70-433 Q&As

TS: Microsoft SQL Server 2008, Database Development

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QUESTION 1

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 1)

B. OPTION (MAXDOP 16)

C. OPTION (MAXDOP 0)

D. OPTION (MAXDOP 4)

Correct Answer: A

QUESTION 2

You are troubleshooting query performance on SQL Server 2008. You have profiler trace data in a table named PerfData. You need to determine which events are taking longer than one second of CPU time or run for more than two seconds.

Which Transact-SQL statement should you use?

A. SELECT TextData, Duration, CPU FROM PerfData WHERE EventClass = 12 AND (CPU > 1000 OR Duration > 2000)

B. SELECT TextData, Duration, CPU FROM PerfData WHERE EventClass = 12 AND (CPU > 1000 OR Duration > 2000000)

C. SELECT TextData, Duration, CPU FROM PerfData WHERE EventClass = 12 AND (CPU > 1000000 OR Duration > 2000)

D. SELECT TextData, Duration, CPU FROM PerfData WHERE EventClass = 12 AND (CPU > 1000000 OR Duration > 2000000)

Correct Answer: B

Beginning with SQL Server 2005, the server reports the duration of an event in microseconds (one millionth, or 10-6, of a second) and the amount of CPU time used by the event in milliseconds (one thousandth, or 10-3, of a second). In SQL Server 2005 and later, the SQL Server Profiler graphical user interface displays the Duration column in milliseconds by default, but when a trace is saved to either a file or a database table, the Duration column value is written in microseconds.

