Microsoft

Exam Questions 70-457

Transition Your MCTS on SQL Server 2008 to MCSA: SQL Server 2012, Part 1
1. You are creating an application that will connect to the AgentPortal database by using a SQL login named AgentPortalUser. Stored procedures in the database will use sp_send_dbmail to send email messages.

You create a user account in the msdb database for the AgentPortalUser login. You use the Database Mail Configuration Wizard to create a Database Mail profile. Security has not been configured for the Database Mail profile.

You need to ensure that AgentPortalUser can send email messages.

What should you do?

A. In the Database Mail Configuration Wizard, configure the Database Mail profile as a private profile for the AgentPortalUser account.
B. Disable the guest user in the msdb database.
C. Use the sysmail_help_profileaccount_sp stored procedure to add accounts to the Database Mail profile.
D. In the Database Mail Configuration Wizard, create an email account for each recipient's email address in the Database Mail profile.

Answer: A

Explanation:

2. You administer a Microsoft SQL Server 2012 instance named SQL2012 that hosts an OLTP database of 1 terabyte in size. The database is modified by users only from Monday through Friday from 09:00 hours to 17:00 hours. Users modify more than 30 percent of the data in the database during the week.

Backups are performed as shown in the following schedule:

![Backups Schedule]

The Finance department plans to execute a batch process every Saturday at 09:00 hours. This batch process will take a maximum of 8 hours to complete. The batch process will update three tables that are 10 GB in size. The batch process will update these tables multiple times.

When the batch process completes, the Finance department runs a report to find out whether the batch process has completed correctly.

You need to ensure that if the Finance department disapproves the batch process, the batch operation can be rolled back in the minimum amount of time.

What should you do on Saturday?

A. Perform a differential backup at 08:59 hours.
B. Record the LSN of the transaction log at 08:59 hours. Perform a transaction log backup at 17:01 hours.
C. Create a database snapshot at 08:59 hours.
D. Record the LSN of the transaction log at 08:59 hours. Perform a transaction log backup at 08:59 hours.
E. Create a marked transaction in the transaction log at 08:59 hours. Perform a transaction log backup at 17:01 hours.
F. Create a marked transaction in the transaction log at 08:59 hours. Perform a transaction log backup at 08:59 hours.

Answer: C
3. You administer a Microsoft SQL Server 2012 server that hosts a transactional database and a reporting database. The transactional database is updated through a web application and is operational throughout the day. The reporting database is only updated from the transactional database.

The recovery model and backup schedule are configured as shown in the following table:

<table>
<thead>
<tr>
<th>Database</th>
<th>Recovery model:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transactional database</td>
<td>Full</td>
</tr>
<tr>
<td></td>
<td>Backup schedule:</td>
</tr>
<tr>
<td></td>
<td>Full database backup: midnight, daily</td>
</tr>
<tr>
<td></td>
<td>Differential database backup: on the hour, every two hours starting at 02:00 hours except at 00:00 hours</td>
</tr>
<tr>
<td></td>
<td>Log backups every half hour, except at the times of full and differential backups</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reporting database</th>
<th>Recovery model:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Simple</td>
</tr>
<tr>
<td></td>
<td>Backup schedule:</td>
</tr>
<tr>
<td></td>
<td>Full database backup: 01:00 hours daily</td>
</tr>
<tr>
<td></td>
<td>Differential database backup: 13:00 hours daily</td>
</tr>
<tr>
<td></td>
<td>Data update:</td>
</tr>
<tr>
<td></td>
<td>Changes in data are updated from the transactional database to the reporting database at 09:30 hours and at 12:30 hours</td>
</tr>
<tr>
<td></td>
<td>The update takes 15 minutes</td>
</tr>
</tbody>
</table>

One of the hard disk drives that stores the reporting database fails at 16:40 hours.

You need to ensure that the reporting database is restored. You also need to ensure that data loss is minimal.

What should you do?

A. Restore the latest full backup. Then, restore each differential backup taken before the time of failure from the most recent full backup.

B. Perform a partial restore.

C. Restore the latest full backup, and restore the latest differential backup. Then, restore the latest log backup.

D. Restore the latest full backup.

E. Perform a page restore.

F. Restore the latest full backup, and restore the latest differential backup. Then, restore each log backup taken before the time of failure from the most recent differential backup.

G. Restore the latest full backup. Then, restore the latest differential backup.

H. Perform a point-in-time restore.

Answer: G

4. You administer a Microsoft SQL Server 2012 server that hosts a transactional database and a reporting database. The transactional database is updated through a web application and is operational throughout the day. The reporting database is only updated from the transactional database.

The recovery model and backup schedule are configured as shown in the following table:
At 14:00 hours, you discover that pages 71, 520, and 713 on one of the database files are corrupted on the reporting database.

