Exam Questions 70-462
Administering Microsoft SQL Server 2012 Databases
NEW QUESTION 1
You administer a Microsoft SQL Server 2012 database named Contoso on a server named Server01. You need to prevent users from disabling server audits in Server01.
What should you create?
A. An Alert
B. A Resource Pool
C. An Extended Event session
D. A Policy
E. A Database Audit Specification
F. A SQL Profiler Trace
G. A Server Audit Specification

Answer: D

NEW QUESTION 2
You administer a Microsoft SQL Server 2012 server. You need to install the Power View components on a stand-alone server.
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:

Explanation:

NEW QUESTION 3
You administer a Microsoft SQL Server server. You plan to deploy new features to an application. You need to evaluate existing and potential clustered and non-clustered indexes that will improve performance.
What should you do?
A. Query the sys.dm_db_index_usage_stats DMV.
B. Query the sys.dm_db_missing_index_details DMV.
C. Use the Database Engine Tuning Advisor.
D. Query the sys.dm_db_missing_index_columns DMV.

Answer: C

NEW QUESTION 4
You administer a Microsoft SQL Server instance. You need to configure a new database to support FILETABLES.
Which three actions should you perform? Each correct answer presents part of the solution.
A. Disable FILESTREAM on the Database.
B. Enable FILESTREAM on the Server Instance.
C. Configure the Database for Partial Containment.
D. Create a non-empty FILESTREAM file group.
E. Enable Contained Databases on the Server Instance.
F. Set the FILESTREAM directory name on the Database.

Answer: BDF

NEW QUESTION 5
You administer a Microsoft SQL Server instance.
You discover that the SQL Agent Error Log file is rapidly growing in size.
You need to ensure that the SQL Agent Error Log file does not grow rapidly when SQL Server agent jobs execute.
What should you do?
A. Execute the sp_cycle_agent_errorlog stored procedure.
B. Configure event forwarding.
C. Enable the Auto Shrink option on the master database.
D. Enable the Auto Shrink option on the msdb database.
E. Disable the Include execution trace messages feature.

Answer: E

NEW QUESTION 6
You administer a Microsoft SQL Server 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:

<table>
<thead>
<tr>
<th>Type</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full</td>
<td>Sunday at 20:00 hours</td>
</tr>
<tr>
<td>Differential</td>
<td>Monday through Friday at 20:00 hours</td>
</tr>
<tr>
<td>Log</td>
<td>Monday through Friday between 08:00 hours and 18:00 hours</td>
</tr>
</tbody>
</table>

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 hour
C. Perform a transaction log backup at 17:01 hours.
D. Create a database snapshot at 08:59 hours.
E. Record the LSN of the transaction log at 08:59 hour
F. Perform a transaction log backup at 08:59 hours.
G. Create a marked transaction in the transaction log at 08:59 hour
H. Perform a transaction log backup at 17:01 hours.
I. Create a marked transaction in the transaction log at 08:59 hour
J. Perform a transaction log backup at 08:59 hours.

Answer: C

NEW QUESTION 7
You administer a Microsoft SQL Server 2012 database instance. Other applications run on the server. Some of the applications are throwing errors because of insufficient memory.
You need to ensure that the other applications have sufficient memory. Which setting should you configure?
Answer:

Explanation:
NEW QUESTION 8
You administer a Microsoft SQL Server database called Human_Resources. The database contains a table named dbo.Salary. You need to ensure that all read activity against dbo.Salary is audited and written to the Windows Security Log. What should you do? (To answer, move the three appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Answer:

Enable the Audit and the Audit Specification.
Create a new Audit. For destination, choose File.
Create a new Audit. For destination, choose Security Log.
Create a new Server Audit Specification. For Audit Action Type, choose DATABASE_OBJECT_ACCESS_GROUP.
Create a new Database Audit Specification on Human_Resources. For Audit Action Type, choose Select, and for Object Class, choose Database.
Create a new Database Audit Specification on Human_Resources. For Audit Action Type, choose References, and for Object Class, choose Database.
Create a new Database Audit Specification on Human_Resources. For Audit Action Type, choose Select; for Object Class, choose Object; and for Object Name, choose Salary.
Explanation: Note:
Example (step 2) (we should audit SELECT on the Salary table): USE AdventureWorks2012 ;
GO
-- Create the database audit specification.
CREATE DATABASE AUDIT SPECIFICATION Audit_Pay_Tables
FOR SERVER AUDIT Payrole_Security_Audit ADD (SELECT, INSERT
ON HumanResources.EmployeePayHistory BY dbo ) WITH (STATE = ON);
GO
References:

