPFIXED PLAN)**
- C. OPTION (OPTIMIZE FOR UNKNOWN)
- D. OPTION (NOLOCK)
- E. OPTION (RECOMPILE)
- F. OPTION (FAST 25)
- G. OPTION (MAXDOP 25)
- H. OPTION (ROBUST PLAN)

Answer: C OR E

Question: 13

You notice that a database server is responding slowly to queries. You run the following dynamic management views (DMV) query on the server. SELECT TOP (10)

wait type,

wait_time_msFROM sys.dm_os_wait_statsORDER BY wait_time_ms DESC; The query returns a top wait type of SOS_SCHEDULER_YIELD. You need to identify what is causing the server response issues. Which resource should you investigate first?

- A. Memory
- B. Network
- C. CPU
- D. Disk

Answer: C

Question: 14

You administer a Microsoft SQL Server 2008 database that contains a table named dbo.[order]. There are no triggers on the table. You plan to create a stored procedure that will have the following parameters:

- ·@ProdId int
- ·@CustId int You need to ensure that the following requirements are met:
- ·The OrderID and ProdID values of each modified row are captured into a local table variable before data is modified.
- ·The ProdID is modified to @ProdID where CustID is equal to @CustId. Which Transact-SQL statement should you use?
- $A. \ \ DECLARE \ @OrderIDs \ TABLE \ (OrderID \ INT, \ ProdID \ INT); \ UPDATE \ dbo.[order]SETProdID = \\ @ProdIdOUTPUT \ DELETED.OrderID, \ DELETED.ProdID \ INTO \ @OrderIDsWHERECustID = \ @CustId; \\ \\ ProdIdOUTPUT \ DELETED.OrderID, \ D$
- B. DECLARE @OrderIDs TABLE (OrderID INT, ProdID INT); UPDATE dbo.[order]SETProdID = @ProdIdWHERECustID = @CustId;INSERT into @OrderIDsSELECT SCOPE_IDENTITY(OrderId), SCOPE_IDENTITY(ProdId);
- C. DECLARE @OrderIDs TABLE (OrderID INT, ProdID INT); UPDATE dbo.[order]SETProdID =





@ProdIdOUTPUT INSERTED.OrderID, INSERTED.ProdIDWHERECustID = @CustId;

D. DECLARE @OrderIDs TABLE (OrderID INT, ProdID INT); UPDATE dbo.[order]SETProdID =

@ProdIdOUTPUT INSERTED.OrderID, INSERTED.ProdID INTO @OrderIDsWHERECustID = @CustId;

E. DECLARE @OrderIDs TABLE (OrderID INT, ProdID INT); UPDATE dbo.[order]SETProdID =

@ProdIdOUTPUT SELECT d.OrderID, d.ProdID FROM DELETED d INTO @OrderIDsWHERECustID = @CustId;

F. DECLARE @OrderIDs TABLE (OrderID INT, ProdID INT); UPDATE dbo.[order]SETProdID =

@ProdIdOUTPUT INSERTED.OrderID, DELETED.ProdID INTO @OrderIDsWHERECustID = @CustId;

G. UPDATE [order]SETProdID = @ProdIdOUTPUT DELETED.OrderID, DELETED.ProdIDINTO

@OrderIDs (OrderID INT, ProdID INT)WHERECustID = @CustId;

H. DECLARE @OrderIDs TABLE (OrderID INT, ProdID INT); UPDATE [order]SETProdID = @CustIdOUTPUT #INSERTED.OrderID, #INSERTED.ProdID INTO @OrderIDsWHERECustID = @CustId;

Answer: A OR F

Question: 15

You have a table named Inventory. You open a Microsoft Windows PowerShell session at the following location by using the SQL Server Windows PowerShell provider. PS SQLSERVER:\SQL\CONTOSO\DEFAULT\Databases\ReportServer\Tables\dbo.Inventory\Columns> Using the SQL Server Windows PowerShell provider, you need to query all the columns in the table. Which cmdlet should you use?

- A. Get-ChildItem
- B. Get-ItemProperty
- C. Get-Location
- D. Get-Item

Answer: A

Question: 16

You need to ensure that tables are not dropped from your database. What should you do?

- A. Create a DML trigger that contains ROLLBACK.
- B. Create a DML trigger that contains COMMIT.
- C. Create a DDL trigger that contains COMMIT.
- D. Create a DDL trigger that contains ROLLBACK.

Answer: D

Question: 17

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You administer a Microsoft SQL Server 2008 database for an inventory management system.

The application contains a product table that has the following definition: CREATE TABLE [Production].[Product](

[ProductID] [int] IDENTITY(1,1) NOT NULL,



[Name] [nvarchar](50) NOT NULL,
[ProductNumber] [nvarchar](25) NOT NULL,
[Color] [nvarchar](15) NULL,
[Class] [nchar](2) NULL,
[Style] [nchar](2) NULL,
[Active] [bit] NOT NULL,
[ModifiedDate] [datetime] NOT NULL,
CONSTRAINT [PK_Product_ProductID] PRIMARY KEY CLUSTERED (

[ProductID] ASC

-) ON [PRIMARY]) ON [PRIMARY]GO You want to add a new field to the Product table to meet the following requirements:
- ·Allows user-specified information that will be added to records in the Product table.
- ·Supports the largest storage size needed for the field.
- ·Uses the smallest data type necessary to support the domain of values that will be entered by users. You need to add a field named User_Data_1 to support integer values ranging from -10 through 10.

Which SQL statement should you use?

- A. ALTER TABLE [Production].[Product] ADD [User_Data_1] VARCHAR(100)
- B. ALTER TABLE [Production].[Product] ADD [User_Data_1] BIGINT
- C. ALTER TABLE [Production].[Product] ADD [User_Data_1] NUMERIC(11,6)
- D. ALTER TABLE [Production].[Product] ADD [User_Data_1] INT
- E. ALTER TABLE [Production].[Product] ADD [User_Data_1] DATETIME
- F. ALTER TABLE [Production].[Product] ADD [User_Data_1] SMALLINT
- G. ALTER TABLE [Production]. [Product] ADD [User Data 1] SMALLMONEY
- H. ALTER TABLE [Production]. [Product] ADD [User Data 1] SMALLDATETIME
- I. ALTER TABLE [Production].[Product] ADD [User_Data_1] NUMERIC(5,6)
- J. ALTER TABLE [Production].[Product] ADD [User_Data_1] DATETIME2
- $\hbox{K. ALTER TABLE [Production].[Product] ADD [User_Data_1] MONEY}\\$
- L. ALTER TABLE [Production].[Product] ADD [User_Data_1] BIT
- M. ALTER TABLE [Production].[Product] ADD [User_Data_1] CHAR(100)
- N. ALTER TABLE [Production].[Product] ADD [User_Data_1] DATE
- O. ALTER TABLE [Production].[Product] ADD [User_Data_1] TINYINT
- P. ALTER TABLE [Production].[Product] ADD [User_Data_1] NVARCHAR(100)
- Q. ALTER TABLE [Production].[Product] ADD [User_Data_1] NCHAR(100)
- R. ALTER TABLE [Production].[Product] ADD [User_Data_1] NUMERIC(6,11)

Answer: F

Question: 18

You need to round the value 1.75 to the nearest whole number. Which code segment should you use?

- A. Select ROUND(1.75,1.0)
- B. Select ROUND(1.75,2)



C. Select ROUND(1.75,0)

D. Select ROUND(1.75,2.0)

Answer: C

Question: 19

You are the database developer for an order-processing application. The database has the following tables: CREATE TABLE dbo.Product (ProdID INT NOT NULL PRIMARY KEY, ProdName VARCHAR(100) NOT NULL,

SalePrice MONEY NOT NULL,

ManufacturerName VARCHAR(100) NOT NULL); CREATE TABLE dbo.Customer (CustID INT NOT NULL PRIMARY KEY,

CustName VARCHAR(100) NOT NULL,

CustAddress VARCHAR(200) NOT NULL,

CustCity VARCHAR(100) NOT NULL,

CustState VARCHAR(50) NOT NULL,

CustPostalCode VARCHAR(5) NOT NULL); CREATE TABLE dbo.[Order](OrderID INT NOT NULL PRIMARY KEY,

ProdID INT NOT NULL

REFERENCES dbo.Product(ProdId),

CustID INT NOT NULL

REFERENCES dbo.Customer(CustId),

OrderDate DATETIME NOT NULL); You need to ensure that the following requirements are met:

- ·Data is loaded into the tables.
- ·Data that has been inserted will be removed if any statement fails.
- ·No open transactions are performed after the batch has executed. Which Transact-SQL statements should you use?

A. BEGIN TRY SAVE TRANSACTION DataLoad INSERT INTO dbo.Product VALUES(1, 'Chair', 146.58, 'Contoso'),(2, 'Table', 458.36, 'Contoso'),(3, 'Cabinet', 398.17, 'Northwind Traders'),(4, 'Desk', 1483.25, 'Northwind Traders'); INSERT INTO dbo.Customer VALUES(1, 'John Smith', '200 West 2nd St', 'Seattle', 'WA', '98060'),(2, 'Bob Jones', '300 Main St', 'Portland', 'OR', '97211'),(3, 'Fred Thomson', '100 Park Ave', 'San Francisco', 'CA', '94172'); INSERT INTO dbo.[Order] VALUES(1, 1, 2, '09/15/2011'),(2, 4, 2, '09/15/2011'),(3, 2, 1, '08/17/2011'),(4, 2, 3, '07/01/2011'),(5, 3, 3, '10/02/2011'); COMMIT TRANSACTION DataLoad; END TRYBEGIN CATCH IF @@TRANCOUNT > 0 BEGINROLLBACK TRANSACTION DataLoad; END CATCH;

B. BEGIN TRY BEGIN TRANSACTION INSERT INTO dbo.Product VALUES(1, 'Chair', 146.58, 'Contoso'),(2, 'Table', 458.36, 'Contoso'),(3, 'Cabinet', 398.17, 'Northwind Traders'),(4, 'Desk', 1483.25, 'Northwind Traders'); INSERT INTO dbo.Customer VALUES(1, 'John Smith', '200 West 2nd St', 'Seattle', 'WA', '98060'),(2, 'Bob Jones', '300 Main St', 'Portland', 'OR', '97211'),(3, 'Fred Thomson', '100 Park Ave', 'San Francisco', 'CA', '94172'); INSERT INTO dbo.[Order] VALUES(1, 1, 2, '09/15/2011'),(2, 4, 2, '09/15/2011'),(3, 2, 1, '08/17/2011'),(4, 2, 3, '07/01/2011'),(5, 3, 3, '10/02/2011'); COMMIT TRANSACTION; END TRYBEGIN CATCH IF @@TRANCOUNT > 0 BEGINROLLBACK TRANSACTION; END CATCH;

C. BEGIN TRY BEGIN TRANSACTION customers; INSERT INTO dbo.Product VALUES(1, 'Chair',



146.58, 'Contoso'),(2, 'Table', 458.36, 'Contoso'),(3, 'Cabinet', 398.17, 'Northwind Traders'),(4, 'Desk', 1483.25, 'Northwind Traders'); INSERT INTO dbo.Customer VALUES(1, 'John Smith', '200 West 2nd St', 'Seattle', 'WA', '98060'),(2, 'Bob Jones', '300 Main St', 'Portland', 'OR', '97211'),(3, 'Fred Thomson', '100 Park Ave', 'San Francisco', 'CA', '94172'); INSERT INTO dbo.[Order] VALUES(1, 1, 2, '09/15/2011'),(2, 4, 2, '09/15/2011'),(3, 2, 1, '08/17/2011'),(4, 2, 3, '07/01/2011'),(5, 3, 3, '10/02/2011'); SAVE TRANSACTION customers; END TRYBEGIN CATCH IF @@TRANCOUNT > 0 BEGINROLLBACK TRANSACTION customers; END CATCH;

D. BEGIN TRY BEGIN TRANSACTION INSERT INTO dbo.Product VALUES(1, 'Chair', 146.58, 'Contoso'),(2, 'Table', 458.36, 'Contoso'),(3, 'Cabinet', 398.17, 'Northwind Traders'),(4, 'Desk', 1483.25, 'Northwind Traders'); INSERT INTO dbo.Customer VALUES(1, 'John Smith', '200 West 2nd St', 'Seattle', 'WA', '98060'),(2, 'Bob Jones', '300 Main St', 'Portland', 'OR', '97211'),(3, 'Fred Thomson', '100 Park Ave', 'San Francisco', 'CA', '94172'); INSERT INTO dbo.[Order] VALUES(1, 1, 2, '09/15/2011'),(2, 4, 2, '09/15/2011'),(3, 2, 1, '08/17/2011'),(4, 2, 3, '07/01/2011'),(5, 3, 3, '10/02/2011'); SAVE TRANSACTION; END TRYBEGIN CATCH IF @@TRANCOUNT > 0 BEGINROLLBACK TRANSACTION; END CATCH;

E. BEGIN TRY BEGIN TRANSACTION INSERT INTO dbo.Product VALUES(1, 'Chair', 146.58, 'Contoso'),(2, 'Table', 458.36, 'Contoso'),(3, 'Cabinet', 398.17, 'Northwind Traders'),(4, 'Desk', 1483.25, 'Northwind Traders'); INSERT INTO dbo.Customer VALUES(1, 'John Smith', '200 West 2nd St', 'Seattle', 'WA', '98060'),(2, 'Bob Jones', '300 Main St', 'Portland', 'OR', '97211'),(3, 'Fred Thomson', '100 Park Ave', 'San Francisco', 'CA', '94172'); INSERT INTO dbo.[Order] VALUES(1, 1, 2, '09/15/2011'),(2, 4, 2, '09/15/2011'),(3, 2, 1, '08/17/2011'),(4, 2, 3, '07/01/2011'),(5, 3, 3, '10/02/2011'); END TRYBEGIN CATCH IF @@TRANCOUNT > 0 BEGINROLLBACK TRANSACTION; END; END CATCH;

F. BEGIN TRANSACTION INSERT INTO dbo.Product VALUES(1, 'Chair', 146.58, 'Contoso'),(2, 'Table', 458.36, 'Contoso'),(3, 'Cabinet', 398.17, 'Northwind Traders'),(4, 'Desk', 1483.25, 'Northwind Traders'); IF @@ERROR > 0 ROLLBACK TRANSACTION; INSERT INTO dbo.Customer VALUES(1, 'John Smith', '200 West 2nd St', 'Seattle', 'WA', '98060'),(2, 'Bob Jones', '300 Main St', 'Portland', 'OR', '97211'),(3, 'Fred Thomson', '100 Park Ave', 'San Francisco', 'CA', '94172'); IF @@ERROR > 0 ROLLBACK TRANSACTION; INSERT INTO dbo.[Order] VALUES(1, 1, 2, '09/15/2011'),(2, 4, 2, '09/15/2011'),(3, 2, 1, '08/17/2011'),(4, 2, 3, '07/01/2011'),(5, 3, 3, '10/02/2011'); IF @@ERROR > 0 ROLLBACK TRANSACTION; COMMIT TRANSACTION;

G. SET XACT_ABORT ONBEGIN TRANSACTION INSERT INTO dbo.Product VALUES(1, 'Chair', 146.58, 'Contoso'),(2, 'Table', 458.36, 'Contoso'),(3, 'Cabinet', 398.17, 'Northwind Traders'),(4, 'Desk', 1483.25, 'Northwind Traders'); INSERT INTO dbo.Customer VALUES(1, 'John Smith', '200 West 2nd St', 'Seattle', 'WA', '98060'),(2, 'Bob Jones', '300 Main St', 'Portland', 'OR', '97211'),(3, 'Fred Thomson', '100 Park Ave', 'San Francisco', 'CA', '94172'); INSERT INTO dbo.[Order] VALUES(1, 1, 2, '09/15/2011'),(2, 4, 2, '09/15/2011'),(3, 2, 1, '08/17/2011'),(4, 2, 3, '07/01/2011'),(5, 3, 3, '10/02/2011'); COMMIT TRANSACTION;

H. BEGIN TRANSACTION INSERT INTO dbo.Product VALUES(1, 'Chair', 146.58, 'Contoso'),(2, 'Table', 458.36, 'Contoso'),(3, 'Cabinet', 398.17, 'Northwind Traders'),(4, 'Desk', 1483.25, 'Northwind Traders'); INSERT INTO dbo.Customer VALUES(1, 'John Smith', '200 West 2nd St', 'Seattle', 'WA', '98060'),(2, 'Bob Jones', '300 Main St', 'Portland', 'OR', '97211'),(3, 'Fred Thomson', '100 Park Ave', 'San Francisco', 'CA', '94172'); INSERT INTO dbo.[Order] VALUES(1, 1, 2, '09/15/2011'),(2, 4, 2, '09/15/2011'),(3, 2, 1, '08/17/2011'),(4, 2, 3, '07/01/2011'),(5, 3, 3, '10/02/2011'); IF @@ERROR >



OROLLBACK TRANSACTIONELSECOMMIT TRANSACTION;

Answer: BORG

Question: 20

You are a developer for a Microsoft SQL Server 2008 R2 database instance. You want to add functionality to an existing application that uses the Microsoft SQL Server Profiler tool to capture trace information. You need to ensure that the following requirements are met:

- ·Users are able to use the SQL Server Profiler tool.
- ·Users are able to capture trace information and read saved trace files.
- ·Users are granted the minimum permissions to achieve these goals. Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)
- A. Create a database role named traceusers.
- B. Add each user of the application to the sysadmin fixed-server role.
- C. Add each user of the application to the traceusers database role.
- D. Grant the ALTER TRACE permissions to the traceusers database role.
- E. Grant the CONTROL SERVER permissions to the traceusers database role.
- F. Create a server role named traceusers.

Answer: (C BEFORE D) AND (A BEFORE C) AND ONLY (A, C, D)

Question: 21

You are a database developer responsible for maintaining an application.

The application has a table named Programs that has the following definition: CREATE TABLE [dbo].[Customers]([ID] int NOT NULL IDENTITY(1,1),

[Name] varchar(100) NOT NULL,

[Address] varchar(255) NOT NULL,

[City] varchar(100) NOT NULL,

[State] char(2) NOT NULL,

[Postal] varchar(5) NOT NULL,

[Priority] char(1) NOT NULL,

[Active] bit NOT NULL)GOALTER TABLE [dbo]. [Customers] ADD CONSTRAINT PK_Customers PRIMARY KEY NONCLUSTERED (Name)GO You need to modify the Customers table to meet the following requirements:

- ·ID must be the Primary Key.
- ·The clustered index must be on the ID column.
- •The Active column must have a default value of 1, and must allow values of only 0 or 1.
- ·The Priority column must have values of "a", "b", or "c".
- ·The Postal column must contain a correctly formatted five-digit numeric Postal Code. Which Transact-SQL statement or statements should you use?
- A. ALTER TABLE [dbo].[Customers] ADD CONSTRAINT PK_Customers PRIMARY KEY CLUSTERED (ID) ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Priority CHECK ([Priority] IN ('a', 'b',



'c'))ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Postal CHECK ([Postal] LIKE '[0-9][0-9][0-9][0-9][0-9]')ALTER TABLE [dbo].[Customers] ADD CONSTRAINT DF_Active DEFAULT (1) FOR [Active]ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Active CHECK ([Active] IN (0,1))

B. ALTER TABLE [dbo].[Customers] DROP CONSTRAINT PK_CustomersALTER TABLE [dbo].[Customers] ADD CONSTRAINT PK_Customers PRIMARY KEY CLUSTERED (ID) ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Priority CHECK ([Priority] IN ('a', 'b', 'c'))ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Postal CHECK ([Postal] LIKE '[0-9][0-9][0-9][0-9]')ALTER TABLE [dbo].[Customers] ADD CONSTRAINT DF_Active DEFAULT (1) FOR [Active]ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Active CHECK ([Active] IN (0.1))

C. ALTER TABLE [dbo].[Customers] ADD CONSTRAINT PK_Customers PRIMARY KEY CLUSTERED (ID) ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Priority VALIDATE ([Priority] IN ('a', 'b', 'c'))ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Postal VALIDATE ([Postal] LIKE '[0-9][0-9][0-9][0-9]')ALTER TABLE [dbo].[Customers] ADD CONSTRAINT DF_Active DEFAULT (1) FOR [Active]ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Active VALIDATE ([Active] IN (0,1))

D. ALTER TABLE [dbo].[Customers] DROP CONSTRAINT PK_CustomersALTER TABLE [dbo].[Customers] ADD CONSTRAINT PK_Customers PRIMARY KEY NONCLUSTERED (ID) ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Priority CHECK ([Priority] IN ('a', 'b', 'c'))ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Postal CHECK ([Postal] LIKE '[0-9][0-9][0-9][0-9]')ALTER TABLE [dbo].[Customers] ADD CONSTRAINT DF_Active DEFAULT (1) FOR [Active]ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Active CHECK ([Active] IN (0,1))

E. ALTER TABLE [dbo].[Customers] DROP CONSTRAINT PK_CustomersALTER TABLE [dbo].[Customers] ADD CONSTRAINT PK_Customers PRIMARY KEY (ID) ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_DataChecks CHECK ([Priority] LIKE '[abc]' AND ISNUMERIC([Postal]) = 1 AND LEN([Postal]) = 5 AND [Active] IN (0,1))

F. ALTER CONSTRAINT PK_Customers SET CLUSTERED (ID)ALTER TABLE [dbo].[Customers] ADD CONSTRAINT PK_Customers PRIMARY KEY CLUSTERED (ID) ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Priority CHECK ([Priority] IN ('a', 'b', 'c'))ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Postal CHECK ([Postal] LIKE '[0-9][0-9][0-9][0-9][0-9]')ALTER TABLE [dbo].[Customers] ADD CONSTRAINT DF_Active DEFAULT (1) FOR [Active]ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_Active CHECK ([Active] IN (0,1))

G. ALTER TABLE [dbo].[Customers] DROP CONSTRAINT PK_CustomersALTER TABLE [dbo].[Customers] ADD CONSTRAINT PK_Customers PRIMARY KEY (ID) ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_DataChecks CHECK ([Priority] = '[abc]' AND LEN([Postal]) = 5 AND [Active] IN (0,1))

H. ALTER TABLE [dbo].[Customers] DROP CONSTRAINT PK_CustomersALTER TABLE [dbo].[Customers] ADD CONSTRAINT PK_Customers PRIMARY KEY (ID) ALTER TABLE [dbo].[Customers] ADD CONSTRAINT CK_DataChecks CHECK ([Priority] IN '[abc]' AND ISNUMERIC([Postal]) = 1 AND [Active] IN (0,1))

Answer: B OR E



Question: 22

You administer a Microsoft SQL Server 2008 database that contains a table named

Sales.SalesOrderHeader. The Sales.SalesOrderHeader table has the following definition: CREATE

TABLE [Sales].[SalesOrderHeader](

[SalesOrderID] [int] IDENTITY(1,1) NOT NULL,

[OrderDate] [datetime] NOT NULL,

[DueDate] [datetime] NOT NULL,

[ShipDate] [datetime] NULL,

[Status] [tinyint] NOT NULL,

[CustomerID] [int] NOT NULL,

[SalesPersonID] [int] NULL,

[SubTotal] [money] NOT NULL,

[TaxAmt] [money] NOT NULL,

CONSTRAINT [PK OrderHeader SalesOrderID]

PRIMARY KEY CLUSTERED

(

[SalesOrderID] ASC

-)) ON [PRIMARY]GO You want to generate an execution plan of XML output document for a query that displays all Sales.SalesOrderHeader records containing orders that have not been shipped. You need to ensure that the following requirements are met:
- ·An XML document is provided only for this query.
- ·An XML document that contains the estimated execution plan is returned. Which three Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)
- A. SET SHOWPLAN_XML ON;GO
- B. SET SHOWPLAN XML OFF;GO
- C. SELECT *FROM Sales.SalesOrderHeaderWHERE ShipDate = NULLGO
- D. SELECT *FROM Sales.SalesOrderHeaderWHERE ShipDate IS NULLGO
- E. GRANT SHOWPLAN XML ON;GO
- F. GRANT SHOWPLAN XML OFF;GO
- G. SET STATISTICS XML ON; GO
- H. SET STATISTICS XML OFF;GO

Answer: (A BEFORE D) AND (D BEFORE B) AND ONLY (A, D, B)

Question: 23

You have a table named Customers that has an XML column named CustomerData. There are currently no indexes on the table. You use the following WHERE clause in a query: WHERE CustomerData.exist ('/CustomerDemographic/@Age[.>="21"]') = 1 You need to create indexes for the query.

Which Transact-SQL statements should you use?

A. CREATE PRIMARY XML INDEX PXML_IDX_CustomerON Customers(CustomerData); CREATE XML





INDEX SXML_IDX_Customer ON Customer(CustomerData)USING XML INDEX PXML IDX CustomerFOR PATH;

B. CREATE PRIMARY XML INDEX PXML_IDX_CustomerON Customers(CustomerData); CREATE XML INDEX SXML_IDX_Customer ON Customer(CustomerData)USING XML INDEX PXML IDX CustomerFOR VALUE;

C. CREATE CLUSTERED INDEX CL_IDX_Customer ON Customers(CustomerID); CREATE PRIMARY XML INDEX PXML_IDX_CustomerON Customers(CustomerData); CREATE XML INDEX SXML_IDX_Customer_Property ON Customer(CustomerData)USING XML INDEX PXML_IDX_CustomerFOR VALUE;

D. CREATE CLUSTERED INDEX CL_IDX_Customer ON Customers(CustomerID); CREATE PRIMARY XML INDEX PXML_IDX_CustomerON Customers(CustomerData); CREATE XML INDEX SXML_IDX_Customer ON Customer(CustomerData)USING XML INDEX PXML_IDX_CustomerFOR PATH;

Answer: D

Question: 24

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You are a developer for a Microsoft SQL Server 2008 R2 database instance used to support a customer service application. You create tables named complaint, customer, and product as follows: CREATE TABLE

[dbo].[complaint] ([ComplaintID] [int],

[ProductID] [int],

[CustomerID] [int],

[ComplaintDate] [datetime]); CREATE TABLE [dbo].[customer] ([CustomerID] [int],

[CustomerName] [varchar](100),

[Address] [varchar](200),

[City] [varchar](100),

[State] [varchar](50),

[ZipCode] [varchar](5)); CREATE TABLE [dbo].[product] ([ProductID] [int],

[ProductName] [varchar](100),

[SalePrice] [money],

[ManufacturerName] [varchar](100)); You need to write a query to identify all customers who have complained about products that have an average sales price of 500 or more from September 01, 2011. Which SQL query should you use?

A. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID

= c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName, p.ProductName), ());

B. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID

= c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName), (p.ProductName), ());

C. SELECTc.CustomerName,COUNT(com.ComplaintID) AS ComplaintsFROMcustomer c INNER JOINcomplaint com ON c.CustomerID = com.CustomerIDWHERECOUNT(com.ComplaintID) > 10GROUP BYc.CustomerName;



D. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID =

c.CustomerIDWHEREcom.ComplaintDate > '09/01/2011' ANDAVG(p.SalePrice) >= 500

E. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY

p.ProductName, ComplaintMonth;

 $\label{lem:complaint} F. \ SELECTc. Customer Name, COUNT (com. Complaint ID) \ AS \ complaints FROM customer \ c \ INNER \ JOIN complaint \ com \ ON \ c. Customer ID = \ com. Customer IDGROUP$

BYc.CustomerNameHAVINGCOUNT(com.ComplaintID) > 10;

G. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY CUBE(p.ProductName, DATEPART(mm, com.ComplaintDate));

H. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY CUBE;

 $I. \ SELECTc. CustomerName, AVG (p. SalePrice) \ AS \ SalesFROM product \ p \ INNER \ JOIN complaint \ com \\ ON \ p. ProductID = com. ProductID \ INNER \ JOIN customer \ c \ ON \ com. CustomerID = \\ c. CustomerIDWHERE com. Complaint Date > '09/01/2011'GROUP$

BYc.CustomerNameHAVINGAVG(p.SalePrice) >= 500

J. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY p.ProductName, DATEPART(mm, com.ComplaintDate);

Answer: I

Question: 25

You have two tables named dbo.Products and dbo.PriceChange. Table dbo.Products contains ten products. Five products are priced at \$20 per unit and have PriceIncrease set to 1. The other five products are priced at \$10 per unit and have PriceIncrease set to 0. You have the following query: INSERT dbo.PriceChange (ProductID, Change, ChangeDate)SELECT ProductID, inPrice - delPrice, SYSDATETIME()FROM (

UPDATE dbo.Products

SET Price *= 1.1

OUTPUT inserted.ProductID, inserted.Price, deleted.Price

WHERE PriceIncrease = 1) p (ProductID, inPrice, delPrice); You need to predict the results of the query. Which results should the query produce?

- A. Five rows are updated in dbo.Products.No rows are inserted into dbo.PriceChange.
- B. No rows are updated in dbo.Products.Five rows are inserted into dbo.PriceChange.
- C. No rows are updated in dbo.Products.No rows are inserted into dbo.PriceChange.
- D. Five rows are updated in dbo.Products.Five rows are inserted into dbo.PriceChange.

Answer: D

Question: 26

You are tasked to create a table that has a column that must store the current time accurate to





ten microseconds. You need to use a system function in conjunction with the DEFAULT option in the column definition. Which system function should you use?

- A. DATEADD
- B. SYSDATETIME
- C. CURRENT TIMESTAMP
- D. GETUTCDATE

Answer: B

Question: 27

You are a developer of a Microsoft SQL Server 2008 R2 database instance that supports a web-based order-entry application. You need to create a server-side trace that meets the following requirements:

- ·Captures performance information from 05:00 hours to 05:30 hours daily.
- ·Stores trace information in a format that can be used even while users are disconnected from the network. Which four actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)
- A. Create a server-side trace by using the SQL Server Profiler tool. Configure the trace to start at 05:00 hours and to stop at 05:30 hours.
- B. Save the trace information to a SQL table.
- C. Save the trace information to a trace file.
- D. Export the trace file to a SQL script.
- E. Create a server-side trace by using the SQL Server Profiler tool. Configure the trace to stop at 05:30 hours.
- F. Create a SQL Server Agent job by using the exported SQL script. Schedule the job to start at 05:00 hours daily.

Answer: (E BEFORE C) AND (C BEFORE D) AND (D BEFORE F) AND ONLY (E, C, D, F)

Question: 28

You administer a Microsoft SQL Server 2008 database that contains a table named Sales.SalesOrderHeader. The Sales.SalesOrderHeader table has the following definition: CREATE TABLE [Sales].[SalesOrderHeader](

[SalesOrderID] [int] IDENTITY(1,1) NOT NULL,

[OrderDate] [datetime] NOT NULL,

[DueDate] [datetime] NOT NULL,

[ShipDate] [datetime] NULL,

[Status] [tinyint] NOT NULL,

[CustomerID] [int] NOT NULL,

[SalesPersonID] [int] NULL,

[SubTotal] [money] NOT NULL,



[TaxAmt] [money] NOT NULL,

CONSTRAINT [PK_OrderHeader_SalesOrderID]

PRIMARY KEY CLUSTERED

(
[SalesOrderID] ASC

-)) ON [PRIMARY]GO You plan to perform the following tasks:
- ·Display all Sales.SalesOrderHeader records that contain orders that have not been shipped.
- •Generate an execution plan of XML output document for the query. You need to ensure that the following requirements are met:
- ·Data is returned for all fields in the Sales.SalesOrderHeader table where the shipping date is unknown.
- ·An XML document is provided only for this query.
- ·An XML document that contains the actual execution plan is returned. Which three Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)
- A. SET SHOWPLAN XML ON;GO
- B. SET SHOWPLAN_XML OFF;GO
- C. SELECT *FROM Sales.SalesOrderHeaderWHERE ShipDate = NULLGO
- D. SELECT *FROM Sales.SalesOrderHeaderWHERE ShipDate IS NULLGO
- E. GRANT SHOWPLAN XML ON;GO
- F. GRANT SHOWPLAN XML OFF;GO
- G. SET STATISTICS XML ON;GO
- H. SET STATISTICS XML OFF;GO

Answer: (G BEFORE D) AND (D BEFORE H) AND ONLY (G, D, H)

Question: 29

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You are a developer for a Microsoft SQL Server 2008 R2 database instance used to support a customer service application.

You create tables named complaint, customer, and product as follows: CREATE TABLE [dbo].[complaint] ([ComplaintID] [int],

[ProductID] [int],

[CustomerID] [int],

[ComplaintDate] [datetime]); CREATE TABLE [dbo].[customer] ([CustomerID] [int],

[CustomerName] [varchar](100),

[Address] [varchar](200),

[City] [varchar](100),

[State] [varchar](50),

[ZipCode] [varchar](5)); CREATE TABLE [dbo].[product] ([ProductID] [int],

[ProductName] [varchar](100),

[SalePrice] [money],





[ManufacturerName] [varchar](100)); You need to write a query to sum the sales made to each customer who has made a complaint by the following entries:

- ·The customer name and product name
- •The grand total of all sales Which SQL query should you use?
- A. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID = c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName), (p.ProductName), ());
- B. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY CUBE(p.ProductName, DATEPART(mm, com.ComplaintDate));
- C. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY p.ProductName, ComplaintMonth;
- D. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY CUBE;
- E. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID =
- c.CustomerIDWHEREcom.ComplaintDate > '09/01/2011' ANDAVG(p.SalePrice) >= 500
- F. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER
 JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID
 = c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName, p.ProductName), ());
- G. SELECTc.CustomerName,COUNT(com.ComplaintID) AS ComplaintsFROMcustomer c INNER JOINcomplaint com ON c.CustomerID = com.CustomerIDWHERECOUNT(com.ComplaintID) > 10GROUP BYc.CustomerName;
- H. SELECTc.CustomerName,COUNT(com.ComplaintID) AS complaintsFROMcustomer c INNER JOINcomplaint com ON c.CustomerID = com.CustomerIDGROUP BYc.CustomerNameHAVINGCOUNT(com.ComplaintID) > 10;
- I. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com
 ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID =
 c.CustomerIDWHEREcom.ComplaintDate > '09/01/2011'GROUP
 BYc.CustomerNameHAVINGAVG(p.SalePrice) >= 500
- J. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY p.ProductName, DATEPART(mm, com.ComplaintDate);

Answer: F

Question: 30

You administer a Microsoft SQL Server 2008 R2 database instance named AdventureWorks. A user who has the db_datareader permissions on the AdventureWorks database wants to view detailed information about how the following query will be executed:

SELECT * FROM Sales.SalesOrderHeaderWHERE OnlineOrderFlag = 1 AND SubTotal > 500 You need to ensure that the user can view the following information in a data grid without executing



the query:

- ·Estimated number of rows of output
- ·Estimated I/O cost
- ·Estimated CPU cost Which two actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)
- A. Grant the following permission to the user: GRANT SHOWPLAN
- B. Grant the following permission to the user: GRANT EXECUTE ON XML SCHEMA COLLECTION
- C. Grant the following permission to the user: GRANT SELECT ON

OBJECT::Sales.SalesOrderHeader

- D. Request the user to run the following command: SET SHOWPLAN XML ON
- E. Request the user to run the following command: SET SHOWPLAN_ALL ON
- F. Request the user to run the following command: SET STATISTICS IO ON
- G. Request the user to run the following command: SET STATISTICS XML ON

Answer: (A BEFORE E) AND ONLY (A, E)

Question: 31

You have two tables named SalesPerson and SalesTerritory. You need to create sample data by using a Cartesian product that contains the data from the SalesPerson and SalesTerritory tables. Which code segment should you use?

A. SELECT p.SalesPersonId,t.Name AS [Territory]FROM Sales.SalesPerson pCROSS JOIN Sales.SalesTerritory tWHERE p.TerritoryId = t.TerritoryId

B. SELECT p.SalesPersonId,t.Name AS [Territory]FROM Sales.SalesPerson pCROSS JOIN Sales.SalesTerritory t

C. SELECT p.SalesPersonId,t.Name AS [Territory]FROM Sales.SalesPerson pINNER JOIN Sales.SalesTerritory tON p.TerritoryId = t.TerritoryId

D. SELECT p.SalesPersonId,t.Name AS [Territory]FROM Sales.SalesPerson pFULL JOIN Sales.SalesTerritory tON p.TerritoryId = t.TerritoryId

Answer: B

Question: 32

You are given a database design to evaluate. All of the tables in this database should have a clustered index. You need to determine the tables that are missing a clustered index by using the system catalog views. Which Transact-SQL statement should you use?

A. SELECT name AS table_nameFROM sys.tablesWHERE

OBJECTPROPERTY(object_id, 'TableHasClustIndex') = OORDER BY name;

B. SELECT name AS table_nameFROM sys.tablesWHERE

OBJECTPROPERTY(object_id, 'TableHasClustIndex') = 0 AND

OBJECTPROPERTY(object id, 'TableHasUniqueCnst') = 10RDER BY name;

C. SELECT name AS table nameFROM sys.tablesWHERE

OBJECTPROPERTY(object_id, 'TableHasUniqueCnst') = OORDER BY name;

D. SELECT name AS table_nameFROM sys.tablesWHERE



OBJECTPROPERTY(object_id, 'TableHasClustIndex') = 1 AND
OBJECTPROPERTY(object_id, 'TableHasUniqueCnst') = 1 ORDER BY name;

Answer: A

Question: 33

You work for an international charity organization.

You are writing a query to list the highest 100 different amounts that were donated. You have written the following code segment: 01 SELECT *02 FROM (SELECT Customer.CustomerID, SUM(TotalDue) AS TotalGiven, 03 04

FROM Customer05

JOIN SalesOrder 06

ON Customer.CustomerID = SalesOrder.CustomerID07

GROUP BY Customer.CustomerID) AS DonationsToFilter08 WHERE FilterCriteria <= 100 You need to insert a Transact-SQL clause in line 03 to complete the query. Which Transact-SQL clause should you insert?

A. NTILE(100) OVER (ORDER BY SUM(TotalDue) DESC) AS FilterCriteria

B. DENSE RANK() OVER (ORDER BY SUM(TotalDue) DESC) AS FilterCriteria

C. ROW NUMBER() OVER (ORDER BY SUM(TotalDue) DESC) AS FilterCriteria

D. RANK() OVER (ORDER BY SUM(TotalDue) DESC) AS FilterCriteria

Answer: B

Question: 34

You are a database developer for your organization. You have an application hosted on Microsoft SQL Server 2008 R2.

One of the tables in the application database has the following definition: CREATE TABLE XMLData(XMLPage xml NOT NULL) No indexes, keys, or constraints are defined along with the table. The table currently contains more than one million entries. An example of the XML data is shown below: Company

<Employee Name = "Mark" = "Department Finance"/>

<Employee Name = "Peter" = "Department Sales"/>

<Employee Name = "Susan" = "Department Facilities"/>Company

A stored procedure is executed in the application.

The stored procedure has the following definition:

CREATE PROCEDURE p GetFinanceUser(@Name varchar(20))AS SELECT Name =

Company.Employee.value('@Name','varchar(20)')

,Department = Company.Employee.value('@Department','varchar(20)')FROM XMLData cCROSS APPLY XMLPage.nodes('/Company/Employee') Department(Employee)WHERE

Company.Employee.exist('@Department[.="Finance"]') = 1 Users report that the response time of the stored procedure has decreased. You need to ensure that the response time of the stored procedure is improved. Which three Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)

A. CREATE INDEX idx_XMLPage ON XMLData (XMLPage)



- B. CREATE PRIMARY XML INDEX idx_XMLPage ON XMLData (XMLPage)
- $\hbox{C. CREATE XML INDEX } idx_XMLPage_PATH\ ON\ XMLData(XMLPage) USING\ XML\ INDEX$
- idx_XMLPageFOR PATH
- D. CREATE XML INDEX idx_XMLPage_VALUE ON XMLData(XMLPage)USING XML INDEX
- idx XMLPageFOR VALUE
- E. CREATE XML INDEX idx_XMLPage_PROPERTY ON XMLData(XMLPage)USING XML INDEX idx_XMLPageFOR PROPERTY
- F. ALTER TABLE XMLDataADD XMLKey int IDENTITY (1,1) UNIQUE NOT NULL
- G. ALTER TABLE XMLDataADD XMLKey int IDENTITY (1,1) PRIMARY KEY CLUSTERED NOT NULL

Answer: (G BEFORE B) AND (B BEFORE C) AND ONLY (G, B, C)

Question: 35

You have a table named Books that has columns named BookTitle and Description. There is a full-text index on these columns. You need to return rows from the table in which the word 'computer' exists in either column. Which code segment should you use?

- A. SELECT *FROM BooksWHERE BookTitle LIKE '%computer%'
- B. SELECT *FROM BooksWHERE BookTitle = '%computer%'OR Description = '%computer%'
- C. SELECT *FROM BooksWHERE FREETEXT(BookTitle,'computer')
- D. SELECT *FROM BooksWHERE FREETEXT(*,'computer')

Answer: D

Question: 36

You administer a Microsoft SQL Server 2008 database that includes a table named ProductDetails.

The Products table has the following schema: CREATE TABLE dbo.ProductDetails(

ProductID nchar(4) NOT NULL,

ProductName nvarchar(50) NULL,

ProductDescription nvarchar(50) NULL,

UnitCost money NULL,

UnitPrice money NULL,

ReOrderLevel int NOT NULL,

 ${\tt CONSTRAINT\ PK_ProductDetails\ PRIMARY\ KEY\ CLUSTERED}$

ProductID ASC

(

)) GO You create a User-Defined Function (UDF) in the same database.

The UDF has the following schema: CREATE FUNCTION dbo.CalculateProductProfit(@ProductID nchar(4))RETURNS MoneyWITH SCHEMABINDINGASBEGIN

DECLARE @Profit Money;

SELECT @Profit = UnitPrice - UnitCost FROM dbo.ProductDetails WHERE ProductID = @ProductID;

RETURN @Profit;END You need to meet the following requirements:

·Ensure that the UnitPrice column in the ProductDetails table does not accept NULL values.



- ·Use the CalculateProductProfit() UDF to calculate profit for each product.
- ·Avoid accidental drop or change of the Product table. Which three Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)
- A. DROP TABLE ProductDetails
- B. DROP FUNCTION CalculateProductProfit
- C. ALTER TABLE ProductDetails ALTER COLUMN UnitPrice Money NULL
- D. ALTER TABLE ProductDetails ALTER COLUMN UnitPrice Money NOT NULL
- E. CREATE FUNCTION dbo.CalculateProductProfit(@ProductID nchar(4))RETURNS MoneyWITH SCHEMABINDINGASBEGINDECLARE @Profit Money;SELECT @Profit = UnitPrice UnitCost FROM dbo.ProductDetails WHERE ProductID = @ProductID;RETURN @Profit;END
- F. CREATE FUNCTION dbo.CalculateProductProfit(@ProductID nchar(4))RETURNS

 MoneyASBEGINDECLARE @Profit Money;SELECT @Profit = UnitPrice UnitCost FROM

 dbo.ProductDetails WHERE ProductID = @ProductID;RETURN @Profit;END
- G. CREATE FUNCTION CalculateProductProfit(@ProductID nchar(4))RETURNS MoneyWITH SCHEMABINDINGASBEGINDECLARE @Profit Money;SELECT @Profit = UnitPrice UnitCost FROM dbo.ProductDetails WHERE ProductID = @ProductID;RETURN @Profit;END

Answer: (B BEFORE D) AND (D BEFORE E) AND ONLY (B, D, E)

Question: 37

A table named Locations contains 5000 locations and the number of sales made at each location. You need to display the top 5 percent of locations by sales made. Which Transact-SQL code segment should you use?

A. WITH Percentages AS (SELECT *, NTILE(20) OVER (ORDER BY SalesMade) AS groupingColumnFROM Locations)SELECT *FROM PercentagesWHERE groupingColumn = 20; B. WITH Percentages AS (SELECT *, NTILE(5) OVER (ORDER BY SalesMade) AS groupingColumnFROM Locations)SELECT *FROM percentagesWHERE groupingColumn =1; C. WITH Percentages AS (SELECT *, NTILE(20) OVER (ORDER BY SalesMade) AS groupingColumnFROM Locations)SELECT *FROM PercentagesWHERE groupingColumn = 1; D. WITH Percentages AS (SELECT *, NTILE(5) OVER (ORDER BY SalesMade) AS groupingColumnFROM Locations)SELECT *FROM PercentagesWHERE groupingColumn = 5;

Answer: A

Question: 38

Your company manufactures and distributes bowling balls. You have a full-text catalog named ftCatalog which contains the ftInventory index on the Products table. Your marketing department has just inserted a new bowling ball into the Inventory table. You notice only the new bowling ball is not being included in the results of the full-text searches. You have confirmed that the row exists in the Products table.

You need to update the full-text catalog in the least amount of time. Which Transact-SQL statement should you use?



- A. ALTER FULLTEXT INDEX ON ftInventoryRESUME POPULATION
- B. ALTER FULLTEXT CATALOG ftCatalog REBUILD
- C. ALTER FULLTEXT INDEX ON ftInventorySTART UPDATE POPULATION
- D. ALTER FULLTEXT INDEX ON ftInventorySTART FULL POPULATION

Answer: C

Question: 39

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You are a developer for a Microsoft SQL Server 2008 R2 database instance used to support a customer service application.

You create tables named complaint, customer, and product as follows: CREATE TABLE

[dbo].[complaint] ([ComplaintID] [int],

[ProductID] [int],

[CustomerID] [int],

[ComplaintDate] [datetime]); CREATE TABLE [dbo].[customer] ([CustomerID] [int],

[CustomerName] [varchar](100),

[Address] [varchar](200),

[City] [varchar](100),

[State] [varchar](50),

[ZipCode] [varchar](5)); CREATE TABLE [dbo].[product] ([ProductID] [int],

[ProductName] [varchar](100),

[SalePrice] [money],

[ManufacturerName] [varchar](100)); You need to write a query to sum the monthly sales of each product. Which SQL query should you use?

A. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY p.ProductName, ComplaintMonth;

B. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER
JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID = c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName), (p.ProductName), ());

C. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY p.ProductName, DATEPART(mm, com.ComplaintDate);

D. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID = c.CustomerIDWHEREcom.ComplaintDate > '09/01/2011'GROUP

BYc.CustomerNameHAVINGAVG(p.SalePrice) >= 500

E. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY CUBE(p.ProductName, DATEPART(mm, com.ComplaintDate));

F. SELECTc.CustomerName,COUNT(com.ComplaintID) AS complaintsFROMcustomer c INNER JOINcomplaint com ON c.CustomerID = com.CustomerIDGROUP BYc.CustomerNameHAVINGCOUNT(com.ComplaintID) > 10;



G. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com

ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID =

c.CustomerIDWHEREcom.ComplaintDate > '09/01/2011' ANDAVG(p.SalePrice) >= 500

H. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER

JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID

= c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName, p.ProductName), ());

I. SELECTc.CustomerName,COUNT(com.ComplaintID) AS ComplaintsFROMcustomer c INNER JOINcomplaint com ON c.CustomerID = com.CustomerIDWHERECOUNT(com.ComplaintID) >

10GROUP BYc.CustomerName;

J. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY CUBE;

Answer: A

Question: 40

You have the following two tables. ProductsProductID ProductName VendorID1

Product1 02

Product2 13

Product3 14

Product4 0 ProductChangesProductID ProductName VendorID1

Product1 12

Product2 13

NewProduct3

25

Product5 1 You execute the following statement. MERGE Products

USING ProductChanges

ON (Products.ProductID = ProductChanges.ProductID)WHEN MATCHED AND Products.VendorID =

THEN DELETEWHEN MATCHED

THEN UPDATE SET Products.ProductName = ProductChanges.ProductName,

Products.VendorID = ProductChanges.VendorID; You need to identify the rows that will be displayed in the Products table.

Which rows will be displayed?

A. ProductID ProductName VendorID1 Product1 12 Product2 13 NewProduct3 24 Product4 05 Product5 1

- B. ProductID ProductName VendorID1 Product1 12 Product2 13 NewProduct3 25 Product5 1
- C. ProductID ProductName VendorID2 Product2 13 NewProduct3 24 Product4 0
- D. ProductID ProductName VendorID2 Product2 13 NewProduct3 2

Answer: C

Question: 41

You have a database that contains two tables named ProductCategory and ProductSubCategory. You need to write a query that returns a list of product categories that contain more than ten



sub-categories. Which query should you use?

A. SELECT [Name]FROM ProductSubCategoryWHERE ProductCategoryID IN (SELECT ProductCategoryIDFROM ProductCategory)GROUP BY [Name]HAVING COUNT(*) > 10 B. SELECT [Name]FROM Product Category cWHERE NOT EXISTS (SELECT ProductCategoryIDFROM ProductSubCategoryWHERE ProductCategoryID = c.ProductCategoryIDGROUP BY ProductCategoryIDHAVING COUNT(*) > 10)

C. SELECT [Name]FROM ProductSubCategoryWHERE ProductCategoryID NOT IN (SELECT ProductCategoryIDFROM ProductCategory)GROUP BY [Name]HAVING COUNT(*) > 10 D. SELECT [Name]FROM Product Category cWHERE EXISTS (SELECT ProductCategoryIDFROM ProductSubCategoryWHERE ProductCategoryID = c.ProductCategoryIDGROUP BY ProductCategoryIDHAVING COUNT(*) > 10)

Answer: D

Question: 42

You are a developer of a Microsoft SQL Server 2008 R2 database instance that supports a web-based order-entry application. You need to create a server-side trace that meets the following requirements:

- ·Captures performance information from 07:00 hours to 07:30 hours daily.
- ·Stores trace information in a portable format. Which four actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)
- A. Create a server-side trace by using the SQL Server Profiler tool. Configure the trace to start at 07:00 hours and to stop at 07:30 hours.
- B. Save the trace information to a SQL table.
- C. Save the trace information to a trace file.
- D. Export the trace file to a SQL script.
- E. Create a server-side trace by using the SQL Server Profiler tool. Configure the trace to stop at 07:30 hours
- F. Create a SQL Server Agent job by using the exported SQL script. Schedule the job to start at 07:00 hours daily.

Answer: (E BEFORE C) AND (C BEFORE D) AND (D BEFORE F) AND ONLY (E, C, D, F)

Question: 43

You have two views named Sales.SalesSummaryOverall and Sales.CustomerAndSalesSummary.

They are defined as follows: CREATE VIEW Sales.SalesSummaryOverallAS

SELECT CustomerId, SUM(SalesTotal) AS OverallTotal

FROM Sales.SalesOrder

GROUP BY CustomerIdGOCREATE VIEW Sales. CustomerAndSalesSummaryAS

SELECT Customer.Name,

SalesSummaryOverall.OverallTotal,



(SELECT AVG(OverallTotal)

FROM Sales.SalesSummaryOverall

WHERE SalesSummaryOverall.CustomerId =

Customer.CustomerId) AS avgOverallTotal,

(SELECT MAX(OverallTotal)

FROM Sales.SalesSummaryOverall

WHERE SalesSummaryOverall.CustomerId =

Customer.CustomerId) AS maxOverallTotal,

FROM Sales.Customer

LEFT OUTER JOIN Sales. Sales. SalesSummaryOverall

ON SalesSummaryByYear.CustomerId = Customer.CustomerIdGO You have been tasked to modify the Sales.CustomerAndSalesSummary view to remove references to other views. You need to identify a feature to use in the modified version of the Sales.CustomerAndSalesSummary object to achieve the task. Which feature should you use?

- A. Table variables
- B. Common table expressions
- C. Temporary tables
- D. User-defined table types

Answer: B

Question: 44

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You administer a Microsoft SQL Server 2008 database for an inventory management system.

The application contains a product table that has the following definition: CREATE TABLE [Production].[Product](

[ProductID] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](50) NOT NULL,

[ProductNumber] [nvarchar](25) NOT NULL,

[Color] [nvarchar](15) NULL,

[Class] [nchar](2) NULL,

[Style] [nchar](2) NULL,

[Active] [bit] NOT NULL,

[ModifiedDate] [datetime] NOT NULL,

CONSTRAINT [PK_Product_ProductID] PRIMARY KEY CLUSTERED

(

[ProductID] ASC

) ON [PRIMARY]) ON [PRIMARY]GO You want to add a new field to the Product table to meet the following requirements:

- ·Allows user-specified information that will be added to records in the Product table.
- ·Supports the largest storage size needed for the field.
- ·Uses the smallest data type necessary to support the domain of values that will be entered by users. You need to add a field named User_Data_1 to support U.S. dollar currency values that





have two decimals and as large as 500,000 U.S. dollars. Which SQL statement should you use?

- A. ALTER TABLE [Production]. [Product] ADD [User Data 1] VARCHAR(100)
- B. ALTER TABLE [Production].[Product] ADD [User_Data_1] CHAR(100)
- C. ALTER TABLE [Production].[Product] ADD [User Data 1] NUMERIC(6,11)
- D. ALTER TABLE [Production].[Product] ADD [User Data 1] DATETIME
- E. ALTER TABLE [Production].[Product] ADD [User_Data_1] BIGINT
- F. ALTER TABLE [Production].[Product] ADD [User Data 1] NUMERIC(11,6)
- G. ALTER TABLE [Production].[Product] ADD [User_Data_1] SMALLMONEY
- H. ALTER TABLE [Production].[Product] ADD [User Data 1] BIT
- I. ALTER TABLE [Production].[Product] ADD [User Data 1] NCHAR(100)
- J. ALTER TABLE [Production].[Product] ADD [User_Data_1] DATETIME2
- K. ALTER TABLE [Production].[Product] ADD [User_Data_1] NUMERIC(5,6)
- L. ALTER TABLE [Production].[Product] ADD [User_Data_1] SMALLDATETIME
- M. ALTER TABLE [Production].[Product] ADD [User_Data_1] NVARCHAR(100)
- N. ALTER TABLE [Production].[Product] ADD [User_Data_1] SMALLINT
- O. ALTER TABLE [Production].[Product] ADD [User_Data_1] DATE
- P. ALTER TABLE [Production].[Product] ADD [User_Data_1] TINYINT
- Q. ALTER TABLE [Production].[Product] ADD [User_Data_1] MONEY
- R. ALTER TABLE [Production].[Product] ADD [User_Data_1] INT

Answer: Q

Question: 45

You administer a Microsoft SQL Server 2008 database that contains a table named Sales.SalesOrderDetail and a view named Sales.ProductOrders.

