Vendor: Microsoft

Exam Code: 70-459

Exam Name: Transition Your MCITP: Database Administrator 2008 or MCITP: Database Developer 2008 to MCSE: Data Platform Exam

Version: DEMO

Case Study 1 - A. Datum (QUESTION 40 ~ QUESTION 46)

Case Study 2 - Contoso Ltd (QUESTION 47 ~ QUESTION 51)

Case Study 3 - Litware, Inc (QUESTION 52 ~ QUESTION 58)

Case Study 4 - Application Scenario (QUESTION 59 ~ QUESTION 63)

Case Study 5 - Manufacturing Company (QUESTION 64 ~ QUESTION 68)

Case Study 6 - Database Application Scenario (QUESTION 69 ~ QUESTION 73)

Case Study 7 - Invoice Scehma Scenario (QUESTION 74 ~ QUESTION 80)

Case Study 8 - Fourth Coffee (QUESTION 81 ~ QUESTION 95)

Background
Corporate Information
Fourth Coffee is global restaurant chain. There are more than 5,000 locations worldwide.

Physical Locations
Currently a server at each location hosts a SQL Server 2012 instance. Each instance contains a database called StoreTransactions that stores all transactions from point of sale and uploads summary batches nightly.
Each server belongs to the COFFECORP domain. Local computer accounts access the StoreTransactions database at each store using sysadmin and data reader writer roles.

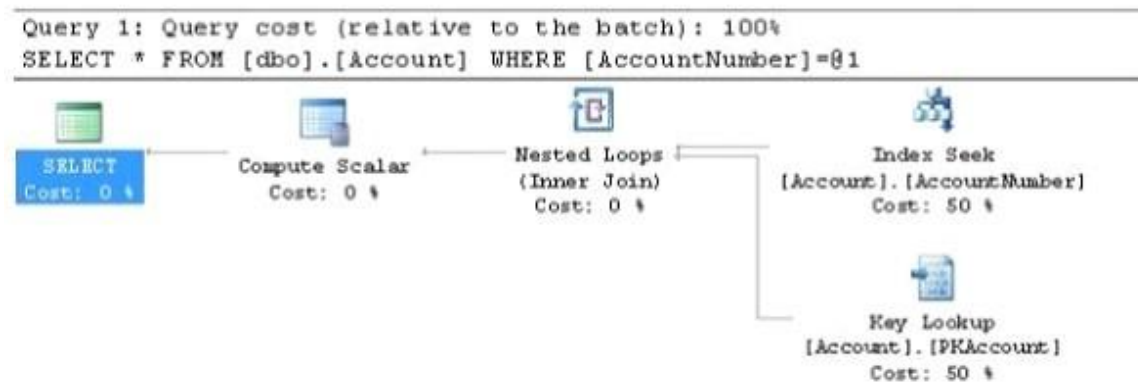**QUESTION 1**
You administer an instance of SQL Server 2014.
You are tasked with tuning a common set of queries.
You have the results of several test executions, along with query plans.
The schema and the data for all database object(s) used remain unchanged between executions.
The QueryTime column is defined as a computed column that uses the GETDATEO system function.
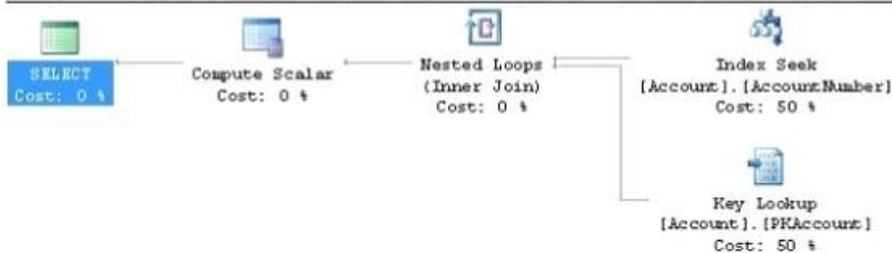The query plans and results are shown below:

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

```
Query 1: Query cost (relative to the batch): 100%
SELECT * FROM [dbo].[Account]  WHERE [AccountNumber]=@1
```

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

```
SELECT *
FROM    dbo.Account
WHERE AccountNumber IN( 'A10000001','Q88700323','R00000012')
GO
```

Query 1: Query cost (relative to the batch): 100%
SELECT * FROM dbo.Account WHERE AccountNumber IN('A10000001','Q88700323','R00000012')

