Microsoft

Exam Questions 70-464

Developing Microsoft SQL Server 2012 Databases
1. You create a view by using the following code:

```sql
CREATE VIEW dbo.View1
WITH VIEW_METADATA
AS
SELECT t1.col1, t1.col2, t2.*
FROM dbo.Table1 AS t1 JOIN dbo.Table2 AS t2 ON t1.col1 = t2.col2;
```

Several months after you create the view, users report that the view has started to return unexpected results.

You discover that the design of Table2 was modified since you created the view.

You need to ensure that the view returns the correct results.

Which code segment should you run?

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

**Answer:** D

2. You have a server that has SQL Server 2012 installed.

You need to identify which parallel execution plans are running in serial.

Which tool should you use?

A. Performance Monitor
B. Database Engine Tuning Advisor
C. Data Profile Viewer
D. Extended Events

**Answer:** D

**Explanation:**

http://www.sqlservercentral.com/articles/SQL+Server+2012/At+last%2c+execution+plans+show+true+thread+reservations./92458/

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3. Your network contains a server named Server1 that runs SQL Server 2012. Server1 contains an instance named Instance1. Instance1 contains a database named ContentDatabase.

ContentDatabase uses transaction log backups.

The recovery model of ContentDatabase is set to FULL.

You need to shrink the ContentDatabase_Log log file to 10 MB. The solution must ensure that you can continue to back up the transaction log.

Which three code segments 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.

Answer:

4. You have database objects that were created by using the following script:
The `dbo.Customers` table has 1 million rows.

You discover that `usp_GetCustomersByDate` takes a long time to complete.

The query plan used by the stored procedure is shown in the exhibit. (Click the Exhibit button.)

You need to ensure that `usp_GetCustomersByDate` completes as quickly as possible. What should you do?

A. Modify the stored procedure to include the OPTIMIZE FOR UNKNOWN query hint.
B. Execute the `sp_recompile 'dbo.GetCustomersByDate'` statement.
C. Execute the `ALTER INDEX IX_Customers_CreationDate WITH REBUILD` statement.
D. Modify the stored procedure to include the OPTIMIZE FOR('1/1/2008') query hint.

Answer: A

5. You have a SQL Server 2012 database named `DB1` that is accessed by 650 concurrent users.

You need to log all of the queries to `DB1` that become deadlocked. The solution must meet the following requirements:

- Provide a representation of the deadlock in XML format.
- Minimize the impact on the server.

What should you create?

A. A SQL Server Profiler trace
B. A SQL Server Agent job that retrieves information from the `sys.dm_tran_session_transactions` dynamic management views
C. A SQL Server Agent job that retrieves information from the `sys.dm_tran_active_transactions` dynamic management views
D. A script that enables trace flags

Answer: A

6. You have a SQL Azure database.

You execute the following code:
CREATE SCHEMA Sales;
GO

CREATE TABLE Sales.Customers
(
    CustomerID int IDENTITY(1,1) PRIMARY KEY,
    FaxNumber char(10) SPARSE NULL,
    CustomerName varchar(100) NOT NULL,
    EmailAddress varchar(100) NOT NULL
);
GO

CREATE PROCEDURE Sales.CustomersByFaxNumber
    @FaxNumber char(10)
AS
    SELECT CustomerID,
           CustomerName
    FROM Sales.Customers
    WHERE FaxNumber = @FaxNumber;

The Sales.Customers table will contain 100,000 rows. You expect the FaxNumber column to contain a null value for 70 percent of the rows.

You need to create an index to support Sales.CustomersByFaxNumber. The solution must minimize the disk storage requirements.

Which code segment should you execute?