The view has the following definition: CREATE VIEW Sales.ProductOrders AS SELECT ProductID,

COUNT(*) as NbrOfOrders,

SUM(OrderQty) as TotalOrderQtyFROM

Sales.SalesOrderDetailGROUP BY

ProductIdGO The Sales.SalesOrderDetail table contains 5 million rows. Report queries that join to this view consume excessive disk I/O. You need to create an index on the view. Which Transact-SQL statement or statements should you use?

A. ALTER VIEW Sales.ProductOrders WITH SCHEMABINDING ASSELECTProductID,COUNT(*) as NbrOfOrders,SUM(OrderQty) as TotalOrderQtyFROMSales.SalesOrderDetailGROUP BYProductIdGOCREATE UNIQUE CLUSTERED INDEX IX_V_ProductOrders ON Sales.ProductOrders (ProductID)GO

B. ALTER VIEW Sales.ProductOrders WITH SCHEMABINDING ASSELECTProductID,COUNT_BIG(*) as NbrOfOrders,SUM(OrderQty) as TotalOrderQtyFROMSales.SalesOrderDetail WITH (NOLOCK)GROUP BYProductIdGOCREATE UNIQUE CLUSTERED INDEX IX_V_ProductOrders ON Sales.ProductOrders (ProductID)GO

C. ALTER VIEW Sales.ProductOrders WITH SCHEMABINDING ASSELECTProductID,COUNT_BIG(*) as NbrOfOrders,SUM(OrderQty) as TotalOrderQtyFROMSales.SalesOrderDetailGROUP BYProductIdGOCREATE UNIQUE CLUSTERED INDEX IX_V_ProductOrders ON Sales.ProductOrders



(ProductID)GO

D. ALTER VIEW Sales.ProductOrders ASSELECTProductID,COUNT_BIG(*) as NbrOfOrders,SUM(OrderQty) as TotalOrderQtyFROMSales.SalesOrderDetailGROUP BYProductIdGOCREATE UNIQUE CLUSTERED INDEX IX_V_ProductOrders ON Sales.ProductOrders (ProductID)GO

E. IF EXISTS (SELECT * FROM sys.views WHERE object_id =

OBJECT_ID(N'[Sales].[ProductOrders]'))DROP VIEW [Sales].[ProductOrders]GOCREATE VIEW Sales.ProductOrders WITH SCHEMABINDING ASSELECTProductID,COUNT_BIG(*) as NbrOfOrders,SUM(OrderQty) as TotalOrderQtyFROMSales.SalesOrderDetailGROUP BYProductIdGOCREATE UNIQUE CLUSTERED INDEX IX_V_ProductOrders ON Sales.ProductOrders (ProductID)GO

F. IF EXISTS (SELECT * FROM sys.views WHERE object_id =

OBJECT_ID(N'[Sales].[ProductOrders]'))DROP VIEW [Sales].[ProductOrders]GOCREATE VIEW Sales.ProductOrders ASSELECTProductID,COUNT_BIG(*) as NbrOfOrders,SUM(OrderQty) as TotalOrderQtyFROMSales.SalesOrderDetailGROUP BYProductIdGOCREATE UNIQUE CLUSTERED INDEX IX V ProductOrders ON Sales.ProductOrders (ProductID)GO

G. IF EXISTS (SELECT * FROM sys.views WHERE object_id =

OBJECT_ID(N'[Sales].[ProductOrders]'))DROP VIEW [Sales].[ProductOrders]GOCREATE VIEW Sales.ProductOrders WITH SCHEMABINDING ASSELECTProductID,COUNT_BIG(*) as NbrOfOrders,SUM(OrderQty) as TotalOrderQtyFROMSales.SalesOrderDetail WITH (NOLOCK)GROUP BYProductIdGOCREATE UNIQUE CLUSTERED INDEX IX_V_ProductOrders ON Sales.ProductOrders (ProductID)GO

H. IF EXISTS (SELECT * FROM sys.views WHERE object_id =

OBJECT_ID(N'[Sales].[ProductOrders]'))DROP VIEW [Sales].[ProductOrders]GOCREATE VIEW Sales.ProductOrders WITH SCHEMABINDING ASSELECTProductID,COUNT(*) as NbrOfOrders,SUM(OrderQty) as TotalOrderQtyFROMSales.SalesOrderDetailGROUP BYProductIdGOCREATE UNIQUE CLUSTERED INDEX IX_V_ProductOrders ON Sales.ProductOrders (ProductID)GO

Answer: C OR E

Question: 46

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You administer a Microsoft SQL Server 2008 database for an inventory management system.

The application contains a product table that has the following definition: CREATE TABLE

[Production].[Product](

[ProductID] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](50) NOT NULL,

[ProductNumber] [nvarchar](25) NOT NULL,

[Color] [nvarchar](15) NULL,

[Class] [nchar](2) NULL,

[Style] [nchar](2) NULL,

[Active] [bit] NOT NULL,





[ModifiedDate] [datetime] NOT NULL,

CONSTRAINT [PK Product ProductID] PRIMARY KEY CLUSTERED

(

[ProductID] ASC

) ON [PRIMARY]) ON [PRIMARY]GO

You want to add a new field to the Product table to meet the following requirements:

- ·Allows user-specified information that will be added to records in the Product table.
- ·Supports the largest storage size needed for the field.
- ·Uses the smallest data type necessary to support the domain of values that will be entered by users. You need to add a field named User_Data_1 to support date values that are no more precise than to the hour.

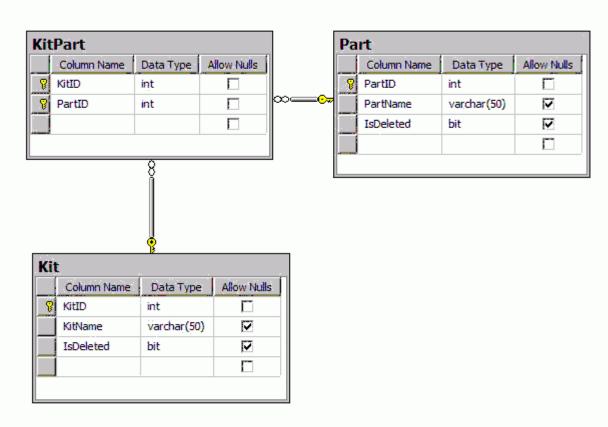
Which SQL statement should you use?

- A. ALTER TABLE [Production].[Product] ADD [User_Data_1] NVARCHAR(100)
- B. ALTER TABLE [Production].[Product] ADD [User_Data_1] VARCHAR(100)
- C. ALTER TABLE [Production].[Product] ADD [User_Data_1] BIGINT
- D. ALTER TABLE [Production].[Product] ADD [User_Data_1] BIT
- E. ALTER TABLE [Production].[Product] ADD [User_Data_1] SMALLINT
- F. ALTER TABLE [Production].[Product] ADD [User_Data_1] MONEY
- G. ALTER TABLE [Production].[Product] ADD [User_Data_1] TINYINT
- H. ALTER TABLE [Production].[Product] ADD [User_Data_1] NCHAR(100)
- I. ALTER TABLE [Production].[Product] ADD [User_Data_1] NUMERIC(11,6)
- J. ALTER TABLE [Production].[Product] ADD [User_Data_1] DATETIME2
- K. ALTER TABLE [Production].[Product] ADD [User_Data_1] DATETIME
- L. ALTER TABLE [Production].[Product] ADD [User_Data_1] SMALLMONEY
- M. ALTER TABLE [Production].[Product] ADD [User_Data_1] NUMERIC(5,6)
- N. ALTER TABLE [Production].[Product] ADD [User_Data_1] NUMERIC(6,11)
- O. ALTER TABLE [Production].[Product] ADD [User_Data_1] SMALLDATETIME
- P. ALTER TABLE [Production].[Product] ADD [User_Data_1] INT
- Q. ALTER TABLE [Production].[Product] ADD [User_Data_1] CHAR(100)
- R. ALTER TABLE [Production].[Product] ADD [User Data 1] DATE

Answer: O

Question: 47





You are developing a database using Microsoft SQL Server 2008. The database contains the tables shown in the following exhibit. (Click the Exhibit button.) You are required to prevent parts from being deleted if they belong to a kit. If a part belongs to a kit, the delete should not occur and the IsDeleted column for the row should be changed to 'True'. Parts should be deleted if they do not belong to a kit. You have the following Transact-SQL statement to be used in a trigger:

UPDATE p

SET IsDeleted = 1

FROM KitPart kp

JOIN deleted d ON kp.PartID = d.PartID

JOIN Part p ON kp.PartID = p.PartID;

DELETE FROM p

FROM Part p

JOIN deleted d ON p.PartID = d.PartID

LEFT OUTER JOIN KitPart kp ON p.PartID = kp.PartID

WHERE kp.KitID IS NULL; You need to implement the Transact-SQL statement in a trigger. Which trigger syntax should you use?

A. CREATE TRIGGER tr_Part_d ON PartINSTEAD OF DELETE AS BEGIN ...END

B. CREATE TRIGGER tr_Part_d ON PartAFTER DELETE AS BEGIN ...END





C. CREATE TRIGGER tr_KitPart_d ON KitPartAFTER DELETE AS BEGIN ...END

D. CREATE TRIGGER tr_KitPart_d ON KitPartINSTEAD OF DELETE AS BEGIN ...END

Answer: A

Question: 48

You are using TRY...CATCH error handling. You need to raise an error that will pass control to the CATCH block. Which severity level should you use?

- A. 10
- B. 16
- C. 9
- D. 0

Answer: B

Question: 49

You need to alter stored procedures to use the WITH RECOMPILE option.

Which types of stored procedures should you alter? (Each correct answer represents a complete solution. Choose two.)

- A. Stored procedures implemented from CLR assemblies.
- B. Stored procedures that require the FOR REPLICATION option.
- C. Stored procedures that require the WITH ENCRYPTION option.
- D. Stored procedures that contain queries that use the OPTION (RECOMPILE) hint.

Answer: C AND D

Question: 50

Your company uses an application that passes XML to the database server by using stored procedures. The database server has a large number of XML handles that are currently active. You determine that the XML is not being flushed from SQL Server memory. You need to identify the system stored procedure to flush the XML from memory. Which Transact-SQL statement should you use?

- A. sp_xml_preparedocument
- B. sp xml removedocument
- C. DBCC DROPCLEANBUFFERS
- D. DBCC FREEPROCACHE

Answer: B

Question: 51

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You are a developer for a Microsoft SQL Server 2008 R2 database instance. You create tables named order, customer, and product as follows: CREATE TABLE [dbo].[order] ([OrderID] [int],

[ProductID] [int],



[CustomerID] [int],

[OrderDate] [datetime]); CREATE TABLE [dbo].[customer] ([CustomerID] [int],

[CustomerName] [varchar](100),

[Address] [varchar](200),

[City] [varchar](100),

[State] [varchar](50),

[ZipCode] [varchar](5)); CREATE TABLE [dbo].[product] ([ProductID] [int],

[ProductName] [varchar](100),

[SalePrice] [money],

[ManufacturerName] [varchar](100)); You need to write a query to return all customer names and total number of orders for customers who have placed more than 10 orders. Which SQL query should you use?

A. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID =

c.CustomerIDWHEREo.OrderDate > '09/01/2011'GROUP

BYc.CustomerNameHAVINGAVG(p.SalePrice) >= 500

B. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID =

c.CustomerIDWHEREo.OrderDate > '09/01/2011' ANDAVG(p.SalePrice) >= 500

C. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY p.ProductName, DATEPART(mm, o.OrderDate);

D. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER
JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID =
c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName), (p.ProductName), ());
E. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS
SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY CUBE;
F. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS

F. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) A SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY CUBE(p.ProductName, DATEPART(mm, o.OrderDate));

G. SELECTc.CustomerName,COUNT(o.OrderID) AS OrdersFROMcustomer c INNER JOIN[order] o ON c.CustomerID = o.CustomerIDWHERECOUNT(o.OrderID) > 10GROUP BYc.CustomerName; H. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY p.ProductName, OrderMonth;

I. SELECTc.CustomerName,COUNT(o.OrderID) AS OrdersFROMcustomer c INNER JOIN[order] o ON c.CustomerID = o.CustomerIDGROUP BYc.CustomerNameHAVINGCOUNT(o.OrderID) > 10;
J. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID = $\frac{1}{2}$

c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName, p.ProductName), ());

Answer: I

Question: 52





You are using Microsoft SQL Server 2008 Enterprise Edition. You need to maintain a history of all data modifications made to a table, including the type of modification and the values modified. Which tracking method should you use?

- A. Database Audit
- B. Change Data Capture
- C. Change Tracking
- D. C2 Audit Tracing

Answer: B

Question: 53

You need to build CREATE INDEX statements for all the missing indexes that SQL Server has identified. Which dynamic management view should you use?

- A. sys.dm_db_missing_index_columns
- B. sys.dm_db_index_usage_stats
- C. sys.dm_db_missing_index_group_stats
- D. sys.dm_db_missing_index_details

Answer: D

Question: 54

You need to write a query that uses a ranking function that returns the sequential number of a row within a partition of a result set, starting at 1 for the first row in each partition. Which Transact-SQL statement should you use?

- A. ROW NUMBER
- B. DENSE RANK
- C. RANK
- D. NTILE(10)

Answer: A

Question: 55

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You are a developer for a Microsoft SQL Server 2008 R2 database instance. You create tables named order, customer, and product as follows: CREATE TABLE [dbo].[order] ([OrderID] [int],

[ProductID] [int],

[CustomerID] [int],

[OrderDate] [datetime]); CREATE TABLE [dbo].[customer] ([CustomerID] [int],

[CustomerName] [varchar](100),

[Address] [varchar](200),

[City] [varchar](100),

[State] [varchar](50),

[ZipCode] [varchar](5)); CREATE TABLE [dbo].[product] ([ProductID] [int],

[ProductName] [varchar](100),



[SalePrice] [money],

[ManufacturerName] [varchar](100)); You need to write a query to identify all customers who have ordered for an average amount of more than 500 or more from September 01, 2011. Which SQL query should you use?

A. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY p.ProductName, DATEPART(mm, o.OrderDate);

 $B. \ SELECTc. CustomerName, COUNT (o.OrderID) \ AS \ OrdersFROM customer \ c \ INNER \ JOIN[order] \ o \\ ON \ c.CustomerID = o.CustomerIDWHERECOUNT (o.OrderID) > 10GROUP \ BYc. CustomerName; \\$

C. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID =

c.CustomerIDWHEREo.OrderDate > '09/01/2011'GROUP

BYc.CustomerNameHAVINGAVG(p.SalePrice) >= 500

D. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY CUBE(p.ProductName, DATEPART(mm, o.OrderDate));

E. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY CUBE;

F. SELECTc.CustomerName,COUNT(o.OrderID) AS OrdersFROMcustomer c INNER JOIN[order] o ON c.CustomerID = o.CustomerIDGROUP Byc.CustomerNameHAVINGCOUNT(o.OrderID) > 10;

G. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY p.ProductName, OrderMonth;

H. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID = c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName), (p.ProductName), ());

I. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID = c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName, p.ProductName), ());

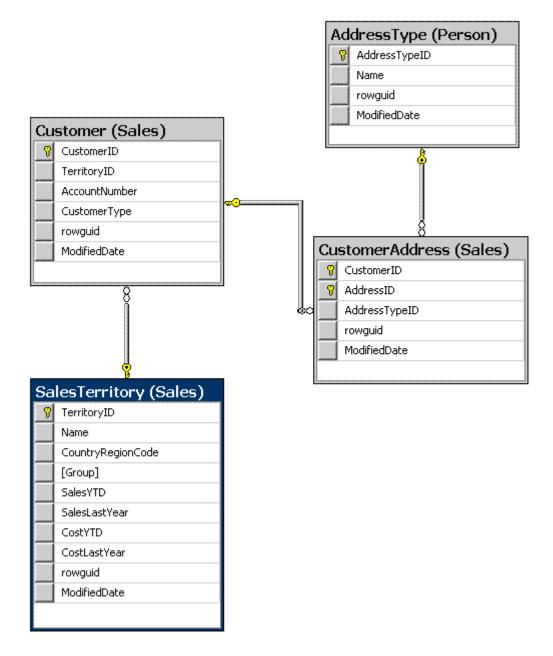
J. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID =

c.CustomerIDWHEREo.OrderDate > '09/01/2011' ANDAVG(p.SalePrice) >= 500

Answer: C

Question: 56





You administer a Microsoft SQL Server 2008R2 database that hosts a customer relationship management (CRM) application.

The application supports the following two types of customers as shown in the exhibit. (Click the Exhibit button.)

- ·Business customers who have shipments sent to their office locations
- ·Residential customers who have shipments sent to their home address You need to generate a list of residential customers who live in North America. Which three Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)

A. DECLARE @CustomerListHomeAddress TABLE (CustomerId INT NOT NULL)INSERT INTO@CustomerListHomeAddressSELECTCustomerIDFROMSales.CustomerAddressWHEREAddres





sTypeID = (SELECT AddressTypeID FROM Person.AddressType WHERE Name = 'Home')

B. DECLARE @CustomerListHomeAddress TABLE (CustomerId INT NOT NULL)INSERT

INTO@Customer List Home Address SELECT Customer IDFROM Sales. Customer Address WHERE EXISTS

(SELECT AddressTypeID FROM Person.AddressType WHERE Name = 'Home')

C. DECLARE @CustomerListNorthAmerica TABLE (CustomerId INT NOT NULL)INSERT

INTO @Customer List North America SELECT Customer IDFROM Sales. Customer EXCEPT (SELECT Customer List North America SELECT Customer List North America SEL

SalesTerritory.TerritoryIDWHERESalesTerritory.[Group] = 'North America')

D. DECLARE @CustomerListNorthAmerica TABLE (CustomerId INT NOT NULL)INSERT

INTO @Customer List North America SELECT Customer IDFROM Sales. Customer INTERSECT (SELECT Customer IDFROM Sales) and the second customer IDFROM Sales and th

SalesTerritory.TerritoryIDWHERESalesTerritory.[Group] = 'North America')

 $E.\ SELECTDISTINCT\ Home Address. Customer IdFROM@Customer List Home Address\ AS$

HomeAddressWHERECustomerId IN (SELECT CustomerID FROM @CustomerListNorthAmerica)

 $F.\ SELECTDISTINCT\ Home Address. Customer IdFROM@Customer List Home Address\ AS$

 $\label{thm:local_equation} Home Address WHERE Customer ID\ \ IN\ (SELECT\ Customer ID\ FROM\ \ \)$

@CustomerListNorthAmerica)

Answer: (A BEFORE D) AND (D BEFORE E) AND ONLY (A, D, E)

Question: 57

You administer a Microsoft SQL Server 2008 database.

The database contains tables named Customer, Subscriptions, and Orders that have the following definitions: CREATE TABLE dbo.Customer (CustomerID int NOT NULL PRIMARY KEY,

FirstName varchar(255) NOT NULL,

LastName varchar(255) NOT NULL,

CustomerAddress varchar(1024)) CREATE TABLE dbo.Subscriptions (SubscriptionID int NOT NULL PRIMARY KEY

SubscriptionName varchar(255) NOT NULL

CustomerID int FOREIGN KEY NOT NULL REFERENCES Customer(CustomerID)) CREATE TABLE dbo.Orders (OrderID int NOT NULL PRIMARY KEY

OrderText varchar(255) NOT NULL

CustomerID int FOREIGN KEY NOT NULL REFERENCES Customer(CustomerID)) Customers are considered active if they meet the following requirements:

- ·Placed an order for a subscription that is recorded in the Subscriptions table.
- ·Placed an order for an individual product that is recorded in the Orders table. You need to create a view that shows unique rows where the customer either has made an Order or has a Subscription. Which Transact-SQL statement should you use?

A. CREATE VIEW dbo.vw ActiveCustomersAS SELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM dbo.Customer cWHERE dbo.CustomerId in (SELECT CustomerIdFROM dbo.Subscriptions sUNION ALLSELECT CustomerIdFROM dbo.Orders o)



B. CREATE VIEW dbo.vw_ActiveCustomersAS SELECT DISTINCT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM dbo.Customer cLEFT OUTER JOIN dbo.Subscriptions sON c.CustomerID = s.CustomerIDLEFT OUTER JOIN dbo.Orders oON c.CustomerID = o.CustomerID

C. CREATE VIEW dbo.vw ActiveCustomersAS SELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM dbo.Customer cWHERE CustomerId in (SELECT CustomerIdFROM dbo.Subscriptions sINTERSECTSELECT CustomerIdFROM dbo.Orders o)

D. CREATE VIEW dbo.vw ActiveCustomersAS SELECT DISTINCT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM dbo.Customer cINNER JOIN dbo.Subscriptions sON c.CustomerID = s.CustomerIDEXCEPTSELECT DISTINCT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM dbo.Customer cINNER JOIN dbo.Orders oON c.CustomerID = o.CustomerID

E. CREATE VIEW dbo.vw ActiveCustomersAS SELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM dbo.Customer cLEFT OUTER JOIN dbo.Subscriptions sON c.CustomerID = s.CustomerIDLEFT OUTER JOIN dbo.Orders oON c.CustomerID = o.CustomerIDWHERE s.CustomerID IS NOT NULLOR o.CustomerID IS NOT NULL F. CREATE VIEW dbo.vw ActiveCustomersAS SELECT DISTINCT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM dbo.Customer cINNER OUTER JOIN dbo.Subscriptions sON c.CustomerID = s.CustomerIDINNER OUTER JOIN dbo.Orders oON c.CustomerID = o.CustomerID

G. CREATE VIEW dbo.vw_ActiveCustomersAS SELECT DISTINCT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM dbo.Customer cINNER JOIN dbo.Subscriptions sON c.CustomerID = s.CustomerIDUNION ALLSELECT DISTINCT c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM dbo.Customer cINNER JOIN dbo.Orders oON c.CustomerID = o.CustomerID

H. CREATE VIEW dbo.vw ActiveCustomersAS SELECT DISTINCT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM dbo.Customer cWHERE EXISTS (SELECT *FROM dbo.subscriptions sWHERE c.CustomerID = s.CustomerID)OR EXISTS (SELECT *FROM dbo.orders oWHERE c.CustomerID = o.CustomerID)

Answer: A OR H

Question: 58

You are the database developer for an order-processing application. After a customer places an order, a confirmation message must be sent to the customer.

The following Transact-SQL batch has been run in the database: ALTER DATABASE NORTHWIND SET ENABLE_BROKER; CREATE MESSAGE TYPE EmailMessageVALIDATION = NONE; CREATE CONTRACT EmailContract(EmailMessage SENT BY INITIATOR); CREATE QUEUE EmailSendQueue; CREATE QUEUE EmailReceiveQueue; CREATE SERVICE EmailSendServiceON QUEUE EmailSendQueue (EmailContract); CREATE SERVICE EmailReceiveServiceON QUEUE EmailReceiveQueue (EmailContract); You need to place the message in the EmailSendQueue for the email system to process. Which Transact-SQL batch should you use?

A. DECLARE@EmailDialog UNIQUEIDENTIFIER,@Message NVARCHAR(128);BEGIN DIALOG



CONVERSATION @EmailDialogFROM SERVICE EmailSendServiceTO SERVICE

'EmailReceiveService'ON CONTRACT EmailContractWITH ENCRYPTION = OFF;SET @Message = N'Dear Sir/Madam. Your order has been received.';SEND ON CONVERSATION

@EmailDialogMESSAGE TYPE EmailMessage (@Message);GO

- B. DECLARE@EmailDialog UNIQUEIDENTIFIER,@Message NVARCHAR(128);BEGIN DIALOG @EmailDialogFROM SERVICE EmailSendServiceTO SERVICE 'EmailReceiveService'ON CONTRACT EmailContract;SET @Message = N'Dear Sir/Madam. Your order has been received.';SEND ON CONVERSATION @EmailDialog (@Message);
- C. DECLARE@EmailDialog UNIQUEIDENTIFIER,@Message NVARCHAR(128);BEGIN DIALOG @EmailDialogFROM SERVICE EmailSendServiceTO SERVICE EmailReceiveServiceON CONTRACT EmailContract;SET @Message = N'Dear Sir/Madam. Your order has been received.';SEND ON CONVERSATION @EmailDialogMESSAGE TYPE EmailMessage (@Message);GO
- D. DECLARE@EmailDialog UNIQUEIDENTIFIER,@Message NVARCHAR(128);BEGIN DIALOG @EmailDialogFROM SERVICE EmailSendServiceTO SERVICE 'EmailReceiveService'ON CONTRACT EmailContractWITH LIFETIME = 1000;SET @Message = N'Dear Sir/Madam. Your order has been received.';SEND ON CONVERSATION @EmailDialogMESSAGE TYPE EmailMessage (@Message);GO E. DECLARE@EmailDialog BIGINT,@Message NVARCHAR(128);BEGIN DIALOG @EmailDialogTO SERVICE 'EmailReceiveService'ON CONTRACT EmailContract;SET @Message = N'Dear Sir/Madam. Your order has been received.';SEND ON CONVERSATION @EmailDialogMESSAGE TYPE EmailMessage (@Message);GO
- F. DECLARE@EmailDialog BIGINT,@Message NVARCHAR(128);BEGIN DIALOG @EmailDialogTO SERVICE EmailReceiveServiceFROM SERVICE 'EmailSendService'ON CONTRACT EmailContract;SET @Message = N'Dear Sir/Madam. Your order has been received.';SEND ON CONVERSATION @EmailDialogMESSAGE TYPE EmailMessage (@Message);GO
- G. DECLARE@EmailDialog BIGINT,@Message NVARCHAR(128);BEGIN DIALOG
 @EmailDialogFROM SERVICE EmailSendServiceTO SERVICE 'EmailReceiveService'ON CONTRACT
 EmailContract;SET @Message = N'Dear Sir/Madam. Your order has been received.';SEND ON
 CONVERSATION @EmailDialogMESSAGE TYPE EmailMessage (@Message);GO
- H. DECLARE@EmailDialog BIGINT,@Message NVARCHAR(128);BEGIN DIALOG @EmailDialogTO SERVICE 'EmailReceiveService'FROM SERVICE EmailSendServiceON CONTRACT EmailContract;SET @Message = N'Dear Sir/Madam. Your order has been received.';SEND ON CONVERSATION @EmailDialogMESSAGE TYPE EmailMessage (@Message);GO

Answer: A OR D

Question: 59

You have a table named Sales.PotentialClients. This table contains a column named EmailAddress. You are tasked to develop a report that returns valid ".com" email addresses from Sales.PotentialClients. A valid email address must have at least one character before the @ sign, and one character after the @ sign and before the ".com." You need to write a Transact-SQL statement that returns data to meet the business requirements. Which Transact-SQL statement should you use?