SELECT
Cost: 0 %

Compute Scalar
Cost: 0 %

Nested Loops
(Inner Join)
Cost: 0 %

Index Seek
[Account].[AccountNumber]
Cost: 50 %

Key Lookup
[Account].[PKAccount]
Cost: 50 %

AccountID	AccountNumber	Name	QueryTime
-------------------------------- ------	---------------- -	------------ -	------------------------ ----
0F63B176-7257-4480-9D0E-126C45 CEFFF1	A10000001	Don Hall	2014-01-29 20:14:05.660
337227AA-3A4B-4B28-8E02-0ADEAD 06EA10	Q88700323	Darren Parker	2014-01-29 20:14:05.660
C4980E64-874E-4640-8826- BAF35D8FB845	R00000012	Carol Philips	2014-01-29 20:14:05.660

You need to make an initial diagnosis of the situation, based solely on this input.
Which two statements can you make about the performance characteristics of this query?
Each correct answer presents a complete solution. Choose two.

A. The queries would perform better if the index named AccountNumber included the Name and QueryTime column.
B. The queries would perform worse if the index named AccountNumber included the NameColumn.
C. The queries would perform better if the index named AccountNumber included the Name column.
D. The object Account is a table, with an index havinga leading column of AccountNumber and a Clustered Index named PKAccount.
E. The object Account is an indexed view, with an index having a leading column of AccountNumber and a Clustered Index named PKAccount.
F. The object Account is a view, joining the Account-AccountNumber and Account.PKAccount objects together.

Answer: BD

QUESTION 2
You administer a SQL Server 2014 instance.
Users report that the SQL Server has seemed slow today.
A large database was being restored for much of the day, which could be causing issues.
You want to write a query of the system views that will report the following:

```
- Number of users that have aconnection to the server
- Whether a user's connection is active
- Whether any connections are blocked
- What queries are being executed
- Whether the database restore is still executing and, if it is, what
percentage of the restore is complete
```

Which system objects should you use in your query to best achieve this task?

A. sys.dm_exec_requests, sys.dm_exec_sessions, sys.objects
B. sys.dm_exec_sessions, sys.dm_exec_query_stats, sys.dm_exec_query_text,sys.objects
C. sys.sysprocesses, sys.dm_exec_query_text, sys.objects
D. sys.dm_exec_requests, sys.dm_exec_sessions, sys.dm_exec_query_text

Answer: D
Explanation:
* sys.dm_exec_requests
Returns information about each request that is executing within SQL Server.
* sys.dm_exec_sessions
Returns one row per authenticated session on SQLServer. sys.dm_exec_sessions is a server-scope view that shows information about all active user connections and internal tasks. This information includes client version, client program name, client login time, login user, current session setting, and more.
* sys.dm_exec_query_text
Returns the text of the SQL batch that is identified by the specified sql_handle.
sys.dm_exec_requests (Transact-SQL)
sys.dm_exec_sessions (Transact-SQL)

QUESTION 3
You are troubleshooting an application that runs a query. The application frequently causes deadlocks.
You need to identify which transaction causes the deadlock.
What should you do?
More than one answer choice may achieve the goal. Select the BEST answer.

A. Query the sys.dm_exec_sessions dynamic management view.
B. Create an extended events session to capture deadlock information.
C. Query the sys.dm_exec_requests dynamic management view.
D. Create a trace in SQL Server Profiler that contains the Deadlock graph event.

Answer: B
Explanation:
http://www.sqlservercentral.com/blogs/james-sql-footprint/2012/08/12/monitor-deadlock-in-sql-2012/

http://blogs.technet.com/b/mspfe/archive/2012/06/28/
how_2d00_to_2d00_monitor_2d00_deadlocks_2d00_in_2d00_sql_2d00_server.aspx
http://msdn.microsoft.com/en-us/library/ms177648.aspx
http://msdn.microsoft.com/en-us/library/ms176013.aspx
http://msdn.microsoft.com/en-us/library/ms188246.aspx

QUESTION 4
You have a server named Server1 that has 16 processors.
You plan to deploy multiple instances of SQL Server 2012 to Server1.
You need to recommend a method to allocate processors to each instance.
What should you include in the recommendation?
More than one answer choice may achieve the goal. Select the BEST answer.

A. Max Degree of Parallelism
B. Processor affinity
C. Windows System Resource Manager (WSRM)
D. Resource Governor

Answer: B
Explanation:
http://msdn.microsoft.com/en-us/library/ms187104.aspx
http://msdn.microsoft.com/en-us/library/ms188611.aspx
http://msdn.microsoft.com/en-us/library/bb933866.aspx

QUESTION 5
You have a SQL Server 2014 database named Database1.
You execute the following code:

```
CREATE TABLE Sales
(
  ID int IDENTITY(1,1) NOT NULL PRIMARY KEY,
  OrderDate char(10) NOT NULL,
  Amount decimal
);
GO

CREATE INDEX IX_Sales_OrderDate
  ON Sales(OrderDate)
  INCLUDE (ID, Amount);
GO

CREATE PROC usp_Proc1(
  @date1 datetime,
  @date2 datetime
)
AS
SELECT ID, OrderDate, Amount
  FROM Sales
  WHERE CAST(OrderDate AS datetime)
    BETWEEN @date1 AND @date2
  ORDER BY ID;
GO
```

You insert 3 million rows into Sales.