You need to ensure that the databases are restored. You also need to ensure that data loss is minimal.

What should you do?

A. Perform a partial restore.

B. Restore the latest full backup, and restore the latest differential backup. Then, restore each log backup taken before the time of failure from the most recent differential backup.

C. Restore the latest full backup.

D. Restore the latest full backup, and restore the latest differential backup. Then, restore the latest log backup.

E. Perform a page restore.

F. Restore the latest full backup. Then, restore each differential backup taken before the time of failure from the most recent full backup.

G. Perform a point-in-time restore.

H. Restore the latest full backup. Then, restore the latest differential backup.

Answer: H

5. Your application contains a stored procedure for each country. Each stored procedure accepts an employee identification number through the @EmpID parameter.

You need to build a single process for each employee that will execute the appropriate stored procedure based on the country of residence.

Which approach should you use?

A. a SELECT statement that includes CASE

B. BULK INSERT

C. A user-defined function

D. Cursor

E. view

Answer: D


Users report that an application that accesses the database displays an error, but the error does not provide meaningful information. No entries are found in the SQL Server log or Windows event logs related to the error.

You need to identify the root cause of the issue by retrieving the error message. What should you do?
A. Create an Extended Events session by using the sqlserver.error_reported event.
B. Create a SQL Profiler session to capture all ErrorLog and EventLog events.
C. Flag all stored procedures for recompilation by using sp_recompile.
D. Execute sp_who.
Answer: A


7. You administer a Microsoft SQL Server database that supports a shopping application.
You need to retrieve a list of customers who live in territories that do not have a sales person.
Which Transact-SQL query or queries should you use? (Each correct answer presents a complete solution. Choose all that apply.)
A. SELECT CustomerID FROM Customer
   WHERE TerritoryID <> SOME(SELECT TerritoryID FROM Salesperson)
B. SELECT CustomerID FROM Customer
   WHERE TerritoryID <> ALL(SELECT TerritoryID FROM Salesperson)
C. SELECT CustomerID FROM Customer
   WHERE TerritoryID <> ANY(SELECT TerritoryID FROM Salesperson)
D. SELECT CustomerID FROM Customer
   WHERE TerritoryID NOT IN(SELECT TerritoryID FROM Salesperson)
Answer: B,D

8. You administer a Microsoft SQL Server 2012 database that contains a table named OrderDetail.
You discover that the NCI_OrderDetail_CustomerID non-clustered index is fragmented.
You need to reduce fragmentation. You need to achieve this goal without taking the index offline.
Which Transact-SQL batch should you use?
A. CREATE INDEX NCI_OrderDetail_CustomerID ON OrderDetail.CustomerID WITH DROP EXISTING
B. ALTER INDEX NCI_OrderDetail_CustomerID ON OrderDetail.CustomerID
   REORGANIZE
C. ALTER INDEX ALL ON OrderDetail REBUILD
D. ALTER INDEX NCI_OrderDetail_CustomerID ON OrderDetail.CustomerID
   REBUILD
Answer: B

9. You administer a Microsoft SQL Server 2012 instance that contains a financial database hosted on a storage area network (SAN).
The financial database has the following characteristics:
A data file of 2 terabytes is located on a dedicated LUN (drive D).
A transaction log of 10 GB is located on a dedicated LUN (drive E).
Drive D has 1 terabyte of free disk space.
Drive E has 5 GB of free disk space.
The database is continually modified by users during business hours from Monday through Friday between 09:00 hours and 17:00 hours. Five percent of the existing data is modified each day.
The Finance department loads large CSV files into a number of tables each business day at 11:15 hours and 15:15 hours by using the BCP or BULK INSERT commands. Each data load adds 3 GB of data to the database.
These data load operations must occur in the minimum amount of time.

A full database backup is performed every Sunday at 10:00 hours. Backup operations will be performed every two hours (11:00, 13:00, 15:00, and 17:00) during business hours.

On Wednesday at 10:00 hours, the development team requests you to refresh the database on a development server by using the most recent version. You need to perform a full database backup that will be restored on the development server.

Which backup option should you use?

A. NORECOVERY
B. FULL
C. NO_CHECKSUM
D. CHECKSUM
E. Differential
F. 8ULK_LOGGED
G. STANDBY
H. RESTART
I. SKIP
J. Transaction log
K. DBO ONLY
L. COPY_ONLY
M. SIMPLE
N. CONTINUE AFTER ERROR

Answer: L

Reference:

10. DRAG DROP
You are a database administrator of a Microsoft SQL Server 2012 environment. The environment contains two servers named SQLServer01 and SQLServer02. The database Contoso exists on SQLServer01.

You plan to mirror the Contoso database between SQLServer01 and SQLServer02 by using database mirroring.

You need to prepare the Contoso database for database mirroring.

Which three 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.)

Answer:
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