A. SELECT* FROMSales.PotentialClientsWHEREEmailAddress LIKE'_%@_.com'
B. SELECT * FROM Sales.PotentialClientsWHERE EmailAddress LIKE '_%@_%.com'





C. SELECT * FROM Sales.PotentialClientsWHERE EmailAddress LIKE '%@%.com'

D. SELECT* FROMSales.PotentialClientsWHEREEmailAddress LIKE'%@%[.]com

Answer: B

Question: 60

Your server collation is SQL_Latin1_General_CP1_CI_AS. You have a database named Contoso that has a collation setting of SQL Scandinavian Cp850 CI AS.

You create and populate a temporary table #Person from table dbo.Person in Contoso using the following statements: USE Contoso;CREATE TABLE #Person (LastName nchar(128));INSERT INTO #Person SELECT LastName FROM dbo.Person;You then run the following command: SELECT * FROM dbo.Person a JOIN #Person b

ON a.LastName = b.LastName; This command returns the following error: Cannot resolve the collation conflict between "SQL_Latin1_General_CP1_CI_AS" and

"SQL Scandinavian Cp850 CI AS" in the equal to operation.

You need to resolve the collation conflict. Which Transact-SQL statement should you use?

A. CREATE TABLE #Person (LastName nvarchar(128) COLLATE database_default);

B. CREATE TABLE #Person (LastName nvarchar(128) COLLATE SQL Latin1 General CP1 CI AS);

C. CREATE TABLE #Person (LastName nvarchar(128) SPARSE);

D. CREATE TABLE tmpPerson (LastName nvarchar(128) COLLATE SQL_Latin1_General_CP1 CI AS);

Answer: A

Question: 61

You have a server named Contoso with multiple databases. You have been tasked to write a PowerShell script to determine which databases on the server are larger than 100GB.

You open PowerShell from SQL Server Management Studio. You create two variables as follows:

PS SQLSERVER:\SQL\Contoso> \$MultipleOfGB = 1024 * 1024 PS SQLSERVER:\SQL\Contoso> \$Server = Get-Item

You need to determine which script will produce the desired list of databases. What script should you use?

A. $Server \mid Where-Object{($_.DatabaseSize * $MultipleOfGB) -match 100GB} \mid Select-Object Name, DatabaseSize$

B. \$Server.Databases | Where-Object{(\$_.Size * \$MultipleOfGB) -gt 100GB\} | Select-Object Name, Size

C. $Server.Databases \mid Where-Object{($_.Size * $MultipleOfGB) -match 100GB} \mid Select-Object Name, Size$

D. \$Server | Where-Object{(\$_.DatabaseSize * \$MultipleOfGB) -gt 100GB\} | Select-Object Name, DatabaseSize

Answer: B

Question: 62

You are updating a database table. You need to partition the table to store only the last 1000 rows of data in the table. What should you do?



- A. Create the partition function, the partition scheme, and the distributed partitioned view.
- B. Create the partition function and the partition scheme, and update the table.
- C. Add a secondary file to the primary filegroups, update the table, and create the distributed partitioned view.
- D. Create the partition function, update the table, and create a filtered index.

Answer: B

Question: 63

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You administer a Microsoft SQL Server 2008 database named AdventureWorks that contains a table named Production.Product. The table contains a primary key named PK_Product_ProductID and a non-clustered index named AK_Product_ProductNumber. Both indexes have been created on a single primary partition.

The table has the following definition: CREATE TABLE [Production].[Product](

[ProductID] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](50) NOT NULL,

[ProductNumber] [nvarchar](25) NOT NULL,

[Color] [nvarchar](15) NULL,

[Class] [nchar](2) NULL,

[Style] [nchar](2) NULL,

[ModifiedDate] [datetime] NOT NULL,

CONSTRAINT [PK_Product_ProductID] PRIMARY KEY CLUSTERED

[ProductID] ASC

) ON [PRIMARY]) ON [PRIMARY]GO The index has the following definition: CREATE UNIQUE

NONCLUSTERED INDEX [AK_Product_ProductNumber] ON [Production].[Product] (

[ProductNumber] ASC) ON [PRIMARY]GO The Production. Product table contains 1 million rows.

You want to ensure that data retrieval takes the minimum amount of time when the queries executed against the Production. Product table are ordered by product number or filtered by class.

You need to refresh statistics on the Production. Product table.

Which Transact-SQL statement should you use?

A. ALTER INDEX AK Product ProductNumber ON Production.Product REORGANIZE

B. SELECT * FROM sys.dm db index physical stats (DB ID(),

OBJECT_ID(N'Production.Product'), NULL, NULL, NULL)

C. ALTER DATABASE [AdventureWorks] SET AUTO_UPDATE_STATISTICS ON

D. UPDATE INDEX AK_Product_ProductNumber ON Production.Product SET

(STATISTICS_NORECOMPUTE = ON)

E. ALTER INDEX AK Product ProductNumber ON Production.Product REBUILD Partition = 1

F. SELECT * FROM sys.dm db index operational stats (DB ID(),

OBJECT_ID(N'Production.Product'), NULL, NULL)

G. SELECT * FROM sys.indexes where name=N'Production.Product'

H. CREATE STATISTICS ProductClass StatsON Production. Product (Name, ProductNumber,





Class)WHERE Class <> null

- I. EXEC sys.sp_configure 'index create memory', 1
- J. SELECT * FROM STATS WHERE name='AK_Product_ProductNumber'
- K. ALTER INDEX AK_Product_ProductNumber ON Production.Product REBUILD
- L. UPDATE STATISTICS Production. Product
- M. ALTER STATISTICS Production. Product
- N. DBCC SHOW_STATISTICS ('Production.Product', AK_Product_ProductNumber)
- O. SELECT * FROM SYS.STATS WHERE name='AK_Product_ProductNumber'
- P. CREATE STATS ProductClass_StatsON Production.Product (Name, ProductNumber, Class)WHERE Class is not nullWITH SAMPLE 100 PERCENT
- Q. CREATE STATISTICS ProductClass_StatsON Production.Product (Name, ProductNumber, Class)WHERE Class is not null

Answer: L

Question: 64

You have two tables named dbo.CurrentProducts and dbo.ArchiveProducts. You have the following query: SELECT ProductID, Name FROM dbo.CurrentProductsUNION ALLSELECT ProductID, NameFROM dbo.ArchiveProducts; You need to predict the list of products that the query will produce. Which list of products should the query return?

- A. Products that appear in dbo.CurrentProducts or dbo.ArchiveProducts but not in both.
- B. Products that appear in dbo.CurrentProducts or dbo.ArchiveProducts. Products that appear in both tables are listed multiple times.
- C. Products that have a matching ProductID and Name in dbo.CurrentProducts or dbo.ArchiveProducts.
- D. Products that appear in dbo.CurrentProducts or dbo.ArchiveProducts. Products that appear in both tables are listed only once.

Answer: B

Question: 65

You need to identify which products will be inserted when you execute the following code block.

BEGIN TRANSACTION

INSERT INTO Product (ProductName) VALUES ('food')

BEGIN TRANSACTION

INSERT INTO Product (ProductName)) VALUES ('beverage')

COMMIT TRANSACTIONROLLBACK TRANSACTION Which products will be inserted?

- A. None
- B. Beverage
- C. Food and beverage
- D. Food

Answer: A

Question: 66





You administer a Microsoft SQL Server database named AdventureWorks2008R2. The database has a table that has the following definition: CREATE TABLE Production.Location(Name nvarchar(100) NOT NULL PRIMARY KEY,

StartDate datetime2 NOT NULL

CHECK (StartDate >= '2011-01-01')) You plan to implement custom error handling for INSERT commands. The error number for a duplicate key is 2627. The error number for a NULL violation is 515. You need to ensure that an INSERT statement meets the following requirements:

- ·If a duplicate row is detected during insertion, no error message must be raised.
- ·For NULL errors, the prefix "NULL:" must be added to the message; all others errors must begin with "OTHER:".
- ·Return all errors as error number 50000. Which Transact-SQL statement should you use?

 A. INSERT Production.Location (Name, StartDate) VALUES ('Paint', '2011-10-18') IF @@error = 515RAISERROR ('NULL:' + Error_Message(), 16, 1)
- B. DECLARE @msg nvarchar(2000)INSERT Production.Location (Name,StartDate)VALUES ('Paint','2011-10-18') IF @@error = 515BEGINSET @msg = 'NULL:' + Error_Message()RAISERROR (@msg,16,1)ENDELSEBEGINSET @msg = 'OTHER:' + Error_Message()RAISERROR (@msg,16,1)END C. BEGIN TRYINSERT Production.Location (Name,StartDate)VALUES ('Paint','2011-10-10')END TRYBEGIN CATCHIF ERROR_NUMBER() <> 2627BEGINDECLARE @msg nvarchar(2000)SET @msg = case ERROR_NUMBER()WHEN 515 THEN 'NULL:'ELSE 'OTHER:' END + ERROR_MESSAGE()RAISERROR (@msg,16,1)ENDEND CATCH
- D. BEGIN TRYINSERT Production.Location (Name,StartDate)VALUES ('Paint','2011-10-10')END TRYBEGIN CATCHDECLARE @msg nvarchar(2000)SET @msg = case ERROR_NUMBER(WHEN 515 THEN 'NULL:'ELSE 'OTHER:' END + ERROR_MESSAGE()RAISERROR (@msg,16,1)END CATCH E. BEGIN TRYINSERT Production.Location (Name,StartDate)VALUES ('Paint','2011-10-10')END TRYBEGIN CATCHIF ERROR_NUMBER() = 2627BEGINDECLARE @msg nvarchar(2000)SET @msg = case ERROR_NUMBER()WHEN 515 THEN 'NULL:'ELSE 'OTHER:' END + ERROR MESSAGE()RAISERROR (@msg,16,1)ENDEND CATCH
- F. BEGIN TRYINSERT Production.Location (Name,StartDate)VALUES ('Paint','2001-10-10')END TRYBEGIN CATCHIF ERROR_NUMBER() <> 2627BEGINDECLARE @msg nvarchar(2000)SET @msg = case ERROR_NUMBER()WHEN 515 THEN 'NULL:'ELSE 'OTHER:' END + ERROR MESSAGE()RAISERROR 50010 @msgENDEND CATCH
- G. BEGIN TRYINSERT Production.Location (Name,StartDate)SELECT 'Paint','2011-10-10'WHERE NOT EXISTS (SELECT *FROM Production.Location as LWHERE L.Name = 'Paint')END TRYBEGIN CATCHDECLARE @msg nvarchar(2000)SET @msg = case ERROR_NUMBER()WHEN 515 THEN 'NULL:'ELSE 'OTHER:' END + ERROR_MESSAGE()RAISERROR (@msg,16,1)END CATCH H. BEGIN TRYINSERT Production.Location (Name,StartDate)VALUES ('Paint','2011-10-10')END TRYBEGIN CATCHIF ERROR_NUMBER() = 2627BEGINDELETE FROM Production.LocationWHERE Name = 'Paint'INSERT Production.Location (Name,StartDate)VALUES ('Paint','2011-10-10')ENDELSEBEGINDECLARE @msg nvarchar(2000)SET @msg = case ERROR_NUMBER()WHEN 515 THEN 'NULL:'ELSE 'OTHER:' END + ERROR_MESSAGE()RAISERROR (@msg,16,1)ENDEND CATCH

Answer: C OR G



Question: 67

You are the database administrator for an order management system.

The database has the following two schemas:

·The dbo schema that is used by the main data processing group

·A Reporting schema that is used by the reporting group The application contains a product table that has the following definition: CREATE TABLE dbo.Product(ProductID INT, ProductName VARCHAR(100),

SalePrice MONEY,

ManufacturerName VARCHAR(150)); The application contains an order table that has the following definition: CREATE TABLE dbo.[Order](OrderID INT,

ProductID INT,

CustomerID INT,

OrderDate DATETIME2); The application also contains a customer table that has the following definition: CREATE TABLE dbo.Customer

(CustomerID INT,

CustomerName VARCHAR(100),

[Address] VARCHAR(200),

City VARCHAR(100),

[State] VARCHAR(50),

ZipCode VARCHAR(5)); You want to load a subset of data from the product and order tables in the dbo schema to a new ProductOrderHistory table in the Reporting schema.

You need to ensure that the table meets the following requirements:

·Includes rows for every product that has been manufactured by "Contoso".

Includes rows for every product that was ordered from March 1, 2011 to May 31, 2011. The

Reporting.ProductOrderHistory columns have the following types: CustomerName

 $VARCHAR (100) Product Name\ VARCHAR (100) Sale Price\ MONEY Manufacturer Name$

VARCHAR(150)ProductOrderDate DATETIME Which Transact-SQL query should you use?

A. SELECTc.CustomerName,p.ProductName,p.SalePrice,p.ManufacturerName,CAST(o.OrderDate as datetime) as ProductOrderDateINTO Reporting.ProductOrderHistoryFROMdbo.product p LEFT JOIN(dbo.[order] o INNER JOINdbo.customer c ON o.CustomerID = c.CustomerID) ON p.ProductID = o.ProductID WHEREp.ManufacturerName = 'Contoso' OR(o.OrderDate >= '20110301' ANDo.OrderDate < '20110601')

B. SELECTc.CustomerName,p.ProductName,p.SalePrice,p.ManufacturerName,o.OrderDate as ProductOrderDateINTO Reporting.ProductOrderHistoryFROMdbo.product p INNER

JOINdbo.[order] o ON p.ProductID = o.ProductID INNER JOINdbo.customer c ON o.CustomerID = c.CustomerID WHEREp.ManufacturerName = '%Contoso%' OR(o.OrderDate >= '20110301'AND o.OrderDate < '20110601')

C. SELECTc.CustomerName,p.ProductName,p.SalePrice,p.ManufacturerName,CAST(o.OrderDate as datetime) as ProductOrderDateINTO Reporting.ProductOrderHistoryFROMdbo.Product p LEFT JOIN(dbo.[Order] o INNER JOINdbo.Customer c ON o.CustomerID = c.CustomerID) ON p.ProductID = o.ProductID WHEREp.ManufacturerName = 'Contoso' ORo.OrderDate BETWEEN '20110301' AND '20110531';



D. SELECTc.CustomerName,p.ProductName,p.SalePrice,p.ManufacturerName,CAST(o.OrderDate as datetime) as ProductOrderDateINTO reporting.ProductOrderHistoryFROMdbo.product p LEFT JOINdbo.[order] o ON p.ProductID = o.ProductID LEFT JOINdbo.customer c ON o.CustomerID = c.CustomerID WHEREp.ManufacturerName = 'Contoso' OR(o.OrderDate between '20110301' AND '20110531 23:59:59.999');

E. SELECTc.CustomerName,p.ProductName,p.SalePrice,p.ManufacturerName,CAST(o.OrderDate as datetime) as ProductOrderDateINTO TABLE reporting.ProductOrderHistoryFROMdbo.product p LEFT JOINdbo.[order] o ON p.ProductID = o.ProductID LEFT JOINdbo.customer c ON o.CustomerID = c.CustomerID WHEREp.ManufacturerName LIKE '%contoso%' ORo.OrderDate >= '20110301' ANDo.OrderDate < '20110601'

F. SELECTc.CustomerName,p.ProductName,p.SalePrice,p.ManufacturerName,o.OrderDate as ProductOrderDateINTO reporting.ProductOrderHistoryFROMdbo.product p RIGHT JOINdbo.[order] o ON p.ProductID = o.ProductID INNER JOINdbo.customer c ON o.CustomerID = c.CustomerID WHEREp.ManufacturerName = 'Contoso' OR(o.OrderDate >= '20110301' ANDo.OrderDate < '20110601')

G. SELECTc.CustomerName,p.ProductName,p.SalePrice,p.ManufacturerName,CAST(o.OrderDate as datetime) as ProductOrderDateINTO reporting.ProductOrderHistoryFROMdbo.product p CROSS JOINdbo.[order] o ON p.productID = o.productID CROSS JOINdbo.customer c ON o.CustomerID = c.CustomerIDWHEREp.ManufacturerName = 'Contoso' OR(o.OrderDate >= '20110301' ANDo.OrderDate < '20110601')

H. SELECTc.CustomerName,p.ProductName,p.SalePrice,p.ManufacturerName,CAST(o.OrderDate as datetime) as ProductOrderDateINTO reporting.ProductOrderHistoryFROMdbo.product p LEFT JOINdbo.[order] o ON p.ProductID = o.ProductID LEFT JOINdbo.customer c ON o.CustomerID = c.CustomerID WHEREp.ManufacturerName = 'Contoso' ORo.OrderDate >= '20110301' ANDo.OrderDate < '20110601'

Answer: A OR D

Question: 68

You have tables named Sales. Sales Order Details and Sales. Sales Order Header. You have been tasked to update the discount amounts for the sales of a particular sales person.

You need to set UnitPriceDiscount to .1 for all entries in Sales.SalesOrderDetail that only correspond to SalesPersonID 290.

Which Transact-SQL statement should you use?

A. UPDATE Sales.SalesOrderDetail SET UnitPriceDiscount = .1WHERE EXISTS (SELECT * FROM Sales.SalesOrderHeader hWHERE h.SalesPersonID = 290);

B. UPDATE Sales.SalesOrderDetail SET UnitPriceDiscount = .1FROM Sales.SalesOrderHeader hWHERE h.SalesPersonID = 290;

C. UPDATE d SET UnitPriceDiscount = .1FROMSales.SalesOrderDetail dINNER

JOINSales.SalesOrderHeader hON h.SalesOrderID = d.SalesOrderIDWHERE h.SalesPersonID = 290;

D. UPDATE Sales.SalesOrderDetail SET UnitPriceDiscount = .1FROM Sales.SalesOrderDetail

dWHERE EXISTS (SELECT * FROM Sales.SalesOrderHeader hWHERE h.SalesPersonID = 290);

Answer: C



Question: 69

You have a third-party application that inserts data directly into a table. You add two new columns to the table. These columns cannot accept NULL values and cannot use default constraints. You need to ensure that the new columns do not break the third-party application. What should you do?

- A. Create an INSTEAD OF INSERT trigger.
- B. Create a stored procedure.
- C. Create a DDL trigger.
- D. Create an AFTER INSERT trigger.

Answer: A

Question: 70

You are a developer for a Microsoft SQL Server 2008 R2 database instance that hosts an application. You are designing some new tables. You need to choose the most appropriate data types. Which data types should you use? (To answer, drag the appropriate data type to the correct data in the answer area. Each data type may be used once, more than once, or not at all. Each data may be used once or not at all. Additionally, you may need to drag the split bar between panes or scroll to view content.)

1.

XML

2.

nvarchar(max)

3.

varbinary(max) FILESTREAM

4.

datetime2

5.

timestamp

none.gif

DataXML data validated by an XSDDatetimeInternational text data longer than 5,000 charactersXML data that must be indexed and searched by using XPATH queriesXML data that must be preserved exactly as it was receivedMP3 audio filesThe date and time a row was last modifiedHTML fragments

Answer: G5 AND B4 AND F3 AND H2 AND E2 AND C2 AND D1 AND A1

Question: 71





Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You administer a Microsoft SQL Server 2008 database for an inventory management system.

The application contains a product table that has the following definition: CREATE TABLE

[Production].[Product](

[ProductID] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](50) NOT NULL,

[ProductNumber] [nvarchar](25) NOT NULL,

[Color] [nvarchar](15) NULL,

[Class] [nchar](2) NULL,

[Style] [nchar](2) NULL,

[Active] [bit] NOT NULL,

[ModifiedDate] [datetime] NOT NULL,

 ${\tt CONSTRAINT\,[PK_Product_ProductID]\,PRIMARY\,KEY\,CLUSTERED}$

(

[ProductID] ASC

-) ON [PRIMARY]) ON [PRIMARY]GO You want to add a new field to the Product table to meet the following requirements:
- ·Allows user-specified information that will be added to records in the Product table.
- ·Supports the largest storage size needed for the field.
- ·Uses the smallest data type necessary to support the domain of values that will be entered by users. You need to add a field named User_Data_1 to support decimal values between 0 and 10,000 that have up to six decimal points. Which SQL statement should you use?
- A. ALTER TABLE [Production].[Product] ADD [User_Data_1] DATETIME2
- B. ALTER TABLE [Production].[Product] ADD [User Data 1] SMALLMONEY
- C. ALTER TABLE [Production].[Product] ADD [User Data 1] NUMERIC(11,6)
- D. ALTER TABLE [Production].[Product] ADD [User_Data_1] DATETIME
- E. ALTER TABLE [Production].[Product] ADD [User_Data_1] NUMERIC(6,11)
- F. ALTER TABLE [Production].[Product] ADD [User_Data_1] DATE
- G. ALTER TABLE [Production].[Product] ADD [User_Data_1] BIGINT
- H. ALTER TABLE [Production].[Product] ADD [User_Data_1] TINYINT
- I. ALTER TABLE [Production].[Product] ADD [User Data 1] CHAR(100)
- J. ALTER TABLE [Production].[Product] ADD [User_Data_1] NVARCHAR(100)
- K. ALTER TABLE [Production].[Product] ADD [User_Data_1] BIT
- L. ALTER TABLE [Production].[Product] ADD [User_Data_1] SMALLINT
- M. ALTER TABLE [Production].[Product] ADD [User_Data_1] VARCHAR(100)
- N. ALTER TABLE [Production].[Product] ADD [User Data 1] INT
- O. ALTER TABLE [Production]. [Product] ADD [User Data 1] NCHAR(100)
- P. ALTER TABLE [Production].[Product] ADD [User_Data_1] NUMERIC(5,6)
- Q. ALTER TABLE [Production].[Product] ADD [User_Data_1] MONEY
- R. ALTER TABLE [Production].[Product] ADD [User_Data_1] SMALLDATETIME

Answer: C



Question: 72

You have a database that uses stored procedures to perform INSERT, UPDATE, DELETE, and SELECT statements.

You are tasked with providing a recommendation of indexes to be created and dropped from the database.

You need to select the appropriate method to accomplish the task. Which method should you use?

- A. SQL Server Profiler
- B. Database Engine Tuning Advisor
- C. Index Usage DMVs
- D. Missing Index DMVs

Answer: B

Question: 73

You have an application that is used by international clients. All clients connect by using Windows Authentication. You need to ensure that system and user-defined error messages are displayed in the localized language for the clients.

What should you do? (Each correct answer represents part of the solution. Choose two.)

- A. Use @@LANGUAGE function
- B. Use default language for each login
- C. Use @lang parameter of sp_addmessage
- D. Use the "set language" option of sp_configure

Answer: B AND C

Question: 74

You are a database developer working on an application hosted on Microsoft SQL Server 2008 R2. The application regularly imports employee data from XML files. These files are bulk-loaded into the CompanyDoc column of the CompanyXML table. The table the following definition: CREATE TABLE CompanyXML(CompanyXMLID int IDENTITY PRIMARY KEY NOT NULL, CompanyDoc xml NOT NULL) One of the XML files loaded into this table has the following code fragment.

- <Company><Employee Name = "Michaeline" Department = "Finance"/><Employee Name = "Chad" Department = "Facilities"/>
- ...<Employee Name = "Shelly" Department = "Human Resources"/></Company> You need to be able to return the data as shown in the following table:

Name	Department
Michael	Finance
John	Facilities
David	Human Resources

Which Transact-SQL statements should you use?

A. SELECT Name = Company.Employee.query('@Name','varchar(20)'), Department = Company.Employee.query('@Department','varchar(20)')FROM CompanyXML cCROSS APPLY CompanyDoc.nodes('/Company/Employee') Company(Employee)



B. DECLARE @xmlid intDECLARE cur_xml CURSOR FAST_FORWARD FORSELECT CompanyXMLID FROM CompanyXMLOPEN cur xmlFETCH NEXT FROM cur xml INTO @xmlidWHILE @@FETCH_STATUS = OBEGINSELECT Name = Company.Employee.value('@Name','varchar(20)'), Department = Company.Employee.value('@Department','varchar(20)')FROM CompanyXMLWHERE CompanyXMLID = @xmlidFETCH NEXT FROM cur xml INTO @xmlidENDCLOSE cur xmlDEALLOCATE cur xml C. SELECT Name = Company.Employee.value('@Name', 'varchar(20)'), Department = Company.Employee.value('@Department', 'varchar(20)')FROM CompanyXML cCROSS APPLY CompanyDoc.nodes('/Company/Employee') Company(Employee) D. DECLARE @xml xmlDECLARE @results table (Name varchar(20), Department varchar(20))DECLARE cur xml CURSOR FAST FORWARD FORSELECT CompanyDoc FROM CompanyXMLOPEN cur_xmlFETCH NEXT FROM cur_xml INTO @xmlWHILE @@FETCH_STATUS = OBEGININSERT @resultsSELECT Name = Company.Employee.query('@Name','varchar(20)'), Department = Company.Employee.guery('@Department','varchar(20)')FROM @xml.nodes('/Company/Employee') Company(Employee)FETCH NEXT FROM cur xml INTO @xmlENDCLOSE cur xmlDEALLOCATE cur xmlSELECT * FROM @results E. DECLARE @xmlid intDECLARE cur_xml CURSOR FAST_FORWARD FORSELECT CompanyXMLID FROM CompanyXMLOPEN cur xmlFETCH NEXT FROM cur xml INTO @xmlidWHILE @@FETCH STATUS = OBEGINSELECT Name = Company.Employee.guery('@Name','varchar(20)'), Department = Company.Employee.query('@Department','varchar(20)')FROM CompanyXMLWHERE CompanyXMLID = @xmlidFETCH NEXT FROM cur xml INTO @xmlidENDCLOSE cur_xmlDEALLOCATE cur_xml F. DECLARE @xml xmlDECLARE @results table (Name varchar(20), Department

F. DECLARE @xml xmlDECLARE @results table (Name varchar(20), Department varchar(20))DECLARE cur_xml CURSOR FAST_FORWARD FORSELECT CompanyDoc FROM CompanyXMLOPEN cur_xmlFETCH NEXT FROM cur_xml INTO @xmlWHILE @@FETCH_STATUS = 0BEGININSERT @resultsSELECT Name = @xml.value('/Company[1]/Employee[1]/@Name', 'varchar(20)'), Department = @xml.value('/Company[1]/Employee[1]/@Department', 'varchar(20)')FETCH NEXT FROM cur_xml INTO @xmlENDCLOSE cur_xmlDEALLOCATE cur_xmlSELECT * FROM @results

G. DECLARE @xml xmlDECLARE @results table (Name varchar(20), Department varchar(20))DECLARE cur_xml CURSOR FAST_FORWARD FORSELECT CompanyDoc FROM CompanyXMLOPEN cur_xmlFETCH NEXT FROM cur_xml INTO @xmlWHILE @@FETCH_STATUS = 0BEGININSERT @resultsSELECT Name = @xml.value('/Company/Employee/@Name', 'varchar(20)'), Department = @xml.value('/Company/Employee/@Department', 'varchar(20)') FETCH NEXT FROM cur_xml INTO @xmlENDCLOSE cur_xmlDEALLOCATE cur_xmlSELECT * FROM @results

H. DECLARE @xml xmlDECLARE @results table (Name varchar(20), Department varchar(20))DECLARE cur_xml CURSOR FAST_FORWARD FORSELECT CompanyDoc FROM CompanyXMLOPEN cur_xmlFETCH NEXT FROM cur_xml INTO @xmlWHILE @@FETCH_STATUS = 0BEGININSERT @resultsSELECT Name = Company.Employee.value('@Name','varchar(20)'), Department = Company.Employee.value('@Department','varchar(20)')FROM @xml.nodes('/Company/Employee') Company(Employee)FETCH NEXT FROM cur_xml INTO @xmlENDCLOSE cur_xmlDEALLOCATE cur_xmlSELECT * FROM @results



Answer: C OR H

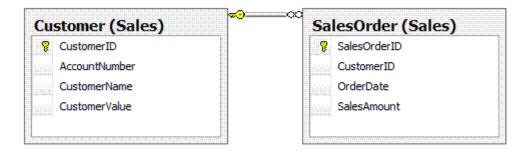
Question: 75

You have implemented change tracking on a table named Sales. Sales Order. You need to determine all columns that have changed since the minimum valid version. Which function should you use?

