

# 70-412 - Configuring Advanced Windows Server 2012 Services

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1. You need to recommend a solution that meets the concurrency problems.

What should you include in the recommendation?

- A. Modify the stored procedures to use the `SERIALIZABLE` isolation level.
- B. Modify the order in which `usp_AcceptCandidate` accesses the Applications table and the Candidates table.
- C. Modify the order in which `usp_UpdateCandidate` accesses the Applications table and the Candidates table.
- D. Modify the stored procedures to use the `REPEATABLE READ` isolation level.

**Answer: C**

2. You need to ensure that a new execution plan is used by `usp_GetOrdersByProduct` each time the stored procedure runs.

What should you do?

- A. Execute `sp_help 'usp_GetOrdersByProduct'`.
- B. Execute `sp_recompile 'usp_GetOrdersByProduct'`.
- C. Add `WITH RECOMPILE` to line 03 in `usp_GetOrdersByProduct`.
- D. Add `WITH (FORCESEEK)` to line 07 in `usp_GetOrdersByProduct`.

**Answer: C**

Explanation:

Ref: [http://msdn.microsoft.com/en-us/library/ms190439\(v=sql.90\).aspx](http://msdn.microsoft.com/en-us/library/ms190439(v=sql.90).aspx)

3. You need to implement a solution that addresses the performance issues of the `usp_GetOrdersByProduct` stored procedure.

Which statement should you execute?

- A. CREATE INDEX IX\_OrderDetails\_ByProduct  
ON OrderDetails (ProductID)  
INCLUDE (OrderID, LineItem, UnitPrice, Total, Discount)
- B. CREATE INDEX IX\_OrderDetails\_ByProduct  
ON OrderDetails (ProductID)  
INCLUDE (LineItem, Quantity, UnitPrice, Total, Discount)
- C. CREATE INDEX IX\_OrderDetails\_ByProduct  
ON OrderDetails (ProductID)
- D. CREATE INDEX IX\_OrderDetails\_ByProduct  
ON OrderDetails (ProductID)  
INCLUDE (LineItem, Quantity, UnitPrice, Discount)

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

**Answer: C**

4. You need to modify usp\_GetOrdersAndItems to ensure that an order is NOT retrieved by usp\_GetOrdersAndItems while the order is being updated.

What should you add to usp\_GetOrdersAndItems?

- A. Add SET TRANSACTION ISOLATION LEVEL SERIALIZABLE to line 03.
- B. Add SET TRANSACTION ISOLATION LEVEL SNAPSHOT to line 03.
- C. Add (UPDLOCK) to the end of line 06.
- D. Add (READPAST) to the end of line 06.

**Answer: D**

5. You need to implement a solution that addresses the bulk insert requirements.

What should you add to line 08 in usp\_ImportOrderDetails?

- A. LASTROW=0.
- B. BATCHSIZE=0.
- C. BATCHSIZE=1000.
- D. LASTROW = 1000.

**Answer: C**

6. You need to implement a solution that addresses the page split issues.

Which statement should you execute?

- A. ALTER INDEX IX\_Orders\_ShipDate ON Orders  
REBUILD WITH (PAD\_INDEX=OFF, DROP\_EXISTING = ON);
- B. ALTER INDEX IX\_Orders\_ShipDate ON Orders  
REBUILD WITH (FILLFACTOR=50, DROP\_EXISTING = ON);
- C. ALTER INDEX IX\_Orders\_ShipDate ON Orders  
REBUILD WITH (FILLFACTOR = 0, DROP\_EXISTING = ON);
- D. ALTER INDEX IX\_Orders\_ShipDate ON Orders  
REBUILD WITH (PAD\_INDEX=ON, DROP\_EXISTING = ON);

**Answer: B**

7. You need to implement a solution that solves the performance issues of usp\_GetOrdersAndItems.

Which statements should you execute?

- A. CREATE INDEX IX\_Orders\_Active ON Orders(ShipDate, DeliveryDate, Amount)
- B. CREATE INDEX IX\_Orders\_Active ON Orders(DeliveryDate) INCLUDE(Amount) WHERE ShipDate IS NULL
- C. CREATE INDEX IX\_Orders\_Active ON Orders(DeliveryDate, Amount) WHERE ShipDate IS NULL
- D. CREATE INDEX IX\_Orders\_Active ON Orders(ShipDate, DeliveryDate) INCLUDE( Amount)

**Answer: B**

8. You discover that the usp\_GetOrdersAndItems stored procedure takes a long time to complete while usp\_AddOrder or usp\_AddXMLOrder run.