QUESTION 3

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_HOUR
ON DATABASE FOR CREATE_TABLE
AS
IF DATEPART(hour,getdate())<>23
BEGIN
RAISERROR ('Must wait.', 16, 1)
END
```

B.
```
CREATE TRIGGER TRG_TABLES_ON_LAST_HOUR
ON DATABASE FOR CREATE_TABLE,ALTER_TABLE
AS
IF DATEPART(hour,getdate())<>23
BEGIN
RAISERROR ('Must wait.', 16, 1)
END
```

C.
```
CREATE TRIGGER TRG_TABLES_ON_LAST_HOUR
ON DATABASE FOR CREATE_TABLE,ALTER_TABLE
AS
IF DATEPART(hour,getdate())<>1
BEGIN
ROLLBACK
RAISERROR ('Must wait.', 16, 1)
END
```

D.
```
CREATE TRIGGER TRG_TABLES_ON_LAST_HOUR
ON ALL SERVER FOR ALTER_DATABASE
AS
IF DATEPART(hour,getdate())<>1
BEGIN
ROLLBACK
RAISERROR ('Must wait.', 16, 1)
END
```

A. B. C. D.

Correct Answer: A

QUESTION 4

You have the following two tables.

The foreign key relationship between these tables has CASCADE DELETE enabled. You need to remove all records from the Orders table.

Which Transact-SQL statement should you use?

A. DROP TABLE Orders

B. DELETE FROM Orders

C. TRUNCATE TABLE Orders

D. DELETE FROM OrderDetails

Correct Answer: B

QUESTION 5

You are using Database Mail to deliver email notification and are notified that an employee has not been receiving emails.

You need to determine if any email notifications sent by Database Mail have been unsuccessful.

Which object from the msdb database should you use?

A. msdb.dbo.sysmail_event_log

B. msdb.dbo.sysmail_sentitems

C. msdb.dbo.sysmail_unsentitems

D. msdb.dbo.sysmail_faileditems

Correct Answer: D

sysmail_faileditems

Contains one row for each Database Mail message with the failed status. Use this view to determine which messages were not successfully sent.

QUESTION 6

You administer a Microsoft SQL Server 2008 R2 database instance named AdventureWorks.

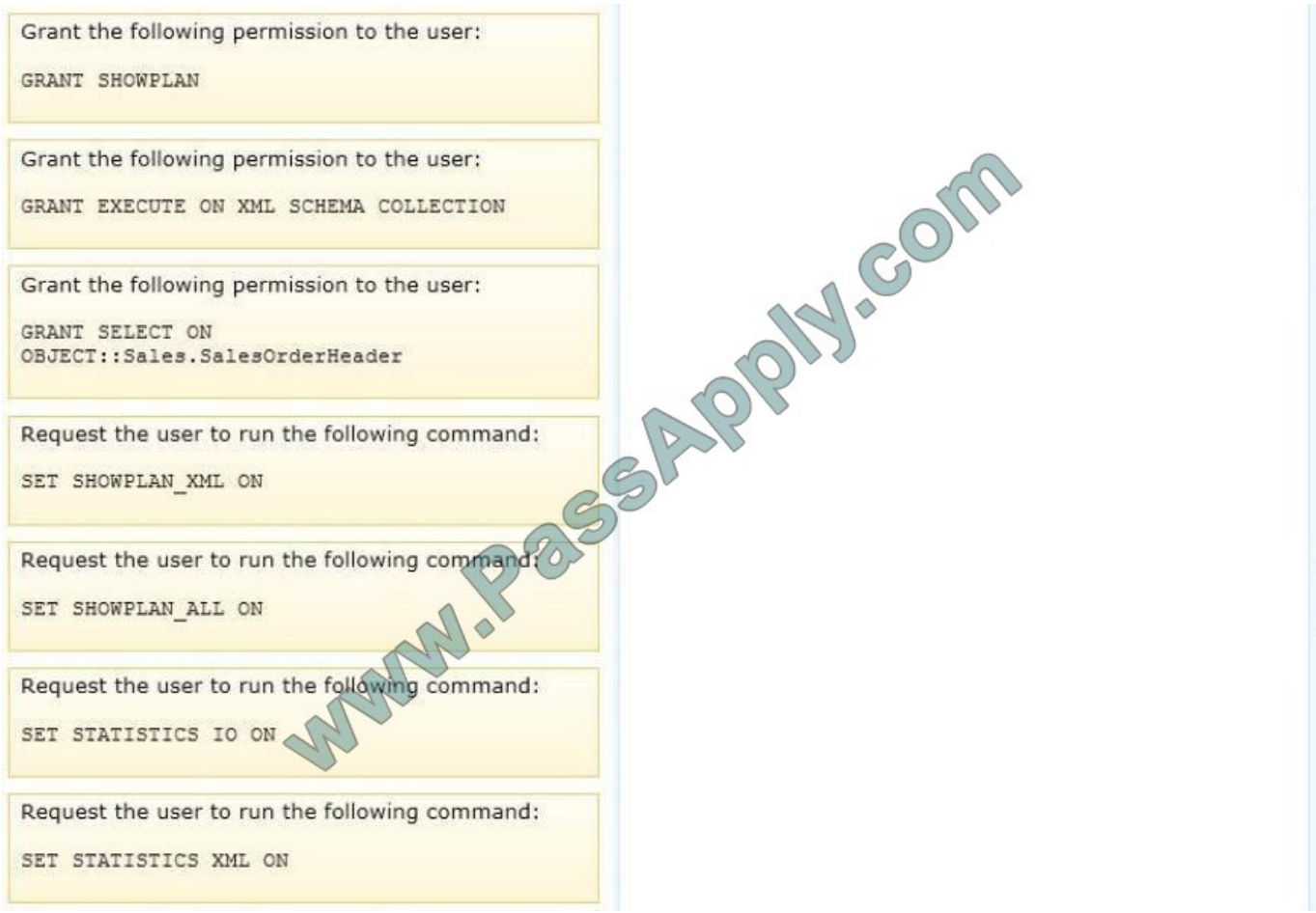
A user who has the db_datareader permissions on the AdventureWorks database wants to view detailed information about how the following query will be

executed:

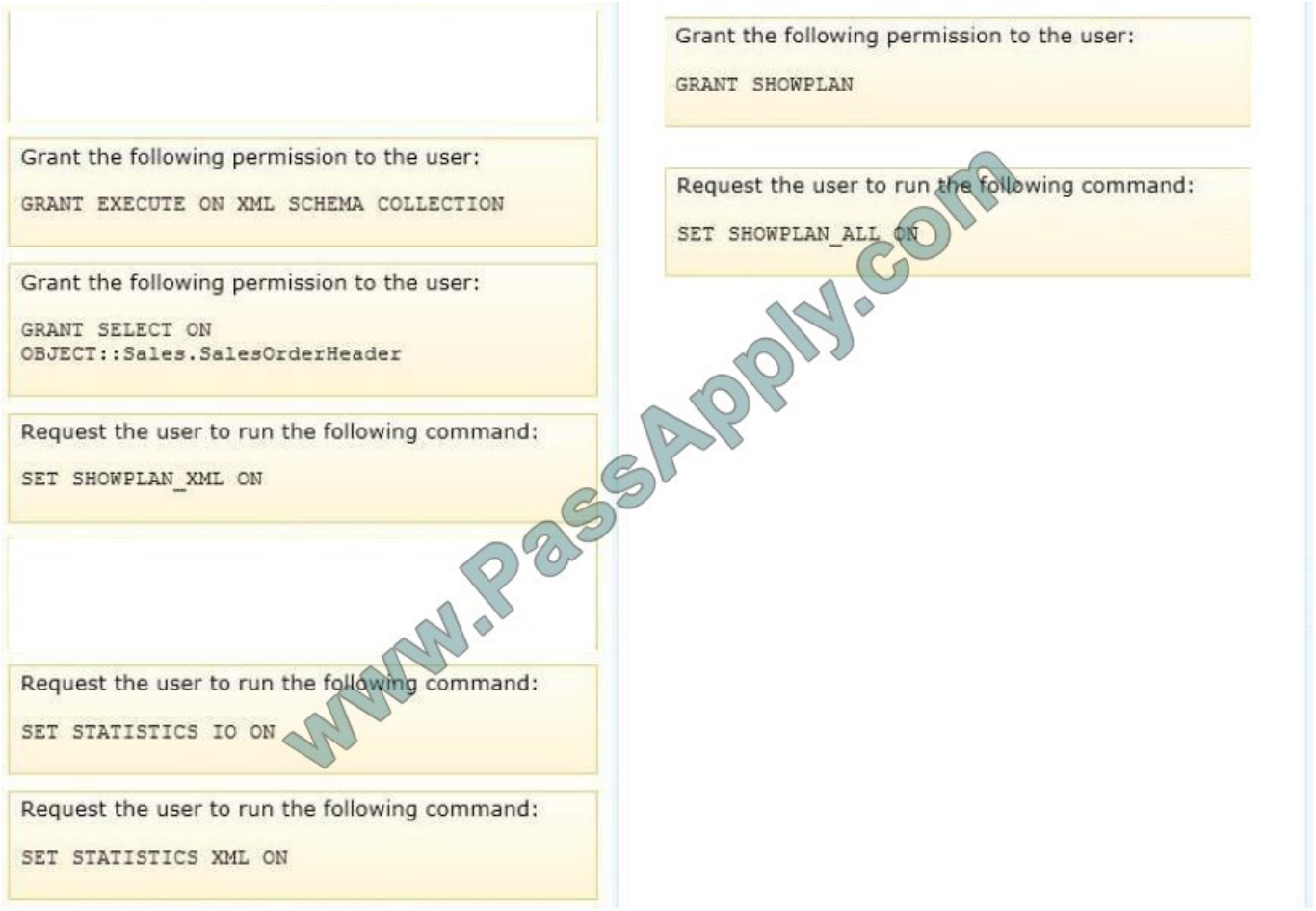
```
SELECT * FROM Sales.SalesOrderHeader
WHERE OnlineOrderFlag = 1 AND SubTotal > 500
```

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.)

Select and Place:



Correct Answer:



QUESTION 7

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 Sales RIGHT JOIN CHANGETABLE (CHANGES Sales, 10) AS C ...

