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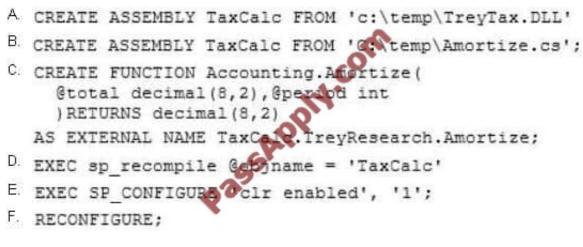
#### **QUESTION 1**

You have a SQL Server 2012 database named database1. Database1 has a data file named databasel\_data.mdf and a transaction log file named databaseljog.ldf. Databasel\_data.mdf is 1.5 GB. Databaseljog.ldf is 1.5 terabytes.

A full backup of Database1 is performed every day.

You need to reduce the size of the log file. The solution must ensure that you can perform transaction log backups in the future.

Which code segment should you execute? To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.



A. B. C. D. E. F.

Correct Answer: ACDE

#### **QUESTION 2**

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

A. CREATE XML SCHEMA COLLECTION EmployeesInfo

- B. CREATE TYPE EmployeesInfo AS Table
- C. CREATE TABLE EmployeesInfo
- D. CREATE SCHEMA EmployeesInfo

Correct Answer: B

References: http://msdn.microsoft.com/en-us/library/ms175010.aspx http://msdn.microsoft.com/en-us/library/ms174979.aspx http://msdn.microsoft.com/en-us/library/ms189462.aspx http://msdn.microsoft.com/en-us/library/ms176009.aspx



## **QUESTION 3**

You need to write code that will allow the sales force to retrieve data for their reports with the least amount of effort.

Which code should you use?

```
A. CREATE PROCEDURE Sales.usp CustomerSalesReport
           WITH EXECUTE AS 'OurDomain\ProductionStaff'
   AS
   SELECT *
   FROM Production.Product
   JOIN Sales.SalesOrderDetail ON Product.ProductID = SalesOrderDetail.ProductID
B. CREATE VIEW Sales.vw_CustomerSalesReports
   AS
   SELECT *
   FROM Production.Product
   JOIN Sales.SalesOrderDetail ON Product.ProductID SalesOrderDetail.ProductID
   OPTION (NOLOCK)
C. CREATE PROCEDURE Sales.usp_CustomerSalesReport
   AS
   SELECT *
   FROM Production.Product
   JOIN Sales.SalesOrderDetail ON P
                                         t.ProductID = SalesOrderDetail.ProductID
D. CREATE USER MyProxy WITHOUT
                                100
   GRANT SELECT
           ON Production.P
           TO MyProxy
   GRANT SELECT
           ON Sales.SalesOrderDetail
           TO MyProx
   CREATE PROCEDURE Sales.usp CustomerSalesReport
   AS.
   SELECT *
   FROM Production.Product
   JOIN Sales.SalesOrderDetail ON Product.ProductID = SalesOrderDetail.ProductID
```

## A. B. C. D.

Correct Answer: A

\* Scenario:

/ During your investigation, you discover that the sales force reports are causing significant contention.

/ Sales force data access

Sales people at both the headquarters office and the satellite office must generate reports that read from the Product and SalesOrderDetail tables. No updates or inserts are ever made by sales people. These reports are run at random times



and there can be no reporting downtime to refresh the data set except during the monthly maintenance window. The reports that run from the satellite office are process intensive queries with large data sets. Regardless of which office runs a

sales force report, the SalesOrderDetail table should only return valid, committed order data; any orders not yet committed should be ignored.

#### **QUESTION 4**

You are creating a table named Orders.

You need to ensure that every time a new row is added to the Orders table, a user-defined function is called to validate the row before the row is added to the table.

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

- A. a Data Definition Language (DDL) trigger
- B. a data manipulation language (DML) trigger
- C. a DEFAULT constraint
- D. a FOREIGN KEY constraint
- E. a CHECK constraint

Correct Answer: E

Reference: http://www.techrepublic.com/blog/programming-and-development/comparing-sql-server- constraintsanddmltriggers/402 http://msdn.microsoft.com/en-us/library/ms178110.aspx

#### **QUESTION 5**

You need to recommend a solution to ensure that USP\_4 adheres to the security requirements. What should you include in the recommendation?

- A. Configure data manipulation language (DML) triggers.
- B. Enable SQL Server Audit.
- C. Enable trace flags.
- D. Enable C2 audit tracing.