NEW QUESTION 9
You administer a Microsoft SQL Server database named Contoso that contains a single user-defined database role named BillingUsers.
All objects in Contoso are in the dbo schema.
You need to grant EXECUTE permissions for all stored procedures in Contoso to BillingUsers. Which Transact-SQL statement should you use?
A. GRANT EXECUTE ON Schema::dbo TO BillingUsers
B. EXEC sp_addrolemember 'db_proexecutor', 'BillingUsers'
C. GRANT EXECUTE ON INFORMATION_SCHEMA.ROUTINES TO BillingUsers
D. GRANT EXECUTE ON Schema::Contoso TO BillingUsers
Answer: A
Explanation: If you want to do it on schema level: GRANT EXECUTE ON SCHEMA ::dbo TO
Incorrect:
Not B: DB_Executor is none of the predefined SQL Server database role Not C, Not D: Incorrect schema.
References:
http://www.sqlservercentral.com/articles/Permissions/107472/

NEW QUESTION 10
You administer a Microsoft SQL Server database. The database is currently configured to log ship to a secondary server.
You are preparing to cut over to the secondary server by stopping log-shipping and bringing the secondary database online. You want to perform a tail-log backup.
You need to leave the primary database in a read-only state that can also have further transaction logs applied. Which option of the BACKUP LOG command should you use?
A. NO_TRUNCATE
B. NORECOVERY
C. STANDBY
D. FORMAT
Answer: C
Explanation: References: https://docs.microsoft.com/en-us/sql/t-sql/statements/backup-transact-sql

NEW QUESTION 11
You administer a Microsoft SQL Server 2012 instance named SQL2012. You are in the process of migrating a database from a SQL Server 2008 instance named SQL2008 to the SQL2012 instance.
You have upgraded a database from the SQL2008 instance by using the side-by-side migration technique. You need to migrate the SQL Server logins from the SQL2008 instance to the SQL2012 instance.
What should you do?
A. Back up the master database on the SQL2008 instanc
B. Restore the master database on the SQL2012 instance
C. Use the Transfer Logins task in a Microsoft SQL Server Integrated Services package
D. Use sp_grantlogin
E. Use xp_logininfo.
Answer: B
Explanation: Topic 4, Exam Pool D

NEW QUESTION 12
You work as a Database Administrator (DBA) at ABC.com. The infrastructure includes servers running Microsoft SQL Server 2012. All databases are hosted on a SAN (Storage Area Network).
You need to design a database solution for a new application.
You are tasked with designing a high-availability database solution.
The solution must include a single copy of the database to save disk space and the database must remain online in the event of a SQL Server failure. What should you include in your solution?
A. You should include two servers configured as a failover cluster.
B. You should include two servers and database mirroring.
C. You should include two servers and log shipping.
D. You should include two servers configure as a SQL Server Availability Group
Answer: A
NEW QUESTION 13
In which of the following statements about audit information stored in an SQL Server 2012 environment is TRUE?

A. It is located in a file specified in the File Path property of the Audit.
B. It is located in the Audit table in the MSDB database.
C. Each login has an audit record, which is viewable under Logins -> Audit.
D. SQL 2012 does not store any audit information.

Answer: A

Explanation: References:

NEW QUESTION 14
Which of the following statements about the tempdb system database is FALSE?

A. It is a globally available resource for all connected users.
B. It can hold explicitly or implicitly created database objects.
C. It must be sized in accordance with the smallest user-database on the machine.
D. It is created every time the SQL Server instance is restarted.

Answer: C

Explanation: References:

NEW QUESTION 15
You administer a Microsoft SQL Server database server.
When errors that have severity level of 18 or higher occur, SQL Server must send an email message to the database administrators.
You need to configure SQL Server to send the email messages. What should you configure?

A. Alerts and operators in SQL Server Agent
B. An Extended Events session
C. Policies under Policy-Based Management
D. SQL Mail

Answer: A

Explanation: The SQL Server Agent must be configured to use Database Mail to send alerts to an operator via e-mail. References:
https://blogs.uoregon.edu/shanemcgovern/2015/09/02/database-mail-configuration-wizard-alerts-and-you/

NEW QUESTION 16
You have a server named SPS1 that has Microsoft SharePoint Server 2013 installed. You have several Power View reports that are created in Microsoft Excel 2016. You need to configure SPS1 to display the Power View reports.
Which two SQL Server components should you install on SPS1? Each correct answer presents part of the solution.