B. FROM Sales INNER JOIN CHANGETABLE (CHANGES Sales, 10) AS C ...

C. FROM Sales INNER JOIN CHANGETABLE (CHANGES SalesArchive, 10) AS C ...

D. FROM Sales RIGHT JOIN CHANGETABLE (CHANGES SalesArchive, 10) AS C ...

Correct Answer: A

QUESTION 8

You have the following two tables.

Products

ProductID	ProductName	VendorID
1	Product1	0
2	Product2	1
3	Product3	1
4	Product4	0

ProductChanges

ProductID	ProductName	VendorID
1	Product1	1
2	Product2	1
3	NewProduct3	2
5	Product5	1

You execute the following statement. MERGE Products USING ProductChanges ON (Products.ProductID = ProductChanges.ProductID) WHEN MATCHED AND Products.VendorID = 0 THEN DELETE WHEN 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	VendorID
2	Product2	1
3	NewProduct3	2

B.

ProductID	ProductName	VendorID
2	Product2	1
3	NewProduct3	2
4	Product4	0

C.

ProductID	ProductName	VendorID
1	Product1	1
2	Product2	1
3	NewProduct3	2
5	Product5	1

D.

ProductID	ProductName	VendorID
1	Product1	1
2	Product2	1
3	NewProduct3	2
4	Product4	0
5	Product5	1

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 9

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 an index on the Surname column.

B. Create a computed column for each collation that needs to be searched. Create an index on the Surname column.

C. Create a computed column for each collation that needs to be searched. Create an index on each computed column.

D. 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.

Correct Answer: C

-- Add computed columns with different collations.

ALTER TABLE Person

ADD Surname_RU AS Surname COLLATE Cyrillic_General_CI_AS, Surname_JP AS Surname COLLATE Japanese_CI_AS_KS; -- Create an index on the computed columns.

CREATE NONCLUSTERED INDEX IX_Person_Surname_RU ON Person (Surname_RU); CREATE NONCLUSTERED INDEX IX_Person_Surname_JP ON Person (Surname_JP); GO

QUESTION 10

You have a table named Products.Product. The table has columns ProductID, Name, Size, and Category. You have a variable named @XML with following XML value:

You are tasked to write a query that lists the products in Products.Product that match the categories listed in the XML document.

You need to write a query to accomplish the task.

Which query should you write?