References: http://msdn.microsoft.com/en-us/library/ms178110.aspx http://msdn.microsoft.com/en-us/library/cc280386.aspx http://msdn.microsoft.com/en-us/library/ms188396.aspx http://msdn.microsoft.com/en-us/library/ms187634.aspx

#### **QUESTION 6**

Correct Answer: B



You need to recommend a solution that meets the data recovery requirement. What should you include in the recommendation?

- A. a differential backup
- B. snapshot isolation
- C. a transaction log backup
- D. a database snapshot

Correct Answer: D

References: http://msdn.microsoft.com/en-us/library/ms175158.aspx http://msdn.microsoft.com/en-us/library/ms378149.aspx http://msdn.microsoft.com/en-us/library/ms187048.aspx

## **QUESTION 7**

You use SQL Server 2014. You create a table within a database by using the following DDL:

```
CREATE TABLE OrderData
(
OrderID INT IDENTITY(1,1) Primary Key Clustered;
OrderDate SMALLDATETIME NOT NULL DEFAULT greate(),
CustomerID INT,
IsTaxable INT,
SubTotal SmallMoney DEFAULT (0),
TaxAmount AS (Case IsTaxable when I then SubTotal * .0875 else NULL END),
Freight SmallMoney,
OrderReturnedDate DATE,
OrderReturnedCustReason IEXT,
OrderReturnedEval Varchar(MAX)
```

The following table illustrates a representative sample of data:

OrderID	OrderDate	CustomerID	IsTaxable	SubTotal	TaxAmount	Freight
1	11/13/2013 11:22	58465	NULL	\$ 25.99	NULL	\$ 5.40
2	11/15/2013 9:34	12588	NULL	\$ 12.00	NULL	NULL
3	12/1/2013 14:34	85477	NULL 🐋	23.99	NULL	\$ 4.85
4	12/17/2013 4:31	58742	NULL	\$ 19.00	NULL	NULL
5	1/3/2014 8:22	12477	NUL	\$ 13.50	NULL	\$ 5.40
6	1/5/2014 18:39	63214 👩	NULL	\$ 5.69	NULL	NULL
7	1/15/2014 14:22	85471 00	NULL	\$ 18.99	NULL	\$ 7.85
8	1/19/2014 3:20	85412	NULL	\$ 65.//	NULL	NULL
9	1/22/2014 13:44	12588	NULL	\$ 22.38	NULL	\$ 7.35
10	1/28/2014 10:14	85471	1	\$ 24.99	\$ 2.19	\$ 5.40

The system is expected to handle 50 million orders a month over the next five years.



You have been instructed by your Team Lead to follow best practices for storage and performance in the utilization of SPARSE columns.

Which columns should you designate as SPARSE? To answer, mark each column as SPARSE or NOT SPARSE in the answer area.

Hot Area:

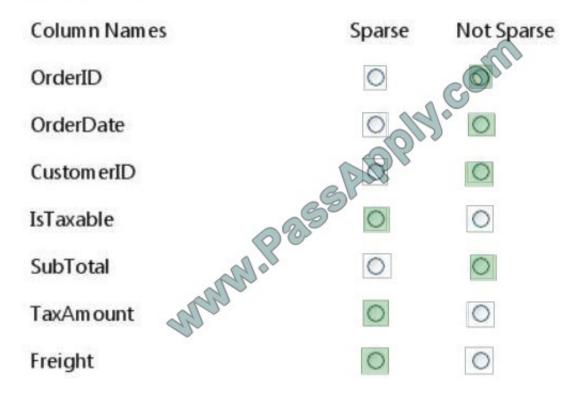
# Answer Area

Column Names	Sparse	Not Sparse
OrderID	0	COM
OrderDate	0/12	• 0
Custom erID	PB F	0
IsTaxable	0	0
SubTotal TaxAmount	0	0
TaxAmount	0	0
Freight	0	0

Correct Answer:



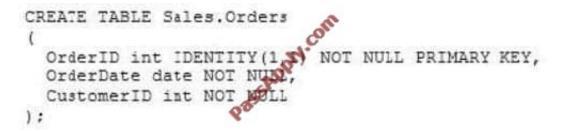
# Answer Area



Note: Sparse columns are ordinary columns that have an optimized storage for null values. Sparse columns reduce the space requirements for null values at the cost of more overhead to retrieve nonnull values. Consider using sparse columns when the space saved is at least 20 percent to 40 percent. Use Sparse Columns

# **QUESTION 8**

You are designing a SQL Server database for an order fulfillment system. You create a table named Sales.Orders by using the following script:



Each order is tracked by using one of the following statuses: Fulfilled Shipped Ordered Received

You need to design the database to ensure that you can retrieve the status of an order on a given date.

The solution must ensure that new statuses can be added in the future.