- A. CHANGETABLE with the VERSION argument
- B. CHANGETABLE with the CHANGES argument
- C. CHANGE_TRACKING_CURRENT_VERSION
- D. CHANGE_TRACKING_IS_COLUMN_IN_MASK

Answer: B

Question: 76



You administer a Microsoft SQL Server 2008 database that contains tables named Sales.Customer and Sales.SalesOrder.

A diagram of the tables is shown in the exhibit. (Click the Exhibit button.) You need to execute a query to update the value of the CustomerValue field to HV when a customer has more than 5 orders for a total sales amount of more than 5,000 U.S. dollars. Which Transact-SQL statement should you use?

A. UPDATE Sales.Customer SETCustomerValue = 'HV'FROMSales.CustomerWHERESalesAmount > 5000AND CustomerID IN(SELECTc.CustomerIDFROMSales.Customer cINNER JOINSales.SalesOrder o ON o.CustomerID=c.CustomerIDGROUP BYc.CustomerIDHAVINGCOUNT(*) > 5)

B. UPDATE Sales.Customer SETCustomerValue = 'HV'FROMSales.CustomerWHERECustomerID IN(SELECTc.CustomerIDFROMSales.Customer cINNER JOINSales.SalesOrder o ON o.CustomerID=c.CustomerIDGROUP BYc.CustomerIDHAVINGCOUNT(*) > 5AND SUM(SalesAmount) > 5000)

C. UPDATE c SETCustomerValue = 'HV'FROMSales.SalesOrder oINNER JOINSales.Customer c ON c.CustomerID=o.CustomerIDGROUP BYc.CustomerIDHAVINGCOUNT(*) > 5AND SUM(SalesAmount) > 5000

D. UPDATE c SETCustomerValue = 'HV'FROMSales.SalesOrder oINNER JOINSales.Customer c ON c.CustomerID=o.CustomerIDWHERESalesAmount > 5000GROUP BYc.CustomerIDHAVINGCOUNT(*) > 5

E. UPDATE u SETCustomerValue = 'HV'FROMSales.Customer





uWHEREEXISTS(SELECTc.CustomerIDFROMSales.Customer cINNER JOINSales.SalesOrder o ON o.CustomerID=c.CustomerIDWHEREc.CustomerID=u.CustomerIDGROUP

BYc.CustomerIDHAVINGCOUNT(*) > 5AND SUM(SalesAmount) > 5000)

F. UPDATE u SETCustomerValue = 'HV'FROMSales.Customer uWHERESalesAmount > 5000AND EXISTS(SELECTc.CustomerIDFROMSales.Customer cINNER JOINSales.SalesOrder o ON o.CustomerID=c.CustomerIDWHEREc.CustomerID=u.CustomerIDGROUP BYc.CustomerIDHAVINGCOUNT(*) > 5)

 $\hbox{G. UPDATE Sales. Customer SETCustomerValue = 'HV'FROMSales. Sales Order oINNER JOINSales. Customer c ON c. CustomerID=o. CustomerIDGROUP } \\$

BYc.CustomerIDHAVINGCOUNT(*) > 5AND SUM(SalesAmount) > 5000

H. UPDATE Sales.Customer SETCustomerValue = 'HV'FROMSales.SalesOrder oINNER JOINSales.Customer c ON c.CustomerID=o.CustomerIDWHERESalesAmount > 5000GROUP BYc.CustomerIDHAVINGCOUNT(*) > 5

Answer: B OR E

Question: 77

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Exam Format and Question FormatsThis exam session includes multiple sections. You will see introductory sections, the exam content, and post-exam sections. This exam might contain several question formats. The Instructions button located at the bottom of each question screen provides information on the question format shown.

TimingThe amount of time that you have to complete this exam was provided on the Welcome Screen.

The amount of time you have remaining in each section is provided in the upper-right corner of each screen. Any delays, such as the loading of the next screen, will not be counted against your exam time.

Number of Questions The total number of questions on this exam is provided on the "Get Ready to Take the Exam!" screen. The number of questions remaining in each section is provided in the upper-left corner of each question.

Reviewing/CommentingThe Mark for review or comment check box located in the upper-left corner of each question screen can be used to flag a question that you want to review. At the end of this exam, you will see a screen that shows you which questions you have marked for review. The Mark for review or comment check box can also be used to flag a question for which you want to provide a comment. Note that you cannot make comments during the exam. The comment period is timed separately; any time you spend making comments does not affect the time limit for the exam itself.

Important Changes to Your Exam Experience ScrollingYou will no longer be notified that you have not viewed the entire question when you move to another question. In other words, you will not be prompted to scroll to the end of a question before you move to the next one. Keyboard ShortcutsFunctionality, such as keyboard shortcuts, can be used during the exam. Additional information about the keyboard controls that are available within the exam can be found by



clicking the Help button associated with each question. Case Studies This exam might contain case studies. We no longer time each case study separately. In other words, the amount of time you are given to complete this exam can be used at your discretion. You can spend as much time as you like on any given case or question, but be sure to manage your time accordingly.

Question: 78

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You are a developer for a Microsoft SQL Server 2008 R2 database instance used to support a customer service application.

You create tables named complaint, customer, and product as follows: CREATE TABLE [dbo].[complaint] ([ComplaintID] [int],

[ProductID] [int],

[CustomerID] [int],

[ComplaintDate] [datetime]); CREATE TABLE [dbo].[customer] ([CustomerID] [int],

[CustomerName] [varchar](100),

[Address] [varchar](200),

[City] [varchar](100),

[State] [varchar](50),

[ZipCode] [varchar](5)); CREATE TABLE [dbo].[product] ([ProductID] [int],

[ProductName] [varchar](100),

[SalePrice] [money],

[ManufacturerName] [varchar](100)); You need to write a query to sum the sales made to each customer who has made a complaint by the following entries:

- ·Each customer name
- ·Each product name
- ·The grand total of all sales Which SQL query should you use?
- $A. \ SELECTc. CustomerName, p. ProductName, SUM (p. SalePrice) \ AS \ SalesFROM product \ p \ INNER \ JOIN complaint \ com \ ON \ p. ProductID = com. ProductID \ INNER \ JOIN customer \ c \ ON \ com. CustomerID \ and the productID \ and the pro$
- = c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName, p.ProductName), ());
- B. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY CUBE(p.ProductName, DATEPART(mm, com.ComplaintDate));
- C. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID =
- c.CustomerIDWHEREcom.ComplaintDate > '09/01/2011' ANDAVG(p.SalePrice) >= 500
- D. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY CUBE;
- E. SELECTc.CustomerName,COUNT(com.ComplaintID) AS complaintsFROMcustomer c INNER JOINcomplaint com ON c.CustomerID = com.CustomerIDGROUP BYc.CustomerNameHAVINGCOUNT(com.ComplaintID) > 10;



F. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY p.ProductName, DATEPART(mm, com.ComplaintDate);

G. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com
ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID =
c.CustomerIDWHEREcom.ComplaintDate > '09/01/2011'GROUP
BYc.CustomerNameHAVINGAVG(p.SalePrice) >= 500

H. SELECTc.CustomerName,COUNT(com.ComplaintID) AS ComplaintsFROMcustomer c INNER JOINcomplaint com ON c.CustomerID = com.CustomerIDWHERECOUNT(com.ComplaintID) > 10GROUP BYc.CustomerName;

- I. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY p.ProductName, ComplaintMonth;
- J. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID = c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName), (p.ProductName), ());

Answer: J

Question: 79

You have a table named Employee. You document your company's organizational hierarchy by inserting the EmployeeID of each employee's manager in the ReportsTo column. You need to write a recursive query that produces a list of employees and their manager. The query must also include the employee's level in the hierarchy. You write the following code segment. (Line numbers are included for reference only.) 01 WITH EmployeeList (EmployeeID, FullName, ManagerName, Level)02 AS (03 04)05 SELECT EmployeeID, FullName, ManagerName, Level06 FROM EmployeeList;

Which code segment should you insert at line 3?

A. SELECT EmployeeID,FullName," AS [Reports To],1 AS [Level]FROM EmployeeUNION ALLSELECT emp.EmployeeID,emp.FullName,mgr.FullName,1 + 1 AS [Level]FROM Employee empLEFT JOIN Employee mgrON emp.ReportsTo = mgr.EmployeeID

B. SELECT EmployeeID,FullName," AS [ReportsTo],1 AS [Level]FROM EmployeeWHERE ReportsTo IS NULLUNION ALLSELECT emp.EmployeeID,emp.FullName,mgr.FullName,mgr.Level + 1FROM EmployeeList mgrJOIN Employee empON emp.ReportsTo = mgr.EmployeeId

C. SELECT EmployeeID,FullName," AS [ReportsTo],1 AS [Level]FROM EmployeeUNION ALLSELECT emp.EmployeeID,emp.FullName,mgr.FullName,mgr.Level + 1FROM EmployeeList mgrJOIN Employee empON emp.ReportsTo = mgr.EmployeeID

D. SELECT EmployeeID,FullName," AS [ReportsTo],1 AS [Level]FROM EmployeeWHERE ReportsTo IS NULLUNION ALLSELECT emp.EmployeeID,emp.FullNName,mgr.FullName,1 + 1 AS [Level]FROM Employee empJOIN Employee mgrON emp.ReportsTo = mgr.EmployeeID

Answer: B

Question: 80

You are a developer for a Microsoft SQL Server 2008 R2 database instance. You plan to add





functionality to an existing application that uses the Microsoft SQL Server Profiler tool to capture trace information. You need to ensure that the following requirements are met:

- ·Users are able to use the new application functionality.
- ·Users are able to capture trace information and read saved trace files.
- ·Users are granted the minimum permissions to achieve these goals. Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)
- A. Create a database role named traceusers.
- B. Add each user of the application to the sysadmin fixed-server role.
- C. Add each user of the application to the traceusers database role.
- D. Grant the ALTER TRACE permissions to the traceusers database role.
- E. Grant the CONNECT permission to the traceusers database role.
- F. Create a server role named traceusers.

Answer: (C BEFORE D) AND (A BEFORE C) AND ONLY (A, C, D)

Question: 81

You are tasked with creating a workload that will be used by the Database Engine Tuning Advisor (DTA). You need to create a workload in an appropriate format. Which format should you choose? (Each correct answer represents a complete solution. Choose three.)

- A. XML File
- B. Transact-SQL Script
- C. SQL Server Event Log
- D. SQL Server Transaction Log
- E. SQL Server Profiler Trace File
- F. Performance Counter Log File

Answer: A AND B AND E

Question: 82

You administer a SQL Server 2008 instance. The instance contains a database table named Sales. Sales Order Detail.

The table has the following definition: CREATE TABLE [Sales].[SalesOrderDetail](

[SalesOrderID] [int] NOT NULL,

[SalesOrderDetailID] [int] IDENTITY(1,1) NOT NULL,

[CarrierTrackingNumber] [nvarchar](25) NULL,

[OrderQty] [smallint] NOT NULL,

[ProductID] [int] NOT NULL,

[SpecialOfferID] [int] NOT NULL,

[UnitPrice] [money] NOT NULL,

[UnitPriceDiscount] [money] NOT NULL,

[LineTotal] AS (isnull(([UnitPrice]*((1.0)-[UnitPriceDiscount]))*[OrderQty],(0.0))),

[rowguid] [uniqueidentifier] ROWGUIDCOL NOT NULL,

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[ModifiedDate] [datetime] NOT NULL,

CONSTRAINT [PK_SalesOrderDetail_SalesOrderID_SalesOrderDetailID] PRIMARY KEY CLUSTERED ([SalesOrderID] ASC,

[SalesOrderDetailID] ASC)WITH (DATA_COMPRESSION = ROW) ON [PRIMARY]) ON [PRIMARY]GO The table includes the following index: CREATE NONCLUSTERED INDEX

[IX_SalesOrderDetail_ProductID] ON [Sales].[SalesOrderDetail] (

[ProductID] ASC) ON [PRIMARY]GO You need to enable row compression for the index. Which Transact-SQL statement or statements should you use?

- A. ALTER INDEX [IX_SalesOrderDetail_ProductID] ON [Sales].[SalesOrderDetail]REBUILD WITH (FILLFACTOR = 50)GO
- B. ALTER INDEX [IX_SalesOrderDetail_ProductID] ON [Sales].[SalesOrderDetail]REBUILD WITH (DATA_COMPRESSION = ROW) GO
- C. ALTER INDEX [IX_SalesOrderDetail_ProductID] ON [Sales].[SalesOrderDetail]REORGANIZE WITH (DATA COMPRESSION = ROW) GO
- D. ALTER INDEX [IX_SalesOrderDetail_ProductID] ON [Sales].[SalesOrderDetail]REORGANIZE WITH (DATA COMPRESSION = ON) GO
- E. ALTER INDEX [IX_SalesOrderDetail_ProductID] ON [Sales].[SalesOrderDetail]REBUILD WITH (ALLOW ROW LOCKS = ON, MAXDOP = 50)GO
- F. CREATE NONCLUSTERED INDEX [IX_SalesOrderDetail_ProductID] ON [Sales].[SalesOrderDetail] ([ProductID] ASC)WITH (DATA_COMPRESSION = ROW, SORT_IN_TEMPDB = OFF, DROP_EXISTING = ON) ON [PRIMARY]GO
- G. CREATE NONCLUSTERED INDEX [IX_SalesOrderDetail_ProductID] ON [Sales].[SalesOrderDetail] ([ProductID] ASC)WITH (DATA_COMPRESSION = ROW, SORT_IN_TEMPDB = ON, DROP_EXISTING = OFF) ON [PRIMARY]GO
- H. SELECT 50 AS fill_factorFROM sys.dm_db_index_operational_stats (DB_ID(), OBJECT_ID(N'Sales.SalesOrderDetail'), NULL, NULL) AS a JOIN sys.indexes AS b ON a.object_id = b.object_id AND a.index_id = b.index_idWHEREname='IX_SalesOrderDetail_ProductID'GO

Answer: B OR F

Question: 83

You need to write a query that allows you to rank total sales for each salesperson into four groups, where the top 25 percent of results are in group 1, the next 25 percent are in group 3, and the lowest 25 percent are in group 4. Which Transact-SQL statement should you use?

- A. NTILE(100)
- B. NTILE(25)
- C. NTILE(4)
- D. NTILE(1)

Answer: C

Question: 84

You administer a Microsoft SQL Server 2008 database that includes a table named Products. The Products table has the following schema: CREATE TABLE dbo.Products(

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ProductID nchar(4) NOT NULL,
ProductName nvarchar(50) NULL,
ProductDescription nvarchar(50) NULL,
UnitCost money NULL,
UnitPrice money NULL,
CONSTRAINT PK_Products PRIMARY KEY CLUSTERED (

ProductID ASC

)) GO You create a User-Defined Function (UDF) in the same database.

The UDF has the following schema: CREATE FUNCTION dbo.CalculateProductProfit(@ProductID nchar(4))RETURNS MoneyWITH SCHEMABINDINGASBEGIN

DECLARE @Profit Money;

SELECT @Profit = UnitPrice - UnitCost FROM dbo.Products WHERE ProductID = @ProductID; RETURN @Profit;END You need to meet the following requirements:

- ·Ensure that the UnitPrice column does not accept NULL values.
- ·Use the CalculateProductProfit() UDF.
- ·Avoid accidental drop or change of the Product table. Which three Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)
- A. DROP TABLE Products
- B. DROP FUNCTION CalculateProductProfit
- C. ALTER TABLE Products ALTER COLUMN UnitPrice Money NULL
- D. ALTER TABLE Products ALTER COLUMN UnitPrice Money NOT NULL
- E. CREATE FUNCTION dbo.CalculateProductProfit(@ProductID nchar(4))RETURNS MoneyWITH SCHEMABINDINGASBEGINDECLARE @Profit Money;SELECT @Profit = UnitPrice UnitCost FROM dbo.Products WHERE ProductID = @ProductID;RETURN @Profit;END
- F. CREATE FUNCTION dbo.CalculateProductProfit(@ProductID nchar(4))RETURNS $MoneyASBEGINDECLARE @Profit Money;SELECT @Profit = UnitPrice UnitCost FROM \\ dbo.ProductS WHERE ProductID = @ProductID;RETURN @Profit;END$
- G. CREATE FUNCTION CalculateProductProfit(@ProductID nchar(4))RETURNS MoneyWITH SCHEMABINDINGASBEGINDECLARE @Profit Money;SELECT @Profit = UnitPrice UnitCost FROM Products WHERE ProductID = @ProductID;RETURN @Profit;END

Answer: (B BEFORE D) AND (D BEFORE E) AND ONLY (B, D, E)

Question: 85

You are required to modify a table named Sales. Sales Order. The table has change tracking enabled on it. You need to disable change tracking prior to modifying the Sales. Sales Order table. Which Transact-SQL statement should you use?

- A. EXEC sys.sp_cdc_disable_db
- B. ALTER TABLE Sales. Sales Order DISABLE CHANGE TRACKING
- C. ALTER DATABASE ContosoSET CHANGE TRACKING = OFF





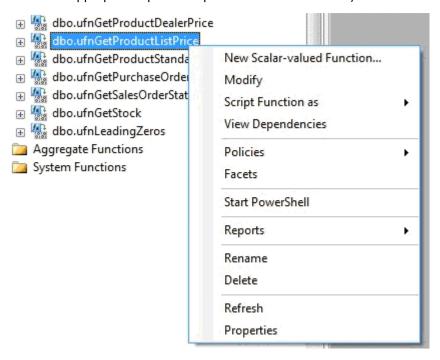
D. EXEC sys.sp_cdc_disable_table@source_schema = N'Sales',@source_name = N'SalesOrder',@capture_instance = N'Sales_SalesOrder'

Answer: B

Question: 86

You want to delete a User-Defined Function (UDF) named ufnGetProductListPrice from the AdventureWorks2008R2 database. You need to perform the following tasks before executing DROP FUNCTION on ufnGetProductListPrice:

- ·View a list of objects that depend on ufnGetProductListPrice.
- ·View a list of objects on which ufnGetProductListPrice depends. What should you do? (To answer, select the appropriate option or options in the answer area.)



Work Area

Answer: D

Question: 87

You are a database developer for your organization. You create an application that uses a Transact-SQL variable to store user input data. The database collation is case-insensitive. The variable is constructed as shown in the following statement: DECLARE @content varchar(64) SELECT @content = 'The Advanced Research Projects Agency Network (ARPANET), was the worlds first operational packet switching network and the core network of a set that came to compose the global Internet.' You need to implement a keyword search that meets the following requirements:

- ·Searches for the existence of the word ARPANET within the user-entered content.
- ·If the search term is found, the statement must return its starting position, and 0 otherwise.
- ·Performs a case-sensitive search for the given search term. Which Transact-SQL statement should you use?





- A. SELECT CHARINDEX(UPPER'arpanet', @content, 1)GO
- B. SELECT CHARINDEX('ARPANET', @content COLLATE Latin1 General CS AS)GO
- C. SELECT CHARINDEX('arpanet', @content)GO
- D. SELECT CHARINDEX('ARPANET', @content, COLLATE Latin1 General CS AS)GO
- E. SELECT CHARINDEX(@content, 'ARPANET', COLLATE Latin1_General_CS_AS)GO
- F. SELECT CHARINDEX('ARPANET', @content COLLATE Latin1_General_CS_AS, 0)GO
- G. SELECT CHARINDEX(@content COLLATE Latin1_General_CS_AS, 'ARPANET', 0)GO
- H. SELECT CHARINDEX(@content, 'ARPANET')GO

Answer: B OR F

Question: 88

You create a database named AdventureWorks. You want to create a new table to store customer reviews for all products within the database. The table must meet the following requirements:

- ·Stores information for the Product ID, Customer ID, Rating, and Reviews columns.
- ·The Reviews column can contain NULL values.
- ·The Reviews column is optimized to store NULL values. Which three Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)
- A. USE AdventureWorksGO
- B. ALTER TABLE ProductReviewsALTER COLUMN Review NOT NULL ADD SPARSE;GO
- C. ALTER TABLE ProductReviewsALTER COLUMN Review ADD SPARSE ;GO
- D. CREATE TABLE ProductReviews(CustomerID nchar(6) NOT NULL, ProductID nchar(6) NOT NULL, Rating smallint NOT NULL, Review varchar(500) NOT NULL, CONSTRAINT PK_ProductReviews PRIMARY KEY CLUSTERED(CustomerID ASC, ProductID ASC))GO
- E. CREATE TABLE ProductReviews(CustomerID nchar(6) NOT NULL, ProductID nchar(6) NOT NULL, Rating smallint NULL, Review varchar(500) NULL, CONSTRAINT PK_ProductReviews PRIMARY KEY CLUSTERED(CustomerID ASC, ProductID ASC))GO
- F. CREATE TABLE ProductReviews(CustomerID nchar(6) NOT NULL, ProductID nchar(6) NOT NULL, Rating smallint NOT NULL, Review varchar(500) SPARSE NOT NULL, CONSTRAINT PK_ProductReviews PRIMARY KEY CLUSTERED(CustomerID ASC, ProductID ASC))GO

Answer: (A BEFORE E) AND (E BEFORE C) AND ONLY (A, E, C)

Question: 89

You have a transaction that uses the repeatable read isolation level. This transaction causes frequent blocking problems. You need to reduce blocking. You also need to avoid dirty reads and non-repeatable reads. Which transaction isolation level should you use?

- A. SNAPSHOT
- **B. SERIALIZABLE**
- C. READ UNCOMMITTED
- D. READ COMMITTED



Answer: A

Question: 90

You have a table named Orders. OrderID is defined as an IDENTITY(1,1). OrderDate has a default value of 1. You need to write a query to insert a new order into the Orders table for CustomerID 45 with today's date and a cost of 89.00. Which statement should you use?

A. INSERT INTO Orders(OrderID, CustomerId, OrderDate, Cost)VALUES (1, 45, DEFAULT, 89.00);

B. INSERT INTO Orders(OrderID, CustomerId, OrderDate, Cost)VALUES (1, 45, CURRENT_TIMESTAMP, 89.00);

C. INSERT INTO Orders(Customerid, OrderDate, Cost)VALUES (45, CURRENT_TIMESTAMP, 89.00);

D. INSERT INTO Orders(CustomerId, OrderDate, Cost)VALUES (45, DEFAULT, 89.00);

Answer: C

Question: 91

A table named Shirts includes an XML column named SizeAndColors that contains the sizes and colors of each shirt, as shown in the following code segment. <shirt size="XS" colors="Red" /><shirt size="S" colors="Red, Blue" />...<shirt size="XL" colors="Blue, Green" /> You need to return a list of shirt colors available in a specific size. Which code segment should you use?

A. DECLARE @Size VARCHAR(10) = 'L' SELECT

ShirtStyleName, SizeAndColors.value ('/shirt[1]/@colors', 'color') FROM ShirtsWHERE SizeAndColors.exist('/shirt[@size=sql:variable("@Size")]') = 1

B. DECLARE @Size VARCHAR(10) = 'L' SELECT

ShirtStyleName, SizeAndColors.query('data(/shirt[@size=sql:variable("@Size")]/@colors)')FROM Shirts

C. DECLARE @Size VARCHAR(10) = 'L' SELECT ShirtStyleName, SizeAndColors.value('/shirt[1][@ size = sql:variable("@Size")]/@ colors, 'color')FROM Shirts

D. DECLARE @Size VARCHAR(10) = 'L' SELECT

ShirtStyleName,SizeAndColors.value('/shirt[1]/@colors','color')FROM ShirtsWHERE SizeAndColors.value('/shirt[1]/@size','varchar(20)') = @Size

Answer: B

Question: 92

You have the following XML document that contains Product information. DECLARE @prodList xml ='<ProductList xmlns="urn:Wide_World_Importers/schemas/Products">

<Product Name="Product1" Category="Food" Price="12.3" />

<Product Name="Product2" Category="Drink" Price="1.2" />

<Product Name="Product3" Category="Food" Price="5.1" />

...</ProductList>'; You need to return a list of products that contains the Product Name, Category, and Price of each product. Which query should you use?

A. SELECT

prod.value('.[1]/@Name','varchar(100)'),prod.value('.[1]/@Category','varchar(20)'),prod.value('.[1]/@Price','money')FROM @prodList.nodes('/ProductList/Product') ProdList(prod);



B. SELECT

prod.value('@Name','varchar(100)'),prod.value('@Category','varchar(20)'),prod.value('@Price','money')FROM @prodList.nodes('/ProductList/Product') ProdList(prod);

C. WITH XMLNAMESPACES(DEFAULT 'urn:Wide_World_Importers/schemas/Products')SELECT prod.value('./@Name','varchar(100)'),prod.value('./@Category','varchar(20)'),prod.value('./@Pric e','money')FROM @prodList.nodes('/ProductList/Product') ProdList(prod);

D. WITH XMLNAMESPACES(DEFAULT 'urn; Wide_World_Importers/schemas/Products' as o)SELECT prod.value('Name[1]','varchar(100)'),prod.value('Category[1]','varchar(20)'),prod.value('Price[1]',' money')FROM @prodList.nodes('/o:ProductList/o:Product') ProdList(prod);

Answer: C

Question: 93

You need to capture and record a workload for analysis by the Database Engine Tuning Advisor (DTA). Which tool should you use?

- A. Performance Monitor
- B. SQL Server Profiler
- C. DTA utility
- D. Activity Monitor

Answer: B

Question: 94

You have a table named Subscribers. You receive an updated list of subscribers. You need to remove subscribers that are no longer on the list. Which clause should you use to remove the subscribers from the table?

- A. WHEN NOT MATCHED BY TARGET
- B. WHEN MATCHED
- C. WHEN NOT MATCHED BY SOURCE
- D. WHEN NOT MATCHED

Answer: C

Question: 95

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You are a developer for a Microsoft SQL Server 2008 R2 database instance used to support a customer service application. You create tables named complaint, customer, and product as follows: CREATE TABLE [dbo].[complaint] ([ComplaintID] [int],

[ProductID] [int],

[CustomerID] [int],

[ComplaintDate] [datetime]); CREATE TABLE [dbo].[customer] ([CustomerID] [int],

[CustomerName] [varchar](100),

[Address] [varchar](200),

[City] [varchar](100),



[State] [varchar](50),

[ZipCode] [varchar](5)); CREATE TABLE [dbo].[product] ([ProductID] [int],

[ProductName] [varchar](100),

[SalePrice] [money],

[ManufacturerName] [varchar](100)); You need to write a query to sum the sales of all products that have complaints by the following entries:

- ·The product name
- ·The month the product had a complaint
- •The product name and the month the product had a complaint
- ·The grand total of all sales Which SQL query should you use?