A. CREATE INDEX IX_Customers ON Customers (FaxNumber) WHERE FaxNumber IS NOT NULL
B. CREATE INDEX IX_Customers ON Customers (FaxNumber) WITH FILLFACTOR=0
C. CREATE INDEX IX_Customers ON Customers (CustomerName) INCLUDE (FaxNumber)
D. CREATE INDEX IX_Customers ON Customers (FaxNumber)
E. CREATE INDEX IX_Customers ON Customers (FaxNumber) WHERE FaxNumber IS NULL

Answer: A

You plan to create a new column in a table. The column must meet the following requirements:

. Be able to store images that are larger than 1 MB each.
. Be able to access the images from Microsoft .NET Framework applications.

You need to recommend which data type must be used in the column.

Which data type should you recommend?

More than one answer choice may achieve the goal. Select the BEST answer.

A. nvarchar
B. varbinary
C. image
D. FileStream

Answer: D

You have a table named Table1. Table1 has 1 million rows.

Table1 has a columnstore index for a column named Column1.

You need to import data to Table1. The solution must minimize the amount of time it takes to import the data.

What should you do?

To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

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 GETDATE() system function. The query plans and results are shown below:
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 having a 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: B,D

10. You have a SQL Server 2012 instance that hosts a single-user database.
The database does not contain user-created stored procedures or user-created functions.
You need to minimize the amount of memory used for query plan caching.
Which advanced server option should you modify?

A. Scan for Startup Procs
B. Enable Contained Databases
C. Optimize for Ad hoc Workloads
D. Allow Triggers to Fire Others

Answer: C

11. Your network contains a SQL Server 2012 instance named SQL1. SQL1 contains a database named DB1. DB1 contains three tables.
The tables are configured as shown in the following table.

<table>
<thead>
<tr>
<th>Table name</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table1</td>
<td>• Table data will not be updated.</td>
</tr>
<tr>
<td></td>
<td>• The table will contain historical calculations.</td>
</tr>
<tr>
<td></td>
<td>• The table will contain 10 million records.</td>
</tr>
<tr>
<td>Table2</td>
<td>• 20% of the table data will be updated weekly.</td>
</tr>
<tr>
<td></td>
<td>• The table will contain 25 million records.</td>
</tr>
<tr>
<td>Table3</td>
<td>• 40% of the table data will be updated weekly.</td>
</tr>
<tr>
<td></td>
<td>• The table will contain 1 million records.</td>
</tr>
</tbody>
</table>

You plan to create indexes for the tables.
You need to identify which type of index must be created for each table. The solution must minimize the amount of time required to return information from the
Which type of index should you create for each table? To answer, drag the appropriate index type to the correct table in the answer area.

<table>
<thead>
<tr>
<th>Index Types</th>
<th>Answer Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columnstore Index</td>
<td>Table1</td>
</tr>
<tr>
<td>Nonclustered Index</td>
<td>Table2</td>
</tr>
<tr>
<td>Nonclustered Index</td>
<td>Table3</td>
</tr>
</tbody>
</table>

Answer:

12. You use SQL Server 2014 to maintain the data used by applications at your company. You need to run two separate SQL statements.

You must guarantee that the following three things happen:

1. Either BOTH statements succeed or BOTH statements fail as a batch.
2. If an error occurs on the first statement, SQL should not attempt to run the second statement.
3. Error information should be returned to the client.

What should you do?

A. Option A

C. SET XACT_ABORT ON
   BEGIN TRY
   BEGIN TRAN
   BEGIN TRY
   ...Statement 1
   ...Statement 2
   IF @ERROR <> 0
   ROLLBACK
   ELSE
   COMMIT TRANSACTION
   
B. SET XACT_ABORT OFF
   BEGIN TRY
   ...Statement 1
   END TRY
   BEGIN TRY
   ...Statement 2
   END TRY
   BEGIN CATCH
   THROW
   END CATCH

D. SET XACT_ABORT ON
   BEGIN TRY
   ...Statement 1
   IF @ERROR <> 0
   GOTO CATCH
   ...Statement 2
   IF @ERROR <> 0
   GOTO CATCH
   END TRY
   BEGIN CATCH
   THROW
   END CATCH

A. Option A

B. Option B

C. Option C

D. Option D

Answer: A

Explanation: "SET XACT_ABORT When SET XACT_ABORT is ON, if a Transact-SQL statement raises a run-time error, the entire transaction is terminated and rolled back. When SET XACT_ABORT is OFF, in some cases only the Transact-SQL statement that raised the error is rolled back and the transaction continues processing."
13. You have a SQL Server 2012 database named database1.