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

A. To the Sales.Orders table, add a column named Status that will store the order status. Update the Status column as



the order status changes.

B. To the Sales.Orders table, add three columns named FulfilledDate, ShippedDate, and ReceivedDate.Update the value of each column from null to the appropriate date as the order status changes.

C. Implement change data capture on the Sales.Orders table.

D. Create a new table named Sales.OrderStatus that contains three columns named OrderID, StatusDate, and Status. Insert new rows into the table as the order status changes.

Correct Answer: D

References: s http://msdn.microsoft.com/en-us/library/ms191178.aspx

http://msdn.microsoft.com/en-us/library/cc645937.aspx

#### **QUESTION 9**

You need to recommend a solution to minimize the amount of time it takes to execute USP\_1. With what should you recommend replacing Table1?

- A. a temporary table
- B. a function
- C. a view
- D. a table variable

Correct Answer: C

References: http://msdn.microsoft.com/en-us/library/ms175503.aspx http://msdn.microsoft.com/en-us/library/ms190174.aspx

#### **QUESTION 10**

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

Have a default value of false.

Minimize the amount of disk space used.

Which code block should you use?

- A. ALTER TABLE Attendees ADD Confirmed bit DEFAULT 0;
- B. ALTER TABLE Attendees ADD Confirmed char(1) DEFAULT \\'0\\';
- C. ALTER TABLE Attendees ADD Confirmed char(1) DEFAULT \\'1\\';
- D. ALTER TABLE Attendees ADD Confirmed bit DEFAULT 1;



#### Correct Answer: A

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

## **QUESTION 11**

You are creating a database that will store usernames and credit card numbers for an application.

You need to recommend a solution to store and resuse the credit card numbers in the database.

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

- A. Data encryption
- B. Transparent Data Encryption (TDE)
- C. Encrypting File System (EPS)
- D. Data hashing
- Correct Answer: B

If we are going to encrypt credit card number for storage, then we should have Data Encryption Key (DEK) for encrypting the credit card number. http://msdn.microsoft.com/en-us/library/bb934049.aspx

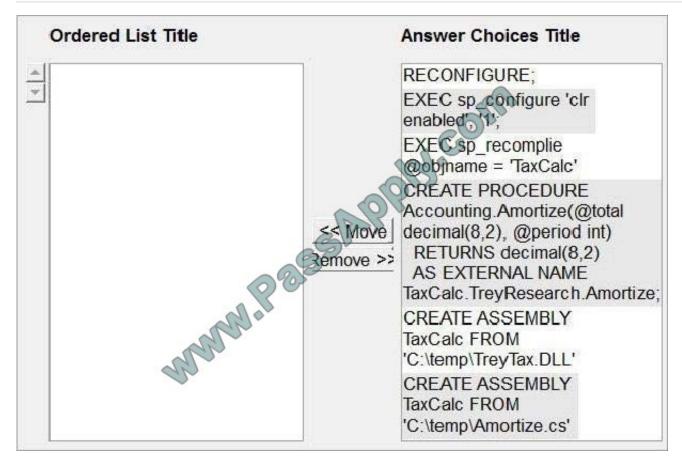
## **QUESTION 12**

You need to build a stored procedure that amortizes the invoice amount. Which code segment should you use to create the stored procedure? To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.

Build List and Reorder:

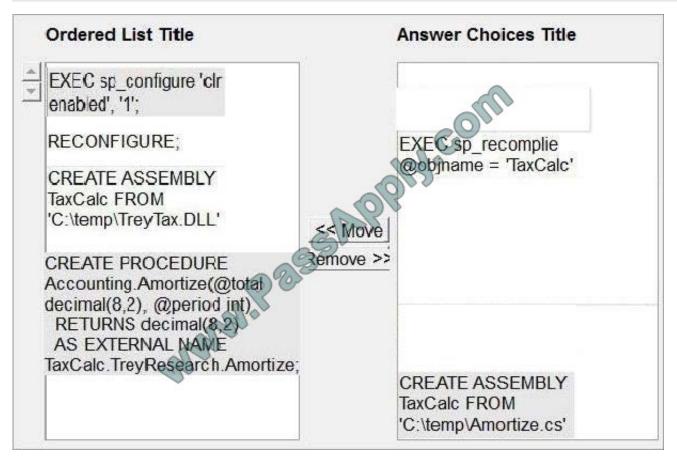
Select and Place:





Correct Answer:





References: http://msdn.microsoft.com/en-us/library/ms131089.aspx http://msdn.microsoft.com/en-us/library/ms131048.aspx http://msdn.microsoft.com/en-us/library/ms187926.aspx

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