A. SELECTc.CustomerName,COUNT(com.ComplaintID) AS ComplaintsFROMcustomer c INNER JOINcomplaint com ON c.CustomerID = com.CustomerIDWHERECOUNT(com.ComplaintID) > 10GROUP BYc.CustomerName;

B. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY p.ProductName, DATEPART(mm, com.ComplaintDate);

C. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY p.ProductName, ComplaintMonth;

D. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER
JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID
= c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName), (p.ProductName), ());

E. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID = c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName, p.ProductName), ());

F. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID =

c.CustomerIDWHEREcom.ComplaintDate > '09/01/2011' ANDAVG(p.SalePrice) >= 500

G. SELECTc.CustomerName,COUNT(com.ComplaintID) AS complaintsFROMcustomer c INNER JOINcomplaint com ON c.CustomerID = com.CustomerIDGROUP

BYc.CustomerNameHAVINGCOUNT(com.ComplaintID) > 10;

H. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID =

c.CustomerIDWHEREcom.ComplaintDate > '09/01/2011'GROUP

BYc.CustomerNameHAVINGAVG(p.SalePrice) >= 500

I. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY CUBE(p.ProductName, DATEPART(mm, com.ComplaintDate));

J. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY CUBE;

Answer: I



Question: 96

Your company's database contains Customers and Orders tables. You have been tasked to write a SELECT statement that outputs customer and order data as a valid and well-formed XML document. You are required to mix attribute and element based XML within the document. You have determined that using the FOR XML AUTO clause will not be suitable. You need to identify the correct FOR XML clause to meet the requirement. Which FOR XML statement should you use? (Each correct answer represents a complete solution. Choose two.)

- A. FOR BROWSE
- B. FOR XML RAW
- C. FOR XML PATH
- D. FOR XML EXPLICIT

Answer: C AND D

Question: 97

You have two tables named Customer and SalesOrder. You need to identify all customers that have not yet made any purchases and those that have only made orders with an OrderTotal less than 100. Which query should you use?

A. SELECT *FROM CustomerWHERE 100 > SOME (SELECT OrderTotalFROM SalesOrderWHERE Customer.CustomerID)

B. SELECT *FROM CustomerWHERE EXISTS (SELECT SalesOrder.CustomerIDFROM SalesOrder.WHERE Customer.CustomerID = SalesOrder.CustomerIDAND SalesOrder.OrderTotal <= 100)

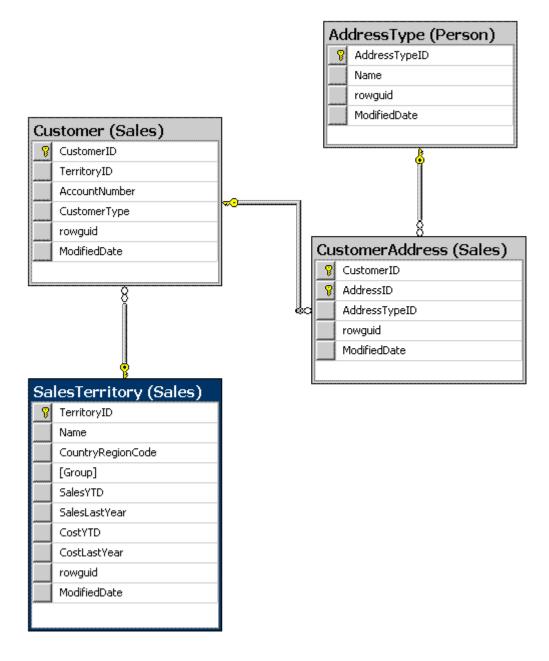
C. SELECT *FROM CustomerWHERE 100 > ALL (SELECT OrderTotalFROM SalesOrderWHERE Customer.CustomerID = SalesOrder.CustomerID)

D. SELECT *FROM CustomerWHERE 100 > (SELECT MAX(OrderTotal)FROM SalesOrderWHERE Customer.CustomerID = SalesOrder.CustomerID)

Answer: C

Question: 98





You administer a Microsoft SQL Server 2008R2 database that hosts a customer relationship management (CRM) application.

The application supports the following two types of customers as shown in the exhibit. (Click the Exhibit button.)

- ·Business customers who have shipments sent to their office locations
- ·Residential customers who have shipments sent to their home address You need to generate a list of residential customers who live outside North America. Which three Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)

A. DECLARE @CustomerListHomeAddress TABLE (CustomerId INT NOT NULL)INSERT INTO@CustomerListHomeAddressSELECTCustomerIDFROMSales.CustomerAddressWHEREAddres





sTypeID = (SELECT AddressTypeID FROM Person.AddressType WHERE Name = 'Home')

B. DECLARE @CustomerListHomeAddress TABLE (CustomerId INT NOT NULL)INSERT

INTO@Customer List Home Address SELECT Customer IDFROM Sales. Customer Address WHERE EXISTS and the contract of the contract

(SELECT AddressTypeID FROM Person.AddressType WHERE Name = 'Home')

C. DECLARE @CustomerListNorthAmerica TABLE (Customerld INT NOT NULL)INSERT

INTO @Customer List North America SELECT Customer IDFROM Sales. Customer EXCEPT (SELECT Customer List North America SELECT Customer List North America SEL

SalesTerritory.TerritoryID)

D. DECLARE @CustomerListNorthAmerica TABLE (CustomerId INT NOT NULL)INSERT

INTO @Customer List North America SELECT Customer IDFROM Sales. Customer INTERSECT (SELECT Customer IDFROM Sales) and the second customer IDFROM Sales and th

SalesTerritory.TerritoryIDWHERESalesTerritory.[Group] = 'North America')

 $E.\ SELECTDISTINCT\ Home Address. Customer IdFROM@Customer List Home Address\ AS$

HomeAddressWHERECustomerId IN (SELECT CustomerID FROM @CustomerListNorthAmerica)

 $F.\ SELECTDISTINCT\ Home Address. Customer IdFROM@Customer List Home Address\ AS$

 $\label{thm:local_equation} Home Address WHERE Customer ID\ \ IN\ (SELECT\ Customer ID\ FROM\ \ \)$

@CustomerListNorthAmerica)

Answer: (A BEFORE D) AND (D BEFORE F) AND ONLY (A, D, F)

Question: 99

You are tasked to analyze blocking behavior of the following query: SET TRANSACTION ISOLATION LEVEL SERIALIZABLEWITH Customers AS (

SELECT *

FROM Customer), Sales Total AS (

SELECT CustomerId, SUM(OrderTotal) AS AllOrderTotal

FROM SalesOrder)SELECT CustomerId, AllOrderTotalFROM

SalesTotalWHERE AllOrderTotal > 10000.00; You need to determine if other queries that are using the Customer table will be blocked by this query. You also need to determine if this query will be blocked by other queries that are using the Customer table. What behavior should you expect?

A. The other queries will not be blocked by this query. This query will not be blocked by the other queries.

B. The other queries will be blocked by this query. This query will not be blocked by the other queries.

C. The other queries will not be blocked by this query. This query will be blocked by the other queries.

D. The other queries will be blocked by this query. This query will be blocked by the other queries.

Answer: A

Question: 100

You administer a Microsoft SQL Server 2008 R2 database that has a table named Customer.

The table has the following definition: CREATE TABLE Customer

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(CustomerID int NOT NULL PRIMARY KEY,

FirstName varchar(255) NOT NULL,

LastName varchar(255) NOT NULL,

CustomerAddress varchar(1024)) The database also has a table named PreferredCustomerList.

Data will be added to the PreferredCustomerList table regularly.

The PreferredCustomerList table has the following definition: CREATE TABLE

PreferredCustomerList

(FirstName varchar(255) NOT NULL,

LastName varchar(255) NOT NULL) You need to create a view that returns all records and columns of the Customer table that are also present in the PreferredCustomerList table. Which

Transact-SQL statement should you use?

A. CREATE VIEW vw_ValidCustomerASSELECT FirstName,LastNameFROM Customer

cEXCEPTSELECT FirstName,LastNameFROM PreferredCustomerList

B. CREATE VIEW vw ValidCustomerASSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cINNER JOIN

PreferredCustomerList celON c.Firstname = cel.FirstNameAND c.LastName = cel.LastName

C. CREATE VIEW vw_ValidCustomerASSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cLEFT OUTER JOIN

PreferredCustomerList celON c.Firstname = cel.FirstNameAND c.LastName = cel.LastNameWHERE cel.FirstName IS NULL

D. CREATE VIEW vw ValidCustomerASSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cINNER JOIN

PreferredCustomerList celON c.Firstname = cel.FirstNameINNER JOIN PreferredCustomerList

celON c.LastName = cel.LastName

E. CREATE VIEW vw ValidCustomerASSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cEXCEPTSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cINNER JOIN

 $\label{eq:preferredCustomerList} PreferredCustomerList\ celON\ c. Firstname = cel. FirstNameAND\ c. LastName = cel. LastName$

F. CREATE VIEW vw_ValidCustomerASSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cINTERSECTSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cINNER JOIN

PreferredCustomerList celON c.Firstname = cel.FirstNameAND c.LastName = cel.LastName

G. CREATE VIEW vw_ValidCustomerASSELECT

 $c. Customer ID, c. First Name, c. Last Name, c. Customer Address FROM \ Customer \ cLEFT \ OUTER \ JOIN \\ Preferred Customer List \ cel ON \ c. First Name = \ cel. First Name AND \ c. Last Name = \ cel. Last Name WHERE \ Address Customer \ Address \ Addres$

cel.LastName IS NULL

H. CREATE VIEW vw ValidCustomerASSELECT

CustomerID,FirstName,LastName,CustomerAddressFROM Customer cEXCEPTSELECT CustomerID,FirstName,LastName,CustomerAddressFROM PreferredCustomerList

Answer: B OR F

Question: 101

You have a database server that has four quad-core processors. This database server executes





complex queries that are used to generate reports. You need to force a query to use only one processor core without affecting other queries. Which option should you use?

- A. OPTION (MAXDOP 4)
- B. OPTION (MAXDOP 0)
- C. OPTION (MAXDOP 16)
- D. OPTION (MAXDOP 1)

Answer: D

Question: 102

You need to implement a common table expression (CTE). Which code segment should you use?

A. SELECT Year, Region, Total FROM (SELECT Year, Region, SUM(OrderTotal) AS Total FROM

Orders GROUP BY Year, Region) AS [Sales By Year];

B. CREATE VIEW SalesByYearASSELECT Year, Region, SUM (OrderTotal) FROM OrdersGROUP BY Year, Region; GO SELECT Year, Region, Total FROM SalesByYear;

C. WITH SalesByYear(Year,Region,Total)AS (SELECT Year,Region,SUM(OrderTotal)FROM OrdersGROUP BY Year,Region) SELECT Year,Region,TotalFROM SalesByYear;

D. SELECT DISTINCT Year, Region, (SELECT SUM(OrderTotal) FROM Orders Sales By Year WHERE Orders. Year = Sales By Year. YEARAND Orders. Region = Sales By Year. Region) AS [Total] FROM Orders;

Answer: C

Question: 103

You have a single CLR assembly in your database. The assembly only references blessed assemblies from the Microsoft .NET Framework and does not access external resources. You need to deploy this assembly by using the minimum required permissions. You must ensure that your database remains as secure as possible. Which options should you set?

- A. PERMISSION SET = SAFE TRUSTWORTHY OFF
- B. PERMISSION_SET = SAFE TRUSTWORTHY ON
- C. PERMISSION_SET = UNSAFE TRUSTWORTHY ON
- D. PERMISSION SET = EXTERNAL ACCESS TRUSTWORTHY OFF

Answer: A

Question: 104

You have a table named ProductCounts that contains 1000 products as well as the number of units that have been sold for each product. You need to write a query that displays the top 5% of products that have been sold most frequently. Which Transact-SQL code segments should you use?

A. WITH Percentages AS (SELECT *, NTILE(5) OVER (ORDER BY UnitsSold) AS groupingColumnFROM ProductCounts)SELECT *FROM percentagesWHERE groupingColumn =1;

B. WITH Percentages AS (SELECT *, NTILE(20) OVER (ORDER BY UnitsSold) AS groupingColumnFROM ProductCounts)SELECT *FROM PercentagesWHERE groupingColumn = 20;

C. WITH Percentages AS (SELECT *, NTILE(20) OVER (ORDER BY UnitsSold) AS groupingColumnFROM ProductCounts)SELECT *FROM PercentagesWHERE groupingColumn = 1;





D. WITH Percentages AS (SELECT *, NTILE(5) OVER (ORDER BY UnitsSold) AS groupingColumnFROM ProductCounts)SELECT *FROM PercentagesWHERE groupingColumn = 5;

Answer: B

Question: 105

You have two tables named MainTable and ArchiveTable. You need to move data older than 30 days from MainTable into ArchiveTable. Which code segment should you use?

A. INSERT INTO ArchiveTableSELECT *FROM MainTableWHERE RecordDate < DATEADD(D,-30,GETDATE())

B. DELETE FROM MainTableOUTPUT DELETED.* INTO ArchiveTableWHERE RecordDate < DATEADD(D,-30,GETDATE())

C. DELETE FROM MainTableOUTPUT deleted.*WHERE RecordDate < DATEADD(D,-30,GETDATE())

D. INSERT INTO ArchiveTableSELECT *FROM MainTableWHERE RecordDate < DATEADD(D,-30,GETDATE()) DELETE FROM MainTable

Answer: B

Question: 106

Your database contains sales information for millions of orders. You need to identify the orders with the highest average unit price and an order total greater than 10,000. The list should contain no more than 20 orders. Which query should you use?

A. SELECT TOP (20)o.SalesOrderId,o.OrderDate,o.Total,SUM(od.QTY * od.UnitPrice) / SUM(od.Qty) AS [AvgUnitPrice]FROM Sales.SalesOrderHeader oJOIN SALES.SalesOrderDetail odON o.SalesOrderId = od.SalesOrderId WHERE o.Total> 10000GROUP BY o.SalesOrderId, o.OrderDate, o.TotalORDER BY AvgUnitPrice;

B. SELECT TOP (20) o.SalesOrderId,o.OrderDate,o.Total,(SELECT SUM(od.Qty * od.UnitPrice) / SUM(od.Qty)FROM Sales.SalesOrderDetail odWHERE o.SalesOrderId = od.SalesOrderId) AS [AvgUnitPrice]FROM Sales.SalesOrderHeader oWHERE o.Total > 10000ORDER BY o.Total DESC,AvgUnitPrice;

C. SELECT TOP (20) o.SalesOrderId,o.OrderDate,o.Total,(SELECT SUM(od.Qty * od.UnitPrice) / SUM(od.QTY)FROM Sales.SalesOrderDetail odWHERE o.SalesOrderId = od.SalesOrderId) AS [AvgUnitPrice]FROM Sales.SalesOrderHeader oWHERE o.Total> 10000ORDER BY AvgUnitPrice DESC;

D. SELECT TOP (20)o.SalesOrderId,o.OrderDate,o.Total,SUM(od.Qty * od.UnitPrice) / SUM(od.Qty) AS [AvgUnitPrice]FROM Sales.SalesOrderHeader oJOIN Sales.SalesOrderDetail odON o.SalesOrderId = od.SalesOrderId WHERE o.Total> 10000GROUP BY o.SalesOrderId, o.OrderDate, o.TotalORDER BY Total DESC;

Answer: C

Question: 107

Note: This question is part of a series of questions that use the same set of answer choices. Each answer choice may be used once, more than once, or not at all. You are a developer for a Microsoft SQL Server 2008 R2 database instance used to support a customer service application.





You create tables named complaint, customer, and product as follows: CREATE TABLE

[dbo].[complaint] ([ComplaintID] [int],

[ProductID] [int],

[CustomerID] [int],

[ComplaintDate] [datetime]); CREATE TABLE [dbo].[customer] ([CustomerID] [int],

[CustomerName] [varchar](100),

[Address] [varchar](200),

[City] [varchar](100),

[State] [varchar](50),

[ZipCode] [varchar](5)); CREATE TABLE [dbo].[product] ([ProductID] [int],

[ProductName] [varchar](100),

[SalePrice] [money],

[ManufacturerName] [varchar](100)); You need to write a query to return all customer names and total number of complaints for customers who have made more than 10 complaints. Which SQL query should you use?

A. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID = c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName, p.ProductName), ());

B. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID =

c.CustomerIDWHEREcom.ComplaintDate > '09/01/2011'GROUP

BYc.CustomerNameHAVINGAVG(p.SalePrice) >= 500

 $\hbox{C. SELECTc.} Customer \hbox{Name,AVG} (p. Sale Price) \ AS \ Sales FROM product \ p \ INNER \ JOIN complaint \ com$

ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID =

 $c. Customer IDWHERE com. Complaint Date > '09/01/2011' \ ANDAVG (p. Sale Price) >= 500$

D. SELECTc.CustomerName,COUNT(com.ComplaintID) AS complaintsFROMcustomer c INNER JOINcomplaint com ON c.CustomerID = com.CustomerIDGROUP

BYc.CustomerNameHAVINGCOUNT(com.ComplaintID) > 10;

E. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY p.ProductName, ComplaintMonth;

F. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY p.ProductName, DATEPART(mm, com.ComplaintDate);

G. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID INNER JOINcustomer c ON com.CustomerID = c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName), (p.ProductName), ());

H. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY CUBE(p.ProductName, DATEPART(mm, com.ComplaintDate));

I. SELECTp.ProductName,DATEPART(mm, com.ComplaintDate) ComplaintMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOINcomplaint com ON p.ProductID = com.ProductID GROUP BY CUBE;

J. SELECTc.CustomerName,COUNT(com.ComplaintID) AS ComplaintsFROMcustomer c INNER



JOINcomplaint com ON c.CustomerID = com.CustomerIDWHERECOUNT(com.ComplaintID) > 10GROUP BYc.CustomerName;

Answer: D

Question: 108

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You administer a Microsoft SQL Server 2008 database for an inventory management system.

The application contains a product table that has the following definition: CREATE TABLE

[Production].[Product](

[ProductID] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](50) NOT NULL,

[ProductNumber] [nvarchar](25) NOT NULL,

[Color] [nvarchar](15) NULL,

[Class] [nchar](2) NULL,

[Style] [nchar](2) NULL,

[Active] [bit] NOT NULL,

[ModifiedDate] [datetime] NOT NULL,

CONSTRAINT [PK_Product_ProductID] PRIMARY KEY CLUSTERED

[ProductID] ASC

(

-) ON [PRIMARY]) ON [PRIMARY]GO You want to add a new field to the Product table to meet the following requirements:
- ·Allows user-specified information that will be added to records in the Product table.
- ·Supports the largest storage size needed for the field.
- ·Uses the smallest data type necessary to support the domain of values that will be entered by users. You need to add a field named User_Data_1 to support only values that are 1 or 0. Which SQL statement should you use?
- A. ALTER TABLE [Production].[Product] ADD [User_Data_1] SMALLDATETIME
- B. ALTER TABLE [Production].[Product] ADD [User_Data_1] NUMERIC(11,6)
- C. ALTER TABLE [Production].[Product] ADD [User_Data_1] TINYINT
- D. ALTER TABLE [Production].[Product] ADD [User_Data_1] NVARCHAR(100)
- E. ALTER TABLE [Production].[Product] ADD [User Data 1] BIGINT
- F. ALTER TABLE [Production].[Product] ADD [User_Data_1] SMALLMONEY
- G. ALTER TABLE [Production]. [Product] ADD [User Data 1] NCHAR(100)
- H. ALTER TABLE [Production].[Product] ADD [User_Data_1] DATE
- I. ALTER TABLE [Production].[Product] ADD [User_Data_1] VARCHAR(100)
- J. ALTER TABLE [Production].[Product] ADD [User Data 1] DATETIME
- K. ALTER TABLE [Production].[Product] ADD [User Data 1] SMALLINT
- L. ALTER TABLE [Production].[Product] ADD [User Data 1] INT
- M. ALTER TABLE [Production].[Product] ADD [User_Data_1] NUMERIC(6,11)
- N. ALTER TABLE [Production]. [Product] ADD [User Data 1] DATETIME2
- O. ALTER TABLE [Production]. [Product] ADD [User Data 1] CHAR(100)





P. ALTER TABLE [Production].[Product] ADD [User_Data_1] BIT

Q. ALTER TABLE [Production]. [Product] ADD [User Data 1] NUMERIC(5,6)

R. ALTER TABLE [Production].[Product] ADD [User_Data_1] MONEY

Answer: P

Question: 109

You are responsible for a SQL Server database.

You require the tables to be added or altered only on the first day of the month.

You need to ensure that if the tables are attempted to be modified or created on any other day, an error is received and the attempt is not successful. Which Transact-SQL statement should you use?

A. CREATE TRIGGER TRG_TABLES_ON_FIRSTON DATABASE FOR CREATE_TABLE,ALTER_TABLEAS IF DATEPART(day,getdate())>1BEGINRAISERROR ('Must wait til next month.', 16, 1) END
B. CREATE TRIGGER TRG_TABLES_ON_FIRSTON DATABASE FOR CREATE_TABLEAS IF
DATEPART(day,getdate())>1BEGINRAISERROR ('Must wait til next month.', 16, 1) END
C. CREATE TRIGGER TRG_TABLES_ON_FIRSTON ALL SERVER FOR ALTER_DATABASEAS IF
DATEPART(day,getdate())>1BEGINROLLBACK RAISERROR ('Must wait til next month.', 16, 1)END
D. CREATE TRIGGER TRG_TABLES_ON_FIRSTON DATABASE FOR CREATE_TABLE,ALTER_TABLEAS IF
DATEPART(day,getdate())>1BEGINROLLBACK RAISERROR ('Must wait til next month.', 16, 1) END

Answer: D

Question: 110

You have a table named Employees. You want to identify the supervisor to which each employee reports. You write the following query. SELECT e.EmloyeeName AS [EmployeeName], s.EmployeeName AS [SuperVisorName]FROM Employees e You need to ensure that the query returns a list of all employees and their respective supervisor. Which join clause should you use to complete the query?

A. RIGHT JOIN Employees sON e.ReportsTo = s.EmployeeId

B. INNER JOIN Employees sON e.EmployeeId = s.EmployeeId

C. LEFT JOIN Employees sON e.ReportsTo = s.EmployeeId

D. LEFT JOIN Employees sON e.EmployeeId = s.EmployeeId

Answer: C

Question: 111

You have a table named Stores that has an XML column named OpenHours. This column contains the opening and closing times.

<hours dayofWeek="Monday" open="8:00" closed="18:00" />

<hours dayofWeek="Tuesday" open="8:00" closed="18:00" />

. . .

<hours dayofWeek="Saturday" open="8:00" closed="18:00" /> You need to write a query that returns a list of stores and their opening time for a specified day. Which code segment should you use?





A. DECLARE @Day VARCHAR(10) = 'Tuesday' SELECT

StoreName,OpenHours.value('/hours[1][@dayofWeek=sql:variable("@Day")]/@open','time')FRO M Stores

B. DECLARE @Day VARCHAR(10) = 'Tuesday' SELECT

StoreName,OpenHours.value('/hours[1]/@open','time')FROM StoresWHERE

OpenHours.exist('/hours[@dayofWeek=sql:variable("@Day")]') = 1

C. DECLARE @Day VARCHAR(10) = 'Tuesday' SELECT

Storename, OpenHours.query('data(/hours[@dayofWeek=sql:variable("@Day")]/@open)')FROM Stores

D. DECLARE @Day VARCHAR(10) = 'Tuesday' SELECT

StoreName,OpenHours.value('/hours[1]/@open','time')FROM StoresWHERE

OpenHours.value('/hours[1]/@dayofWeek','varchar(20)') = @Day

Answer: C

Question: 112

Results Messages		
Ranking	StateProvinceName	TotalOrders
1	California	5466
2 2	Washington	2754
3 3	Oregon	1297
4 4	Illinois	6
5 4	Ohio Ohio	6
6 6	Florida	5
7 6	Texas	5
8 8	Georgia	4

You administer a Microsoft SQL Server 2008 database that contains a table named dbo.SalesOrders. The table has the following definition: CREATE TABLE [dbo].[SalesOrder](

[SalesOrderNumber] NVARCHAR(20) NOT NULL,

[FullDateAlternateKey] DATETIME NOT NULL,

[CustomerName] NVARCHAR(100) NOT NULL,

[AddressLine] NVARCHAR(120) NOT NULL,

[City] NVARCHAR(30) NOT NULL,

[StateProvinceName] NVARCHAR(50) NOT NULL,

[CountryName] NVARCHAR(50) NOT NULL,

[SalesAmount] MONEY NOT NULL,

CONSTRAINT [PK_SalesOrderNumber] PRIMARY KEY CLUSTERED (

[SalesOrderNumber] ASC) ON [PRIMARY]) ON [PRIMARY]GO The SalesOrder table contains one million rows. You want to create a report that meets the following requirements:

- ·Only the states of the Unites States are ranked against each other based on the total number of orders received from each state.
- ·When two states have the same rank, the rank of the subsequent state is one plus the number of ranks that come before that row, as shown in the exhibit. (Click the Exhibit button.) You need to





execute a Transact-SQL query to generate the report. Which Transact-SQL query should you use?

A. SELECTRANK() OVER (ORDER BY StateProvinceName DESC) AS

Ranking, StateProvinceName, TotalOrdersFROM (SELECT StateProvinceName, count (*) AS

TotalOrdersFROMdbo.SalesOrderWHERECountryName='United States'GROUP

BYStateProvinceName) AS

B. SELECTDENSE_RANK() OVER (ORDER BY StateProvinceName DESC) AS

Ranking, State Province Name, Total Orders FROM (SELECT State Province Name, count (*) AS

Total Orders FROM dbo. Sales Order WHERE Country Name = 'United States' GROUP

BYStateProvinceName) AS

C. SELECTDENSE RANK() OVER (ORDER BY TotalOrders DESC) AS

Ranking, StateProvinceName, TotalOrdersFROM (SELECTStateProvinceName, count (*) AS

TotalOrdersFROMdbo.SalesOrderWHERECountryName='United States'GROUP

BYStateProvinceName) AS

D. SELECTRANK() OVER (ORDER BY TotalOrders DESC) AS

Ranking, State Province Name, Total Orders FROM (SELECT State Province Name, count (*) AS

TotalOrdersFROMdbo.SalesOrderWHERECountryName='United States'GROUP

BYStateProvinceName) AS

E. SELECTRANK() OVER (PARTITION BY CountryName ORDER BY TotalOrders DESC) AS

Ranking, State Province Name, Total Orders FROM (SELECT Country Name, State Province Name, count (*)

AS TotalOrdersFROMdbo.SalesOrderGROUP BYCountryName,StateProvinceName) AS

F. SELECTDENSE_RANK() OVER (PARTITION BY CountryName ORDER BY TotalOrders DESC) AS

Ranking, StateProvinceName, TotalOrdersFROM(SELECTCountryName, StateProvinceName, count(*)

AS TotalOrdersFROMdbo.SalesOrderGROUP BYCountryName,StateProvinceName) AS

G. SELECTRANK() OVER (PARTITION BY CountryName ORDER BY TotalOrders DESC) AS

Ranking, StateProvinceName, TotalOrdersFROM(SELECTCountryName, StateProvinceName, count(*)

 $AS\ Total Orders FROMd bo. Sales Order WHERE Country Name = 'United\ States' GROUP$

BYCountryName,StateProvinceName) AS

H. SELECTDENSE_RANK() OVER (PARTITION BY CountryName ORDER BY TotalOrders DESC) AS

Ranking, StateProvinceName, TotalOrdersFROM(SELECTCountryName, StateProvinceName, count(*)

AS TotalOrdersFROMdbo.SalesOrderWHERECountryName='United States'GROUP

BYCountryName,StateProvinceName) AS

Answer: D OR G

Question: 113

You have a table named Orders. You have been tasked to modify your company's main database to remove all inactive order rows. You are developing a stored procedure that will enable you to delete these rows. You have written the following code segment to accomplish this task.