You need to reduce the amount of time it takes to execute Procl.
What should you do?

C A. Change the query inside Proc1 to:

```
SELECT ID, OrderDate, Amount
FROM Sales
WHERE OrderDate BETWEEN CONVERT(char(10),@date1,112)
AND CONVERT(char(10),@date2,112)
ORDER BY ID;
```

C B. Change the definition of Proc1 to:

```
CREATE PROC usp_Proc1(
@date1 int, @date2 int
)
```

C C. Change the query inside Proc1 to:

```
SELECT ID, OrderDate, Amount
FROM Sales
WHERE CAST(OrderDate AS datetime) < @date1
AND CAST(OrderDate AS datetime) > @date2
ORDER BY ID;
```

C D. Change the definition of Proc1 to:

```
CREATE PROC usp_Proc1(
@date1 date, @date2 date
)
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

QUESTION 6
You have a SQL Azure database.
You need to identify which keyword must be used to create a view that will be indexed.
Which keyword should you identify?

A. DISTINCT
B. DEFAULT
C. SCHEMABINDING
D. VIEW_METADATA

Answer: C
Explanation:
http://msdn.microsoft.com/en-us/library/ms187956.aspx
http://msdn.microsoft.com/en-us/library/ms191432.aspx

QUESTION 7
You have a text file that contains an XML Schema Definition (XSD).
You have a table named Schema1.Table1.
You have a stored procedure named Schema1.Proc1 that accepts an XML parameter named Param1.
You need to store validated XML data in Schema1.Table1.
The solution must ensure that only valid XML data is accepted by Param1.
What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

A. Use the modify method to insert the XML schema into each row of the XML column in Table1.
B. Define an XML column in Table1 by using an XML schema collection.
C. Declare Param1 var1 as type XML and associate the variable to the XML schema collection.
D. Create an XML schema collection in the database from the text file.

Answer: BCD
Explanation:
http://msdn.microsoft.com/en-us/library/bb510420.aspx
http://msdn.microsoft.com/en-us/library/ms187856.aspx
http://msdn.microsoft.com/en-us/library/ms176009.aspx
http://msdn.microsoft.com/en-us/library/hh403385.aspx
http://msdn.microsoft.com/en-us/library/ms184277.aspx

QUESTION 8
You have an index for a table in a SQL Azure database.
The database is used for Online Transaction Processing (OLTP).
You discover that many page splits occur when records are inserted or updated in the table.
You need to minimize the number of page splits.
What should you set from the index options?

A. FILLFACTOR = 0
B. STATISTICS_NORECOMPUTE = ON
C. STATISTICS_NORECOMPUTE = OFF
D. FILLFACTOR = 80

Answer: D
Explanation:
http://msdn.microsoft.com/en-us/library/ms188783.aspx
http://msdn.microsoft.com/en-us/library/ms177459.aspx

QUESTION 9
You have a table named ORDERS that contains 10,514,003 Orders. The ORDERS table has an IDENTITY (1,1) column named ORDERID. ORDERID is the UNIQUE CLUSTERED INDEX and PRIMARY KEY for the table.
The first ORDERID is 1. There are no missing ORDERIDs in the set.
Based on table usage patterns, you decide to use partitioning on this table based off of the

ORDERID column.
You need to create the following partitions:

Partition	Values
1	Orders <= 7,500,000
2	Orders > 7,500,000 and <= 10,000,000
3	Orders > 10,000,000

Which code should you use to create the partition function?

A. CREATE PARTITION FUNCTION pfOrderIDRange (int) AS RANGE LEFT FOR VALUES (7500000,10000000)

B. CREATE PARTITION FUNCTION pfOrderIDRange (int) AS RANGE LEFT FOR VALUES (0,7500000,10000000)

C. CREATE PARTITION FUNCTION pfOrderIDRange (int) AS RANGE RIGHT FOR VALUES (7500000,10000000)

D. CREATE PARTITION FUNCTION pfOrderIDRange (int) AS RANGE RIGHT FOR VALUES (0,7500000,10000000)

A. Option A
B. Option B
C. Option C
D. Option D

Answer: A
Explanation:
http://msdn.microsoft.com/en-us/library/ms187802.aspx

QUESTION 10
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 resue 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

Answer: B
Explanation:
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

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