A. SQL Server Analysis Services (SSAS) in Multidimensional and Data Mining Mode
B. SQL Server Reporting Services (SSRS) in SharePoint mode
C. the PowerPivot for SharePoint 2013 add-in
D. SQL Server Analysis Services (SSAS) in SharePoint mode
E. SQL Server Analysis Services (SSAS) in Tabular Mode

Answer: BC

Explanation: Power Pivot for SharePoint is a middle-tier data engine that loads, queries, and refreshes data models hosted in SharePoint.
Power View is an interactive data exploration, visualization, and presentation experience that encourages intuitive ad-hoc reporting. Power View is a feature of Microsoft Excel 2013, and of Microsoft SharePoint Server 2010 and 2013 as part of the SQL Server 2012 Service Pack 1 Reporting Services Add-in for Microsoft SharePoint Server Enterprise Edition.
References:

NEW QUESTION 17
Which of the following is NOT a valid recovery model for an SQL 2012 database?

A. ArchiveLog
B. Simple
C. Bulk-logged
D. Full

Answer: A

Explanation: References:
NEW QUESTION 18
You have a two-node SQL Server 2014 cluster that has an AlwaysOn availability group configured in synchronous mode.
You plan to provide a reporting solution by using a third node in the cluster.
You need to add the third node. The solution must prevent any impact on the performance of database writes. You install another server that has SQL Server installed.
Which three additional 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:**

**Explanation:**

Step 1: Add a new availability replica in asynchronous mode.
Asynchronous-commit mode minimizes transaction latency on the secondary databases but allows them to lag behind the primary databases, making some data loss possible.
Incorrect: Add a new availability replica in synchronous mode.
Synchronous-commit mode ensures that once a given secondary database is synchronized with the primary database, committed transactions are fully protected. This protection comes at the cost of increased transaction latency.

Step 2: Set Readable Secondary to Read-intent only.
For the secondary role, select a new value from the Readable secondary drop list, as follows: Read-intent only
Only read-only connections are allowed to secondary databases of this replica. The secondary database(s) are all available for read access.

Step 3: Configure read-only routing.
Note: Read-only routing refers to the ability of SQL Server to route qualifying read-only connection requests to an available Always On readable secondary replica (that is, a replica that is configured to allow read-only workloads when running under the secondary role). To support read-only routing, the availability group must possess an availability group listener. Read-only clients must direct their connection requests to this listener, and the client's connection strings must specify the application intent as "read-only." That is, they must be read-intent connection requests.

References:

NEW QUESTION 19
You have a default installation of SQL Server that hosts an Online Transaction Processing (OLTP) application.
Users report that they experience poor overall query performance for the application. You query the wait statistics and discover that the two top waits are CXPACKET and SOS_SCHEDULER_YIELD.
You need to modify the SQL Server settings to resolve the issue causing the poor query performance. Which two settings should you modify? Each correct answer presents part of the solution.

A. max degree of parallelism (MAXDOP)
B. Minimum Memory
C. optimize for ad hoc workloads
D. Boost SQL Server priority
E. cost threshold for parallelism

**Answer:** AE

**Explanation:**

A: Lower the MAXDOP.
When high CXPACKET values are encountered, a possible issue, even in case when parallelism is evenly distributed, is when the cost of creating the parallel plan is higher than the cost of the serialized thread. This is often something that is overlooked and by the rule of thumb of reaching for altering of the Max Degree of Parallelism (MAXDOP), by setting it to 1 (each and every query will be processed by the single CPU core). Configuring MAXDOP settings to 1 should be the last resource used in troubleshooting excessive CXPACKET wait times.

When a high CXPACKET value is accompanied with a LATCH_XX and with PAGEIOLATCH_XX or SOS_SCHEDULER_YIELD, it is an indicator that slow/inefficient parallelism itself is the actual root cause of the performance issues. And in such a scenario if the LATCH_XX waits is ACCESS_METHODS_DATASET_PARENT or ACCESS_METHODS_SCAN_RANGE_GENERATOR.
class, then it is highly possible that the parallelism level is the bottleneck and the actual root cause of the query performance issue. This is a typical example when MAXDOP should be reduced.

E: The Cost Threshold for Parallelism (CTFP) value is in seconds and it means that for every query for which SQL Server estimates that running time will be longer than 5 seconds, a parallel plan will be created.

To prevent unwanted parallelism, the CTFP number could be increased and by the aforementioned rule of thumb, a minimum value of 25. Recent analysis indicates that 50 should be the optimal minimal number for modern computers.


NEW QUESTION 20
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, create an email account for each recipient's email address in the Database Mail profile.
B. Configure the AgentPortalUser user as a member of SQLAgentOperationRole in the msdb database.
C. In the Database Mail Configuration Wizard, configure the Database Mail profile as a private profile for the AgentPortalUser
D. Enable the Guest user in the msdb database.

Answer: C

Explanation: To send Database Mail, you must be a member of the DatabaseMailUserRole database role in the msdb database.

NEW QUESTION 21
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