You need to ensure that usp\_GetOrdersAndItems completes as quickly as possible.

What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Set the isolation level of the usp\_GetOrdersAndItems stored procedure to SERIALIZABLE.
- B. Execute the ALTER DATABASE Sales SET ALLOW\_SNAPSHOT\_ISOLATION ON statement.
- C. Set the isolation level of the usp\_AddOrder stored procedure to SERIALIZABLE.
- D. Set the isolation level of the usp\_GetOrdersAndItems stored procedure to SNAPSHOT.
- E. Set the isolation level of the usp\_AddOrder stored procedure to SNAPSHOT.
- F. Execute the ALTER DATABASE Sales SET ALLOW\_SNAPSHOT\_ISOLATION OFF statement.

**Answer:** B,D

9. You need to ensure that usp\_AddXMLOrder can be used to validate the XML input from the retailers.

Which parameters should you add to usp\_AddXMLOrder on line 04 and line 05? (Each correct answer presents part of the solution. Choose all that apply.)

- A. @schema varbinary(100).
- B. @items varchar(max).
- C. @schema sysname.
- D. @items varbinary(max).
- E. @items xml.
- F. @schema xml.

**Answer:** C,E

10. You need to ensure that a new execution plan is used by usp\_GetOrdersByProduct each time the stored procedure runs.

What should you do?

- A. Execute sp\_help usp\_GetOrdersByProduct\
- B. Add WITH (FORCESEEK) to line 69 in usp.GetOrdersByProduct.
- C. Add WITH RECOMPILE to line 64 in usp.GetOrdersByProduct.
- D. Execute sp\_recompile usp.GetOrdersByProduct'.

**Answer: B**

11. You need to implement a solution that meets the site requirements.

What should you implement?

- A. A non-indexed view on Server1
- B. A non-indexed view on Server2
- C. A distributed view on Server1
- D. A distributed view on Server2

**Answer: C**

12. You need to implement a solution that addresses the index monitoring requirements.

What should you do?

- A. Schedule a SQL Server Agent job that saves data from the dynamic management views to a table in the database.
- B. Create a SQL Server Audit that saves data to a log file, and then create a SQL Server Audit Specification that gathers data from the DATABASE\_OPERATION group.
- C. Create a performance monitor Data Collector Set (DCS) that monitors the SQL Server counters.
- D. Schedule a SQL Server Profiler trace, and then save the trace data to a table in the database.

**Answer: A**

13. You need to modify usp.GetOrdersAndItems to ensure that an order is NOT retrieved by usp\_GetOrdersAndItems while the order is being updated.

What should you add to usp.GetOrdersAndItems?

- A. Add WITH (NOLOCK) to the end of line 47.
- B. Add SET TRANSACTION ISOLATION LEVEL READ COMMITTED to line 44.
- C. Add SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED to line 44.
- D. Add WITH (READPAST) to the end of line 47.

**Answer: B**

14. You need to modify the Orders table to store the XML data used by the retailers. Which statement should

you execute?

A. ALTER Orders

ADD originalOrder XML (ValidateOrder);

B. ALTER Orders

ADD originalOrder XML;

C. ALTER Orders

ADD originalOrder varchar(max);

D. ALTER Orders

ADD originalOrder varbinary(max);

**Answer: D**

15. You plan to create a stored procedure that inserts data from an XML file to the OrderDetails table. The following is the signature of the stored procedure:

```
CREATE PROCEDURE usp_InsertItems  
    @items XML (ValidateOrder)
```

The following is the XSD file used to create the ValidateOrder schema collection:

```
<?xml version="1.0" encoding="UTF-16"?>
<xsd:schema
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" >
<xsd:element name="root">
  <xsd:complexType mixed="true">
    <xsd:sequence>
      <xsd:element name="Product"
        minOccurs="1" maxOccurs="unbounded">
        <xsd:complexType mixed="true">
          <xsd:sequence>
            <xsd:element name="UnitPrice" type="xsd:decimal"
              minOccurs="1" maxOccurs="1" />
            <xsd:element name="Quantity" type="xsd:integer"
              minOccurs="1" maxOccurs="1" />
          </xsd:sequence>
          <xsd:attribute name="lineItem"
            type="xsd:integer" use="required"/>
          <xsd:attribute name="productID"
            type="xsd:integer" use="required"/>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
    <xsd:attribute name="numberItems"
      type="xsd:integer" use="required"/>
  </xsd:complexType>
</xsd:element>
</xsd:schema>
```

You develop a code segment that retrieves the number of items and loops through each item. Each time the loop runs, a variable named @itemNumber is incremented.