01 BEGIN TRY 02

DECLARE @RowCount INT = 1000 03

WHILE @RowCount = 1000 04

BEGIN 05

DELETE TOP (1000) FROM Orders WHERE Status = 'Inactive';06

SET @RowCount = @@ROWCOUNT 07



...08

END 09 END TRY 10 BEGIN CATCH 11

PRINT ERROR_MESSAGE()12 END CATCH

You need to insert a Transact-SQL statement that will notify you immediately after each batch of rows is deleted.

Which Transact-SQL statement should you insert at line 07?

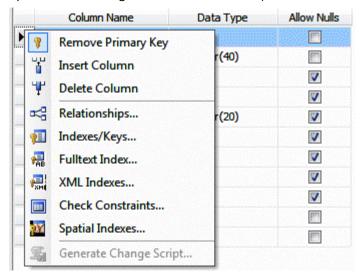
- A. RAISERROR ('Deleted %i rows', 11, 1, @RowCount) WITH NOWAIT
- B. RAISERROR ('Deleted %i rows', 16, 1, @RowCount)
- C. RAISERROR ('Deleted %i rows', 6, 1, @RowCount)
- D. RAISERROR ('Deleted %i rows', 10, 1, @RowCount) WITH NOWAIT

Answer: D

Question: 114

You administer a Microsoft SQL Server 2008 database that contains two tables named Products and Suppliers. You want to implement referential integrity between the Products and Suppliers tables. You want to create a new Foreign Key constraint on the Products table. The new Foreign Key constraint must meet the following requirements:

- ·It must be created on the SupplierID column on the Products table to refer to the SupplierID column on the Suppliers table.
- ·It must prevent the deletion of rows from the Suppliers table whenever an attempt is made to delete a Supplier by using a SupplierID referenced by Foreign Keys in existing rows in the Products table. You need to be able to create a new Foreign Key constraint by using Microsoft SQL Server Management Studio. What should you do? (To answer, configure the appropriate option or options in the dialog box in the answer area.)



Work Area

Answer: D

Question: 115



```
ParentSiteURL
                                                  SiteURL
NULL
http://www.contoso.com/index.htm
http://www.contoso.com/index.htm
                                                  http://www.contoso.com/finance/index.htm
http://www.contoso.com/finance/index.htm
                                                  http://www.contoso.com/finance/reports/index.htm
http://www.contoso.com/finance/index.htm
                                                  http://www.contoso.com/finance/main/index.htm
http://www.contoso.com/index.htm
                                                  http://www.contoso.com/marketing/index.htm
http://www.contoso.com/marketing/index.htm
                                                  http://www.contoso.com/marketing/reports/index.htm
http://www.contoso.com/marketing/index.htm
                                                  http://www.contoso.com/marketing/main/index.htm
http://www.contoso.com/index.htm
                                                  http://www.contoso.com/sales/index.htm
You have the following xml: <Site URL="http://www.contoso.com/index.htm">
<Site URL="http://www.contoso.com/finance/index.htm">
<Site URL="http://www.contoso.com/finance/reports/index.htm" />
<Site URL="http://www.contoso.com/finance/main/index.htm" />
</Site>
<Site URL="http://www.contoso.com/marketing/index.htm">
<Site URL="http://www.contoso.com/marketing/reports/index.htm" />
<Site URL="http://www.contoso.com/marketing/main/index.htm"/>
</Site>
<Site URL="http://www.contoso.com/sales/index.htm" /></Site> You are tasked to guery the
sites listed in the xml by using OPENXML. The results will have two columns, ParentSiteURL and
SiteURL. The ParentSiteURL column should contain the URL attribute of the parent site. The
SiteURL column should contain the URL attribute of the site itself. The output should look like as
shown in the following the exhibit. (Click the Exhibit button.) You need to write the OPENXML
query. Which Transact-SQL statement should you use?
A. SELECT ParentSiteURL, SiteURLFROM OPENXML (@XMLDocHandle, '//@URL', 1)WITH
(ParentSiteURL nVarChar(512) '.../URL', SiteURL nVarChar(512) 'URL')
B. SELECT ParentSiteURL, SiteURLFROM OPENXML (@XMLDocHandle, '//URL', 1)WITH
(ParentSiteURL nVarChar(512) '../@URL', SiteURL nVarChar(512) '@URL')
C. SELECT ParentSiteURL, SiteURLFROM OPENXML (@XMLDocHandle, '//@Site', 1)WITH
(ParentSiteURL nVarChar(512) '../URL', SiteURL nVarChar(512) 'URL')
D. SELECT ParentSiteURL, SiteURLFROM OPENXML (@XMLDocHandle, '//Site', 1)WITH
(ParentSiteURL nVarChar(512) '../@URL', SiteURL nVarChar(512) '@URL')
```

Answer: D

Question: 116

You create and populate two tables by using the following Transact-SQL statements: CREATE TABLE CurrentStudents (LastName VARCHAR(50),

FirstName VARCHAR(50),

Address VARCHAR(100),

Age INT); INSERT INTO CurrentStudents

VALUES ('Fritz', 'David', '181 Kline Street', 14)

,('Reese', 'Paul', '4429 South Union', 14)

,('Brown', 'Jake', '5401 Washington Ave',14)

,('Smith', 'Tom', '124 Water St', 14)



```
,('Holtz', 'Mary', '984 Mass Ct', 14)
('Robbins', 'Jan', '4449 Union Ave', 14)
('Larsen', 'Frank', '5812 Meadow St', 14)
,('Bishop', 'Cathy', '14429 Skyhigh Ave', 14)
('Francis', 'Thomas', '15401 120th St', 14)
CREATE TABLE NewYearRoster(LastName VARCHAR(50),
FirstName VARCHAR(50),
Address VARCHAR(100),
Age INT);INSERT INTO NewYearRoster
VALUES ('Fritz', 'David', '181 Kline Street', 15)
,('Reese', 'Paul', '1950 Grandview Place', 15)
,('Adams', 'Wilbur', '4231 W. 93rd', 15)
,('Adams', 'Norris', '100 1st Ave', 15)
('Thomas', 'Paul', '18176 Soundview Dr', 15)
('Linderson', 'Danielle', '941 W. 37 Ave', 15)
('Moore', 'Joshua', '2311 10st Ave', 15)
('Dark', 'Shelby', '1987 Fifth Ave', 15)
('Scharp', 'Mary', '1902 W. 303rd', 15)
,('Morris', 'Walt', '100 12st St', 15); You run the following MERGE statement to update, insert and
delete rows in the CurrentStudents table MERGE TOP (3) CurrentStudents AS T USING
NewYearRoster AS SON S.LastName = T.LastName AND S.FirstName = T.FirstName WHEN
MATCHED AND NOT (T.Age = S.Age OR T.Address = S.Address) THEN
UPDATE SET Address = S.Address,
Age = S.AgeWHEN NOT MATCHED BY TARGET THEN
INSERT (LastName, FirstName, Address, Age)
VALUES (S.LastName, S.FirstName, S.Address, S.Age) WHEN NOT MATCHED BY SOURCE THEN
DELETE; You need to identify the total number of rows that are updated, inserted, and deleted in
the CurrentStudent table. Which total number of rows should you choose?
```

A. 9

B. 0

C. 3

D. 6

Answer: C

Question: 117

You administer a Microsoft SQL Server 2008 R2 database instance named AdventureWorks. A user who has the db_datareader permissions on the AdventureWorks database wants to view the estimated execution plan XML output document for the following query:

SELECT * FROM Sales.SalesOrderHeaderWHERE OnlineOrderFlag = 1 AND SubTotal > 500 You need to ensure that the user can view the document. Which two actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

A. Grant the following permission to the user: GRANT SHOWPLAN





- B. Grant the following permission to the user: GRANT EXECUTE ON XML SCHEMA COLLECTION
- C. Grant the following permission to the user: GRANT SELECT ON

OBJECT::Sales.SalesOrderHeader

- D. Request the user to run the following command: SET SHOWPLAN XML ON
- E. Request the user to run the following command: SET SHOWPLAN_ALL ON
- F. Request the user to run the following command: SET STATISTICS IO ON
- G. Request the user to run the following command: SET STATISTICS XML ON

Answer: (A BEFORE D) AND ONLY (A, D)

Question: 118

You administer a Microsoft SQL Server 2008 instance that has two databases. The first database named AdventureWorks contains a table named Sales. Sales Orders.

The Sales.SalesOrders table has the following definition: CREATE TABLE [Sales].[SalesOrderDetail]([SalesOrderDetailID] [int] IDENTITY(1,1) NOT NULL,

[ProductID] [int] NOT NULL,

[OrderQty] [smallint] NOT NULL,

[OrderDate] [datetime] NOT NULL,

CONSTRAINT [PK_SalesOrderDetail] PRIMARY KEY CLUSTERED

(

[SalesOrderDetailID] ASC

)) ON [PRIMARY] The second database named AdventureWorksDW contains a table named dbo.SalesOrderSummary.

The dbo.SalesOrderSummary table has the following definition: CREATE TABLE

[dbo].[SalesOrderSummary] (

ProductID [int] NOT NULL,

OrderQty [int] NOT NULL,

OrderYear [int] NOT NULL,

CONSTRAINT [PK_SalesOrderSummary] PRIMARY KEY CLUSTERED

(

OrderYear ASC.

ProductID ASC

-)) ON [PRIMARY] You plan to migrate sales data for the year 2011 from the SalesOrderDetail table into the SalesOrderSummary table. You need to ensure that the following requirements are met:
- ·All data is removed from the SalesOrderSummary table before migrating data.
- ·A subset of data is migrated from the SalesOrderDetail table in the AdventureWorks database to the SalesOrderSummary table in the AdventureWorksDW database.
- ·Migrated data summarizes order quantity in one row per product for the year 2011. Which three Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)
- A. USE AdventureWorksGO
- B. USE AdventureWorksDWGO
- C. TRUNCATE TABLE Sales.SalesOrderDetailGO



D. TRUNCATE TABLE dbo.SalesOrderSummaryGO

E. MERGE dbo.SalesOrderSummary AS dstUSING (SELECTProductID,SUM(OrderQty) AS OrderQty,YEAR(OrderDate) AS

OrderYearFROMAdventureWorks.Sales.SalesOrderDetailWHEREYEAR(OrderDate)=2011GROUP BYProductID,YEAR(OrderDate)) AS srcON dst.ProductID = src.ProductIDWHEN NOT MATCHED BY SOURCE THENINSERT(ProductID, OrderQty, OrderYear)VALUES(src.ProductID, src.OrderQty, src.OrderYear);GO

F. MERGE dbo.SalesOrderSummary AS dstUSING (SELECTProductID,SUM(OrderQty) AS OrderQty,YEAR(OrderDate) AS

OrderYearFROMAdventureWorks.Sales.SalesOrderDetailWHEREYEAR(OrderDate)=2011GROUP BYProductID,YEAR(OrderDate)) AS srcON dst.ProductID = src.ProductIDWHEN MATCHED THENDELETE;GO

G. INSERT dbo.SalesOrderSummary (ProductID, OrderQty,

OrderYear)SELECTProductID,SUM(OrderQty) AS OrderQty,YEAR(OrderDate) AS OrderYear FROMAdventureWorks.Sales.SalesOrderDetailWHEREYEAR(OrderDate)=2011GROUP BYProductID,YEAR(OrderDate)GO

H. INSERT dbo.SalesOrderSummary (ProductID, OrderQty,

OrderYear)SELECTProductID,SUM(OrderQty),YEAR(2011)

FROMAdventureWorks.Sales.SalesOrderDetailGROUP BYProductIDHAVINGYEAR(2011)=2011GO

Answer: (B BEFORE D) AND (D BEFORE G) AND ONLY (B, D, G)

Question: 119

You have a table named Subcategories that contains subcategories for socks, vests and helmets. You have another table named Products that contains products only from the subcategories socks and vests.

You have the following query: SELECT s.Name, p.Name AS ProductNameFROM Subcategories s OUTER APPLY

(SELECT *

FROM Products pr

WHERE pr.SubcategoryID = s.SubcategoryID) p

WHERE s.Name IS NOT NULL; You need to predict the results of the query. What results should the query produce?

A. Name ProductName------Socks Mountain Bike Socks, Socks Mountain Bike Socks, Socks Racing Socks, MSocks Racing Socks, LVests Classic Vest, SVests Classic Vest, MVests Classic Vest, LHelmets NULLNULL NULL

B. Name ProductName------Socks Mountain Bike Socks, Socks Mountain Bike Socks, Socks Racing Socks, MSocks Racing Socks, LVests Classic Vest, SVests Classic Vest, MVests Classic Vest, LHelmets NULL

C. Name ProductName-------Socks Mountain Bike Socks, Socks Mountain Bike Socks, Socks Mountain Bike Socks, Socks Racing Socks, MSocks Racing Socks, LVests Classic Vest, SVests Classic Vest, MVests Classic Vest, LNULL Mountain Bike Socks, NULL Mountain Bike Socks, MNULL





Racing Socks, LNULL Classic Vest, SNULL Classic Vest, MNULL Classic Vest, LHelmets NULLNULL NULL

D. Name ProductName------Socks Mountain Bike Socks, Socks Mountain Bike Socks, Socks Racing Socks, MSocks Racing Socks, LVests Classic Vest, SVests Classic Vest, MVests Classic Vest, L

Answer: B

Question: 120

You are working with a SQL Server 2008 instance that is configured to use the Icelandic_CS_AS collation. You create a database by using code that includes the following statements. CREATE DATABASE InternationalDB COLLATE Japanese_CS_AS;GOUSE InternationalDB;GOCREATE TABLE AppPermTable (PrimaryKey int PRIMARY KEY, AppID nchar); You implement a temporary table named #AppTempTable that uses the following code. USE InternationalDB;GOCREATE TABLE #AppTempTable (PrimaryKey int PRIMARY KEY, AppID nchar);INSERT INTO #AppTempTable SELECT * FROM AppPermTable; You need to identify the collation that will be assigned to #AppTempTable. Which collation will be assigned?

- A. Icelandic_CS_AS
- B. No collation
- C. The collation selected by the Windows system locale of the server
- D. Japanese_CS_AS

Answer: A

Question: 121

You administer a Microsoft SQL Server 2008 database named AdventureWork that contains a table named Production.Product.

The table has the following definition: CREATE TABLE [Production].[Product](

[ProductID] [int] IDENTITY(1,1) NOT NULL,

[ProductName] [nvarchar](50) NOT NULL,

[ListPrice] [money] NOT NULL,

[ProductionDate] [datetime] NULL,

[UserCreated] [nvarchar](128) NOT NULL,

[DateCreated] [datetime] NOT NULL DEFAULT GETDATE(),

CONSTRAINT [PK_Product_ProductID] PRIMARY KEY CLUSTERED (

[ProductID] ASC) ON [PRIMARY] ON [PRIMARY]GO You want to add a new product named Widget and a list price of 10.50 U.S. dollars to the product table. You need to add a record for the product information. You also need to set the DateCreated field to the current date and the UserCreated field to your Windows login identification name. Which Transact-SQL statement should you use?

A. INSERT INTO [Production].[Product](ProductID, ProductName, ListPrice, UserCreated, DateCreated)values(1, 'Widget', 10.50, system user, GETDATE())

B. INSERT INTO [Production].[Product](ProductName, ListPrice, UserCreated)values('Widget', 10.50, system_user)

C. INSERT INTO [Production].[Product](ProductName, ListPrice, UserCreated,





ProductionDate)values('Widget', 10.50, user_id(), GETDATE())

D. INSERT INTO [Production].[Product](ProductName, ListPrice, DateCreated)values('Widget', 10.50, GETDATE())

E. INSERT INTO [Production].[Product](ProductID, ProductName, ListPrice, UserCreated, DateCreated)select 1, 'Widget', 10.50, system user, GETDATE()

F. INSERT INTO [Production].[Product](ProductName, ListPrice, UserCreated)select 'Widget', 10.50, system_user

G. INSERT INTO [Production].[Product](ProductName, ListPrice, UserCreated, ProductionDate)select'Widget', 10.50, user_id(), GETDATE()

H. INSERT INTO [Production].[Product](ProductName, ListPrice, DateCreated)select 'Widget', 10.50, GETDATE()

Answer: B OR F

Question: 122

You have a table named Person that contains a nvarchar column named Surname. The Person table currently has a clustered index on PersonID. The Surname column contains Russian and Japanese characters. The following code segment will be used to search by Surname.

IF @lang ='Russian'

SELECT PersonID, Surname

FROM Person

WHERE Surname = @SearchName COLLATE Cyrillic_General_CI_AS IF @lang = 'Japanese' SELECT PersonID, Surname

FROM Person

WHERE Surname = @SearchName COLLATE Japanese_CI_AS_KS You need to enable SQL Server to perform an index seek for these queries. What should you do?

- A. Create a computed column for each collation that needs to be searched. Create an index on each computed column.
- B. Create a new column for each collation that needs to be searched and copy the data from the Surname column. Create an index on each new column.
- C. Create a computed column for each collation that needs to be searched. Create an index on the Surname column.
- D. Create an index on the Surname column.

Answer: A

Question: 123

You create a stored procedure that contains proprietary formulas. You need to ensure that no users are able to access Microsoft SQL Server Management Studio to view the definition of the stored procedure. Which code segment should you use?

- A. CREATE PROCEDURE Sales.uspFormulaWITH EXECUTE AS SELF
- B. CREATE PROCEDURE Sales.uspFormula WITH RECOMPILE
- C. CREATE PROCEDURE Sales.uspFormula WITH EXECUTE AS OWNER
- D. CREATE PROCEDURE Sales.uspFormulaWITH ENCRYPTION



Answer: D

Question: 124

You administer a Microsoft SQL Server 2008 R2 instance configured to use Windows Authentication.

The database contains a table named CustomerTransaction that has the following definition:

CREATE TABLE dbo.CustomerTransaction(CustomerTransactionId int NOT NULL PRIMARY KEY,

CustomerID int NOT NULL, TransactionAmount money NOT NULL) You define the following table:

CREATE TABLE dbo.CustomerWarningLog(

CustomerWarningLogId int NOT NULL identity PRIMARY KEY,

CustomerId int NOT NULL,

Balance money NOT NULL,

LogTime datetime2(0) NOT NULL,

LogUserName nvarchar(128) NOT NULL) You need to ensure that the following requirements are met:

- ·An entry is logged in CustomerWarningLog when a customer's account balance is less than 100.00.
- ·The TransactionLogUserName is set to the login name of the user who modifies the CustomerTransaction table. Which Transact-SQL statement or statements should you use?

 A. CREATE TRIGGER dbo.CustomerTransaction_InsertUpdateDeleteTriggerON

 dbo.CustomerTransactionFOR INSERT, UPDATE, DELETEAS IF UPDATE(CustomerID)WITH TotalCTE

 AS(SELECT CustomerId, SUM(TransactionAmount) AS BalanceFROM

 dbo.CustomerTransactionWHERE CustomerId in (SELECT CustomerIdFROM insertedUNION

 ALLSELECT CustomerIdFROM deleted)GROUP BY CustomerId)INSERT dbo.

 $\label{thm:customerWarningLog(CustomerId, Balance, LogTime, LogUserName) SELECT CustomerId, Balance, SYSDATETIME(), SUSER_SNAME() FROM TotalForCustomerWHERE TotalCTE. Amount < 100 GO$

B. CREATE TRIGGER dbo.CustomerTransaction InsertUpdateTriggerON

dbo.CustomerTransactionFOR INSERT, UPDATEAS IF UPDATE(CustomerID) or

UPDATE(TransactionAmount) WITH TotalCTE AS(SELECT CustomerId, SUM(TransactionAmount) AS BalanceFROM dbo.CustomerTransactionWHERE CustomerId in (SELECT CustomerIdFROM insertedUNION ALLSELECT CustomerIdFROM deleted) GROUP BY CustomerId) INSERT dbo.

CustomerWarningLog(CustomerId, Balance, LogTime, LogUserName)SELECT CustomerId, Balance, SYSDATETIME(), USER NAME()FROM TotalForCustomerWHERE TotalCTE.Amount < 100 GO

C. CREATE TRIGGER dbo.CustomerTransaction InsertUpdateDeleteTriggerON

dbo.CustomerTransactionFOR INSERT, UPDATE, DELETEASDECLARE @CustomerId int, @Balance

 $money WITH\ Total CTE\ AS (SELECT\ Customer Id,\ SUM (Transaction Amount)\ AS\ Balance FROM$

dbo.CustomerTransactionWHERE CustomerId in (SELECT CustomerIdFROM insertedUNION

ALLSELECT CustomerIdFROM deleted)GROUP BY CustomerId)SELECT @CustomerId =

CustomerId,@Balance = TransactionAmountFROM TotalForCustomerWHERE TotalCTE.Amount <

100IF @@rowcount > 0INSERT dbo. CustomerWarningLog(CustomerId, Balance, LogTime,

LogUserName)SELECT @CustomerId, @Balance, SYSDATETIME(), SUSER_SNAME() GO

D. CREATE TRIGGER dbo.CustomerTransaction_InsertUpdateDeleteTriggerON

dbo.CustomerTransactionFOR INSERT, UPDATE, DELETEAS IF UPDATE(CustomerID) or





UPDATE(TransactionAmount) WITH TotalCTE AS(SELECT CustomerId, SUM(TransactionAmount) AS BalanceFROM dbo.CustomerTransactionWHERE CustomerId in (SELECT CustomerIdFROM insertedUNION ALLSELECT CustomerIdFROM deleted)GROUP BY CustomerId)INSERT dbo. CustomerWarningLog(CustomerId, Balance, LogTime, LogUserName)SELECT CustomerId, Balance, SYSDATETIME(), SUSER SNAME()FROM TotalForCustomerWHERE TotalCTE.Amount < 100 GO E. CREATE TRIGGER dbo.CustomerTransaction_InsertUpdateDeleteTriggerON dbo.CustomerTransactionFOR INSERT, UPDATE, DELETEASDECLARE @CustomerId int, @Balance moneyWITH TotalCTE AS(SELECT CustomerId, SUM(TransactionAmount) AS BalanceFROM dbo.CustomerTransactionWHERE CustomerId in (SELECT CustomerIdFROM insertedUNION ALLSELECT CustomerIdFROM deleted)GROUP BY CustomerId)SELECT @CustomerId = CustomerId,@Balance = TransactionAmountFROM TotalForCustomerWHERE TotalCTE.Amount < 100IF @CustomerId IS NULLINSERT dbo. CustomerWarningLog(CustomerId, Balance, LogTime, LogUserName)SELECT @CustomerId, @Balance, SYSDATETIME(), USER_NAME() GO F. CREATE TRIGGER dbo.CustomerTransaction InsertUpdateDeleteTriggerON dbo.CustomerTransactionFOR INSERT, UPDATE, DELETEASWITH TotalCTE AS(SELECT CustomerId, SUM(TransactionAmount) AS BalanceFROM dbo.CustomerTransactionWHERE CustomerId in (SELECT CustomerIdFROM inserted)GROUP BY CustomerId)INSERT dbo. CustomerWarningLog(CustomerId, Balance, LogTime, LogUserName)SELECT CustomerId, Balance, SYSDATETIME(), SUSER_SNAME()FROM TotalForCustomerWHERE TotalCTE.Amount <= 100 GO G. CREATE TRIGGER dbo.CustomerTransaction_UpdateDeleteTriggerON dbo.CustomerTransactionFOR UPDATE, DELETEASWITH TotalCTE AS(SELECT CustomerId, SUM(TransactionAmount) AS BalanceFROM dbo.CustomerTransactionWHERE TransactionAmount < 100AND CustomerId in (SELECT CustomerIdFROM deleted)GROUP BY CustomerId)INSERT dbo. CustomerWarningLog(CustomerId, Balance, LogTime, LogUserName)SELECT CustomerId, Balance, SYSDATETIME(), SUSER SNAME()FROM TotalForCustomer GO H. CREATE TRIGGER dbo.CustomerTransaction InsertUpdateDeleteTriggerON dbo.CustomerTransactionFOR INSERT, UPDATE, DELETEASWITH TotalCTE AS(SELECT CustomerId, SUM(TransactionAmount) AS BalanceFROM dbo.CustomerTransactionWHERE CustomerId in (SELECT CustomerIdFROM insertedUNION ALLSELECT CustomerIdFROM deleted)GROUP BY CustomerId)INSERT dbo. CustomerWarningLog(CustomerId, Balance, LogTime, LogUserName)SELECT CustomerId, Balance, SYSDATETIME(), SUSER SNAME()FROM TotalForCustomerWHERE TotalCTE.Amount < 100 GO

Answer: DOR H

Question: 125

You are writing a batch that contains multiple UPDATE statements to modify existing products. You have placed these updates into one explicit transaction.

You need to set an option at the beginning of the transaction to roll back all changes if any of the updates in the transaction fail.

Which option should you enable?

A. REMOTE_PROC_TRANSACTIONS

B. ARITHABORT

C. XACT ABORT



D. IMPLICIT_TRANSACTIONS

Answer: C

Question: 126

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You administer a Microsoft SQL Server 2008 database named AdventureWorks that contains a table named Production.Product. The table contains a primary key named PK_Product_ProductID and a non-clustered index named AK_Product_ProductNumber. Both indexes have been created on a single primary partition. The table has the following definition: CREATE TABLE

[Production].[Product](

[ProductID] [int] IDENTITY(1,1) NOT NULL,

[Name] [nvarchar](50) NOT NULL,

[ProductNumber] [nvarchar](25) NOT NULL,

[Color] [nvarchar](15) NULL,

[Class] [nchar](2) NULL,

[Style] [nchar](2) NULL,

[ModifiedDate] [datetime] NOT NULL,

CONSTRAINT [PK_Product_ProductID] PRIMARY KEY CLUSTERED

[ProductID] ASC

(

) ON [PRIMARY]) ON [PRIMARY]GO The index has the following definition: CREATE UNIQUE NONCLUSTERED INDEX [AK_Product_ProductNumber] ON [Production].[Product] ([ProductNumber] ASC) ON [PRIMARY]GO The Production.Product table contains 1 million rows. You want to ensure that data retrieval takes the minimum amount of time when the queries executed against the Production.Product table are ordered by product number or filtered by class. You observe that the average fragmentation for the AK_Product_ProductNumber index is 24 percent.