Users report that queries that usually take less than one second to execute, take more than 30 seconds to execute.

You need to view the server resource consumption when the queries are executed.

What should you do?

To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Answer:

14. You plan to deploy two stored procedures named SP1 and SP2 that read data from the database.

Your company identifies the following requirements for each stored procedure:

- SP1 must allow dirty reads.
- SP2 must place range locks on the data to ensure read consistency.

You need to identify which isolation level you must set for each stored procedure. The solution must minimize the number of locks.

Which isolation level should you identify?

To answer, drag the appropriate isolation level to the correct stored procedure in the answer area. (Answer choices may be used once, more than once, or not at all.)

Answer:
15. 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 = OFF
C. STATISTICS_NORECOMPUTE = ON
D. FILLFACTOR = 80

Answer: D

Explanation:

16. You have a database named database1. Each table in database1 has one index per column.

Users often report that creating items takes a long time.

You need to perform the following maintenance tasks:

. Identify unused indexes.
. Identify indexes that need to be defragmented.

What should you use?

To answer, drag the appropriate function to the correct management task in the answer area. (Answer choices may be used once, more than once, or not at all.)

Answer:
17. You have a table named Table1 that contains 1 million rows. Table1 contains a column named Column1 that stores sensitive information. Column1 uses the nvarchar (16) data type.

You have a certificate named Cert1.

You need to replace Column1 with a new encrypted column named Column2 that uses one-way hashing.

Which code segment should you execute before you remove Column1?

To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.

18. You have two existing tables, one named COUNTRY and the other named STATES. The tables are defined as follows:
You need to set up a rule that every State.Country_Abbr must match an existing record in the Country table.

Develop the solution by selecting and arranging the required code blocks in the correct order.

You may not need all of the code blocks.

Answer:

1. REFERENCES STATES (Country_Abbr)
2. REFERENCES COUNTRY (Country_Abbr)
3. ON STATES
4. FOREIGN KEY (Country_Abbr)
5. ON COUNTRY
6. ADD CONSTRAINT FK_StateCountry
7. ON COUNTRY_Abbr
8. ADD FOREIGN KEY FK_StateCountry
9. ALTER TABLE STATES

---

19. You have a Microsoft SQL Azure database named DBAzure1.
You create a table in DBAzure1 by using the following script:

```
CREATE TABLE dbo.Customers
(
    CustomerId int NOT NULL,
    CustomerName nvarchar(50) NULL,
    CustomerContact nvarchar(50) NULL,
    CustomerDetails nvarchar(200) NULL,
    CONSTRAINT PK_Customers PRIMARY KEY CLUSTERED (CustomerId)
) ON [PRIMARY]
```

You need to recommend a solution to ensure that each combination of CustomerContact and CustomerDetails is not duplicated.

What should you recommend creating?

A. A CHECK constraint
B. A filtered index
C. A columnstore index
D. A UNIQUE constraint

**Answer:** D

20. The database contains a disk-based table named ContentTable that has 1 million rows and a column named Fax. Fax allows null values.

You need to update Fax to meet the following requirements:

- Prevent null values from being used.
- Always use an empty string instead of a null value.

Which statement or statements should you execute? (Each correct answer presents part of the solution. Choose all that apply.)

- Option A
- Option B
- Option C
- Option D
- Option E

**Answer:** A,B,E

**Explanation:**
- Option E: First change the NULLs to ".
- Option A: Then set the default to the column to ".
- Option B: Finally add the NOT NULL constraint to the column.
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