A. SELECT p.ProductID, p.Name, p.Size, p.Category FROM Production.Product p CROSS APPLY @XML.nodes(\\'//Category\\') as x(s)

B. SELECT p.ProductID, p.Name, p.Size, p.Category FROM Production.Product p OUTER APPLY @XML.nodes(\\'//Category\\') as x(s)

C. WITH XMLTable AS (SELECT s.value(\\'@Name\\',\\'varchar(20)\\') as Category FROM @XML.nodes(\\'//Category\\') as x(s)) SELECT p.ProductID, p.Name, p.Size, p.Category FROM Production.Product p INNER JOIN XMLTable x ON p.Category = x.Category

D. WITH XMLTable AS (SELECT s.value(\\'@Category\\',\\'varchar(20)\\') as Category FROM @XML.nodes(\\'//Category\\') as x(s)) SELECT p.ProductID, p.Name, p.Size, p.Category FROM Production.Product p INNER JOIN XMLTable x ON p.Category = x.Category

Correct Answer: C

QUESTION 11

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_removedocument

B. sp_xml_preparedocument

C. sp_reserve_http_namespace

D. sp_delete_http_namespace_reservation

Correct Answer: A

sp_xml_removedocument removes the internal representation of the XML document specified by the document handle and invalidates the document handle. sp_xml_preparedocument reads the XML text provided as input, parses the text by using the MSXML parser (Msxmlsql.dll), and provides the parsed document in a state ready for consumption. This

parsed document is a tree representation of the various nodes in the XML document: elements, attributes, text, comments, and so on. A parsed document is stored in the internal cache of SQL Server. The MSXML parser uses one-eighth the total memory available for SQL Server. To avoid running out of memory, run sp_xml_removedocument to free up the memory.

QUESTION 12

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

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 TRY
BEGIN CATCH

IF @@TRANCOUNT > 0 BEGIN
  ROLLBACK TRANSACTION;
END;

END CATCH;
```

B.

```
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;
```

A. B.

C.

```
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 TRY
BEGIN CATCH

IF @@TRANCOUNT > 0 BEGIN
  ROLLBACK TRANSACTION DataLoad;
END;

END CATCH;
```

D.

```
SET XACT_ABORT ON
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;
```

C. D.

Correct Answer: B

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