You need to develop a code segment that retrieves the product ID of each item number in the loop.

Which code segment should you develop?

- A. SET @productID = @items.value'/Root/Product/productID', int)
- B. SET @productID = @items.value'/Root/Product['+ @itemNumber+ ']/@productID', int)
- C. SET @productID = @items.value'/Root/Product['+ @itemNumber+ ']/productID', int)
- D. SET @productID = @items.value'/Root/Product/@productID', int)

**Answer: B**

16. You need to implement security for the restore and audit process. What should you do?

- A. Grant the COFFECORP\Auditors group ALTER ANY CONNECTION and SELECT ALL USER SECURABLES permissions. Grant the COFFECORP\StoreAgent group ALTER ANY CONNECTION and IMPERSONATE ANY LOGIN permissions.



B. Grant the COFFECORP\Auditors group CONNECT ANY DATABASE and IMPERSONATE ANY LOGIN permissions. Grant the COFFECORP\StoreAgent group CONNECT ANY DATABASE and SELECT ALL USER SECURABLES permissions.

C. Grant the COFFECORP\Auditors group ALTER ANY CONNECTION and IMPERSONATE ANY LOGIN permissions. Grant the COFFECORP\StoreAgent group ALTER ANY CONNECTION and SELECT ALL USER SECURABLES permissions.

D. Grant the COFFECORP\Auditors group CONNECT ANY DATABASE and SELECT ALL USER SECURABLES permissions. Grant the COFFECORP\StoreAgent group CONNECT ANY DATABASE and IMPERSONATE ANY LOGIN permissions.

**Answer: A**

17. You need to modify the stored procedure usp\_LookupConcurrentUsers. What should you do?

- A. Use the summary table as an in-memory optimized table with a non-hash clustered index.
- B. Use the summary table as an in-memory optimized table with a non-hash nonclustered index.
- C. Use a type variable instead of the summary table.
- D. Add a clustered index to the summary table.

**Answer: A**

18. You need to design the UserActivity table.

Which three steps should you perform in sequence? To answer, move the appropriate three actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Create a nonclustered hash index.	
Create a clustered columnstore index.	
Create a partitioning scheme for use by the table.	
Use an ALTER INDEX REBUILD on a specific partition.	
Use an ALTER INDEX REORGANIZE on a specific partition.	

Answer:

Actions	Answer Area
Create a nonclustered hash index.	Create a clustered columnstore index.
Create a clustered columnstore index.	Create a partitioning scheme for use by the table.
Create a partitioning scheme for use by the table.	Use an ALTER INDEX REORGANIZE on a specific partition.
Use an ALTER INDEX REBUILD on a specific partition.	
Use an ALTER INDEX REORGANIZE on a specific partition.	

19. You need to optimize the index and table structures for POSTransaction.

Which task should you use with each maintenance step? To answer, drag the appropriate tasks to the correct maintenance steps. Each task may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Tasks	Maintenance Steps
an identity for UserActivityID starting at the next value	Convert UserActivity to use <span style="float: right;">Task</span>
a sequence for UserActivityID starting at the next value	Copy UserActivity metadata to create UserActivity_Archive as <span style="float: right;">Task</span>
on-disk tables using the partitioning scheme	After copying UserActivity metadata to create UserActivity_Staging, create a view on top of <span style="float: right;">Task</span>
in-memory tables using the partitioning scheme	After switching a new partition from UserActivity_Staging into UserActivity_Archive, <span style="float: right;">Task</span>
UserActivity and UserActivity_Archive	
UserActivity, UserActivity_Staging, and UserActivity_Archive	
Alter the partition function and UserActivity_Staging constraints	
Alter the partition function and UserActivity_Archive constraints	

Answer:

Tasks	Maintenance Steps
an identity for UserActivityID starting at the next value	Convert UserActivity to use a sequence for UserActivityID starting at the next value
a sequence for UserActivityID starting at the next value	
on-disk tables using the partitioning scheme	Copy UserActivity metadata to create UserActivity_Archive as on-disk tables using the partitioning scheme
in-memory tables using the partitioning scheme	
UserActivity and UserActivity_Archive	After copying UserActivity metadata to create UserActivity_Staging, create a view on top of UserActivity and UserActivity_Archive
UserActivity, UserActivity_Staging, and UserActivity_Archive	
Alter the partition function and UserActivity_Staging constraints	After switching a new partition from UserActivity_Staging into UserActivity_Archive, Alter the partition function and UserActivity_Archive constraints
Alter the partition function and UserActivity_Archive constraints	

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