You need to reduce fragmentation. You need to achieve this goal without blocking access to table data. Which Transact-SQL statement should you use?

- A. EXEC sys.sp_configure 'index create memory', 1
- B. CREATE STATISTICS ProductClass_StatsON Production.Product (Name, ProductNumber, Class)WHERE Class <> null
- C. UPDATE INDEX AK_Product_ProductNumber ON Production.Product SET (STATISTICS_NORECOMPUTE = ON)
- D. ALTER DATABASE [AdventureWorks] SET AUTO_UPDATE_STATISTICS ON
- E. DBCC SHOW_STATISTICS ('Production.Product', AK_Product_ProductNumber)
- F. CREATE STATISTICS ProductClass_StatsON Production.Product (Name, ProductNumber, Class)WHERE Class is not null
- G. ALTER INDEX AK Product ProductNumber ON Production.Product REORGANIZE
- H. CREATE STATS ProductClass_StatsON Production.Product (Name, ProductNumber, Class)WHERE Class is not nullWITH SAMPLE 100 PERCENT
- I. SELECT * FROM sys.dm_db_index_operational_stats (DB_ID(),





OBJECT_ID(N'Production.Product'),NULL, NULL)

J. SELECT * FROM STATS WHERE name='AK Product ProductNumber'

K. SELECT * FROM SYS.STATS WHERE name='AK_Product_ProductNumber'

L. ALTER INDEX AK Product ProductNumber ON Production.Product REBUILD Partition = 1

M. UPDATE STATISTICS Production. Product

N. SELECT * FROM sys.dm_db_index_physical_stats (DB_ID(),

OBJECT ID(N'Production.Product'), NULL, NULL, NULL)

O. ALTER INDEX AK_Product_ProductNumber ON Production.Product REBUILD

P. ALTER STATISTICS Production. Product

Q. SELECT * FROM sys.indexes where name=N'Production.Product'

Answer: G

Question: 127

You administer a Microsoft SQL Server 2008 R2 database that has a table named Customer.

The table has the following definition: CREATE TABLE Customer

(CustomerID int NOT NULL PRIMARY KEY,

FirstName varchar(255) NOT NULL,

LastName varchar(255) NOT NULL,

CustomerAddress varchar(1024)) The database also has a table named CustomerExclusionList.

Data will be added to the CustomerExclusionList table regularly.

The CustomerExclusionList table has the following definition: CREATE TABLE

CustomerExclusionList

(FirstName varchar(255) NOT NULL,

LastName varchar(255) NOT NULL) You need to create a view that returns all records and columns of the Customer table that are not present in the CustomerExclusionList table. Which

Transact-SQL statement should you use?

A. CREATE VIEW vw ValidCustomerASSELECT FirstName,LastNameFROM Customer

cEXCEPTSELECT FirstName,LastNameFROM CustomerExclusionList

B. CREATE VIEW vw_ValidCustomerASSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cINNER JOIN

CustomerExclusionList celON c.Firstname = cel.FirstNameAND c.LastName = cel.LastName

C. CREATE VIEW vw_ValidCustomerASSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cLEFT OUTER JOIN

CustomerExclusionList celON c.Firstname = cel.FirstNameAND c.LastName = cel.LastNameWHERE cel.FirstName IS NULL

D. CREATE VIEW vw_ValidCustomerASSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cINNER JOIN

 ${\bf Customer Exclusion List\ celON\ c. First name} = {\bf cel. First Name INNER\ JOIN\ Customer Exclusion List\ celon\ c. First name}$

celON c.LastName = cel.LastName

E. CREATE VIEW vw ValidCustomerASSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cEXCEPTSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cINNER JOIN

CustomerExclusionList celON c.Firstname = cel.FirstNameAND c.LastName = cel.LastName



F. CREATE VIEW vw_ValidCustomerASSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cINTERSECTSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cINNER JOIN

CustomerExclusionList celON c.Firstname = cel.FirstNameAND c.LastName = cel.LastName

G. CREATE VIEW vw ValidCustomerASSELECT

c.CustomerID,c.FirstName,c.LastName,c.CustomerAddressFROM Customer cLEFT OUTER JOIN CustomerExclusionList celON c.Firstname = cel.FirstNameAND c.LastName = cel.LastNameWHERE cel.FirstName IS NOT NULL

H. CREATE VIEW vw ValidCustomerASSELECT

CustomerID, FirstName, LastName, CustomerAddressFROM Customer cEXCEPTSELECT

 $CustomerID, FirstName, LastName, CustomerAddressFROM\ CustomerExclusionList$

Answer: C OR E

Question: 128

You work for a company that provides marketing data to other companies. You have the following

Transact-SQL statement: DECLARE @CustomerDemographics XMLSET

@CustomerDemographics=N'<CustomerDemographics>

<Customer CustomerID="1" Age="21" Education="High School">

<IsCoffeeDrinker>0</IsCoffeeDrinker>

</Customer>

<Customer CustomerID="2" Age="27" Education="College">

<IsCoffeeDrinker>1</IsCoffeeDrinker>

<lsFriendly>1</lsFriendly>

</Customer>

<Customer CustomerID="3" Age="35" Education="Unknown">

<IsCoffeeDrinker>1</IsCoffeeDrinker>

<lsFriendly>1</lsFriendly>

</Customer></CustomerDemographics>'DECLARE @OutputAgeOfCoffeeDrinkers XMLSET

@OutputAgeOfCoffeeDrinkers = @CustomerDemographics.query('

for \$output in /child::CustomerDemographics/child::Customer[(child::IsCoffeeDrinker[1] cast as xs:boolean ?)]

return

<CoffeeDrinkingCustomer>

{ \$output/attribute::Age \}

</CoffeeDrinkingCustomer>')SELECT @OutputAgeOfCoffeeDrinkers You need to determine the result of the query. What result should you expect?

A. <CoffeeDrinkingCustomer Age="27" /><CoffeeDrinkingCustomer Age="35" />

B. <CustomerDemographics><Customer><CoffeeDrinkingCustomer Age="21"

/></Customer></CustomerDemographics>

C. <CustomerDemographics><Customer><CoffeeDrinkingCustomer Age="27"

/></Customer><Customer><CoffeeDrinkingCustomer Age="35"

/></Customer></CustomerDemographics>

D. <CoffeeDrinkingCustomer Age="21" />



Answer: A

Question: 129

You have a SQL Server database. The database contains two schemas named Marketing and Sales. The Marketing schema is owned by a user named MarketingManager. The Sales schema is owned by a user named SalesManager. A user named John must be able to access the Sales. Orders table by using a stored procedure named Marketing. GetSalesSummary. John is not granted a SELECT permission on the Sales. Orders table. A user named Sales User does have SELECT permission on the Sales. Orders table.

You need to implement appropriate permissions for John and the stored procedure Marketing. GetSalesSummary. What should you do?

- A. Marketing.GetSalesSummary should be created by using the EXECUTE AS CALLER clause.John should be granted IMPERSONATE permission for the user named SalesUser.
- B. Marketing.GetSalesSummary should be created by using the EXECUTE AS OWNER clause.John should be granted EXECUTE WITH GRANT OPTION on Marketing.GetSalesSummary.
- C. Marketing.GetSalesSummary should be created by using the EXECUTE AS 'SalesUser' clause.John should be granted EXECUTE permission on Marketing.GetSalesSummary.
- D. Marketing.GetSalesSummary should be created without an EXECUTE AS clause.John should be granted SELECT permission on the Sales.Orders table.

Answer: C

Question: 130

You use a table that stores movie information in your database.

The table has the following schema: CREATE TABLE Movies(

MovieID nchar(4) NOT NULL,

Title nvarchar(25) NOT NULL,

MovieDescription nvarchar(50) NULL,

Rating smallint NOT NULL CONSTRAINT Check_Rating CHECK (Rating between 1 AND 7),

CONSTRAINT [PK_Movies] PRIMARY KEY CLUSTERED

[MovieID] ASC

))GO You plan to insert a new record for a movie that will be released by using the following information:

Column	Data
MovieID	M999
Title	Movie to be released
MovieDescription	This movie is yet to be released
Rating	0

You need to ensure that the following requirements are met:

- ·Only this movie record gets a Rating of 0.
- ·Other movie records that will be inserted in the future must get a Rating of 1 through 7. Which three Transact-SQL statements should you use? (To answer, move the appropriate statements





from the list of statements to the answer area and arrange them in the correct order.)

- A. ALTER TABLE Movies NOCHECK CONSTRAINT Check Rating; GO
- B. ALTER TABLE Movies WITH CHECK CONSTRAINT Check_Rating;GO
- C. ALTER TABLE Movies DROP CONSTRAINT Check_Rating;GO
- D. ALTER TABLE Movies CHECK CONSTRAINT Check Rating; GO
- E. ALTER TABLE Movies WITH NOCHECK CONSTRAINT Check_Rating;GO
- F. INSERT INTO Movies VALUES ('M999','Movie To Be Released','This movie yet to be released',0)GO
- G. INSERT INTO Movies VALUES ('M999','Movie To Be Released','This movie yet to be released', DEFAULT)GO

Answer: (A BEFORE F) AND (F BEFORE D) AND ONLY (A, D, F)

Question: 131

You are the administrator of a SQL Server database. Database table modifications and additions must occur only between 11:00 P.M. and midnight. You need to ensure that if database table modifications or additions are attempted at any other time, an error is raised and the attempt is not successful. Which Transact-SQL statement should you use?

A. CREATE TRIGGER TRG_TABLES_ON_LAST_HOURON ALL SERVER FOR ALTER_DATABASEAS IF DATEPART(hour,getdate())<>1BEGINROLLBACK RAISERROR ('Must wait.', 16, 1)END

B. CREATE TRIGGER TRG_TABLES_ON_LAST_HOURON DATABASE FOR CREATE_TABLEAS IF DATEPART(hour,getdate())<>23BEGINRAISERROR ('Must wait.', 16, 1) END

C. CREATE TRIGGER TRG TABLES ON LAST HOURON DATABASE FOR

CREATE_TABLE,ALTER_TABLEAS IF DATEPART(hour,getdate())<>23BEGINRAISERROR ('Must wait.', 16, 1) END

D. CREATE TRIGGER TRG_TABLES_ON_LAST_HOURON DATABASE FOR
CREATE_TABLE,ALTER_TABLEAS IF DATEPART(hour,getdate())<>1BEGINROLLBACK RAISERROR
('Must wait.', 16, 1) END

Answer: D

Question: 132

You need to generate the following XML document.

- <ProductExport>
- <Product Price="99">Product1</Product>
- <Product Price="199">Product2</Product>
- <Product Price="299">Product3</Product>
- <Product Price="399">Product4</Product></productExport> Which query should you use?
- A. SELECT Price, ProductNameFROM ProductsFOR XML AUTO, ROOT('ProductExport')
- B. SELECT Price [@Price], ProductName AS [*] FROM ProductsFOR XML
- PATH('Product'),ROOT('ProductExport')
- C. SELECT Price, ProductNameFROM Products AS ProductExportFOR XML PATH('Product')
- D. SELECT Price [@Price], ProductName AS [*]FROM Products AS ProductExportFOR XML AUTO,



ELEMENTS

Answer: B

Question: 133

You have a table named Customer that has an XML column named Locations. This column stores an XML fragment that contains details of one or more locations, as show in the following examples. <Location City="Sydney" Address="..." PhoneNumber="..." /><Location City="Chicago" Address="..." PhoneNumber="..." /><Location City="London" Address="..." PhoneNumber="..." /> You need to write a query that returns a row for each of the customer's locations. Each resulting row must include the customer name, city, and an XML fragment that contains the location details. Which query should you use?

A. SELECT CustomerName,Loc.value('@City','varchar(100)'),Loc.query('.')FROM CustomerCROSS APPLY Customer.Locations.nodes ('/Location') Locs(Loc)

B. SELECT CustomerName,Locations.query('for \$i\$ in /Location return data(\$i/@City)'),Locations.query('for <math>\$i\$ in /Location return \$i')FROM Customer

C. SELECT

CustomerName,Locations.query('data(/Location/@City)'),Locations.query('/Location')FROM Customer

D. SELECT CustomerName,Locations.query('for \$i in /Location return element Location {\$i/@City, \$i}')FROM Customer

Answer: A

Question: 134

Your company manufactures and distributes bicycle parts. You have a full-text catalog on the Inventory table which contains the PartName and Description columns. You also use a full-text thesaurus to expand common bicycle terms.

You need to write a full-text query that will not only match the exact word in the search, but also the meaning. Which Transact-SQL statement should you use?

A. SELECT * FROM InventoryWHERE Description LIKE '%cycle%'

B. SELECT * FROM InventoryWHERE FREETEXT (*, 'cycle'))

C. SELECT * FROM InventoryWHERE CONTAINS (*, 'FormsOf(Inflectional, cycle)')

D. SELECT * FROM InventoryWHERE CONTAINS (*, 'cycle')

Answer: B

Question: 135

You are using the Database Engine Tuning Advisor (DTA) to analyze a workload. You need to save the recommendations generated by the DTA. Which command should you use?

- A. Export Session Results
- **B. Export Session Definition**
- C. Import Session Definition
- D. Preview Workload Table



Answer: A

Question: 136

You have two tables. A table named Student.CurrentStudents contains the names of all students enrolled for the current year. Another table named Student.NewYearRoster contains the names of students who have enrolled for the upcoming year. You have been tasked to write a MERGE statement to:

- ·Insert into Student.CurrentStudents the names of students who are enrolled for the upcoming year but not for the current year.
- ·Update information in Student.CurrentStudents for students who are enrolled both in the current year and in the upcoming year.
- •Delete from Student.CurrentStudents the names of students who are not enrolled for the upcoming year. You need to write the appropriate MERGE statement. Which Transact-SQL statement should you use?
- A. MERGE Student.CurrentStudents AS T USING Student.NewYearRoster AS SON S.LastName = T.LastName AND S.FirstName = T.FirstName WHEN MATCHED THENUPDATE SET Address = S.Address, Age = S.AgeWHEN NOT MATCHED BY TARGET THENINSERT (LastName, FirstName, Address, Age) VALUES (S.LastName, S.FirstName, S.Address, S.Age) WHEN NOT MATCHED BY SOURCE THEN DELETE;
- B. MERGE Student.CurrentStudents AS T USING Student.NewYearRoster AS SON S.LastName = T.LastName AND S.FirstName = T.FirstName WHEN MATCHED AND NOT T.Address = S.Address AND NOT T.Age = S.Age THENUPDATE SET T.Age = S.Age, T.Address = S.AddressWHEN NOT MATCHED BY TARGET THENINSERT (LastName, FirstName, Address, Age) VALUES (S.LastName, S.FirstName, S.Address, S.Age) WHEN NOT MATCHED BY SOURCE THEN DELETE;
- C. MERGE Student.CurrentStudents AS T USING Student.NewYearRoster AS SON S.LastName = T.LastName AND S.FirstName = T.FirstName WHEN MATCHED AND NOT T.Address = S.Address OR NOT T.Age = S.Age THENUPDATE SET T.Address = S.Address, T.Age = S.AgeWHEN NOT MATCHED THENINSERT (LastName, FirstName, Address, Age) VALUES (S.LastName, S.FirstName, S.Address, S.Age)WHEN MATCHED THENDELETE:
- D. MERGE Student.CurrentStudents AS T USING Student.NewYearRoster AS SON S.LastName = T.LastName AND S.FirstName = T.FirstName WHEN MATCHED THENDELETEWHEN NOT MATCHED THENINSERT (LastName, FirstName, Address, Age) VALUES (S.LastName, S.FirstName, S.Address, S.Age) WHEN NOT MATCHED BY SOURCE THEN UPDATE SET Address = T.Address, Age = T.Age;

Answer: A

Question: 137

You have the following rows in the Customer Table: CustomerId Status------1

Active2

Active3

Inactive4

NULL5

Dormant6

Dormant You write the following query to return all customers that do not have NULL or





'Dormant' for their status: SELECT *FROM

CustomerWHERE Status NOT IN (NULL, 'Dormant')You need to identify the results of the query.Which result should you expect?

A. CustomerId Status-----1 Active2 Active3 Inactive4 NULL

B. CustomerId Status-----1 Active2 Active3 Inactive4 NULL5 Dormant6 Dormant

C. CustomerId Status-----

D. CustomerId Status-----1 Active2 Active3 Inactive

Answer: C

Question: 138

You are the database developer for a customer service application. The database has the following table and view. CREATE TABLE Tickets (

TicketId int,

Department varchar(200),

Status varchar(200),

IsArchived bit); GOCREATE VIEW SupportTickets (

TicketId,

Department,

Status,

IsArchived)ASSELECT

t.TicketId,

t.Department,

t.Status,

t.IsArchivedFROM Tickets tWHERE t.Department = 'support'

AND t.IsArchived = 0WITH CHECK OPTION; GOINSERT INTO Tickets VALUES (1, 'support', 'open',

0), (2, 'support', 'open', 0), (3, 'support', 'open', 0);GO You are assigned to review another developer's code. You need to verify that the entire code is functional. Which Transact-SQL statements will fail?

- A. INSERT INTO Tickets VALUES (4, 'sales', 'open', 0), (5, 'support', 'open', 0), (6, 'support', 'open', 1)
- B. UPDATE TicketsSET IsArchived = 1WHERE TicketId IN (1, 2, 3)
- C. UPDATE SupportTicketsSET IsArchived = 1WHERE TicketId IN (1, 2, 3)
- D. UPDATE SupportTicketsSET Status = 'closed'WHERE TicketId IN (1, 2, 3)
- E. INSERT INTO SupportTickets VALUES (4, 'support', 'open', 0), (5, 'support', 'in progress', 0), (6, 'support', 'closed', 0)
- F. INSERT INTO Tickets VALUES (4, 'support', 'open', 0), (5, 'support', 'in progress', 0), (6, 'support', 'closed', 0)
- G. INSERT INTO SupportTickets VALUES (4, 'support', 'open', 1), (5, 'support', 'in progress', 1), (6, 'support', 'closed', 1)
- H. DELETE FROM SupportTicketsWHERE TicketId IN (1, 2, 3)

Answer: CORG

Question: 139





You administer a database named Contoso running on a Microsoft SQL Server 2008 R2 instance. You plan to implement custom error handling in your application. You need to implement custom error handling that meets the following requirements:

- ·The custom message is a reusable user-defined error message.
- ·The message returned to the application is an informational message that returns status information or error that is not severe.
- ·The custom message returned indicates that an error has occurred in the current database and current session. Which three Transact-SQL statements should you use? (To answer, move the appropriate statements from the list of statements to the answer area and arrange them in the correct order.)
- A. DECLARE @ProcessID INT; DECLARE @ProcessName NVACHAR(150); SET @ProcessID = @@SPID; SET @ProcessName = DB_NAME();
- B. DECLARE @ProcessID INT; DECLARE @ProcessName INT; SET @ProcessID = @@SPID; SET @ProcessName = @@DB_NAME;
- C. EXECUTE sp_addmessage 50025, 10, N'Session ID: %d returned an error in the database: %s.'
- D. EXECUTE sp_addmessage 50000, 16, N'Session ID: %d returned an error in the database: %s.'
- E. RAISERROR (50000, @ProcessID, @ProcessName, 10, 1)
- F. RAISERROR (50025, 10, 1, @ProcessID, @ProcessName)
- G. RAISERROR (50000, @ProcessID, @ProcessName, 16, 1)
- H. RAISERROR(50025, 10, 1, @@SPID, DB_NAME())

Answer: (C BEFORE A) AND (A BEFORE F) AND ONLY (C, A, F)

Question: 140

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You are a developer for a Microsoft SQL Server 2008 R2 database instance. You create tables named order, customer, and product as follows: CREATE TABLE [dbo].[order] ([OrderID] [int],

[ProductID] [int],

[CustomerID] [int],

[OrderDate] [datetime]); CREATE TABLE [dbo].[customer] ([CustomerID] [int],

[CustomerName] [varchar](100),

[Address] [varchar](200),

[City] [varchar](100),

[State] [varchar](50),

[ZipCode] [varchar](5)); CREATE TABLE [dbo].[product] ([ProductID] [int],

[ProductName] [varchar](100),

[SalePrice] [money],

[ManufacturerName] [varchar](100)); You need to write a query to sum the sales made to each customer by the following entries:

- ·The Customer name and product name
- ·The grand total of all sales Which SQL query should you use?





A. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY p.ProductName, DATEPART(mm, o.OrderDate);

B. SELECTc.CustomerName,COUNT(o.OrderID) AS OrdersFROMcustomer c INNER JOIN[order] o ON c.CustomerID = o.CustomerIDWHERECOUNT(o.OrderID) > 10GROUP BYc.CustomerName;

C. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID =

c.CustomerIDWHEREo.OrderDate > '09/01/2011'GROUP

BYc.CustomerNameHAVINGAVG(p.SalePrice) >= 500

D. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID = c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName, p.ProductName), ());

E. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID = c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName), (p.ProductName), ());

F. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY CUBE; G. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY CUBE(p.ProductName, DATEPART(mm, o.OrderDate));

H. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID =

 $c. Customer IDWHEREo. Order Date > '09/01/2011' \ ANDAVG (p. Sale Price) >= 500$

I. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY p.ProductName, OrderMonth;

J. SELECTc.CustomerName,COUNT(o.OrderID) AS OrdersFROMcustomer c INNER JOIN[order] o ON c.CustomerID = o.CustomerIDGROUP BYc.CustomerNameHAVINGCOUNT(o.OrderID) > 10;

Answer: D

Question: 141

You have a table named Sales. Sales Order Header and a table named Person. Person.

You are tasked to write a query that returns SalesOrderID and SalesPersonName that have an OrderDate greater than 20040101. SalesPersonName should be made up by concatenating the columns named FirstName and LastName from the table named Person.Person.

You need to write a query to return data, sorted in alphabetical order, by the concatenation of FirstName and LastName. Which Transact-SQL statement should you use?

A. SELECT SalesOrderID, FirstName + ' ' + LastName as SalesPersonName FROM
Sales.SalesOrderHeader HJOIN Person.Person P on P. BusinessEntityID = H. SalesPersonIDWHERE
OrderDate > '20040101'ORDER BY SalesPersonName DESC

B. SELECT SalesOrderID, FirstName + ' ' + LastName as SalesPersonName FROM Sales.SalesOrderHeader HJOIN Person.Person P on P. BusinessEntityID = H. SalesPersonIDWHERE OrderDate > '20040101'ORDER BY FirstName ASC, LastName ASC





C. SELECT SalesOrderID, FirstName +' ' + LastName as SalesPersonNameFROM Sales.SalesOrderHeader HJOIN Person.Person P on P. Business EntityID = H. Sales Person IDWHERE OrderDate > '20040101'ORDER BY SalesPersonName ASC D. SELECT SalesOrderID, FirstName + ' ' + LastName as SalesPersonName FROM

Sales.SalesOrderHeader HJOIN Person.Person P on P. Business EntityID = H. Sales Person IDWHERE OrderDate > '20040101'ORDER BY FirstName DESC, LastName DESC

Answer: C

Question: 142

Note: This question is part of a series of questions that use the same set of answer choices. An answer choice may be correct for more than one question in the series. You are a developer for a Microsoft SQL Server 2008 R2 database instance. You create tables named order, customer, and product as follows: CREATE TABLE [dbo].[order] ([OrderID] [int],

[ProductID] [int],

[CustomerID] [int],

[OrderDate] [datetime]); CREATE TABLE [dbo].[customer] ([CustomerID] [int],

[CustomerName] [varchar](100),

[Address] [varchar](200),

[City] [varchar](100),

[State] [varchar](50),

[ZipCode] [varchar](5)); CREATE TABLE [dbo].[product] ([ProductID] [int],

[ProductName] [varchar](100),

[SalePrice] [money],

[ManufacturerName] [varchar](100)); You need to write a query to sum the sales made to each customer by the following entries:

- ·Each customer name
- ·Each product name
- ·The grand total of all sales Which SQL query should you use?
- A. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY CUBE(p.ProductName, DATEPART(mm, o.OrderDate));
- B. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID =
- c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName), (p.ProductName), ());
- C. SELECTc.CustomerName,p.ProductName,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID = c.CustomerIDGROUP BY GROUPING SETS ((c.CustomerName, p.ProductName), ());
- D. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID =
- c.CustomerIDWHEREo.OrderDate > '09/01/2011'GROUP
- BYc.CustomerNameHAVINGAVG(p.SalePrice) >= 500
- E. SELECTc.CustomerName,AVG(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID INNER JOINcustomer c ON o.CustomerID =





c.CustomerIDWHEREo.OrderDate > '09/01/2011' ANDAVG(p.SalePrice) >= 500

F. SELECTC.CustomerName,COUNT(o.OrderID) AS OrdersFROMcustomer c INNER JOIN[order] o ON c.CustomerID = o.CustomerIDWHERECOUNT(o.OrderID) > 10GROUP BYc.CustomerName; G. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY

p.ProductName, DATEPART(mm, o.OrderDate);

H. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY CUBE; I. SELECTp.ProductName,DATEPART(mm, o.OrderDate) OrderMonth,SUM(p.SalePrice) AS

SalesFROMproduct p INNER JOIN[order] o ON p.ProductID = o.ProductID GROUP BY p.ProductName, OrderMonth;

J. SELECTc.CustomerName,COUNT(o.OrderID) AS OrdersFROMcustomer c INNER JOIN[order] o ON c.CustomerID = o.CustomerIDGROUP BYc.CustomerNameHAVINGCOUNT(o.OrderID) > 10;

Answer: B

Question: 143

You have two tables named Customer and SalesOrder. In the Customer table you have 1000 customers, of which 900 customers have orders in the SalesOrder table. You execute the following query to list all customers that have had at least one sale.

SELECT *FROM

CustomerWHERE Customer.CustomerID IN (SELECT SalesOrder.CustomerID FROM SalesOrder) You need to identify the results of the query. Which results will the query return?

A. No rows

B. The 900 rows in the Customer table with matching rows in the SalesOrder table

C. The 1000 rows in the Customer table

D. A warning message

Answer: B

Question: 144

You attempt to query sys.dm_db_index_usage_stats to check the status on the indexes in the Contoso database. The query fails and you receive the following error:

"The user does not have permission to perform this action."

You need to have the least amount of permissions granted to access the dynamic management views. Which permissions should be granted?

A. CREATE EXTERNAL ACCESS ASSEMBLY

B. SELECT

C. CONTROL

D. VIEW SERVER STATE

Answer: D

Question: 145



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You have created an assembly that utilizes unmanaged code to access external resources. You need to deploy the assembly with the appropriate permissions. Which permission set should you use?

A. UNSAFE

B. EXTERNAL_ACCESS

C. SAFE

D. Default permission set

Answer: A